DDC FILE COPY

ADA081175

(14) AFGL-TR-79-0193, AFGL-IP-INSTRUMENTATION PAPERS, NO. 279

LEVEL II

(12)

Icing Nozzle Element Optimization Test, January 1979.

(9) Final rept.,

(10) LEANDRO V. DELGADO CAPT, USAF

(11) 20 August 1979

(12) 372

THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DDC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

Approved for public release; distribution unlimited.

DTIC ELECTE S MAR 3 1980 D A

(16) (17) C0

METEOROLOGY DIVISION PROJECT AFFT
AIR FORCE GEOPHYSICS LABORATORY
HANSCOM AFB, MASSACHUSETTS 01731

AIR FORCE SYSTEMS COMMAND, USAF

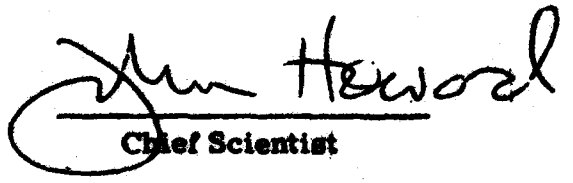
409578

80 3 3 111

This report has been reviewed by the ESD Information Office (OI) and is releasable to the National Technical Information Service (NTIS).

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



Chief Scientist

Qualified requestors may obtain additional copies from the Defense Documentation Center. All others should apply to the National Technical Information Service.

DISCLAIMER NOTICE

THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DDC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER AFGL-TR-79-0193	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) ICING NOZZLE ELEMENT OPTIMIZATION TEST, JANUARY 1979		5. TYPE OF REPORT & PERIOD COVERED Scientific. Final 6. PERFORMING ORG. REPORT NUMBER IP No. 279
7. AUTHOR(s) Leandro V. Delgado, Capt, USAF		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Air Force Geophysics Laboratory (LYC) Hanscom AFB Massachusetts 01731		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS AFFTC099
11. CONTROLLING OFFICE NAME AND ADDRESS Air Force Geophysics Laboratory (LYC) Hanscom AFB Massachusetts 01731		12. REPORT DATE 20 August 1979 13. NUMBER OF PAGES 370
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		15. SECURITY CLASS. (of this report) Unclassified 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Aircraft icing
Icing
Icing simulation
Artificial cloud
Cloud physics

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

An MC-130E instrumented by AFGL for cloud physics research flew a series of tests behind a KC-135 specially modified with a multi-element spray nozzle. The tests, for Air Force Flight Test Center, were to sample and define the spray plume produced by the nozzle at specified values of water flow rate, distance from nozzle, and temperature. PMS spectrometers were used to sample the artificial cloud. Data were analyzed to produce sample average and instantaneous (1 sec) particle size spectra with liquid water content values. Comparison of values of liquid water content, water flow rate, and distance

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

20. (Cont)

from nozzle to instrument indicate well defined linear relationships. Instantaneous (1 sec) liquid water content values indicate a variance in the uniformity across the spray. Maximum, minimum, mean, and standard deviation values are provided for each sample to characterize the variance. Although many of the particles had round shapes, it was not possible to tell from the instrumentation whether the particles were ice or water drops.

Preface

I wish to acknowledge the outstanding airmanship displayed by the 4950th Test Wing crew of Major Robert Mitchel, Captain Willie E. Cole, Captain Patrick A. Collins, SSgt David C. Woodward, and TSgt David L. Terrell. The difficulties created by the close formation flight of aircraft with dissimilar performance capabilities and the fine control necessary for data acquisition were overcome by their superb skill. Special thanks go to TSgt Terrell for his alignment observations from a difficult vantage point. I also wish to thank the AFGL flight crew, Mr. Donald McLeod, MSgt Thomas Moraski, MSgt Stephen Crist, SrA Wayne Domeier and SrA Grant Matsuoka for their outstanding performance insuring optimum test equipment operation.

The advice and assistance of Dr. Arnold A. Barnes, Jr. as well as the support of Barbara Main and secretarial assistance of Pat Sheehy were invaluable in preparing this report.

Special thanks are also extended to James Lally of Digital Programming Services, Inc. for the many interactions in the data processing and for the creation of the mean/standard deviation format presentation.

Accession For
NTIS GRA&I
DDC TAB
Unannounced
Justification
By
Dist Special
A/23

Contents

1.	INTRODUCTION	7
2.	INSTRUMENTATION	11
3.	RANGE WEATHER CONDITIONS	13
4.	DATA	17
5.	CONCLUSIONS	21
APPENDIX A:	Sample Average Data	23
APPENDIX B:	Graphic Depiction of Variation With Time of Liquid Water Content Values	79
APPENDIX C:	One-Second Data	109

Illustrations

1.	Cloud Physics Instrumentation Aboard MC-130E S/N 640571	8
2.	Upper Air Sounding for Spray Test Date, 20 January 1979, Vandenberg AFB	15
3.	Upper Air Sounding for Spray Test Date, 24 January 1979, Edwards AFB	16
4.	Upper Air Sounding for Spray Test Date, 25 January 1979, Vandenberg AFB	16

PRECEDING PAGE BLANK - NOT FILM

Illustrations

5.	Representative "2-D" Shadowgraph Data Taken in Icing Nozzle Spray	18
6.	Photograph of Aircraft Orientation As They Position to Sample	19
7.	Spectrometer Probe on C-130 Right Wing Acquiring Plume Particle Data	19
8.	Liquid Water Content (g/m^3) vs Nozzle Water Flow Rate (gpm), Data Points 1-16	20
9.	Liquid Water Content (g/m^3) vs Nozzle Water Flow Rate (gpm) Data Points 17-32	20
10.	Liquid Water Content (g/m^3) vs Distance From Nozzle in Feet	20
A1.	Graphic Format. Liquid Water Content, Number Density vs Particle Diameter	24
A2.	Tabular Data Format	25
B1.	Graphic Format. One-Second Data, Liquid Water Content, Mean, and Standard Deviation	80

Tables

1.	Summary of Sample Parameters	8
2.	Summary of Samples	10
3.	Meteorological Conditions in the Test Area, 20 January 1979	13
4.	Meteorological Conditions in the Test Area, 24 January 1979	14
5.	Meteorological Conditions in the Test Area, 25 January 1979	14

Icing Nozzle Element Optimization Test, January 1979

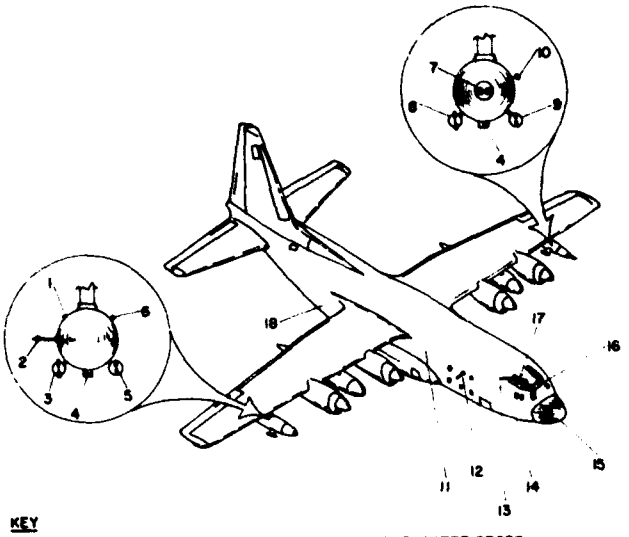
1. INTRODUCTION

In January 1979, a series of three flights was made on 4950th Test Wing MC-130E, S/N 640571, by Air Force Geophysics Laboratory technicians, to obtain particle size and concentration data for the USAF Flight Test Center Icing Simulation Spray Nozzle test program. Each mission consisted of three aircraft: the MC-130E, S/N 640571; KC-135, S/N 553128, Flight Test Center (FTC) aircraft equipped with a spray nozzle; and an A-37, used for photographic documentation of the test.

The MC-130E was flown in formation behind the KC-135 such that cloud physics instrumentation on the outboard right wing pylon (see Figure 1) was positioned within a water spray emitted from a specially designed nozzle on the KC-135 refueling boom.

FTC specified 32 data points. These were defined by parameters of distance from spray nozzle to instrumentation, pressure at the water tank manifold, water flow rate, an FTC determined calibration factor, temperature, and airspeed. Units, where indicated, are those provided by the FTC. Two additional data points (designated XTRA 1 and XTRA 2) were taken as the opportunity arose. Significant parameters of these data points are listed in Table 1.

(Received for publication 20 August 1979)



KEY

1. DEW POINT HYGROMETER PROBE
2. PMS 1-D AXIAL SCATTER PROBE (2-30μ)
3. PMS 1-D PRECIP. PROBE (300-4500μ)
4. HYDROMETEOR FOIL SAMPLER
5. PMS 1-D CLOUD PROBE (20-300μ)
6. TOTAL AIR TEMPERATURE PROBE
7. EWER PROBE
8. PMS 2-D PRECIP. PROBE (200-6400μ)
9. PMS 2-D CLOUD PROBE (25-800μ)
10. J W CLOUD WATER PROBE
11. PDP-8/E COMPUTER & LINE PRINTER
12. FORMVAR HYDROMETEOR REPLICATOR
13. VISUAL HYDROMETEOR PROBE
14. I.N.S. & DOPPLER RADAR
15. AN/APQ-122 K_a & 5CM WEATHER RADAR
16. 16mm NOSE CAMERA
17. PROBE LIGHT
18. TELEMETRY

Figure 1. Cloud Physics Instrumentation Aboard MC-130E S/N 640571

Table 1. Summary of Sample Parameters

Sample	Distance (ft)	Pressure (psi)	H_2O Flow Rate (gpm)	Calibration Factor	Outside Air Temperature (C)
1	100	10	18	8	-10
2	100	10	20	9	-10
3	100	10	21	10	-10
4	100	10	23	10	-10
5	200	10	18	8	-10
6	200	10	23	10	-10
7	200	10	32	14	-10
8	200	10	36	16	-10
9	300	10	15	8	-10
10	300	10	19	10	-10

Table 1. Summary of Sample Parameters (Cont)

Sample	Distance (ft)	Pressure (psi)	H_2O Flow Rate (gpm)	Calibration Factor	Outside Air Temperature (C)
11	300	10	26	14	-10
12	300	10	34	18	-10
13	400	10	15	8	-10
14	400	10	19	10	-10
15	400	10	26	14	-10
16	400	10	34	16	-10
17	100	10	15	6	-20
18	100	10	20	8	-20
19	100	10	23	9	-20
20	100	10	25	10	-20
21	200	10	15	6	-20
22	200	10	25	10	-20
23	200	10	35	14	-20
24	200	10	40	16	-20
25	300	10	15	6	-20
26	300	10	25	10	-20
27	300	10	35	14	-20
28	300	10	46	18	-20
29	400	10	15	6	-20
30	400	10	25	10	-20
31	400	10	35	14	-20
32	400	10	46	18	-20
XTRA 1	100	10	54	23.5	-10
XTRA 2	200	10	53	23.5	-10

psi = pounds/square inch
gpm = gallons/minute
ft = feet separation from nozzle to instruments
C = degrees Celsius

During the test, procedures were established to monitor the instrumentation within the spray plume visually and instrumentally to insure valid data for each data point. Each sampling mission began with a 1-min background sample in clear air at the test altitude within the test area to provide a reference to existing conditions. Each of these samples is labeled BKGND. Complete sample times are listed in Table 2. All times are GMT.

Table 2. Summary of Samples

Filter Number	Sample Number	Date (GMT)	Start Time (GMT) H M S	Stop Time (GMT) H M S
E79-3	BKGND	20 January 1979	23:57:00	23:58:00
E79-4	BKGND	24 January 1979	20:52:00	20:53:00
E79-5	BKGND	25 January 1979	21:14:00	21:15:00
E79-3	1A	21 January 1979	00:07:24	00:07:37
E79-3	1B	21 January 1979	00:07:40	00:07:55
E79-3	2	21 January 1979	00:14:55	00:15:18
E79-3	3	21 January 1979	00:18:45	00:19:00
E79-3	4	21 January 1979	00:20:12	00:20:32
E79-3	5	21 January 1979	00:25:06	00:25:20
E79-3	6	21 January 1979	00:26:42	00:26:56
E79-3	7	21 January 1979	00:28:59	00:29:14
E79-3	8A	21 January 1979	00:30:03	00:30:09
E79-3	8B	21 January 1979	00:30:20	00:30:46
E79-3	9	21 January 1979	00:35:24	00:35:43
E79-3	10A	21 January 1979	00:36:15	00:36:26
E79-3	10B	21 January 1979	00:36:31	00:36:50
E79-3	11	21 January 1979	00:38:41	00:38:47
E79-3	12	21 January 1979	00:40:09	00:40:29
E79-3	13	21 January 1979	00:48:20	00:48:27
E79-3	14	21 January 1979	00:50:12	00:50:21
E79-3	15A	21 January 1979	00:57:44	00:57:50
E79-3	15B	21 January 1979	00:57:57	00:58:09
E79-3	15C	21 January 1979	00:58:14	00:58:24
E79-3	16	21 January 1979	00:58:41	00:59:32
E79-5	17A	25 January 1979	21:17:28	21:17:33
E79-5	17B	25 January 1979	21:17:41	21:17:45
E79-4	18A	24 January 1979	20:55:09	20:55:36
E79-4	18B	24 January 1979	20:56:23	20:56:38
E79-5	18C	25 January 1979	21:19:30	21:20:00
E79-4	19A	24 January 1979	21:18:12	21:18:19
E79-4	19B	24 January 1979	21:18:25	21:18:50
E79-5	19C	25 January 1979	21:20:22	21:20:37
E79-4	20	24 January 1979	21:19:26	21:19: 35
E79-4	21	24 January 1979	21:21:38	21:21:35
E79-4	22A	24 January 1979	21:23:14	21:23:21

Table 2. Summary of Samples (Cont)

Filter Number	Sample Number	Date (GMT)	Start Time (GMT) H M S	Stop Time (GMT) H M S
E79-4	22B	24 January 1979	21:23:25	21:23:41
E79-4	23A	24 January 1979	21:24:Ø7	21:24:17
E79-4	23B	24 January 1979	21:24:3Ø	21:24;58
E79-4	24	24 January 1979	21:25:Ø2	21:25:25
E79-4	25	24 January 1979	21:26:36	21:26:51
E79-4	26	24 January 1979	21:28:28	21:28:4Ø
E79-4	27	24 January 1979	21:29:38	21:29:54
E79-4	28A	24 January 1979	21:34:18	21:34:32
E79-4	28B	24 January 1979	21:44:Ø6	21:44:3Ø
E79-4	29	24 January 1979	21:36:11	21:36:26
E79-4	3ØA	24 January 1979	21:37:34	21:37:42
E79-4	3ØB	24 January 1979	22:1Ø:Ø9	22:1Ø:26
E79-4	31A	24 January 1979	21:39:14	21:39:24
E79-4	31B	24 January 1979	22:15:47	22:15:59
E79-4	32A	24 January 1979	21:39:33	21:39:49
E79-4	32B	24 January 1979	22:17:37	22:17:55
E79-3	XTRA 1	21 January 1979	Ø1:Ø2:57	Ø1:Ø3:Ø9
E79-3	XTRA 2	21 January 1979	Ø1:Ø5:15	Ø1:Ø5:53

Distance estimates for the 100- and 200-ft points were provided by the KC-135 boom operator, while estimates at 300 and 400 ft were provided by the MC-130E pilots using a sighting gauge provided by FTC. Estimates of distance for each data point are nominally those specified in the test parameters listed in Table 1. The variance was generally reported within ± 20 ft and will not be specifically chronicled here.

The tests were conducted in area 1 and 1B of the Edwards AFB test complex.

2. INSTRUMENTATION

The instrumentation aboard the MC-130E applicable to this test included the Particle Measuring Systems (PMS) laser spectrometers, the altimetry and airspeed systems, a Rosemount total temperature probe, a dew-point hygrometer, a seven-track voice tape recorder, a PDP-8E computer and peripherals, and magnetic tape recorders for all data. All of these except the PMS probes, the primary

instrumentation for this test, are fairly standard and self explanatory and will not be discussed in detail here. However, the following discussion of the laser spectrometers will aid in understanding the particle distribution data presented.

The MC-130E is equipped as shown in Figure 1 with five optical laser spectrometers manufactured by Particle Measuring Systems, Inc. for measuring the size and number of atmospheric hydrometeors. These include the one dimensional (1-D) probes which count and size the particles and the two dimensional (2-D) probes which make two dimensional "shadowgraph" recordings of particle shapes.

The three 1-D probes cover three separate size ranges; the axial scattering probe from 2 to 30 μm, the "cloud" probe from 20 to 300 μm, and the "precipitation" probe from 300 to 4,500 microns. The particles passing through the scattering probe are sized and counted by determining the amount of light that is forward scattered as the particle moves through the laser beam. With the two other probes, particles passing through a collimated laser beam occlude a portion of that beam which is focused on a photo diode array. The number of diodes occluded is proportional to particle size. An electronic circuit counts and sorts the particles which are recorded with the other data at 1-sec intervals.

There are two 2-D probes which image particles from 25 to 800 μm (2-D cloud probe) and from 200 to 6,400 μm (2-D precipitation probe). They are an extension of the one-dimensional technology and have a second time-derived dimension based on the true airspeed and the duration of occlusion of the photo diodes. The data are recorded on magnetic tape which produces a high quality two-dimensional shadowgraph image when processed. Software has also been produced at AFGL to process the digital 2-D data for size and number distributions similar to those available from the 1-D data.

The operation of these probes under the conditions of this test, that is, a plume of small spherical water droplets, should produce highly accurate size, number concentration, and liquid water content information. More detailed discussion of these instruments has been given by Knollenberg[1, 2] and Heymsfield.[3]

The only limitation upon the performance of any instrumentation was the effect of the relatively high airspeed on the 2-D pictographic data. Airspeed in excess of the timing limits of the 2-D data system produces distortion of the particle shadowgraphs. These will be further discussed in the data section.

1. Knollenberg, R.G. (1970) The optical array: An alternative to scattering or extinction for airborne particle size determination, J. of Appl. Meteorol. 9:86-103.
2. Knollenberg, R.G. (1976) Three new instruments for cloud physics measurements: The 2-D spectrometer, the forward scattering probe, and the active scattering spectrometer. In Preprints of International Cloud Physics Conference, American Meteorological Society, pp 554-561.
3. Heymsfield, A.J. (1976) Particle size distribution measurement: An evaluation of the Knollenberg optical array probes. Atmospheric Technology, (by NCAR) No. 8:17-24.

3. RANGE WEATHER CONDITIONS

Clear air was required at test altitudes for these missions. The observations from the Edwards AFB weather station, which is on the southern border of the test area, are listed in Tables 3, 4, and 5 for each of the test days. In all cases the test altitudes were free of cloud. High overcasts on 20 and 24 January created some difficulty in distinguishing the spray against the cirrus background. This problem was especially noticeable on the 20 January mission which was completed just before sundown. Visibility was otherwise excellent on all three missions.

Table 3. Meteorological Conditions in the Test Area, 20 January 1979, Edwards AFB, California

Time (GMT)	Sky Condition	Visibility (miles)
1355	250-⊕	15
1455	250-⊕	25
1555	250-⊕	35
1655	250-⊕	35
1755	250-⊕	35
1855	250-⊕	45
1955	250-⊕	45
2055	250-⊕	45
2155	250-⊕	45
2255	E250-⊕	45
2357	E250-⊕	45
0055	E250-⊕	45
0155	E250-⊕	45
0255	E250-⊕	45
0355	E250-⊕	45
0455	E250-⊕	45

Table 4. Meteorological Conditions in the Test Area, 24 January 1979, Edwards AFB, California

Time (GMT)	Sky Condition			Visibility (miles)
1355		E120 ⊙	250 ⊕	25
1455		E120 ⊙	250 ⊙	45
1555		90 ⊙	250 ⊙	45
1655		90 ⊙	E120 ⊕	45
1755	90 ⊙	E120 ⊙	250 ⊕	45
1855		120 ⊙	250-⊕	45
1955	50 ⊙	120 ⊙	250-⊕	45
2055	50 ⊙	120 ⊙	250-⊕	45
2155	50 ⊙	120 ⊙	250-⊕	45
2255	50 ⊙	120 ⊙	250-⊕	45
2355	50 ⊙	120 ⊙	250-⊕	45
0055	50 ⊙	120 ⊙	250-⊕	45
0155		50 ⊙	250-⊕	45
0255		50 ⊙	250-⊕	45
0355			250-⊕	45
0455			250-⊙	45

Table 5. Meteorological Conditions in the Test Area, 25 January 1979, Edwards AFB, California

Time (GMT)	Sky Condition			Visibility (miles)
1355		100 ⊙	250-⊙	15
1455	50 ⊙	E100 ⊙	250 ⊙	15
1555		50 ⊙	100 ⊙	20
1655		50 ⊙	100 ⊙	25
1755		50 ⊙	100 ⊙	25
1855		50 ⊙	100 ⊙	35
1955		50 ⊙	100 ⊙	35
2055			50 ⊙	35
2158			50 ⊙	35
2258			50 ⊙	35

Upper air soundings are presented in Figures 2, 3, and 4 from the two closest stations; Edwards AFB, on the southern border of the test area, and Vandenberg AFB, located 110 nautical miles WSW of Edwards AFB. The sounding on 21 January indicates a dry atmosphere with relatively light winds. The sounding at 24/1200Z indicates a very moist atmosphere 10 hr prior to the mission on that date. By 25/1000Z a strong drying and warming trend had occurred. This drying and warming trend is also evident on the 25/0000Z and 26/0000Z soundings from Vandenberg AFB. Wind speed increased with time in the lower layers through 9 kilometers. Wind barbs are spaced across the figure to increase legibility where necessary.

It should be noted that while no cloud was observed at, or in close proximity to, the test levels, some particle concentrations were observed in the "clear air" background samples on the 24th and 25th. This phenomenon is real and has been observed on a variety of other missions supported by this organization.[4] Particles are in sufficiently small concentrations that they are not visible to the naked eye as a cloud or even haze layer. Concentrations measured in these background samples are small and have negligible effect on the test data.

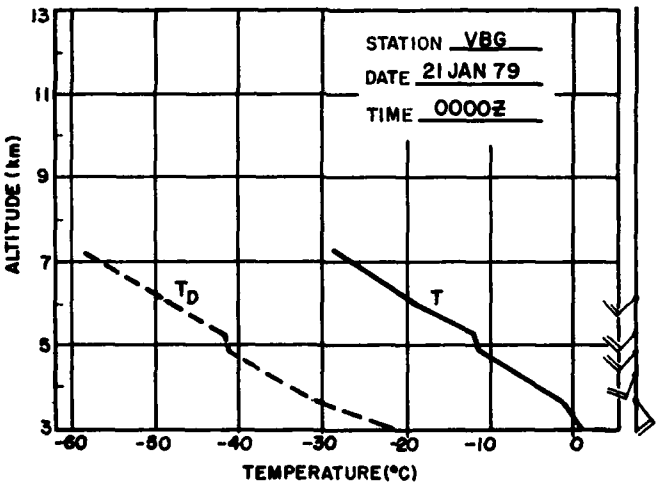
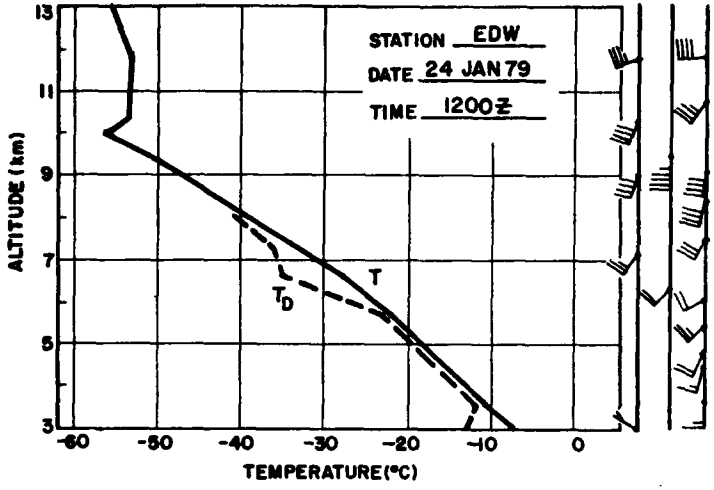


Figure 2. Upper Air Sounding for Spray Test Date, 20 January 1979, Vandenberg AFB

4. Varley, D. J. (1979) A Marine Boundary Layer Sampling Flight in Clear Air, AFGL-TR-79-0013, AD A069723.



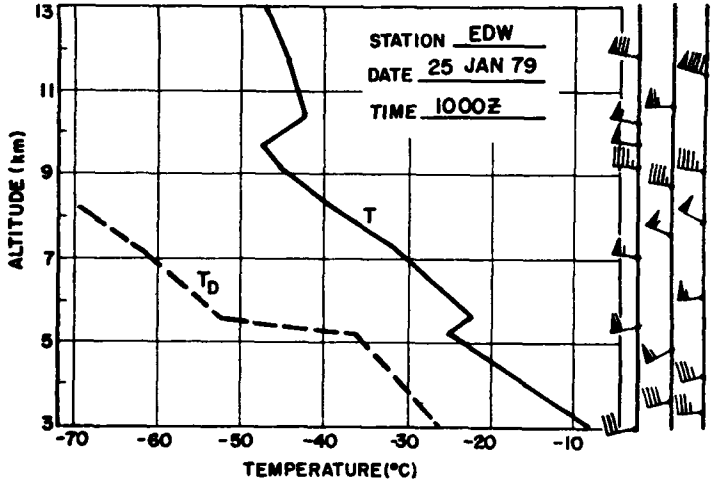
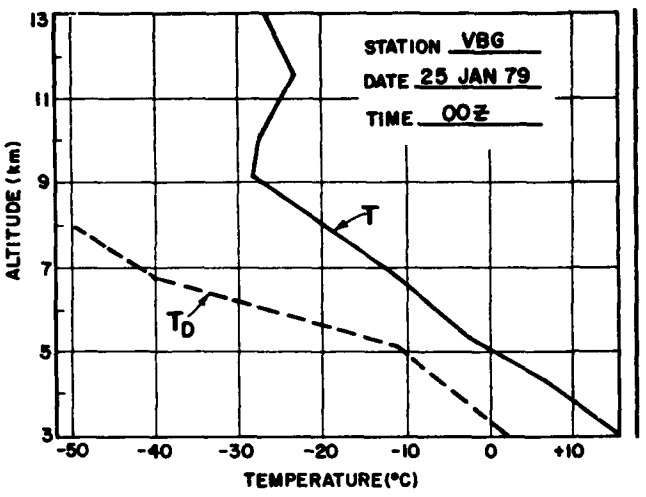


Figure 3. Upper Air Sounding for Spray Test Date, 24 January 1979, Edwards AFB



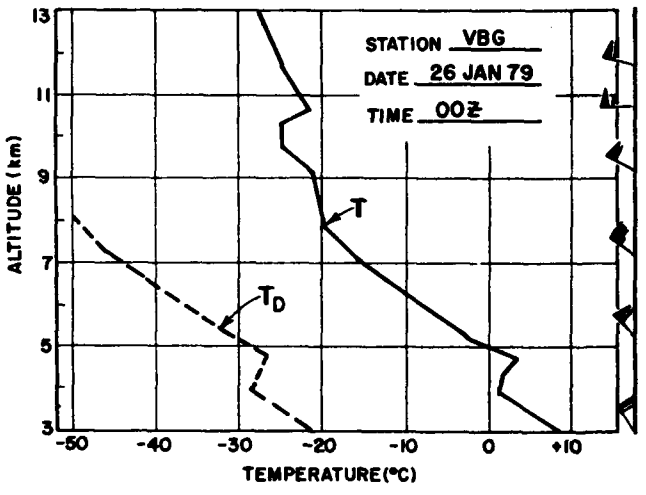


Figure 4. Upper Air Sounding for Spray Test Date, 25 January 1979, Vandenberg AFB

4. DATA

Computer processed data from the 1-D PMS probes are presented in Appendices A, B, and C. Appendix A is a graphic presentation of number density and liquid water content vs particle size, with a tabular presentation of the sample average data presented on the graph. Figures A1 and A2 provide a key to the information. Appendix B presents the 1-sec values for each sample graphically, as well as an arithmetic mean and standard deviation for each sample. Appendix C presents the 1-sec data for all background and sample periods. The format is the same as depicted in Figure A2.

The data are "normalized" and "smoothed". Normalization is accomplished to remove biases introduced because of large differences in sampling volumes and size class widths between the sampling probes. The computation of a particle concentration for each probe size interval is divided by the width (bar width) of that particular size interval. The normalization permits determination of particle concentrations for all particle sizes per unit distance travelled.

The smoothing process consists of considering the overlap in size range between the largest sizes of the 1-D cloud probe and the smallest channel of the 1-D precipitation probe. An algorithm is used to derive new center diameters for channel 1 of the precipitation probe, and new number densities for the upper three channels of the cloud probe. The result is a single particle number vs size distribution with no overlap. The smoothing function is applied to the total sample accumulated data in Appendix A; in Appendix B it is applied to each 1 sec of data within the sample to obtain reasonable 1-sec values. The mean value found in Appendix B will generally be different from the sample average liquid water content in Appendix A due to this difference in application of the "smoothing" technique.

Data were taken with the boom of the NKC-135 at full down deflection. Data times indicated in Table 1 are those during which all directional and data advisories indicate that the three 1-D probes were totally in the spray. Variance of the second to second values of liquid water content is a result of excursions of the PMS instruments within the spray plume, and should give an indication of the variability of conditions within the spray. The distance between the two most widely separated probes, the PMS 1-D axial scatter probe (2-30 μm) and PMS 1-D cloud probe (20-300 μm), is approximately 4 feet.

A sample with the 2-D instrumentation was taken to determine if the spray remains in liquid form within the test envelope. These data were taken at a distance of 400 ft at an outside air temperature of -20C. The 2-D system has additional electronic timing capability which allows measurement and recording of duration of diode occlusion by particles. This horizontal time information creates a two dimensional "picture" of each particle sampled, which is displayed in the form of a

shadowgraph. A presentation of selected particle shadows appears in Figure 5. Aircraft airspeed was higher than the stated limits of the 2-D system. Some distortion of data occurred. It was not possible to determine whether this distortion was due to air speed or the freezing of some of the small particles. Many of the particles appeared as round drops.

Samples 18 and 19 are cases in which the same data points were flown on different days. In Appendix B, samples 18A, B, and C show excellent agreement in all respects. Samples 19B and 19C also are quite comparable. Sample 19A, however, is of significantly shorter duration (8 sec vice 16 sec for 19B and C, respectively) and does not exhibit the maximum values attained in the 19B and C samples. All samples are clearly within the spray from data in both Appendices A and C. The longer the sample duration, the more likely it is that the maximum and minimum values will be well defined for any of the data points, as is shown in samples 19A, B, and C. The planned minimum sample duration of 15 sec appears to be adequate for this experiment. This should yield sufficient data to describe the maximum and minimum values across the spray plume.

Presentations of consolidated pass average data are given in Figures 8, 9, and 10. Figures 8 and 9 depict the curves described by increasing water flow at the four sample distances (100, 200, 300, and 400 ft). The first depicts the sample taken at the lower altitude (outside air temperature -10C) while the latter encompasses the 16 samples at the higher altitudes (OAT -20C). It is apparent that a well defined family of curves is described by the data. There are some anomalies, but these may be ascribed to a poor sample given the difficult nature of the flying involved.

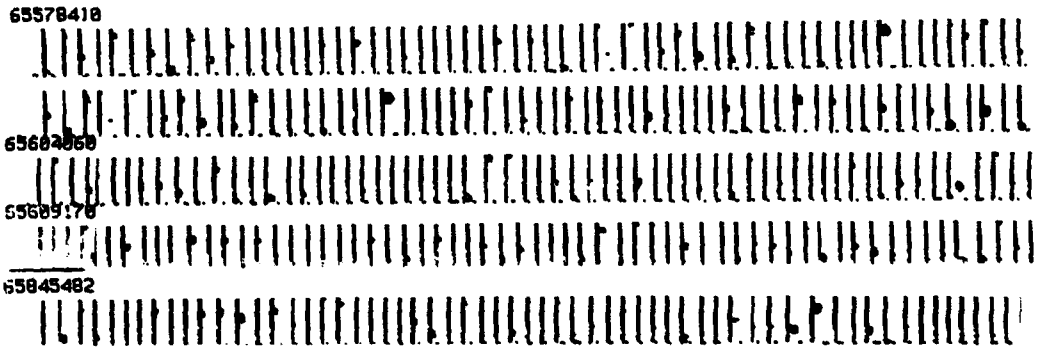


Figure 5. Representative "2-D" Shadowgraph Data Taken in Icing Nozzle Spray



Figure 6. Photograph of Aircraft Orientation As They Position to Sample. MC-130E moves just below spray

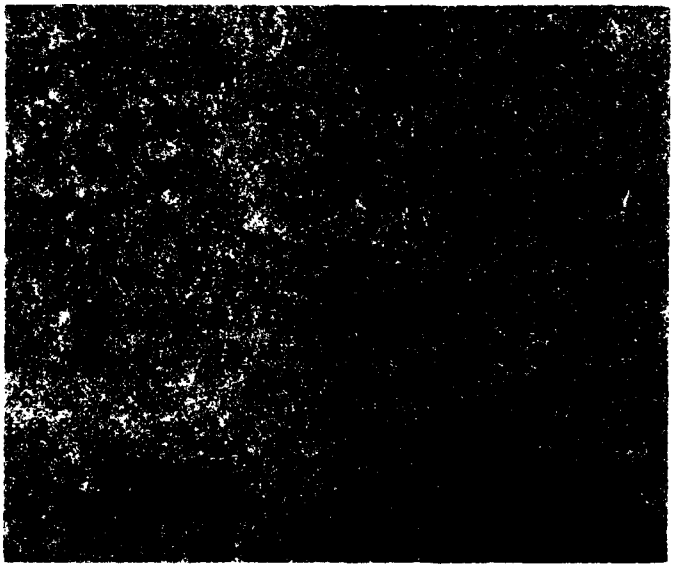


Figure 7. Spectrometer Probe on C-130 Right Wing Acquiring Plume Particle Data. The spraying boom is at full down and right deflection, while the C-130 is in a nose up, right wing low, crabbed orientation to compensate for turbulence from the KC-135

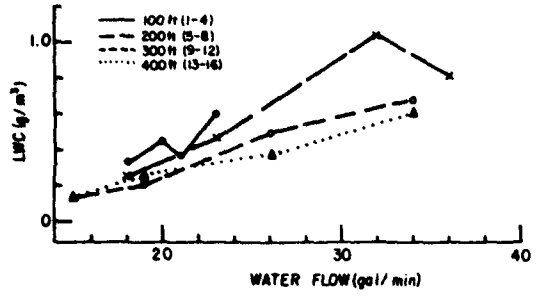


Figure 8. Liquid Water Content (g/m^3) vs Nozzle Water Flow Rate (gpm), Data Points 1-16

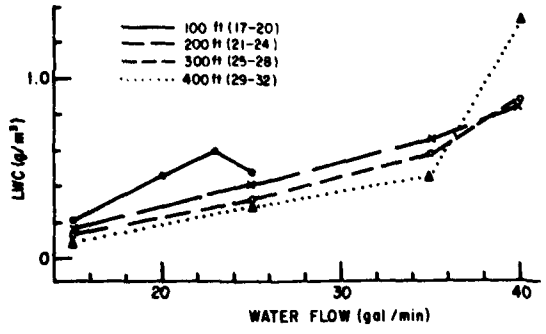


Figure 9. Liquid Water Content (g/m^3) vs Nozzle Water Flow Rate (gpm), Data Points 17-32

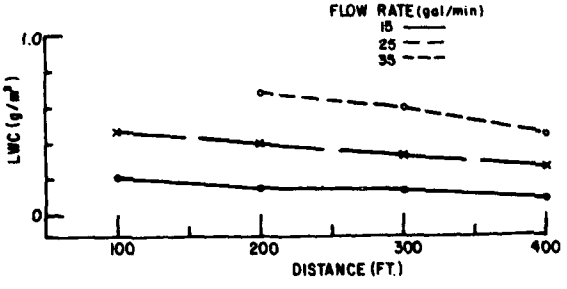


Figure 10. Liquid Water Content (g/m^3) vs Distance From Nozzle in Feet

Figure 10 depicts the curves described by varying distance with constant flow rates. Again, a well defined family of curves with quite similar slopes emerges. The spread of the spray plume within the distance limits of the experiment is apparently uniform. Single values for samples with multiple sections (for example, 1-A and 1-B, and so on) were obtained by calculating a sample duration weighted average of values for those data points.

5. CONCLUSIONS

Test data for samples, where more than one attempt at a data point was made, show good agreement in average liquid water content. One-sec data show a range of water content values within each pass. The deviation of these "instantaneous" liquid water content values does remain small when compared to the longer period sample averages.

No definitive determination could be made concerning the freezing of the spray droplets at the colder sampling temperature. It is known, however, that many droplets viewed in the PMS 2-D sample data retained a round form that is characteristic of water drops.

Sample average data indicate definable linear relationships between the variables of the icing nozzle water flow rate, distance from the nozzle, and the measured liquid water content of the spray plume.

Appendix A

Sample Average Data

PMS 1-D data are presented as sample averages for background and all sample periods. Presentation is graphic with tabular data included on the same page. Format is indicated in Figures A1 and A2.

PRECEDING PAGE BLANK - NOT FILMED

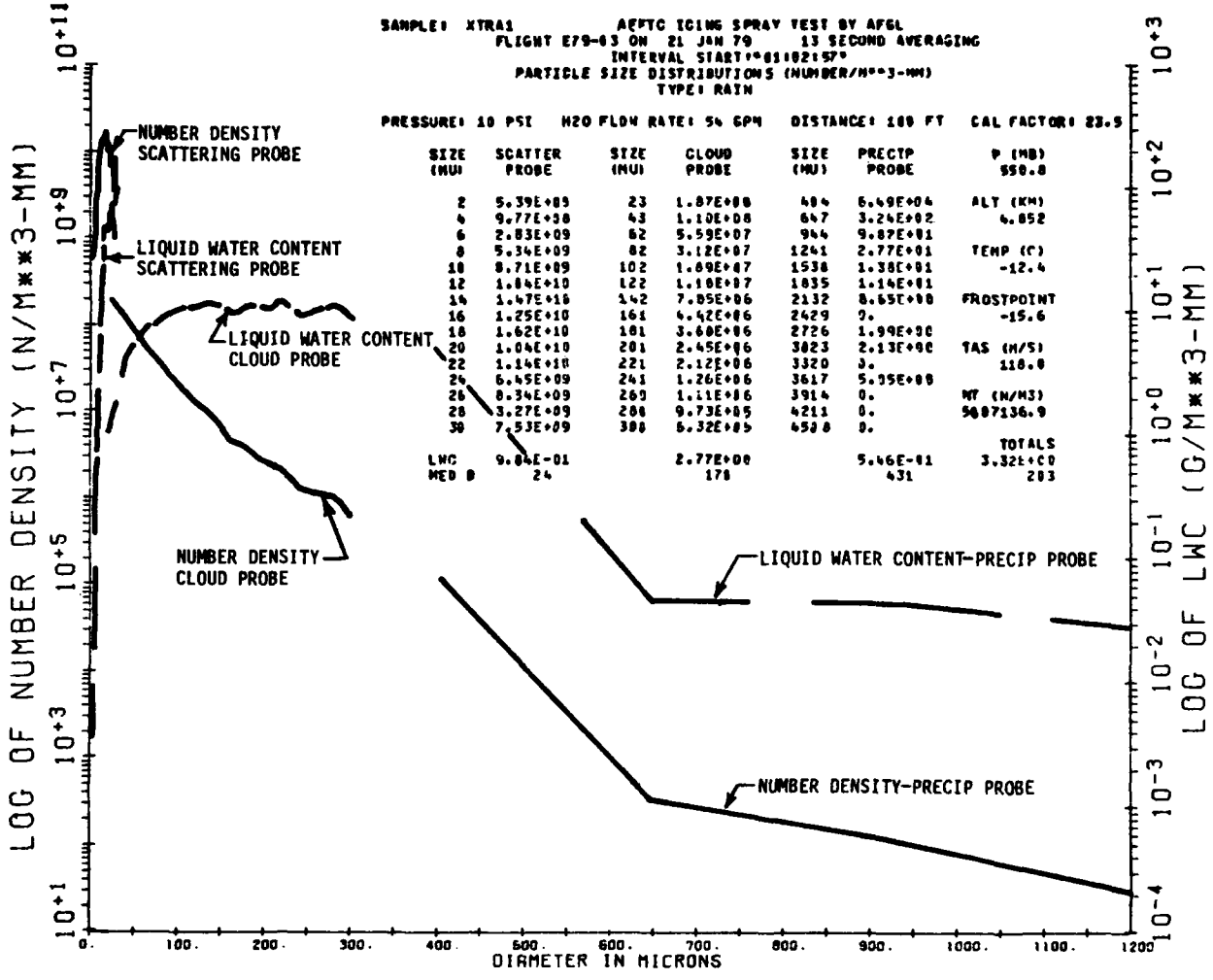
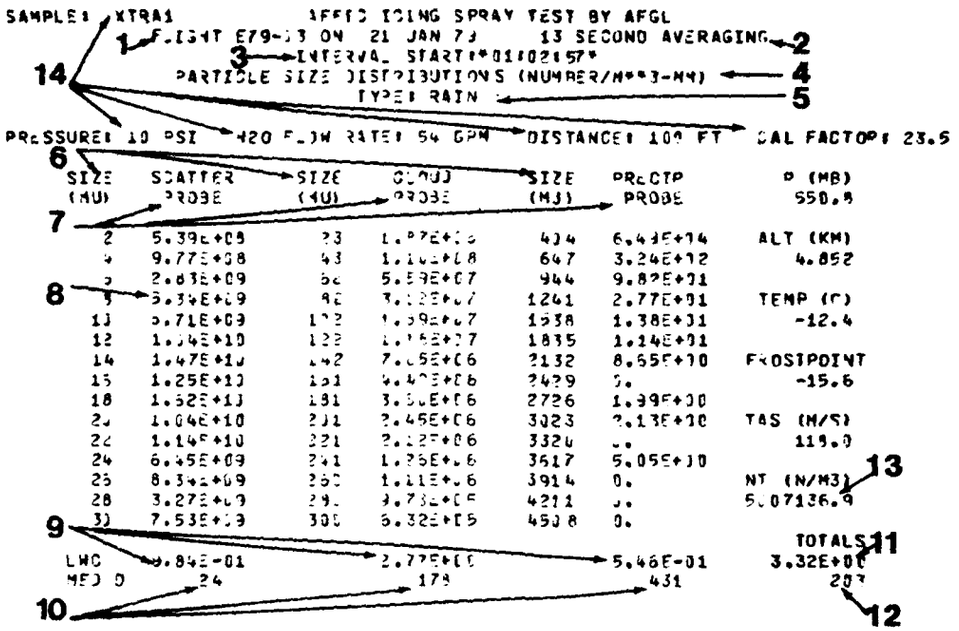


Figure A1. Graphic Format, Liquid Water Content, Number Density vs Particle Diameter



1. Flight number and data of flight.
2. Length of sample over which particle concentrations are determined.
3. Time sampling began; completed 13 sec later.
4. Concentrations are in number of particles per cubic meter per millimeter bar width. See text for discussion of bar width.
5. Particle type is determined after other data are examined. In this case rain. Possibilities include rain, plates, small snow, columns, needles, aggregates, rimed dendrites, and bullet rosettes.
6. Mean maximum size of particles in micrometers.
7. "Scattering", "Cloud", and "Precipitation" probes are used in determining concentrations of particles in the size ranges 2-30 microns, 20-300 microns, and 300-4500 microns, respectively.
8. Typical concentration: 5.34×10^9 particles per cubic meter, per millimeter bandwidth. Bar width is 2 microns. See text for definition of bar width.
9. Total liquid water content in grams per cubic meter for each of the three probes. Scatter probe particles are assumed spherical with density = 1.
10. Equivalent melted diameter (in μm) of a particle having a mass at the median value of each probe's Liquid Water Content (LWC).
11. Sum of cloud and precipitation probe's LWC, grams per cubic meter.
12. Equivalent melted diameter (in μm) of a particle having a mass at the median of the combined cloud and precipitation probe's total LWC value.
13. Total number of particles calculated per cubic meter for cloud and precipitation probe.
14. Sample number and specified FTC parameters.

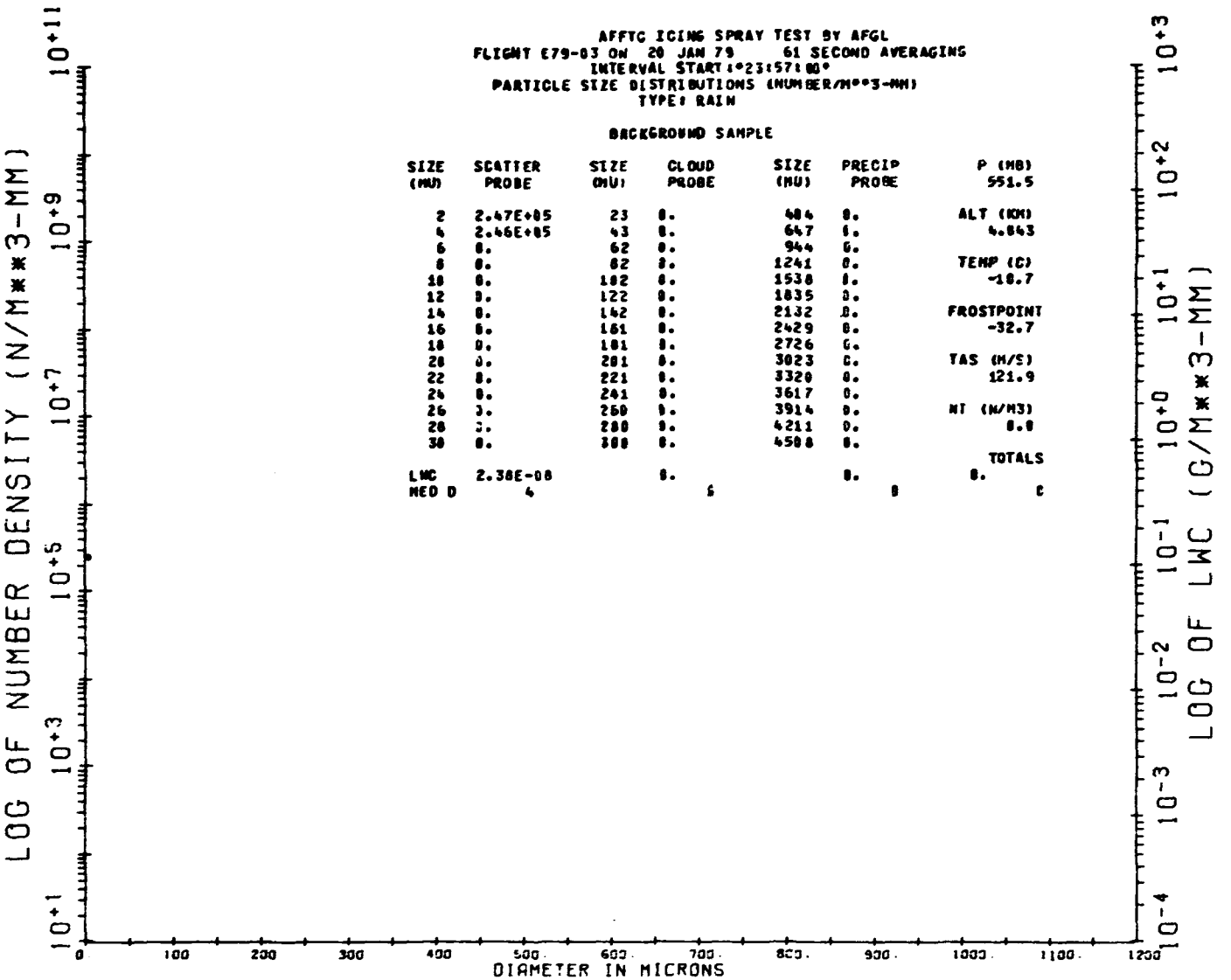
Figure A2. Tabular Data Format

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 20 JAN 79 61 SECOND AVERAGING
INTERVAL START: 23:57:00
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	2.47E+05	23	0.	484	0.
4	2.46E+05	43	0.	647	0.
6	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	2.38E-08		0.		0.
MED D	4		5		8

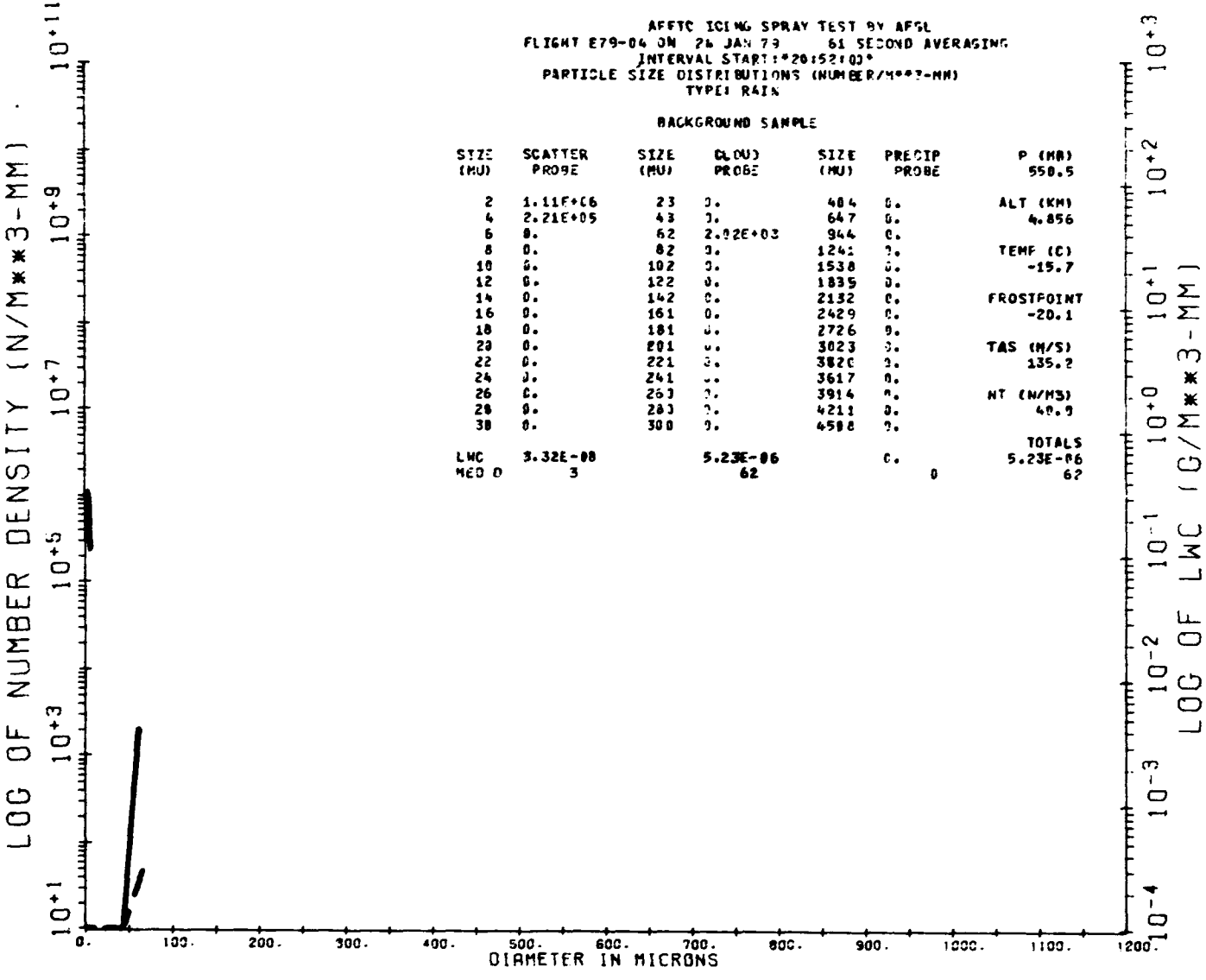
P (MB)	551.5
ALT (KM)	4.843
TEMP (C)	-18.7
FROSTPOINT	-32.7
TAS (M/S)	121.9
NT (N/M3)	8.8
TOTALS	
	8.
	C



AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 61 SECOND AVERAGING
INTERVAL START: *20:52:00*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

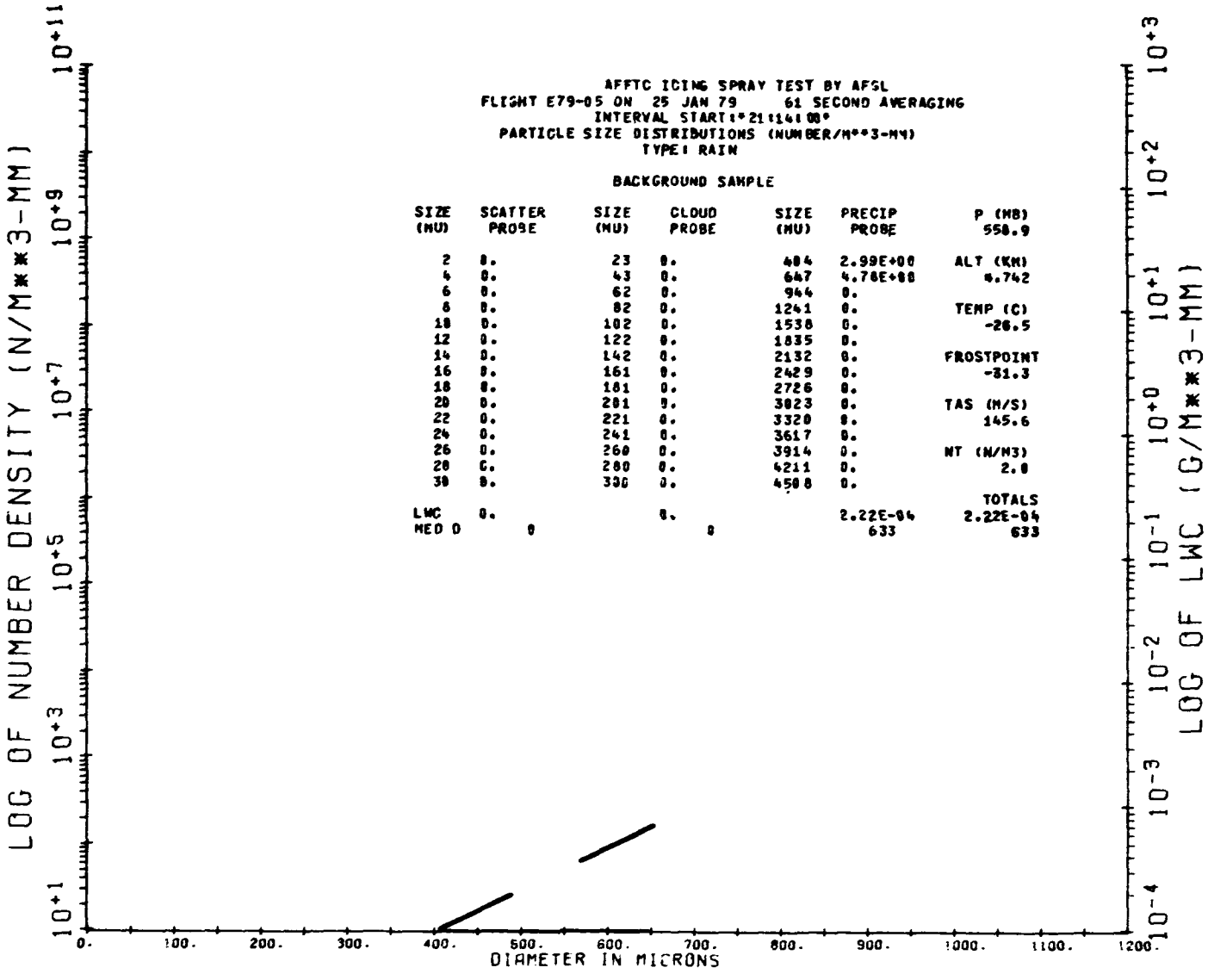
SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.11E+06	23	0.	484	0.	ALT (KM)
4	2.21E+05	43	0.	647	0.	4.856
6	0.	62	2.92E+03	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.2
24	0.	241	0.	3617	0.	
26	0.	263	0.	3914	0.	NT (N/M3)
28	0.	283	0.	4211	0.	40.9
30	0.	300	0.	4508	0.	
						TOTALS
LWC	3.32E-08		5.23E-06		0.	5.23E-06
MED D	3		62		0	62

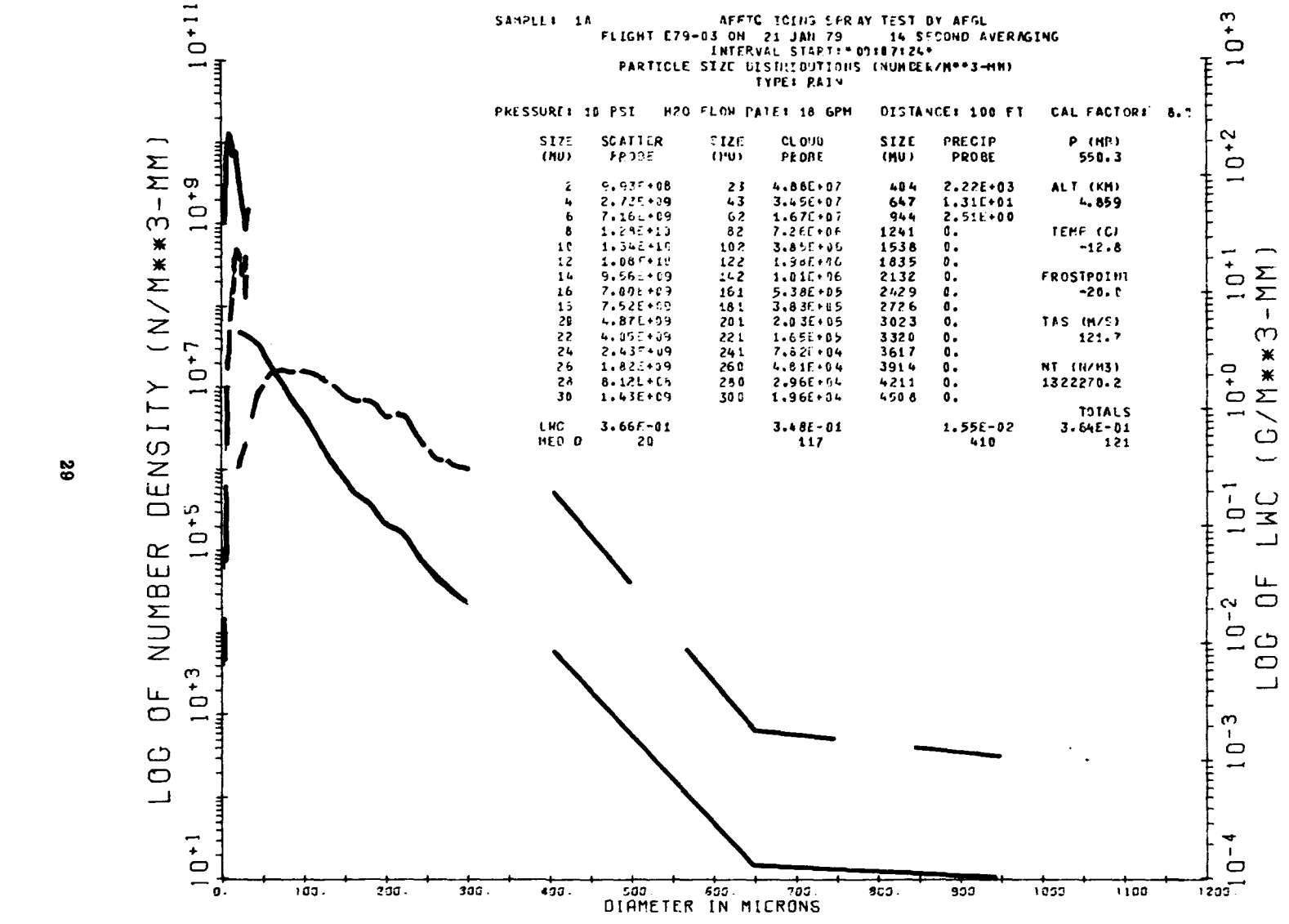


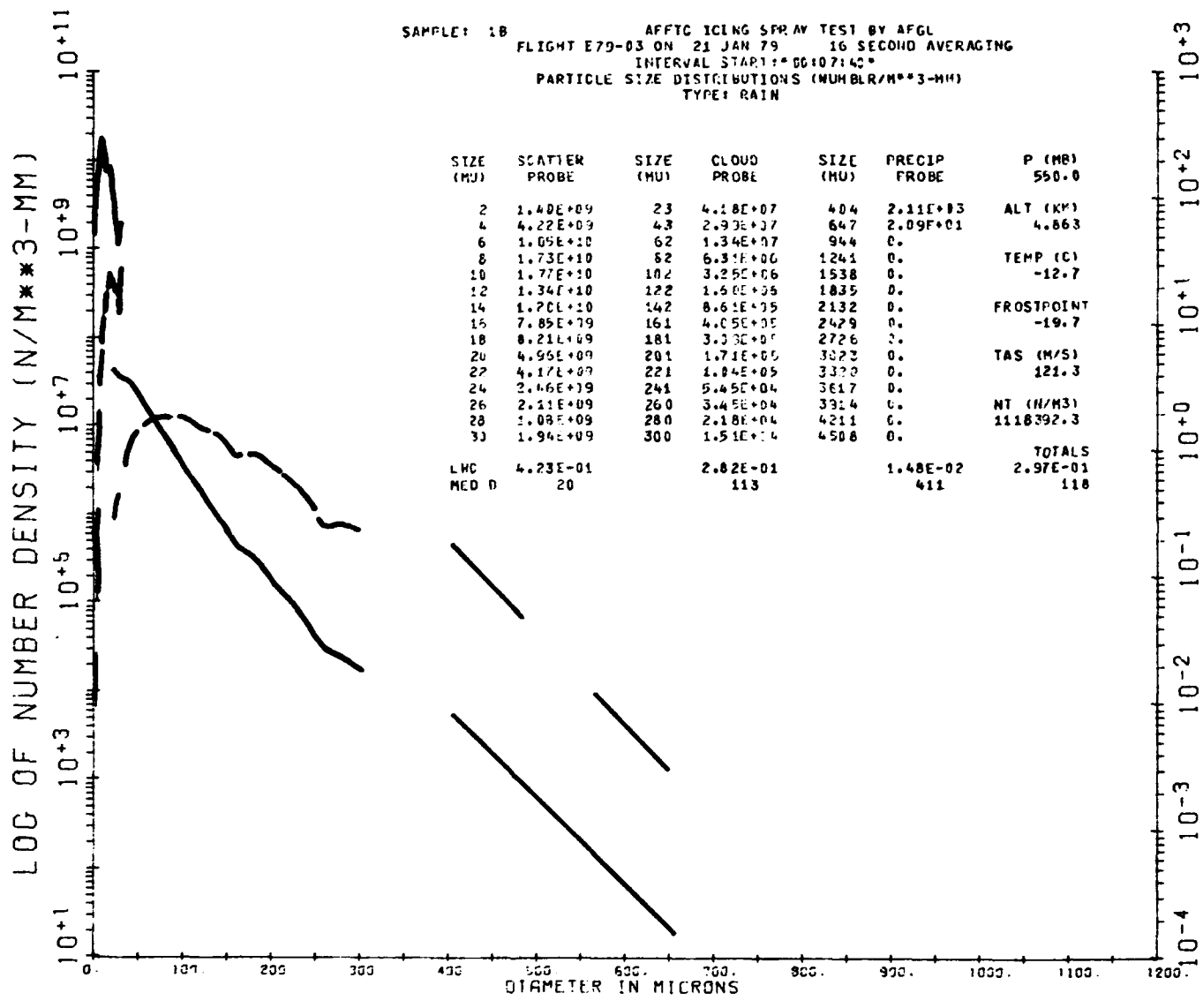
AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-05 ON 25 JAN 79 61 SECOND AVERAGING
INTERVAL START: *21:14:08*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB)
						558.9
2	0.	23	0.	484	2.99E+00	ALT (KM)
4	0.	43	0.	647	4.78E+00	6.742
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.5
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	2.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		2.22E-04	2.22E-04
MED D	0		0		633	633




SAMPLE: 1A
AFETC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 14 SECOND AVERAGING
INTERVAL START: *00:07:24*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.7
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.3
2 9.93E+08 23 4.88E+07 404 2.22E+03 ALT (KM)
4 2.72E+09 43 3.45E+07 647 1.31E+01 4.859
6 7.16E+09 62 1.67E+07 944 2.51E+00
8 1.29E+10 82 7.26E+06 1241 0. TEMP (C)
10 1.34E+10 102 3.85E+06 1538 0. -12.8
12 1.08E+10 122 1.98E+06 1835 0.
14 9.56E+09 142 1.01E+06 2132 0. FROSTPOINT
16 7.80E+09 161 5.38E+05 2429 0. -20.0
18 7.52E+09 181 3.83E+05 2726 0.
20 4.87E+09 201 2.03E+05 3023 0. TAS (M/S)
22 4.05E+09 221 1.65E+05 3320 0. 121.7
24 2.43E+09 241 7.62E+04 3617 0.
26 1.82E+09 260 4.81E+04 3914 0. NT (N/M3)
28 8.12E+08 280 2.96E+04 4211 0. 1322270.2
30 1.43E+09 300 1.96E+04 4508 0.
TOTALS
LWC 3.66E-01 3.48E-01 1.55E-02 3.64E-01
MED D 20 117 410 121
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

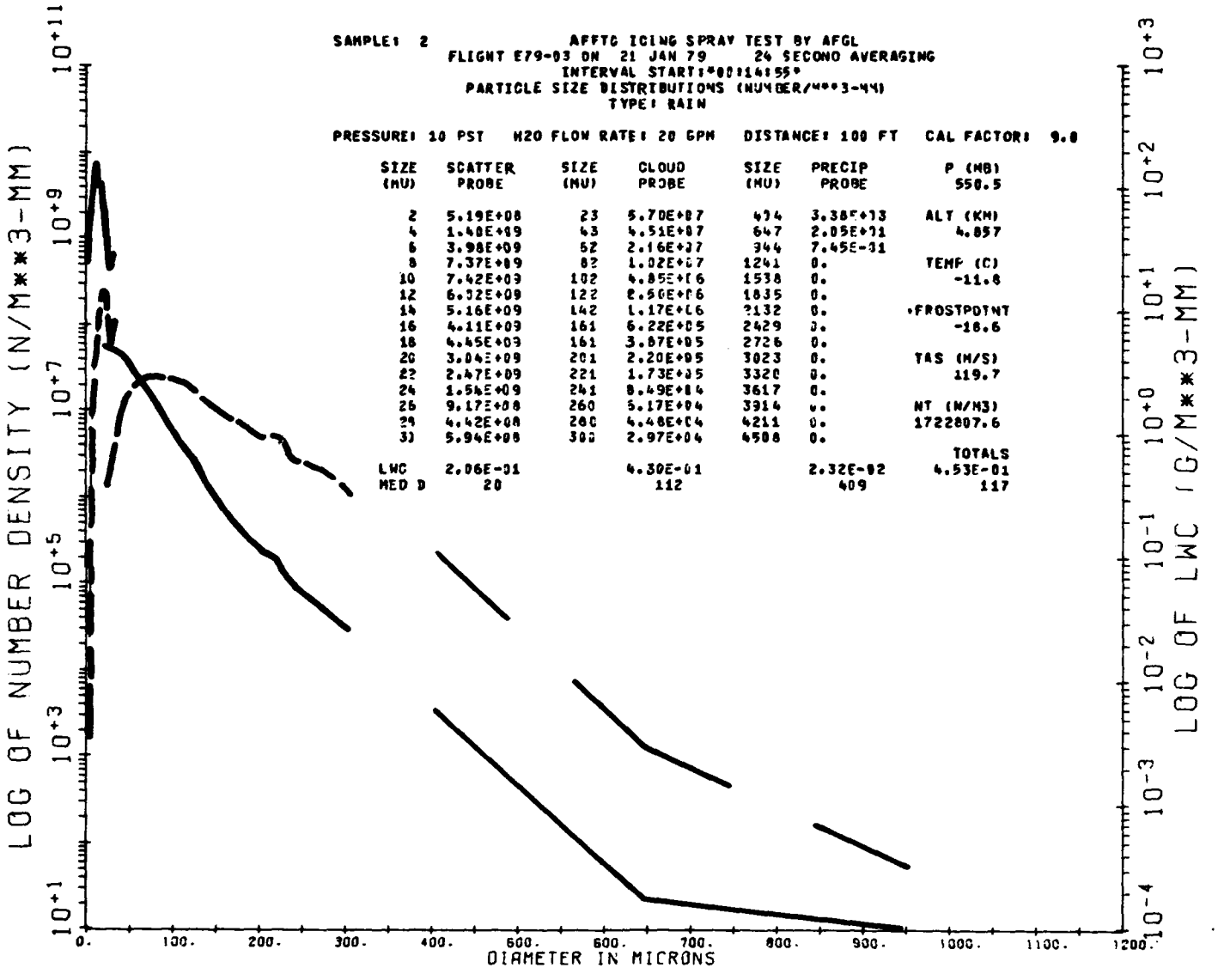

SAMPLE: 18
ARCTIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 16 SECOND AVERAGING
INTERVAL START: 00:07:40
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.0
2 1.40E+09 23 4.18E+07 404 2.11E+03 ALT (KM)
4 4.22E+09 43 2.93E+07 647 2.09E+01 4.863
6 1.05E+10 62 1.34E+07 944 0.
8 1.73E+10 82 6.31E+06 1241 0. TEMP (C)
10 1.77E+10 102 3.25E+06 1538 0. -12.7
12 1.34E+10 122 1.60E+06 1835 0.
14 1.20E+10 142 8.61E+05 2132 0. FROSTPOINT
16 7.85E+09 161 4.05E+05 2429 0. -19.7
18 8.21E+09 181 3.03E+05 2726 0.
20 4.96E+09 201 1.71E+05 3023 0. TAS (M/S)
22 4.17E+09 221 1.04E+05 3320 0. 121.3
24 2.46E+09 241 5.45E+04 3617 0.
26 2.11E+09 260 3.45E+04 3914 0. NT (N/M3)
28 1.08E+09 280 2.18E+04 4211 0. 1118392.3
30 1.94E+09 300 1.51E+04 4508 0.
TOTALS
LWC 4.23E-01 2.82E-01 1.48E-02 2.97E-01
MED D 20 113 411 118
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.
10+11 10+9 10+7 10+5 10+3 10+1
10+3 10+2 10+1 10+0 10-1 10-2 10-3 10-4

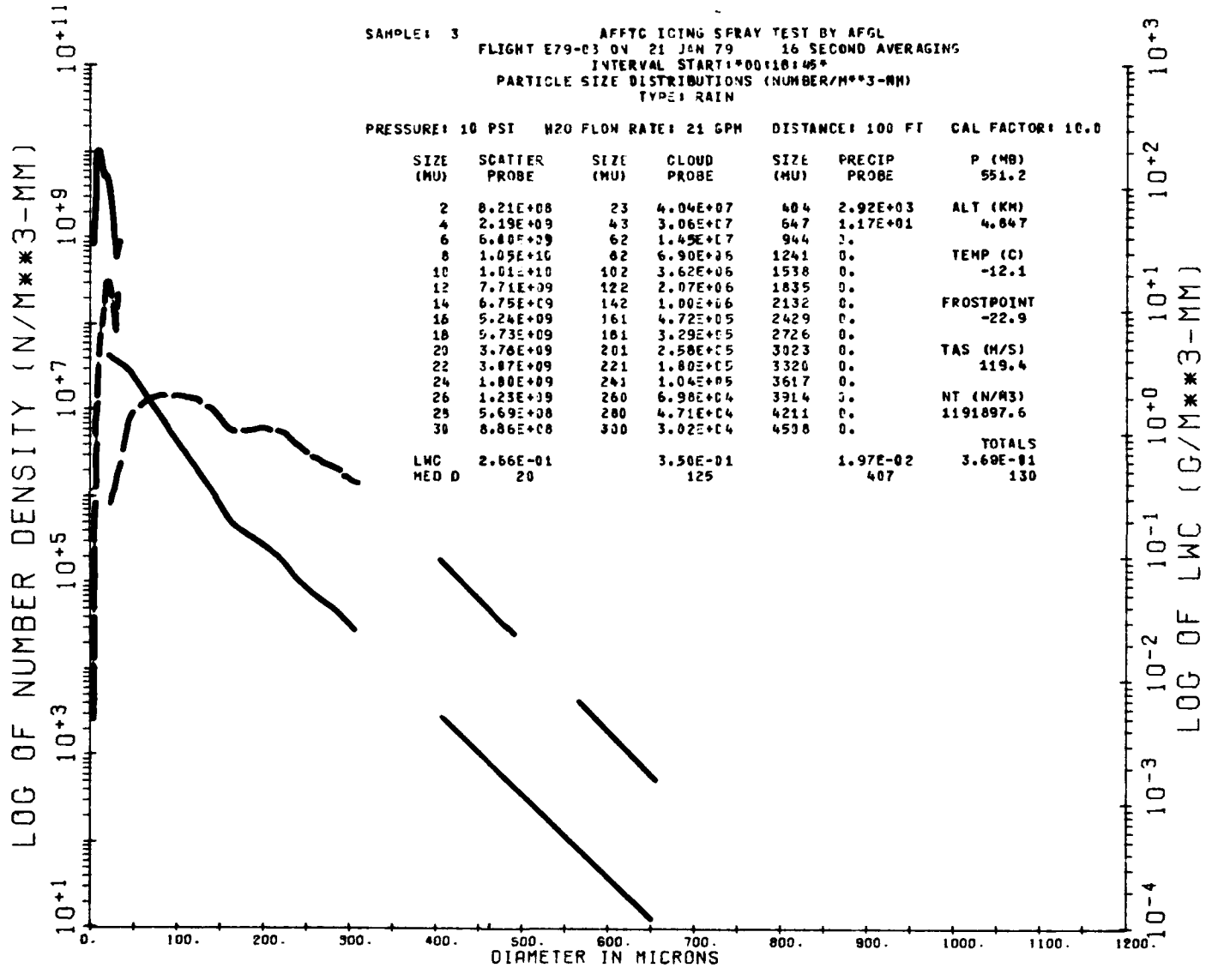
SAMPLE: 2

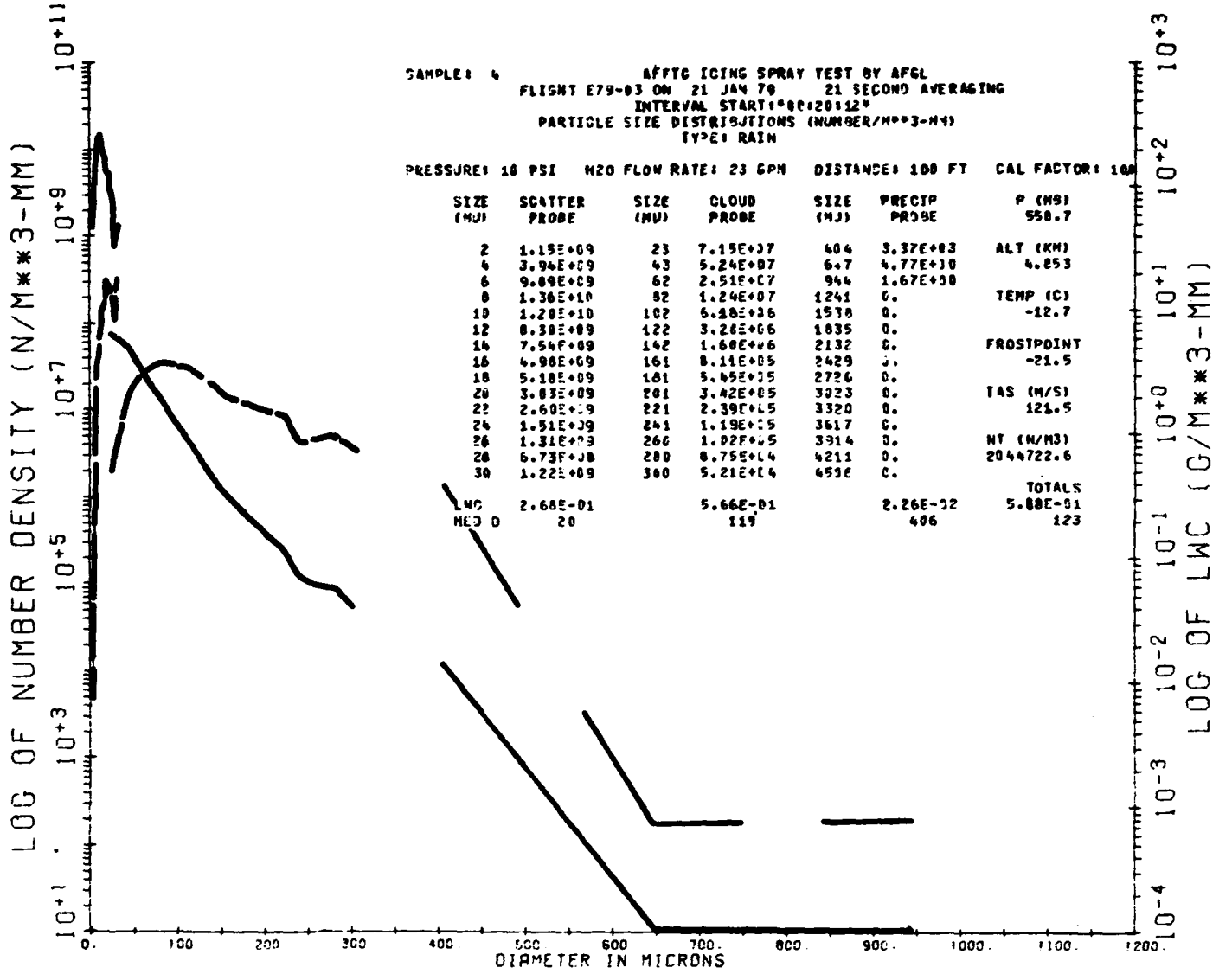
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 24 SECOND AVERAGING
INTERVAL START: 00:14:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

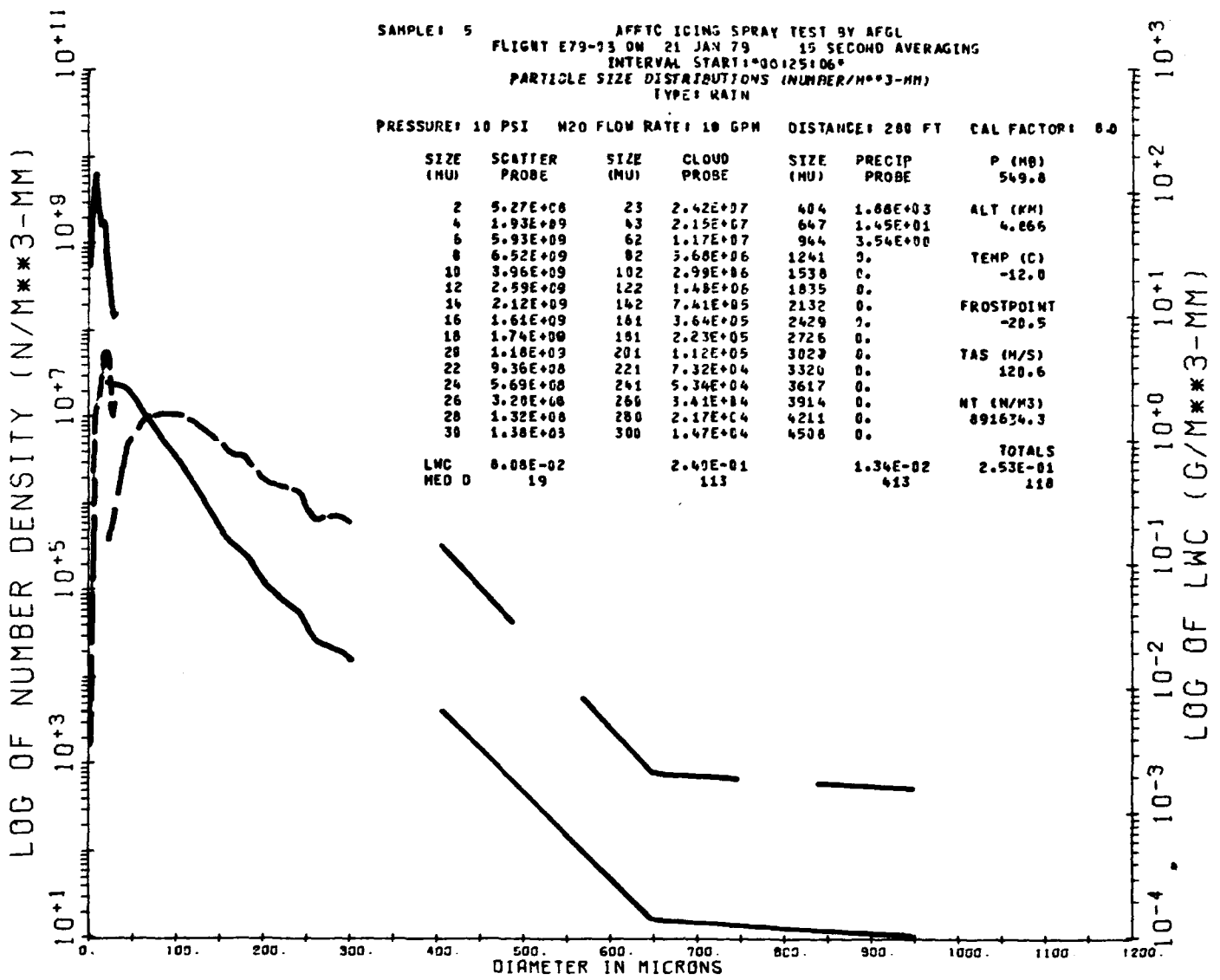
PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

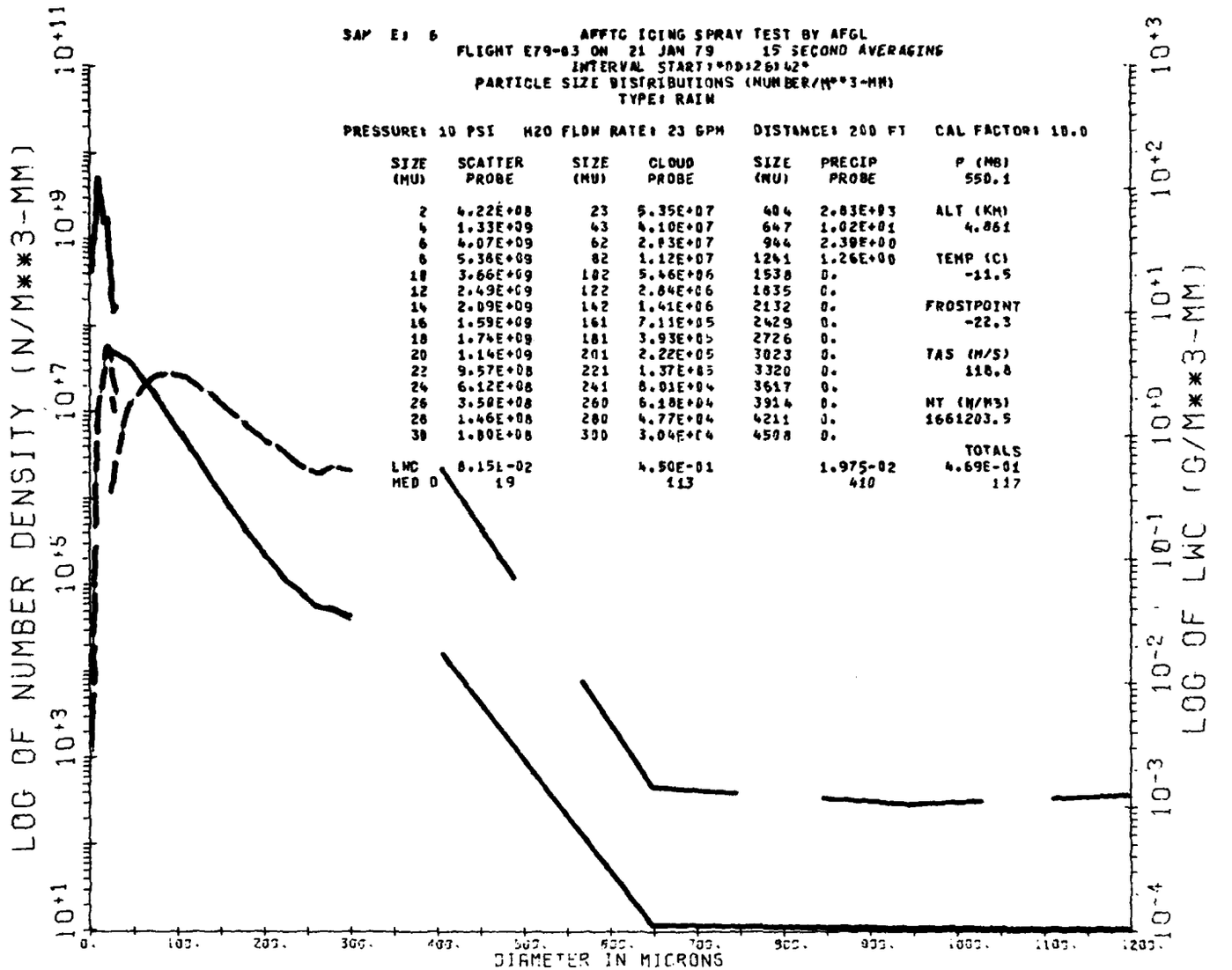
SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	5.19E+08	23	5.70E+07	434	3.38E+13	ALT (KM)
4	1.48E+09	43	4.51E+07	647	2.05E+11	4.857
6	3.98E+09	62	2.16E+07	944	7.45E-31	
8	7.37E+09	82	1.02E+07	1241	0.	TEMP (C)
10	7.42E+09	102	4.85E+06	1538	0.	-11.6
12	6.52E+09	122	2.50E+06	1835	0.	
14	5.16E+09	142	1.17E+06	2132	0.	*FROSTPOINT
16	4.11E+09	161	6.22E+05	2429	0.	-18.6
18	4.45E+09	181	3.87E+05	2726	0.	
20	3.04E+09	201	2.20E+05	3023	0.	TAS (M/S)
22	2.47E+09	221	1.73E+05	3320	0.	119.7
24	1.54E+09	241	8.49E+04	3617	0.	
26	9.17E+08	260	5.17E+04	3914	0.	NT (N/M3)
28	4.42E+08	280	4.48E+04	4211	0.	1722807.6
30	5.94E+08	300	2.97E+04	4508	0.	
						TOTALS
LWC	2.06E-01		4.30E-01		2.32E-02	4.53E-01
MED D	20		112		409	117

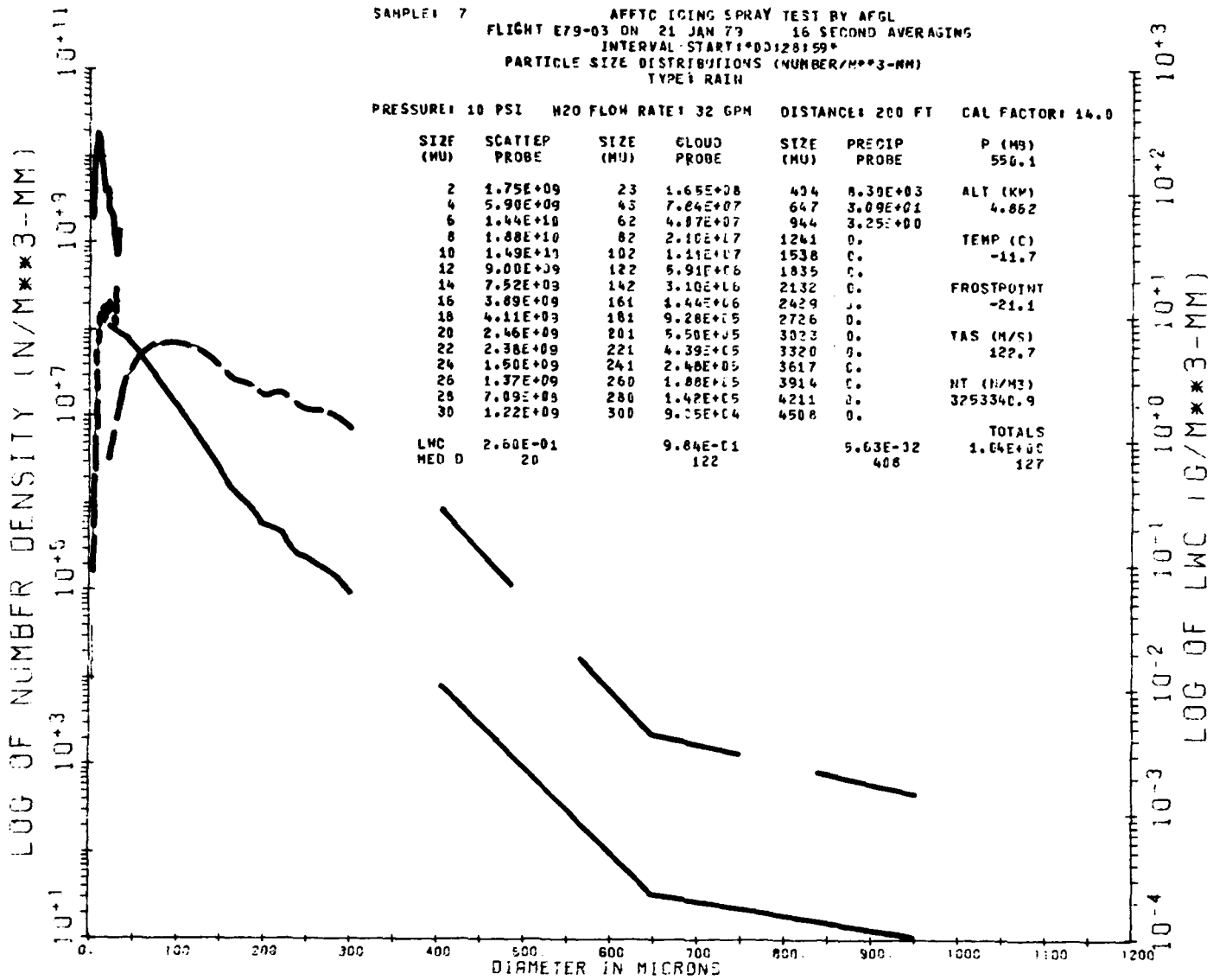


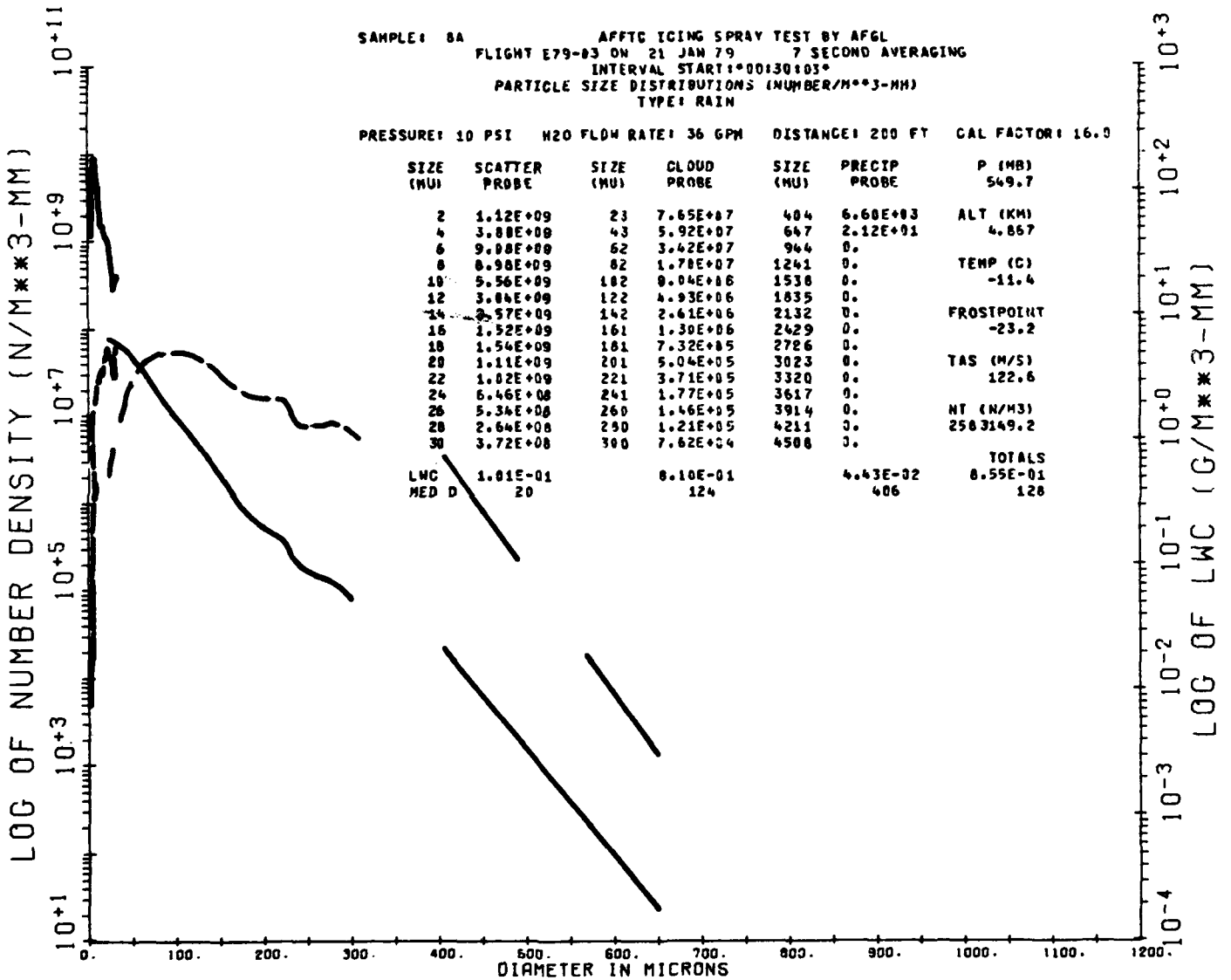

SAMPLE: 3
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 16 SECOND AVERAGING
INTERVAL START: *00:18:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 551.2
2 8.21E+08 23 4.04E+07 404 2.92E+03 ALT (KM)
4 2.19E+09 43 3.06E+07 647 1.17E+01 4.647
6 6.80E+09 62 1.45E+07 944 0. TEMP (C)
8 1.05E+10 82 6.90E+06 1241 0. -12.1
10 1.01E+10 102 3.62E+06 1538 0.
12 7.71E+09 122 2.07E+06 1835 0. FROSTPOINT
14 6.75E+09 142 1.00E+06 2132 0. -22.9
16 5.24E+09 161 4.72E+05 2429 0.
18 5.73E+09 181 3.29E+05 2726 0. TAS (M/S)
20 3.78E+09 201 2.58E+05 3023 0. 119.4
22 3.87E+09 221 1.80E+05 3320 0.
24 1.80E+09 241 1.04E+05 3617 0. NT (N/M3)
26 1.23E+09 260 6.98E+04 3914 0. 1191897.6
28 5.69E+08 280 4.71E+04 4211 0.
30 8.86E+08 300 3.02E+04 4508 0. TOTALS
LWC 2.66E-01 3.50E-01 1.97E-02 3.69E-01
MED D 20 125 407 130
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

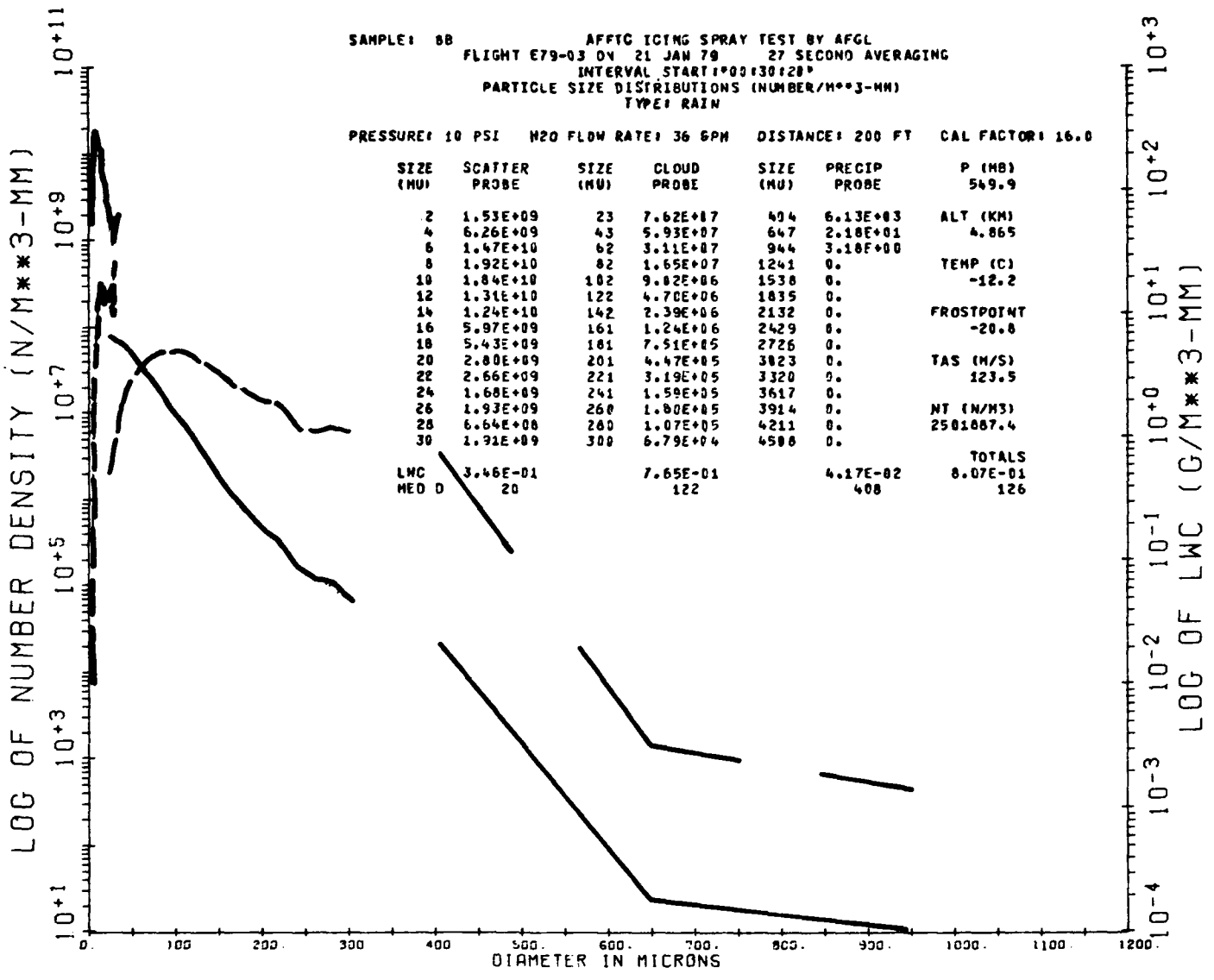

SAMPLE: 4
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 21 SECOND AVERAGING
INTERVAL START: 00:20:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 100
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 1.15E+09 23 7.15E+07 404 3.37E+03
4 3.94E+09 43 5.24E+07 674 4.77E+10
6 9.09E+09 62 2.51E+07 944 1.67E+00
8 1.36E+10 82 1.24E+07 1241 0.
10 1.20E+10 102 6.48E+06 1538 0.
12 8.38E+09 122 3.28E+06 1835 0.
14 7.54E+09 142 1.60E+06 2132 0.
16 4.98E+09 161 8.11E+05 2429 0.
18 5.18E+09 181 5.45E+05 2726 0.
20 3.83E+09 201 3.42E+05 3023 0.
22 2.60E+09 221 2.39E+05 3320 0.
24 1.51E+09 241 1.19E+05 3617 0.
26 1.31E+09 260 1.02E+05 3914 0.
28 6.73E+08 280 8.75E+04 4211 0.
30 1.22E+09 300 5.21E+04 4508 0.
LWC 2.68E-01 5.66E-01 2.26E-02
MED D 20 119 406
P (MB) 550.7
ALT (KM) 4.853
TEMP (C) -12.7
FROSTPOINT -21.5
TAS (M/S) 124.5
NT (N/M3) 2044722.6
TOTALS 5.88E-01 123
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100 200 300 400 500 600 700 800 900 1000 1100 1200

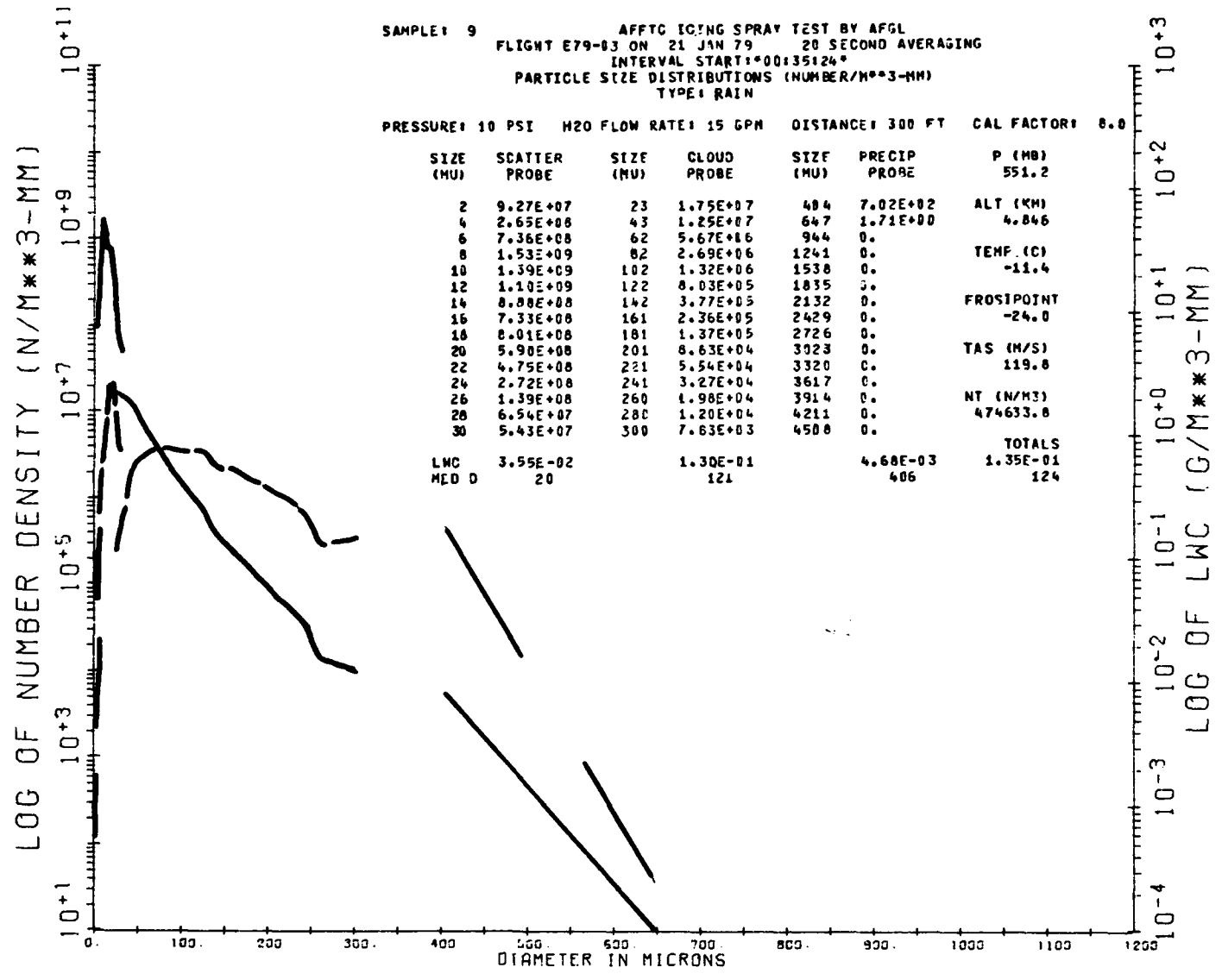

SAMPLE: 5
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 21 JAN 79 15 SECOND AVERAGING
INTERVAL START: 00:25:06
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 280 FT CAL FACTOR: 8.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 549.8
2 5.27E+08 23 2.42E+07 404 1.68E+03 ALT (KM) 4.866
4 1.93E+09 43 2.15E+07 647 1.45E+01
6 5.93E+09 62 1.17E+07 944 3.54E+00
8 6.52E+09 82 3.68E+06 1241 0. TEMP (C) -12.0
10 3.96E+09 102 2.99E+06 1538 0.
12 2.59E+09 122 1.48E+06 1835 0.
14 2.12E+09 142 7.41E+05 2132 0. FROSTPOINT -20.5
16 1.61E+09 161 3.64E+05 2429 0.
18 1.74E+08 181 2.23E+05 2726 0.
20 1.18E+09 201 1.12E+05 3023 0. TAS (M/S) 120.6
22 9.36E+08 221 7.32E+04 3320 0.
24 5.69E+08 241 5.34E+04 3617 0.
26 3.20E+08 260 3.41E+04 3914 0. NT (N/M3) 891634.3
28 1.32E+08 280 2.17E+04 4211 0.
30 1.38E+03 300 1.47E+04 4508 0. TOTALS
LWC 8.08E-02 2.40E-01 1.34E-02 2.53E-01
MED D 19 113 413 118
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

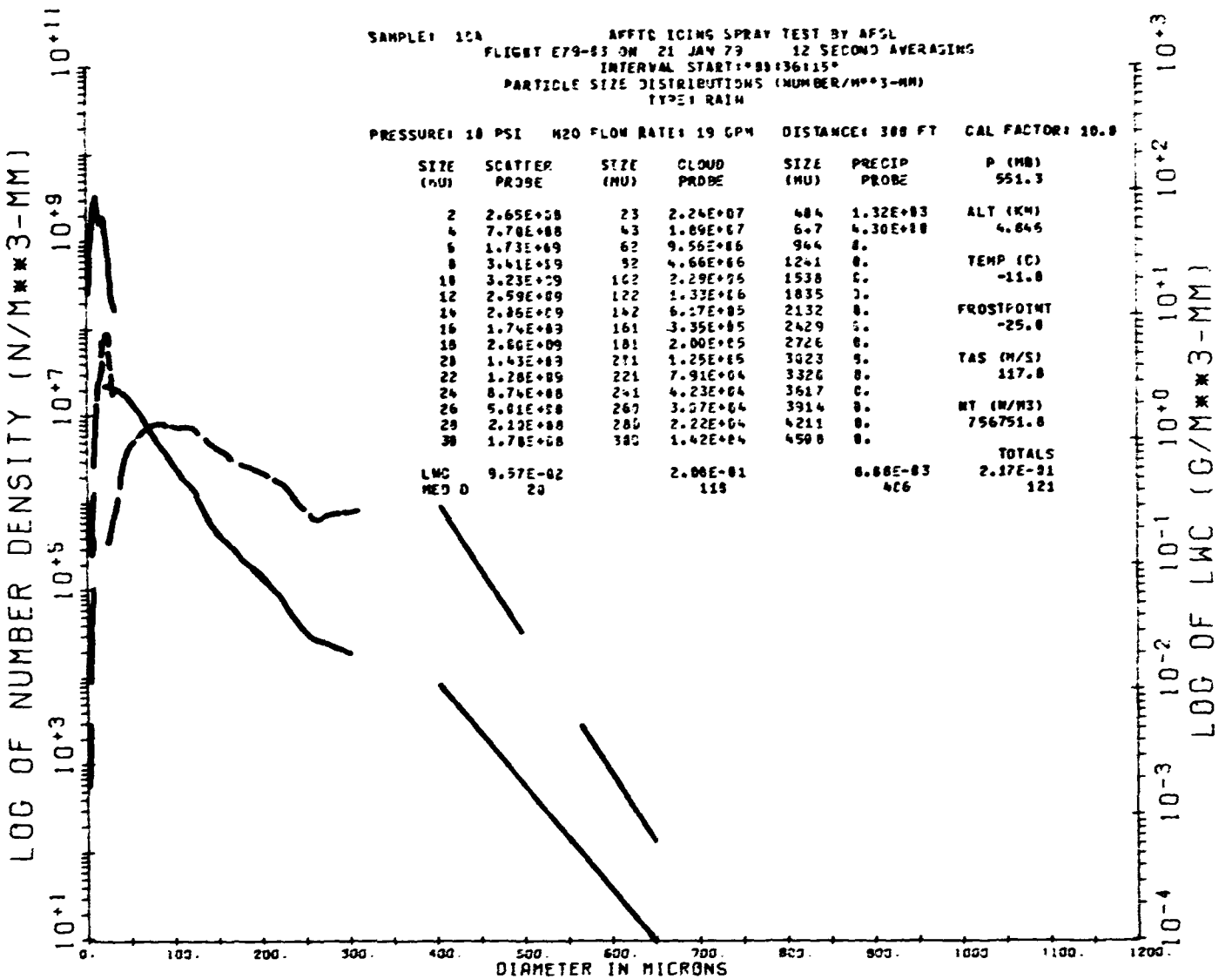

SAMPLE 6
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 15 SECOND AVERAGING
INTERVAL START: *09:26:42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE
2 4.22E+08
4 1.33E+09
6 4.07E+09
8 5.38E+09
10 3.66E+09
12 2.49E+09
14 2.09E+09
16 1.59E+09
18 1.74E+09
20 1.14E+09
22 9.57E+08
24 6.12E+08
26 3.50E+08
28 1.46E+08
30 1.80E+08
LWC 8.15E-02
MED D 19
SIZE (MU) CLOUD PROBE
23 5.35E+07
43 4.10E+07
62 2.83E+07
82 1.12E+07
102 5.46E+06
122 2.84E+06
142 1.41E+06
161 7.11E+05
181 3.93E+05
201 2.22E+05
221 1.37E+05
241 8.01E+04
260 6.18E+04
280 4.77E+04
300 3.04E+04
4.50E-01
113
SIZE (MU) PRECIP PROBE
404 2.83E+03
647 1.02E+01
944 2.39E+00
1241 1.26E+00
1538 0.
1835 0.
2132 0.
2429 0.
2726 0.
3023 0.
3320 0.
3617 0.
3914 0.
4211 0.
4508 0.
1.97E-02
410
P (MB) 550.1
ALT (KM) 4.861
TEMP (C) -11.5
FROSTPOINT -22.3
TAS (M/S) 118.8
NT (N/M3) 1661203.5
TOTALS
4.69E-01
117
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0.
100.
200.
300.
400.
500.
600.
700.
800.
900.
1000.
1100.
1200.

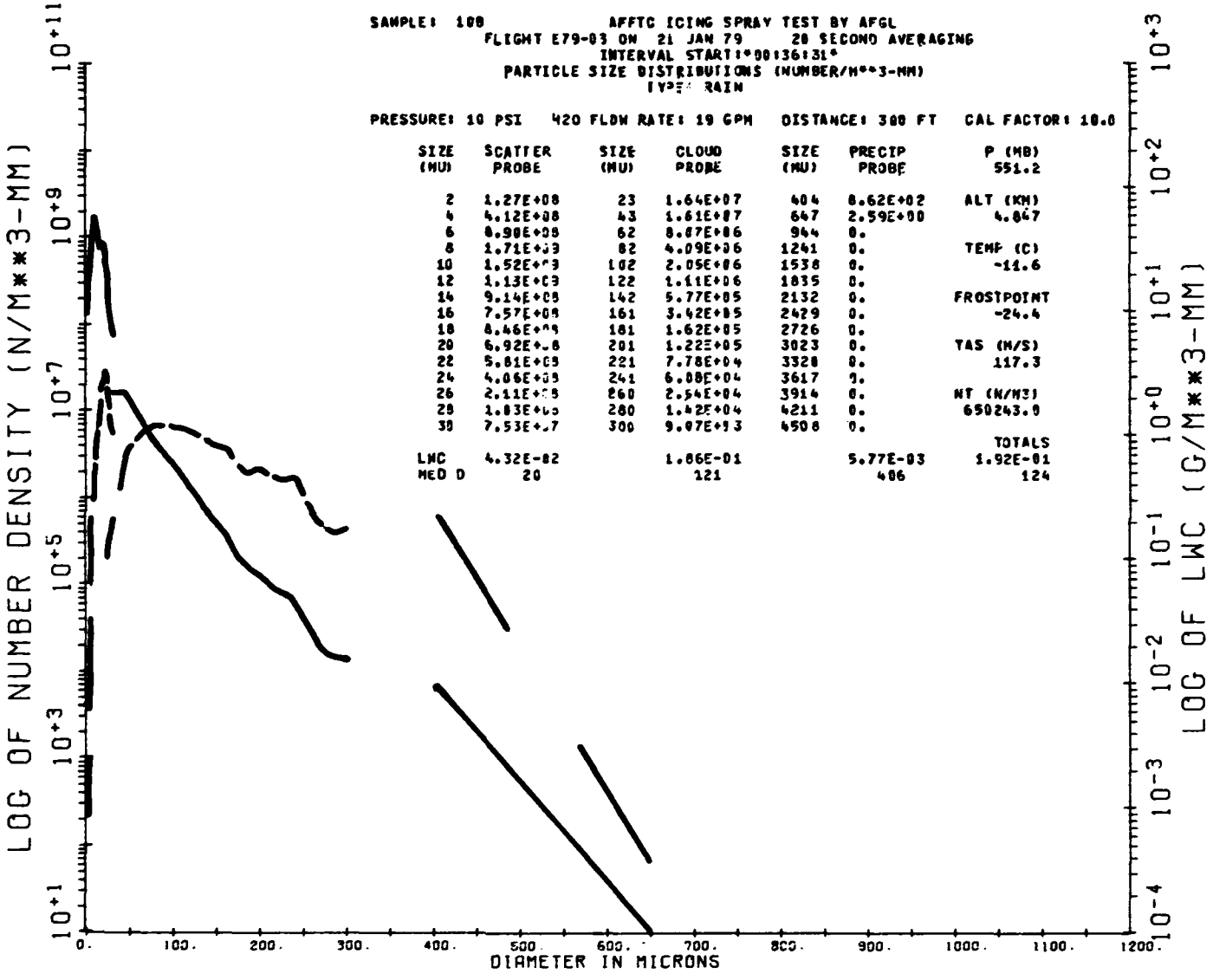

SAMPLE: 7
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 16 SECOND AVERAGING
INTERVAL START: *03:28:59*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 32 GPM DISTANCE: 200 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 1.75E+09 23 1.65E+08 404 8.30E+03
4 5.90E+09 43 7.84E+07 647 3.09E+01
6 1.44E+10 62 4.87E+07 944 3.25E+00
8 1.88E+10 82 2.10E+07 1241 0.
10 1.49E+10 102 1.11E+07 1538 0.
12 9.00E+09 122 5.91E+06 1835 0.
14 7.52E+09 142 3.10E+06 2132 0.
16 3.89E+09 161 1.44E+06 2429 0.
18 4.11E+09 181 9.28E+05 2726 0.
20 2.46E+09 201 5.50E+05 3023 0.
22 2.38E+09 221 4.39E+05 3320 0.
24 1.50E+09 241 2.48E+05 3617 0.
26 1.37E+09 260 1.88E+05 3914 0.
28 7.09E+08 280 1.42E+05 4211 0.
30 1.22E+09 300 9.05E+04 4508 0.
LWC 2.60E-01 9.84E-01 5.63E-02
MED D 20 122 408
P (MB) 550.1
ALT (KM) 4.862
TEMP (C) -11.7
FROSTPOINT -21.1
TAS (M/S) 122.7
NT (N/M3) 3253340.9
TOTALS 1.04E+00
127
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0.
100
200
300
400
500
600
700
800
900
1000
1100
1200

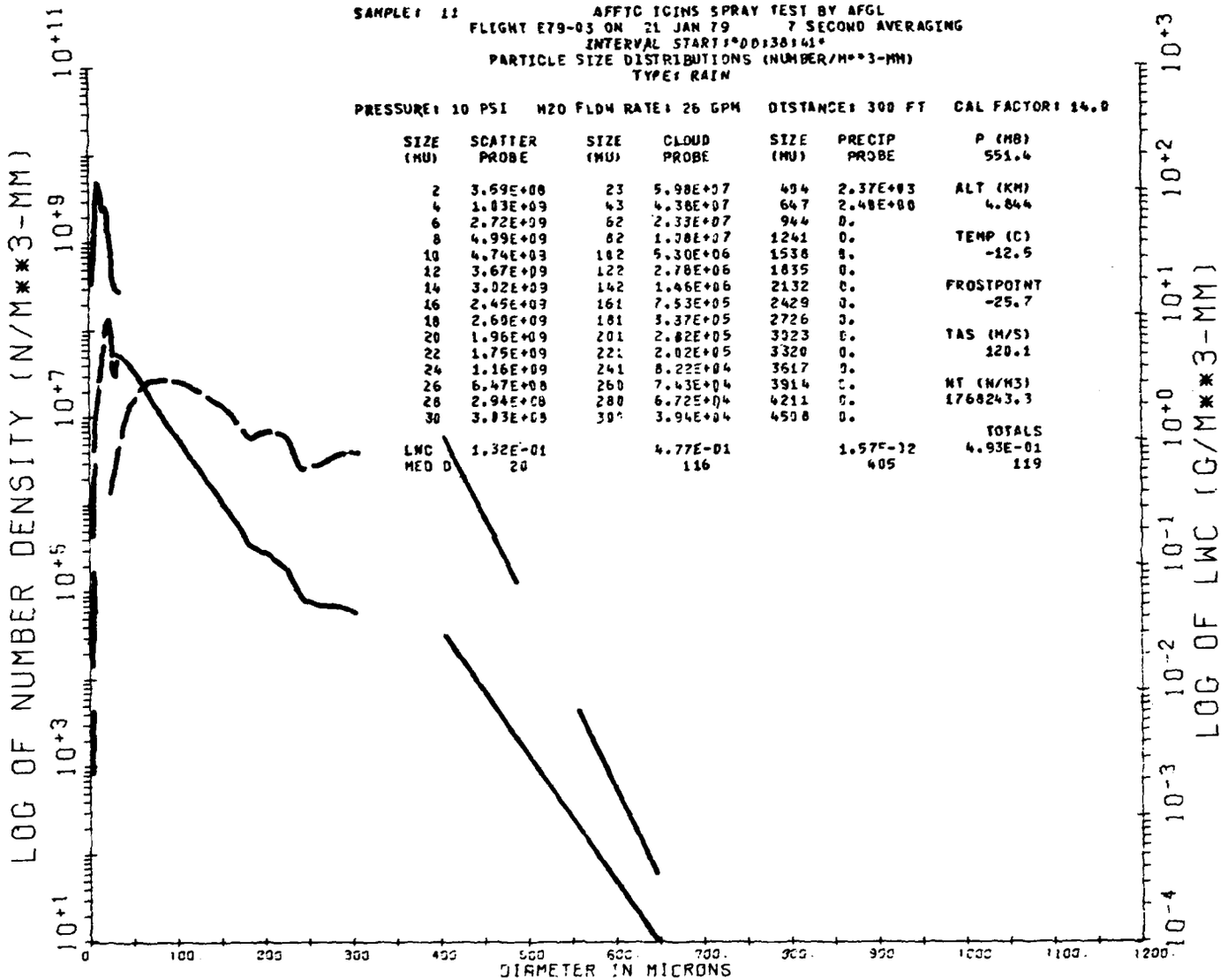

SAMPLE: 8A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 7 SECOND AVERAGING
INTERVAL START: *00:30:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 549.7
2 1.12E+09 23 7.65E+07 404 6.68E+03 ALT (KM) 4.867
4 3.88E+08 43 5.92E+07 647 2.12E+01
6 9.08E+08 62 3.42E+07 944 0.
8 8.98E+09 82 1.78E+07 1241 0. TEMP (C) -11.4
10 5.56E+09 102 9.04E+06 1538 0.
12 3.84E+09 122 4.93E+06 1835 0.
14 2.57E+09 142 2.61E+06 2132 0. FROSTPOINT -23.2
16 1.52E+09 161 1.30E+06 2429 0.
18 1.54E+09 181 7.32E+05 2726 0.
20 1.11E+09 201 5.04E+05 3023 0. TAS (M/S) 122.6
22 1.02E+09 221 3.71E+05 3320 0.
24 6.46E+08 241 1.77E+05 3617 0.
26 5.34E+08 260 1.46E+05 3914 0. NT (N/M3) 2583149.2
28 2.64E+08 280 1.21E+05 4211 0.
30 3.72E+08 300 7.62E+04 4508 0.
TOTALS
LWC 1.81E-01 8.10E-01 4.43E-02 8.55E-01
MED D 20 124 406 128
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

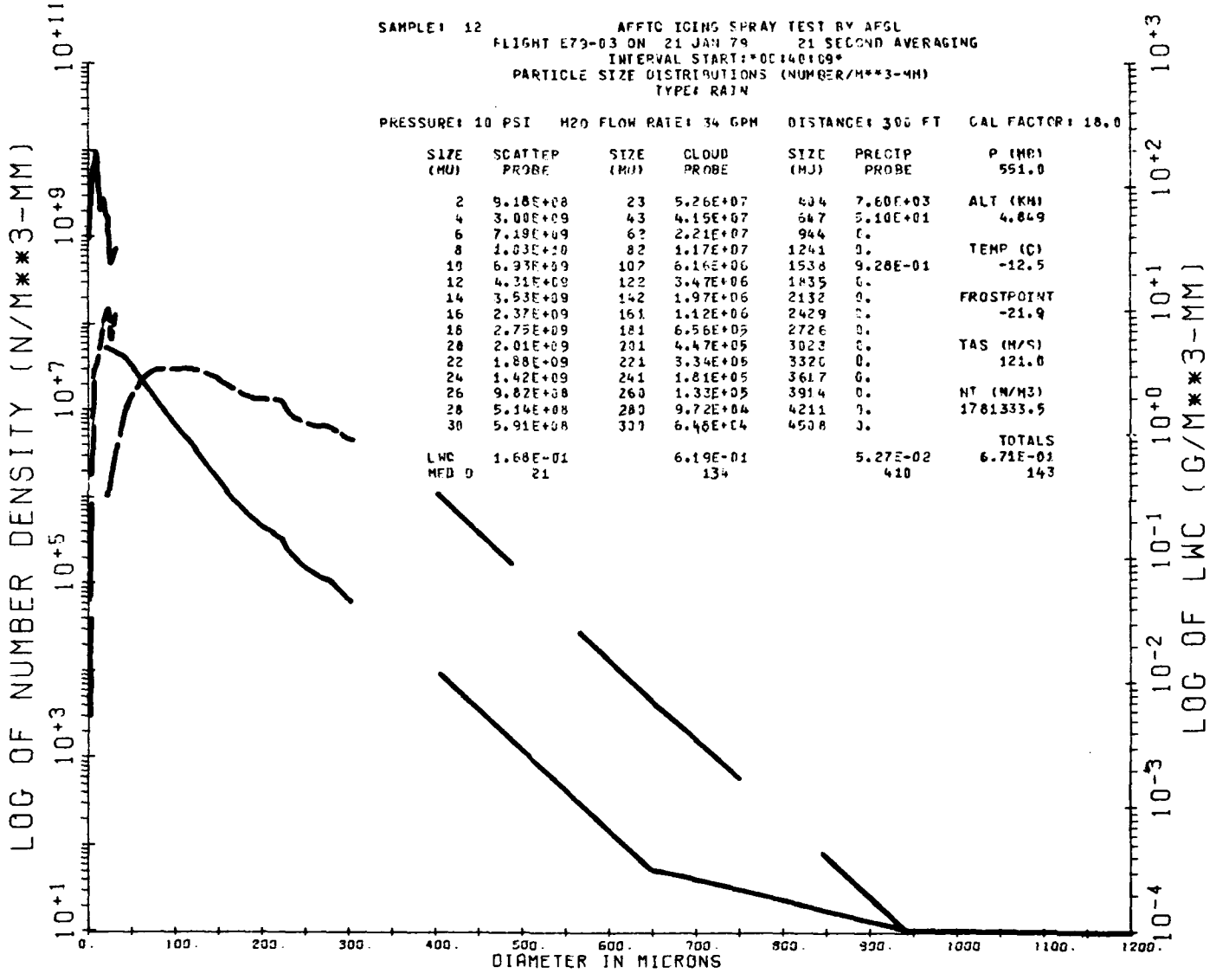

SAMPLE: 88
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 27 SECOND AVERAGING
INTERVAL START: 03:30:28
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
P (MB) 549.9
2 1.53E+09 23 7.62E+07 404 6.13E+03
4 6.26E+09 43 5.93E+07 647 2.18E+01
6 1.47E+10 62 3.11E+07 944 3.18E+00
8 1.92E+10 82 1.65E+07 1241 0.
10 1.84E+10 102 9.82E+06 1538 0.
12 1.31E+10 122 4.70E+06 1835 0.
14 1.24E+10 142 2.39E+06 2132 0.
16 5.97E+09 161 1.24E+06 2429 0.
18 5.43E+09 181 7.51E+05 2726 0.
20 2.80E+09 201 4.47E+05 3023 0.
22 2.66E+09 221 3.19E+05 3320 0.
24 1.68E+09 241 1.59E+05 3617 0.
26 1.93E+09 260 1.80E+05 3914 0.
28 6.64E+08 280 1.07E+05 4211 0.
30 1.91E+09 300 6.79E+04 4508 0.
ALT (KM) 4.865
TEMP (C) -12.2
FROSTPOINT -20.8
TAS (M/S) 123.5
NT (N/M3) 2501887.4
TOTALS
LWC 3.46E-01 7.65E-01 4.17E-02 8.07E-01
MED D 20 122 408 126
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100 200 300 400 500. 600. 700. 800. 900. 1000. 1100. 1200.

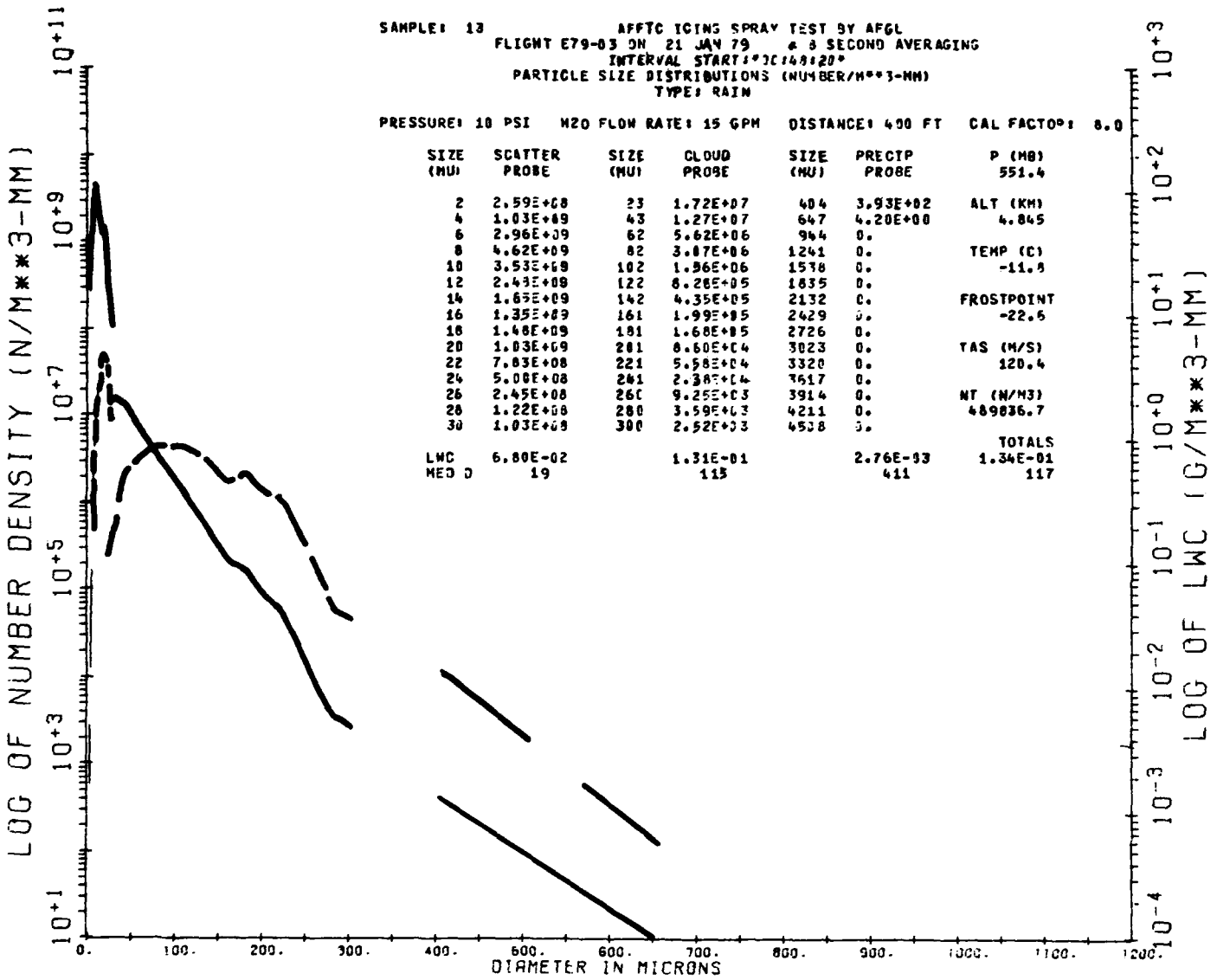

SAMPLE: 9
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 20 SECOND AVERAGING
INTERVAL START: *00:35:24*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 9.27E+07 23 1.75E+07 484 7.02E+02
4 2.65E+08 43 1.25E+07 647 1.71E+00
6 7.36E+08 62 5.67E+06 944 0.
8 1.53E+09 82 2.69E+06 1241 0.
10 1.39E+09 102 1.32E+06 1538 0.
12 1.10E+09 122 8.03E+05 1835 0.
14 8.88E+08 142 3.77E+05 2132 0.
16 7.33E+08 161 2.36E+05 2429 0.
18 8.01E+08 181 1.37E+05 2726 0.
20 5.90E+08 201 8.63E+04 3023 0.
22 4.75E+08 221 5.54E+04 3320 0.
24 2.72E+08 241 3.27E+04 3617 0.
26 1.39E+08 260 1.98E+04 3914 0.
28 6.54E+07 280 1.20E+04 4211 0.
30 5.43E+07 300 7.63E+03 4508 0.
LWC 3.55E-02 1.30E-01 4.68E-03
MED D 20 121 406
P (MB) 551.2
ALT (KM) 4.846
TEMP (C) -11.4
FROSTPOINT -24.0
TAS (M/S) 119.8
NT (N/M3) 474633.8
TOTALS 1.35E-01 124
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS


SAMPLE: 10A
AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-83 ON 21 JAN 79 12 SECOND AVERAGING
INTERVAL START: 08:36:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 18 PSI H2O FLOW RATE: 19 GPM DISTANCE: 388 FT CAL FACTOR: 10.8
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 2.65E+08 23 2.24E+07 484 1.32E+03
4 7.70E+08 43 1.89E+07 644 4.30E+00
6 1.73E+09 62 9.56E+06 944 0.
8 3.41E+09 82 4.66E+06 1241 0.
10 3.23E+09 102 2.29E+06 1538 0.
12 2.59E+09 122 1.33E+06 1835 0.
14 2.86E+09 142 6.17E+05 2132 0.
16 1.74E+09 161 3.35E+05 2429 0.
18 2.66E+09 181 2.00E+05 2726 0.
20 1.43E+09 201 1.25E+05 3023 0.
22 1.28E+09 221 7.91E+04 3320 0.
24 8.74E+08 241 4.23E+04 3617 0.
26 5.81E+08 261 3.07E+04 3914 0.
28 2.13E+08 280 2.22E+04 4211 0.
30 1.78E+08 300 1.42E+04 4508 0.
LWC 9.57E-02 2.08E-01 8.88E-03 2.17E-01
MED D 20 118 406 121
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS


SAMPLE: 100 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 20 SECOND AVERAGING
INTERVAL START: *00:36:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI 420 FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 1.27E+08 23 1.64E+07 404 8.62E+02
4 4.12E+08 43 1.61E+07 647 2.59E+00
6 8.98E+08 62 8.87E+06 944 0.
8 1.71E+09 82 4.09E+06 1241 0.
10 1.52E+09 102 2.05E+06 1538 0.
12 1.13E+09 122 1.11E+06 1835 0.
14 9.14E+08 142 5.77E+05 2132 0.
16 7.57E+08 161 3.42E+05 2429 0.
18 8.46E+08 181 1.62E+05 2726 0.
20 6.92E+08 201 1.22E+05 3023 0.
22 5.81E+08 221 7.78E+04 3320 0.
24 4.06E+08 241 6.08E+04 3617 0.
26 2.11E+08 260 2.54E+04 3914 0.
28 1.83E+08 280 1.42E+04 4211 0.
30 7.53E+07 300 9.07E+03 4508 0.
LWC 4.32E-02 1.86E-01 5.77E-03 1.92E-01
MED D 20 121 406 124
P (MB) 551.2
ALT (KM) 4.047
TEMP (C) -11.6
FROSTPOINT -24.4
TAS (M/S) 117.3
NT (N/M3) 650243.0
TOTALS
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.


SAMPLE: 11
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 7 SECOND AVERAGING
INTERVAL START: 00:38:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 26 GPM DISTANCE: 300 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 3.69E+08 23 5.98E+07 494 2.37E+03
4 1.83E+09 43 4.36E+07 647 2.48E+00
6 2.72E+09 62 2.33E+07 944 0.
8 4.99E+09 82 1.38E+07 1241 0.
10 4.74E+09 102 5.30E+06 1538 0.
12 3.67E+09 122 2.78E+06 1835 0.
14 3.02E+09 142 1.46E+06 2132 0.
16 2.45E+09 161 7.53E+05 2429 0.
18 2.60E+09 181 3.37E+05 2726 0.
20 1.96E+09 201 2.82E+05 3023 0.
22 1.75E+09 221 2.02E+05 3320 0.
24 1.16E+09 241 8.22E+04 3617 0.
26 6.47E+08 260 7.43E+04 3914 0.
28 2.94E+08 280 6.72E+04 4211 0.
30 3.83E+09 300 3.94E+04 4508 0.
LWC 1.32E-01 4.77E-01 1.57E-12
MED D 20 116 405
P (MB) 551.4
ALT (KM) 4.844
TEMP (C) -12.5
FROSTPOINT -25.7
TAS (M/S) 120.1
NT (N/M3) 1768243.3
TOTALS 4.93E-01 119
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0 100 200 300 400 500 600 700 800 900 1000 1100 1200


SAMPLE: 12
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 21 SECOND AVERAGING
INTERVAL START: *0E:40:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 9.18E+08 23 5.26E+07 404 7.60E+03
4 3.00E+09 43 4.15E+07 647 5.10E+01
6 7.19E+09 62 2.21E+07 944 0.
8 1.03E+10 82 1.17E+07 1241 0.
10 6.93E+09 102 6.16E+06 1538 9.28E-01
12 4.31E+09 122 3.47E+06 1835 0.
14 3.53E+09 142 1.97E+06 2132 0.
16 2.37E+09 161 1.12E+06 2429 0.
18 2.75E+09 181 6.56E+05 2726 0.
20 2.01E+09 201 4.47E+05 3023 0.
22 1.88E+09 221 3.34E+05 3320 0.
24 1.42E+09 241 1.81E+05 3617 0.
26 9.82E+08 260 1.33E+05 3914 0.
28 5.14E+08 280 9.72E+04 4211 0.
30 5.91E+08 301 6.46E+04 4508 0.
LWC 1.68E-01 6.19E-01 5.27E-02
MED D 21 134 410
P (MB) 551.0
ALT (KM) 4.849
TEMP (C) -12.5
FROSTPOINT -21.9
TAS (M/S) 121.0
NT (N/M3) 1781333.5
TOTALS 6.71E-01 143
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

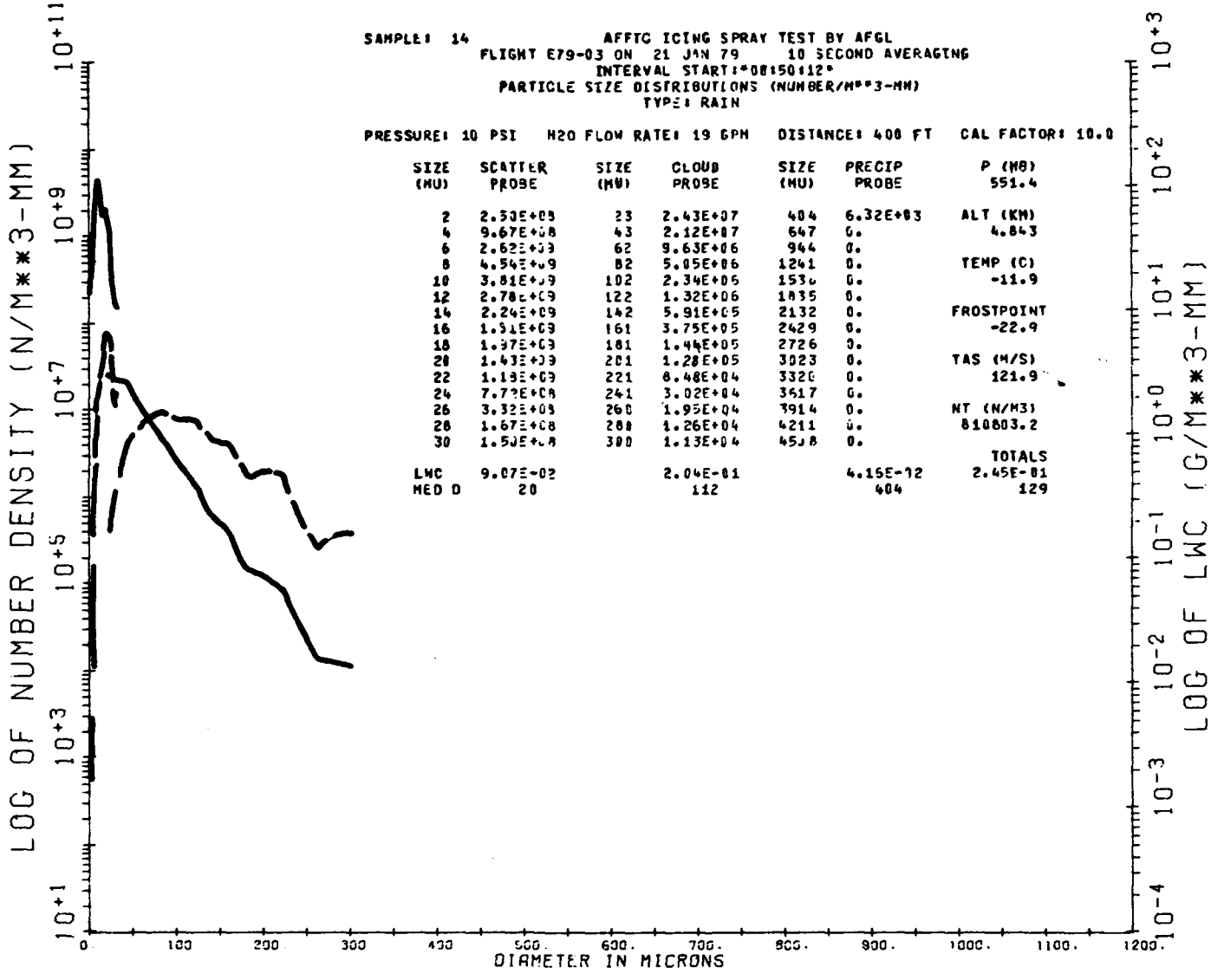

SAMPLE: 13
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 @ 8 SECOND AVERAGING
INTERVAL START: 20:48:20
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 8.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 2.59E+08 23 1.72E+07 404 3.93E+02
4 1.03E+09 43 1.27E+07 647 4.20E+00
6 2.96E+09 62 5.62E+06 944 0.
8 4.62E+09 82 3.87E+06 1241 0.
10 3.53E+09 102 1.96E+06 1538 0.
12 2.48E+09 122 8.28E+05 1835 0.
14 1.65E+09 142 4.35E+05 2132 0.
16 1.35E+09 161 1.99E+05 2429 0.
18 1.48E+09 181 1.68E+05 2726 0.
20 1.03E+09 201 8.60E+04 3023 0.
22 7.83E+08 221 5.58E+04 3320 0.
24 5.08E+08 241 2.38E+04 3617 0.
26 2.45E+08 260 9.25E+03 3914 0.
28 1.22E+08 280 3.59E+03 4211 0.
30 1.03E+08 300 2.52E+03 4508 0.
LWC 6.80E-02 1.31E-01 2.76E-03
MED D 19 115 411
P (MB) 551.4
ALT (KM) 4.845
TEMP (C) -11.8
FROSTPOINT -22.6
TAS (M/S) 120.4
NT (N/M3) 489836.7
TOTALS 1.34E-01 117
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

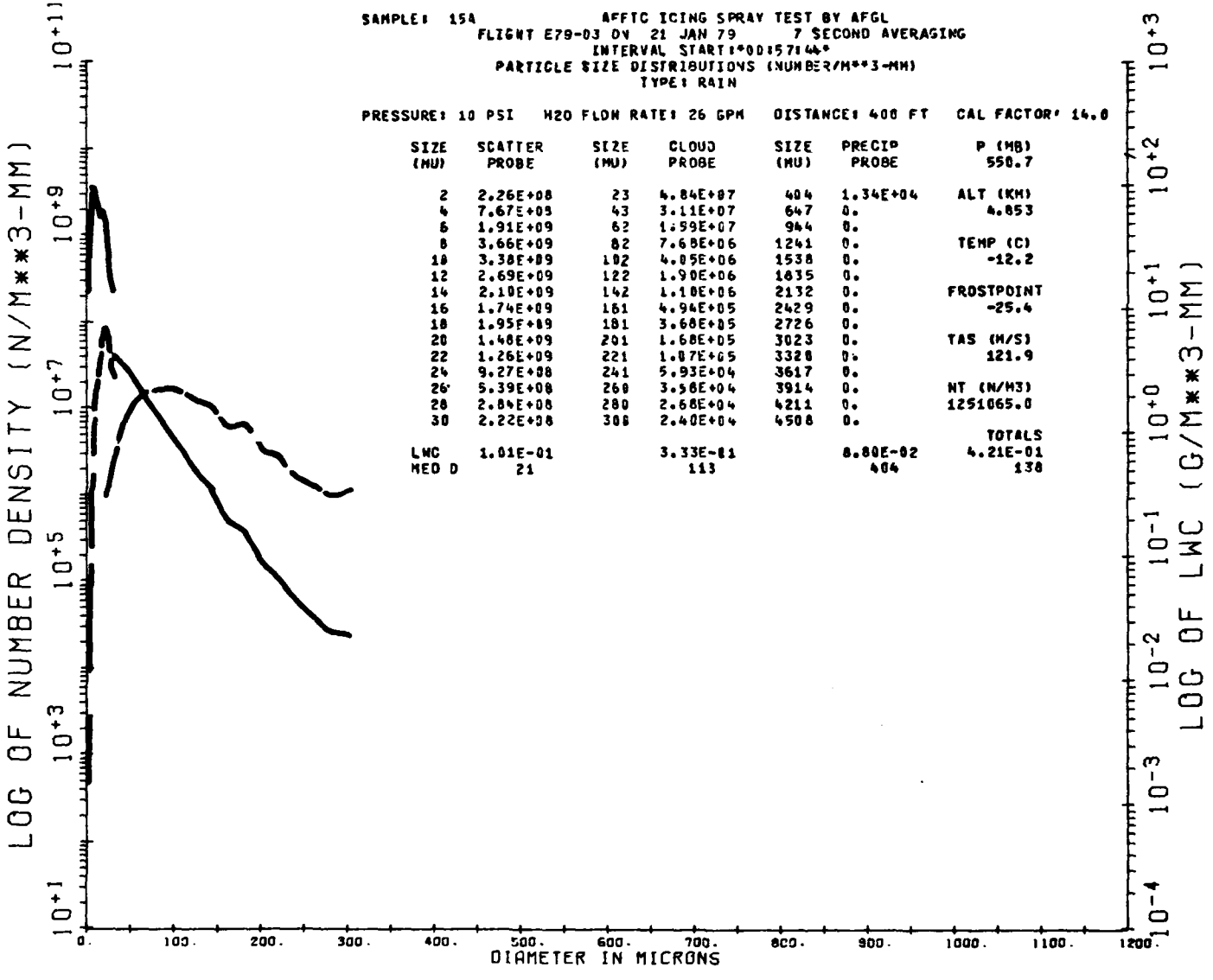
SAMPLE: 14

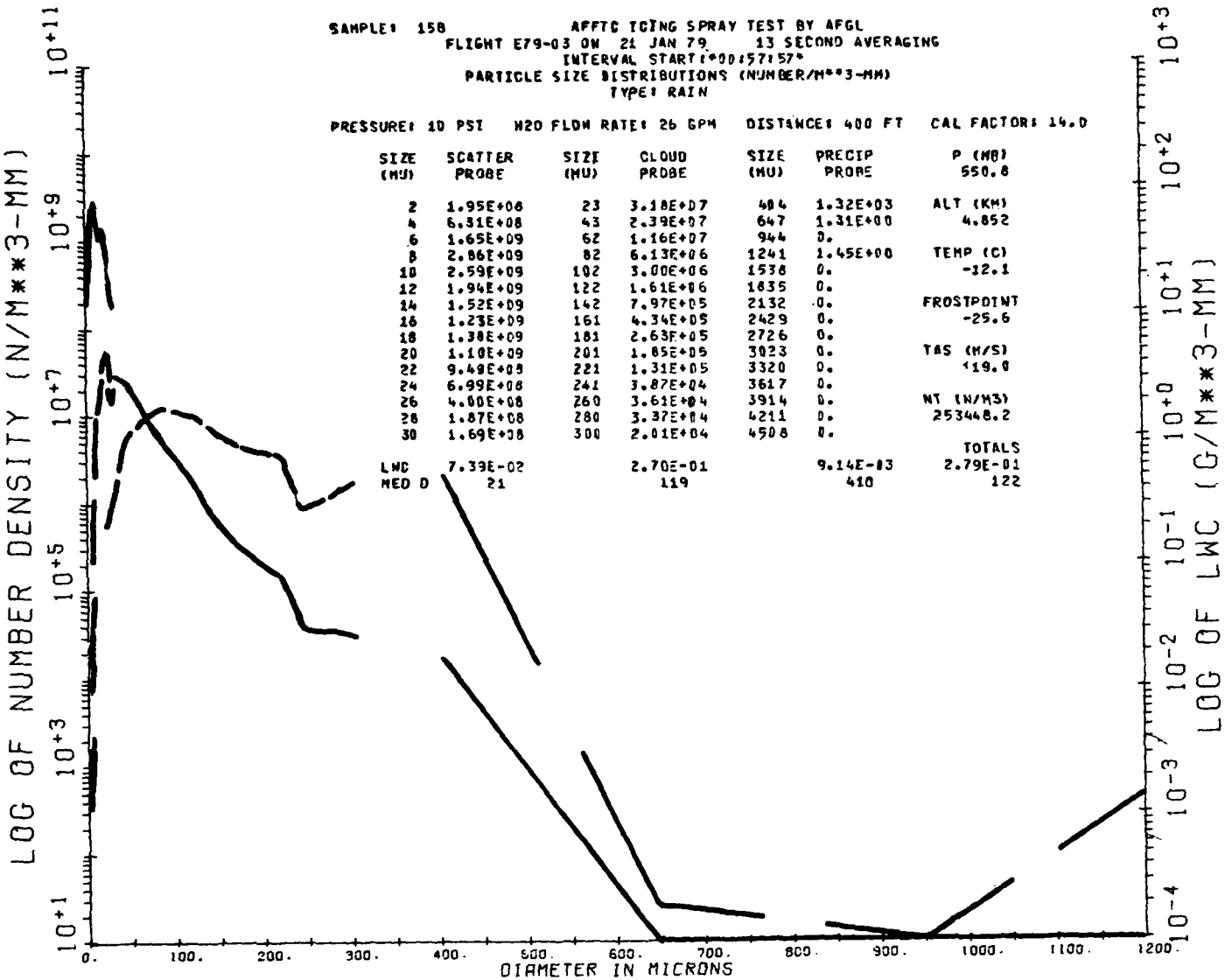
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 10 SECOND AVERAGING
INTERVAL START: 08:50:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

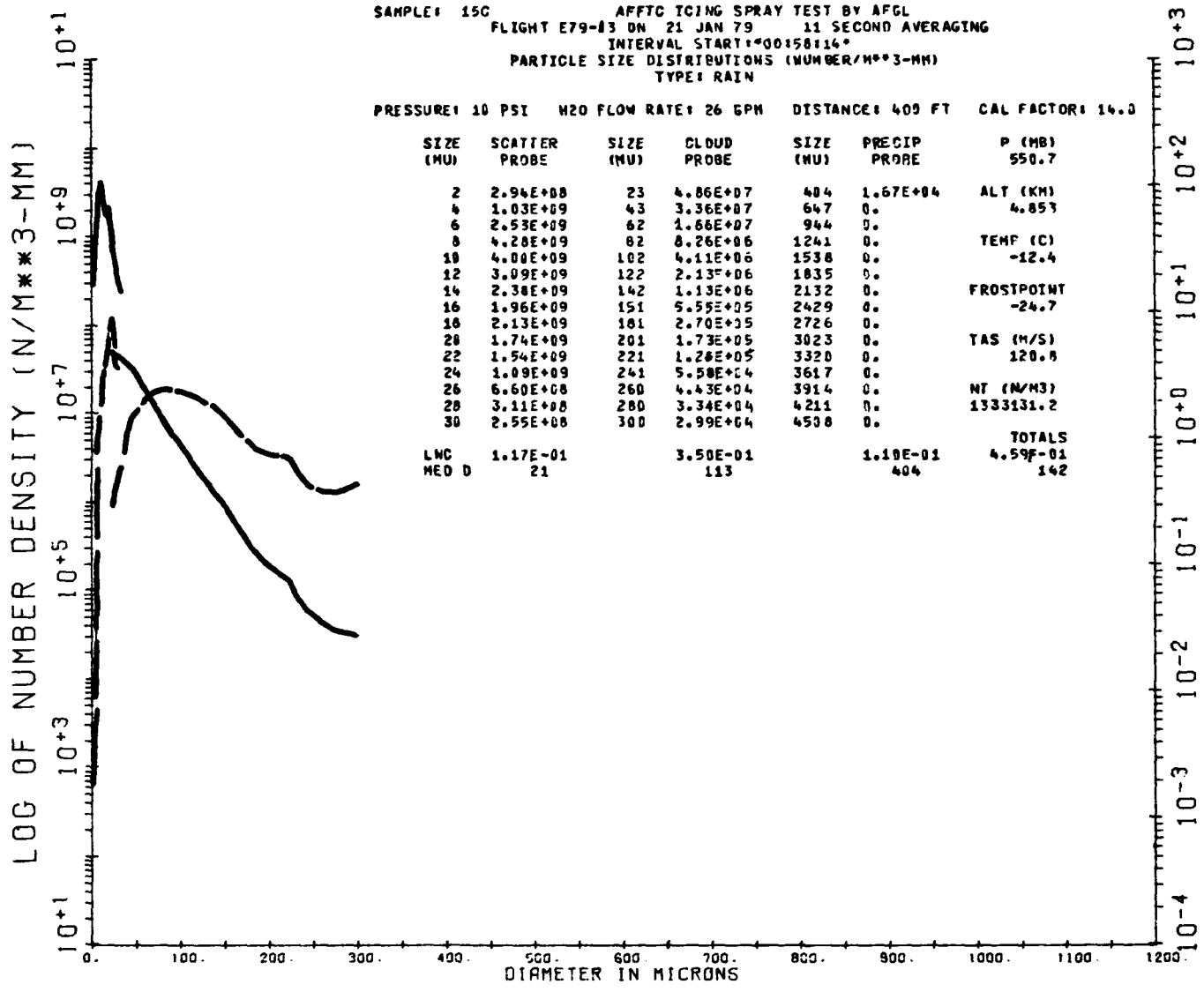
PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

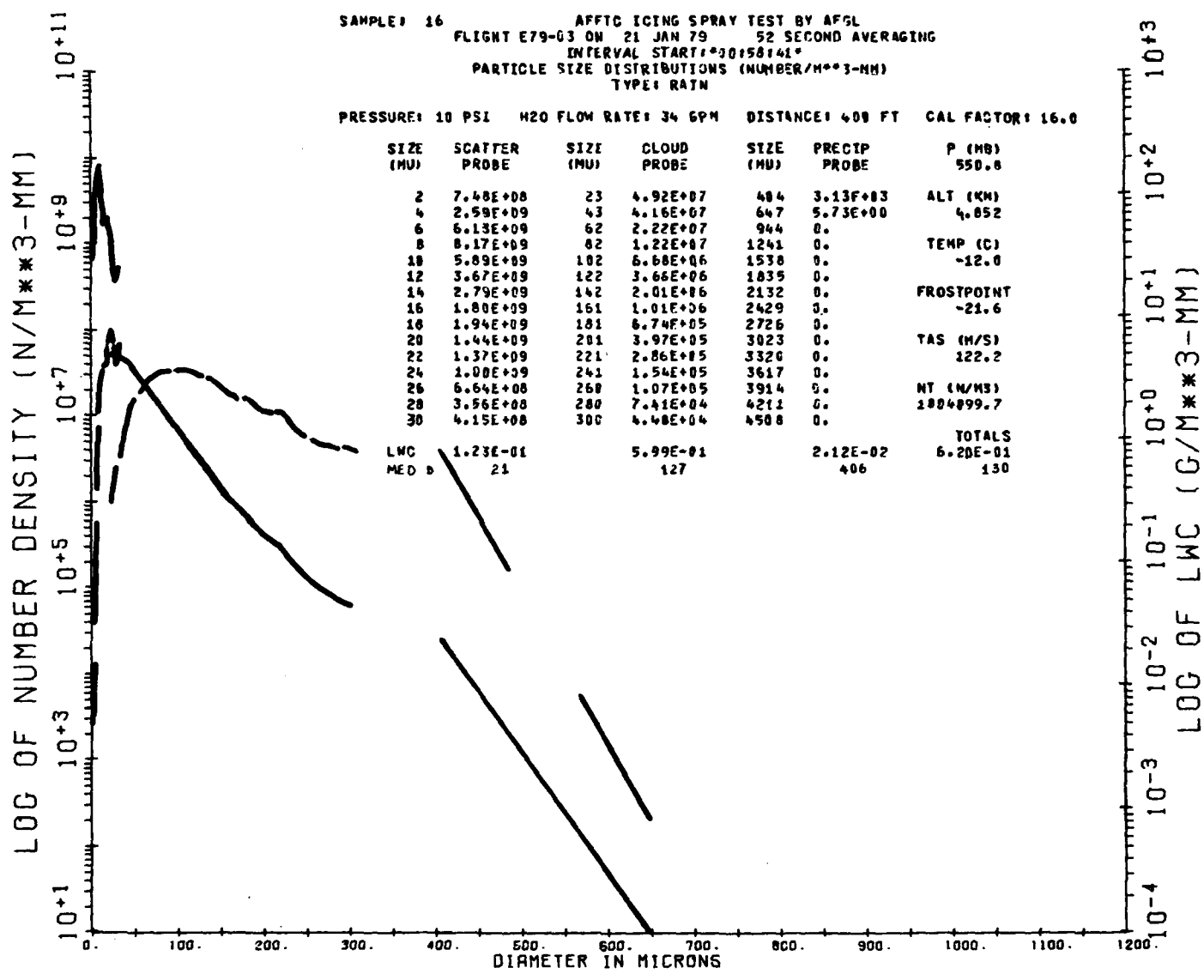
SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	2.53E+09	23	2.43E+07	404	6.32E+03	ALT (KM)
4	9.67E+08	43	2.12E+07	647	0.	4.843
6	2.62E+08	62	9.63E+06	944	0.	
8	4.54E+07	82	5.05E+06	1241	0.	TEMP (C)
10	3.81E+07	102	2.34E+06	1538	0.	-11.9
12	2.78E+07	122	1.32E+06	1835	0.	
14	2.24E+07	142	5.91E+05	2132	0.	FROSTPOINT
16	1.51E+07	161	3.75E+05	2429	0.	-22.9
18	1.37E+07	181	1.44E+05	2726	0.	
20	1.43E+07	201	1.28E+05	3023	0.	TAS (M/S)
22	1.13E+07	221	8.48E+04	3320	0.	121.9
24	7.72E+06	241	3.02E+04	3617	0.	
26	3.32E+06	260	1.95E+04	3914	0.	NT (N/M3)
28	1.67E+06	280	1.26E+04	4211	0.	810803.2
30	1.50E+06	300	1.13E+04	4508	0.	
						TOTALS
LWC	9.07E-02		2.04E-01		4.15E-12	2.45E-01
MED D	20		112		404	129

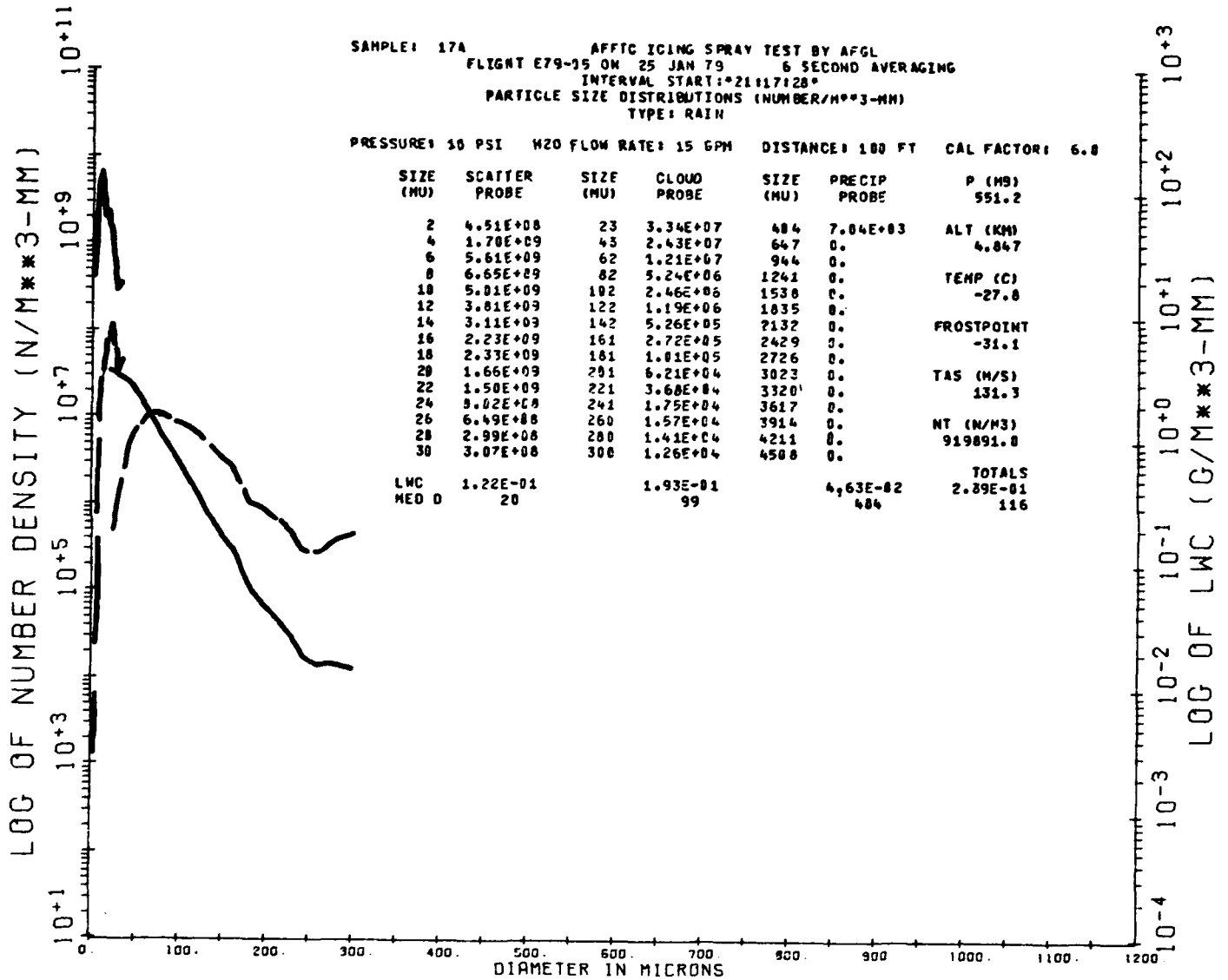


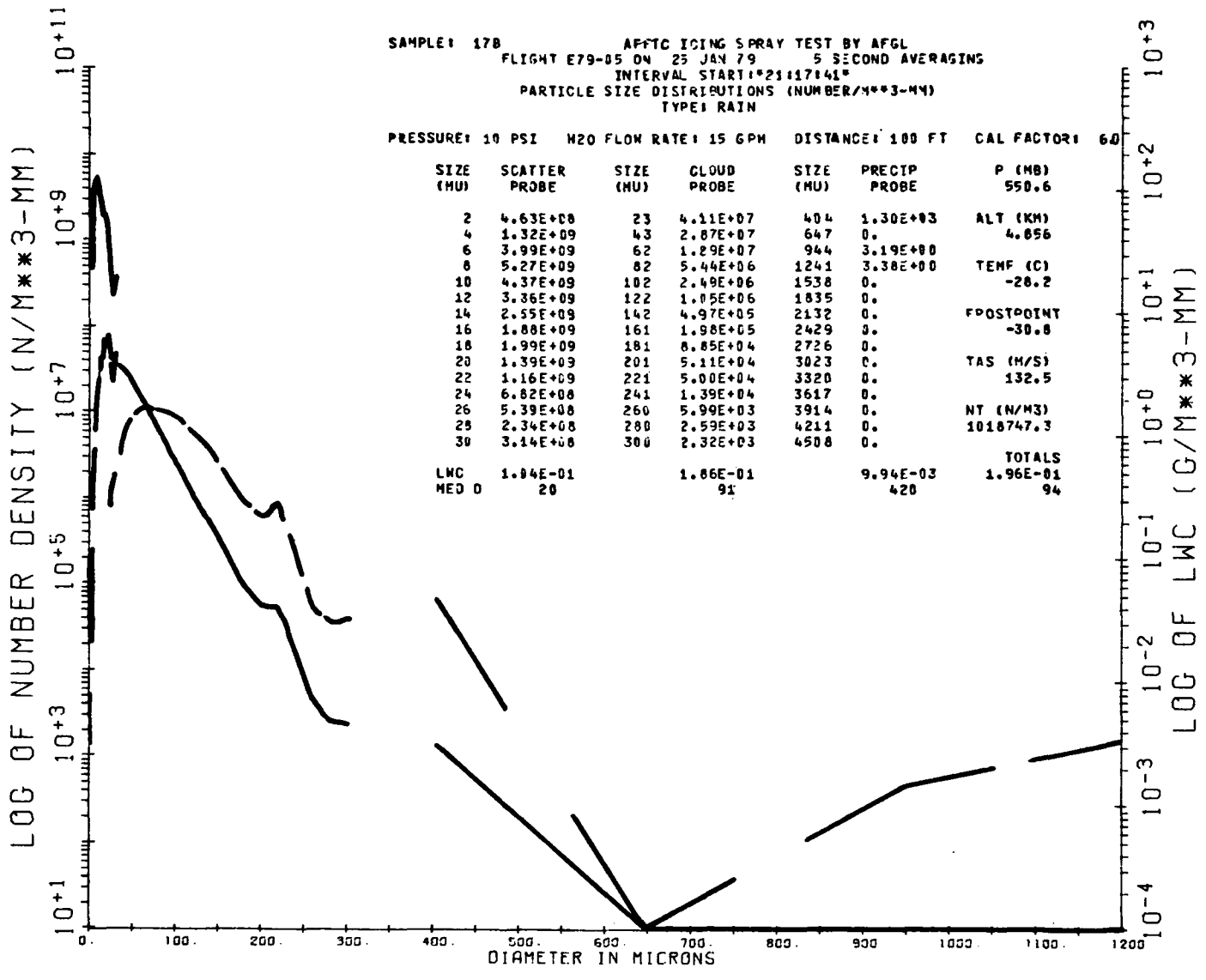

SAMPLE: 154
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 7 SECOND AVERAGING
INTERVAL START: 00:57:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 26 GPM DISTANCE: 400 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 2.26E+08 23 4.84E+07 404 1.34E+04
4 7.67E+08 43 3.11E+07 647 0.
6 1.91E+09 62 1.59E+07 944 0.
8 3.66E+09 82 7.68E+06 1241 0.
10 3.38E+09 102 4.05E+06 1538 0.
12 2.69E+09 122 1.90E+06 1835 0.
14 2.10E+09 142 1.10E+06 2132 0.
16 1.74E+09 161 4.94E+05 2429 0.
18 1.95E+09 181 3.68E+05 2726 0.
20 1.48E+09 201 1.68E+05 3023 0.
22 1.26E+09 221 1.07E+05 3320 0.
24 9.27E+08 241 5.93E+04 3617 0.
26 5.39E+08 260 3.56E+04 3914 0.
28 2.84E+08 280 2.68E+04 4211 0.
30 2.22E+08 300 2.40E+04 4508 0.
LWC 1.01E-01 3.33E-01 8.80E-02
MED D 21 113 404
P (MB) 550.7
ALT (KM) 4.853
TEMP (C) -12.2
FROSTPOINT -25.4
TAS (M/S) 121.9
NT (N/M3) 1251065.0
TOTALS 4.21E-01 138
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

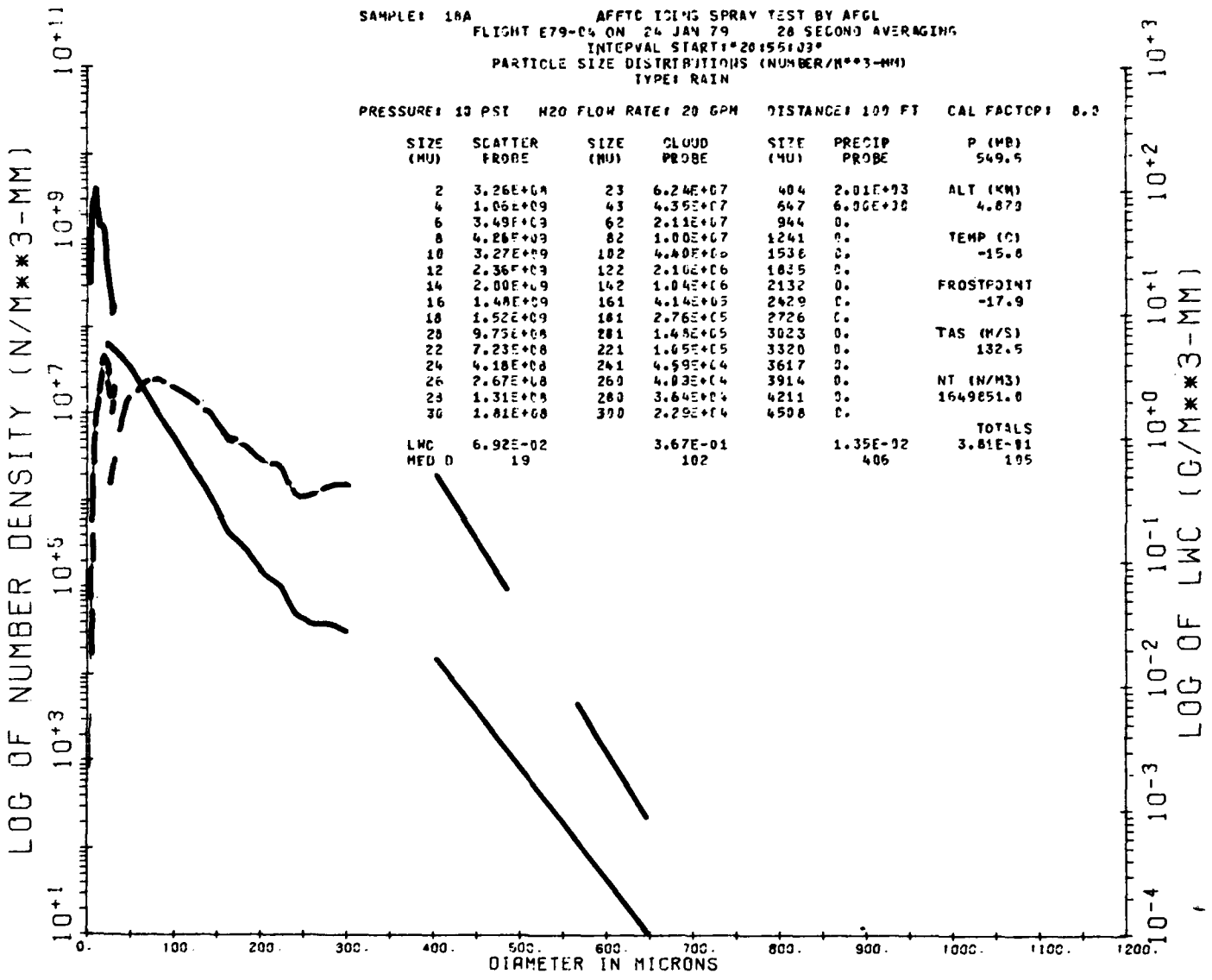

SAMPLE: 158
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 13 SECOND AVERAGING
INTERVAL START: 00:57:57
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 26 GPM DISTANCE: 400 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 1.95E+06 23 3.18E+07 484 1.32E+03
4 6.31E+08 43 2.39E+07 647 1.31E+00
6 1.65E+09 62 1.16E+07 944 0.
8 2.86E+09 82 6.13E+06 1241 1.45E+00
10 2.59E+09 102 3.00E+06 1538 0.
12 1.94E+09 122 1.61E+06 1835 0.
14 1.52E+09 142 7.97E+05 2132 0.
16 1.23E+09 161 4.34E+05 2429 0.
18 1.38E+09 181 2.63E+05 2726 0.
20 1.10E+09 201 1.85E+05 3023 0.
22 9.49E+08 221 1.31E+05 3320 0.
24 6.99E+08 241 3.87E+04 3617 0.
26 4.00E+08 260 3.61E+04 3914 0.
28 1.87E+08 280 3.37E+04 4211 0.
30 1.69E+08 300 2.01E+04 4508 0.
LWC 7.39E-02 2.70E-01 9.14E-03 2.79E-01
MED D 21 119 410 122
P (MB) 550.8
ALT (KM) 4.852
TEMP (C) -12.1
FROSTPOINT -25.6
TAS (M/S) 119.0
NT (N/M3) 253448.2
TOTALS
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.


SAMPLE: 15C
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 11 SECOND AVERAGING
INTERVAL START: *00:58:14*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 26 GPM DISTANCE: 409 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.7
2 2.94E+08 23 4.86E+07 404 1.67E+04 ALT (KM) 4.853
4 1.03E+09 43 3.36E+07 647 0. TEMP (C) -12.4
6 2.53E+09 62 1.66E+07 944 0. FROSTPOINT -24.7
8 4.28E+09 82 8.26E+06 1241 0. TAS (M/S) 120.8
10 4.00E+09 102 4.11E+06 1538 0. NT (N/M3) 1333131.2
12 3.09E+09 122 2.13E+06 1835 0.
14 2.38E+09 142 1.13E+06 2132 0. TOTALS
16 1.96E+09 161 5.55E+05 2429 0. LWC 1.17E-01 3.50E-01 1.18E-01 4.59E-01
18 2.13E+09 181 2.70E+05 2726 0. MED D 21 113 404 142
20 1.74E+09 201 1.73E+05 3023 0.
22 1.54E+09 221 1.26E+05 3320 0.
24 1.09E+09 241 5.58E+04 3617 0.
26 6.60E+08 260 4.43E+04 3914 0.
28 3.11E+08 280 3.34E+04 4211 0.
30 2.55E+08 300 2.99E+04 4508 0.
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.


SAMPLE: 16
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 52 SECOND AVERAGING
INTERVAL START: *20:58:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 7.48E+08 23 4.92E+07 484 3.13E+03
4 2.59E+09 43 4.16E+07 647 5.73E+00
6 6.13E+09 62 2.22E+07 944 0.
8 8.17E+09 82 1.22E+07 1241 0.
10 5.89E+09 102 6.68E+06 1538 0.
12 3.67E+09 122 3.66E+06 1835 0.
14 2.79E+09 142 2.01E+06 2132 0.
16 1.80E+09 161 1.01E+06 2429 0.
18 1.94E+09 181 6.74E+05 2726 0.
20 1.44E+09 201 3.97E+05 3023 0.
22 1.37E+09 221 2.86E+05 3320 0.
24 1.00E+09 241 1.54E+05 3617 0.
26 6.64E+08 260 1.07E+05 3914 0.
28 3.56E+08 280 7.41E+04 4211 0.
30 4.15E+08 300 4.48E+04 4508 0.
LWC 1.23E-01 5.99E-01 2.12E-02
MED D 21 127 406
P (MB) 550.6
ALT (KM) 4.852
TEMP (C) -12.0
FROSTPOINT -21.6
TAS (M/S) 122.2
NT (N/M3) 1804899.7
TOTALS 6.20E-01 130
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.


SAMPLE: 17A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-15 ON 25 JAN 79 6 SECOND AVERAGING
INTERVAL START: 21:17:28
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 180 FT CAL FACTOR: 6.8
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 4.51E+08 23 3.34E+07 484 7.04E+03
4 1.70E+09 43 2.43E+07 647 0.
6 5.61E+09 62 1.21E+07 944 0.
8 6.65E+09 82 5.24E+06 1241 0.
10 5.81E+09 102 2.46E+06 1538 0.
12 3.81E+09 122 1.19E+06 1835 0.
14 3.11E+09 142 5.26E+05 2132 0.
16 2.23E+09 161 2.72E+05 2429 0.
18 2.33E+09 181 1.81E+05 2726 0.
20 1.66E+09 201 6.21E+04 3023 0.
22 1.50E+09 221 3.68E+04 3320 0.
24 9.02E+08 241 1.75E+04 3617 0.
26 6.49E+08 260 1.57E+04 3914 0.
28 2.99E+08 280 1.41E+04 4211 0.
30 3.07E+08 300 1.26E+04 4508 0.
LWC 1.22E-01 1.93E-01 4.63E-02
MED D 20 99 484
P (MB) 551.2
ALT (KM) 4.847
TEMP (C) -27.8
FROSTPOINT -31.1
TAS (M/S) 131.3
NT (N/M3) 919891.8
TOTALS 2.89E-01 116
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS


SAMPLE: 178
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 5 SECOND AVERAGING
INTERVAL START: 21:17:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 60
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 4.63E+08 23 4.11E+07 404 1.30E+03
4 1.32E+09 43 2.87E+07 647 0.
6 3.99E+09 62 1.29E+07 944 3.19E+00
8 5.27E+09 82 5.44E+06 1241 3.38E+00
10 4.37E+09 102 2.49E+06 1538 0.
12 3.36E+09 122 1.05E+06 1835 0.
14 2.55E+09 142 4.97E+05 2132 0.
16 1.88E+09 161 1.98E+05 2429 0.
18 1.99E+09 181 8.85E+04 2726 0.
20 1.39E+09 201 5.11E+04 3023 0.
22 1.16E+09 221 5.00E+04 3320 0.
24 6.82E+08 241 1.39E+04 3617 0.
26 5.39E+08 260 5.99E+03 3914 0.
28 2.34E+08 280 2.59E+03 4211 0.
30 3.14E+08 300 2.32E+03 4508 0.
LWC 1.84E-01 1.86E-01 9.94E-03
MED D 20 91 420
P (MB) 550.6
ALT (KM) 4.856
TEMP (C) -28.2
FPOSTPOINT -30.8
TAS (M/S) 132.5
NT (N/M3) 1018747.3
TOTALS 1.96E-01 94
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200

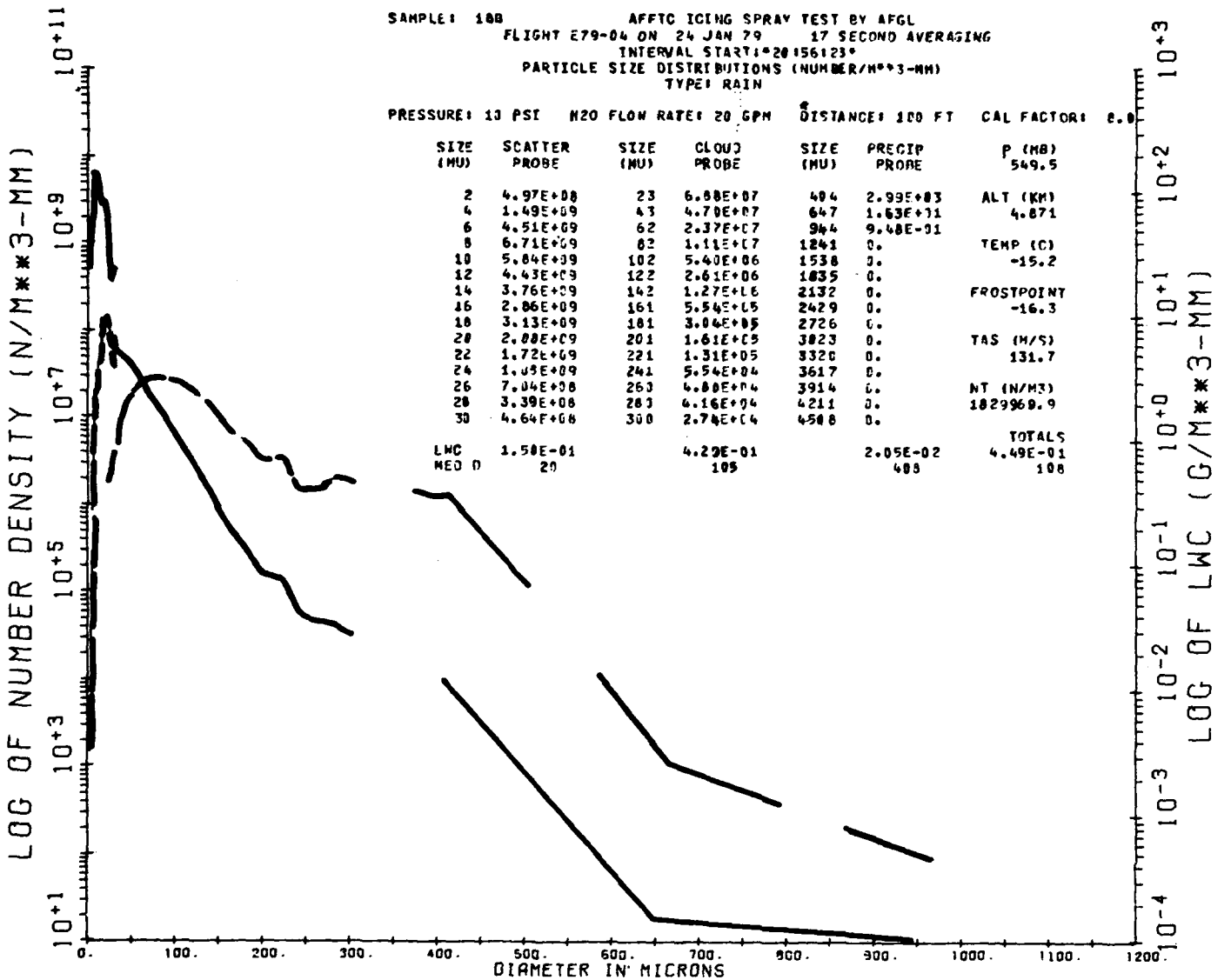

SAMPLE: 18A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 20 SECOND AVERAGING
INTERVAL START: 20:55:03
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 3.26E+08 23 6.24E+07 404 2.01E+03
4 1.06E+09 43 4.35E+07 647 6.00E+00
6 3.49E+09 62 2.11E+07 944 0.
8 4.26E+09 82 1.00E+07 1241 0.
10 3.27E+09 102 4.40E+06 1538 0.
12 2.36E+09 122 2.10E+06 1835 0.
14 2.00E+09 142 1.04E+06 2132 0.
16 1.48E+09 161 4.14E+05 2429 0.
18 1.52E+09 181 2.76E+05 2726 0.
20 9.75E+08 201 1.48E+05 3023 0.
22 7.23E+08 221 1.05E+05 3320 0.
24 4.18E+08 241 4.59E+04 3617 0.
26 2.67E+08 260 4.03E+04 3914 0.
28 1.31E+08 280 3.64E+04 4211 0.
30 1.81E+08 300 2.29E+04 4508 0.
LWC 6.92E-02 3.67E-01 1.35E-02
MED D 19 102 406
P (MB) 549.5
ALT (KM) 4.879
TEMP (C) -15.8
FROSTPOINT -17.9
TAS (M/S) 132.5
NT (N/M3) 1649851.0
TOTALS 3.81E-01 105
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

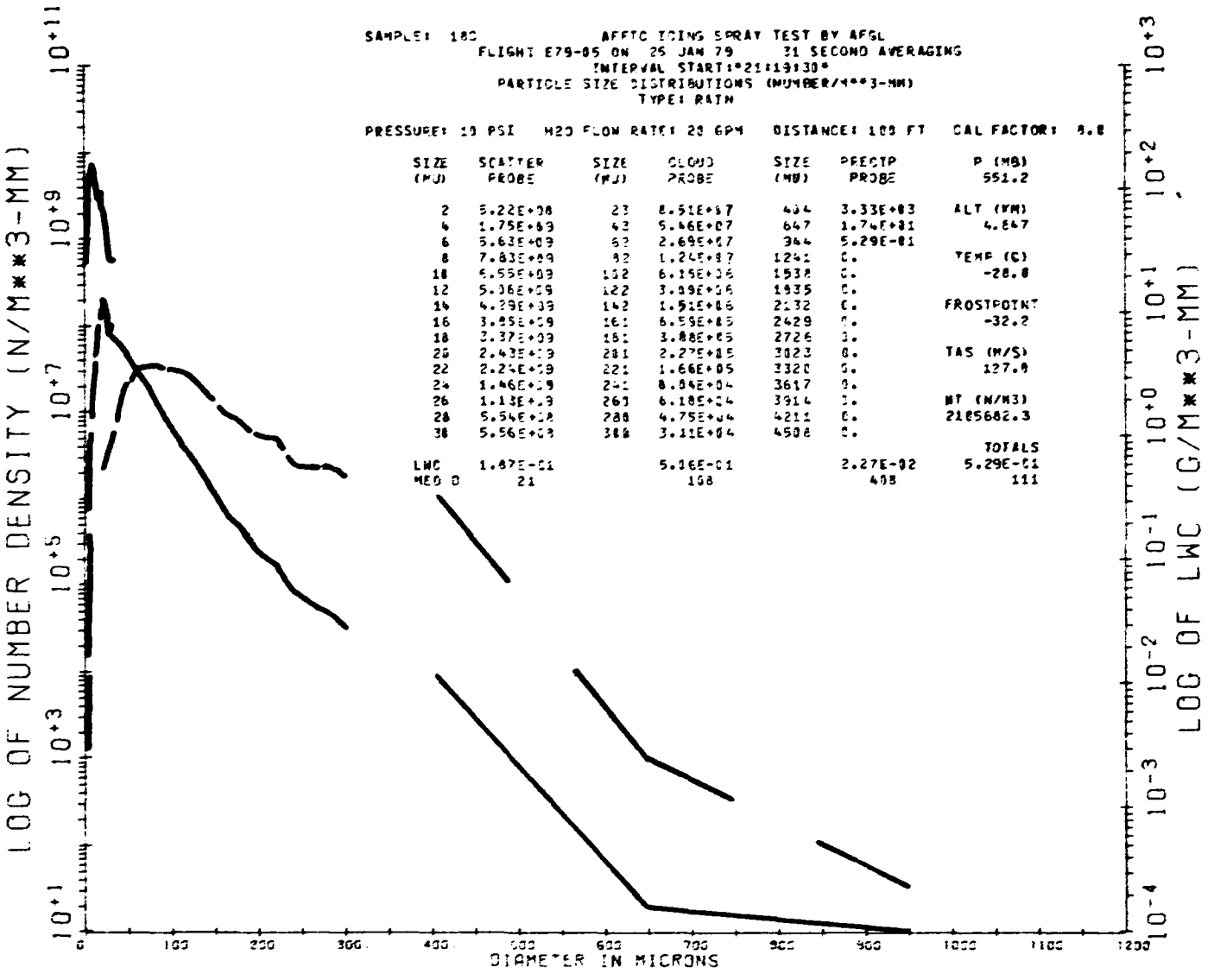
SAMPLE: 18B

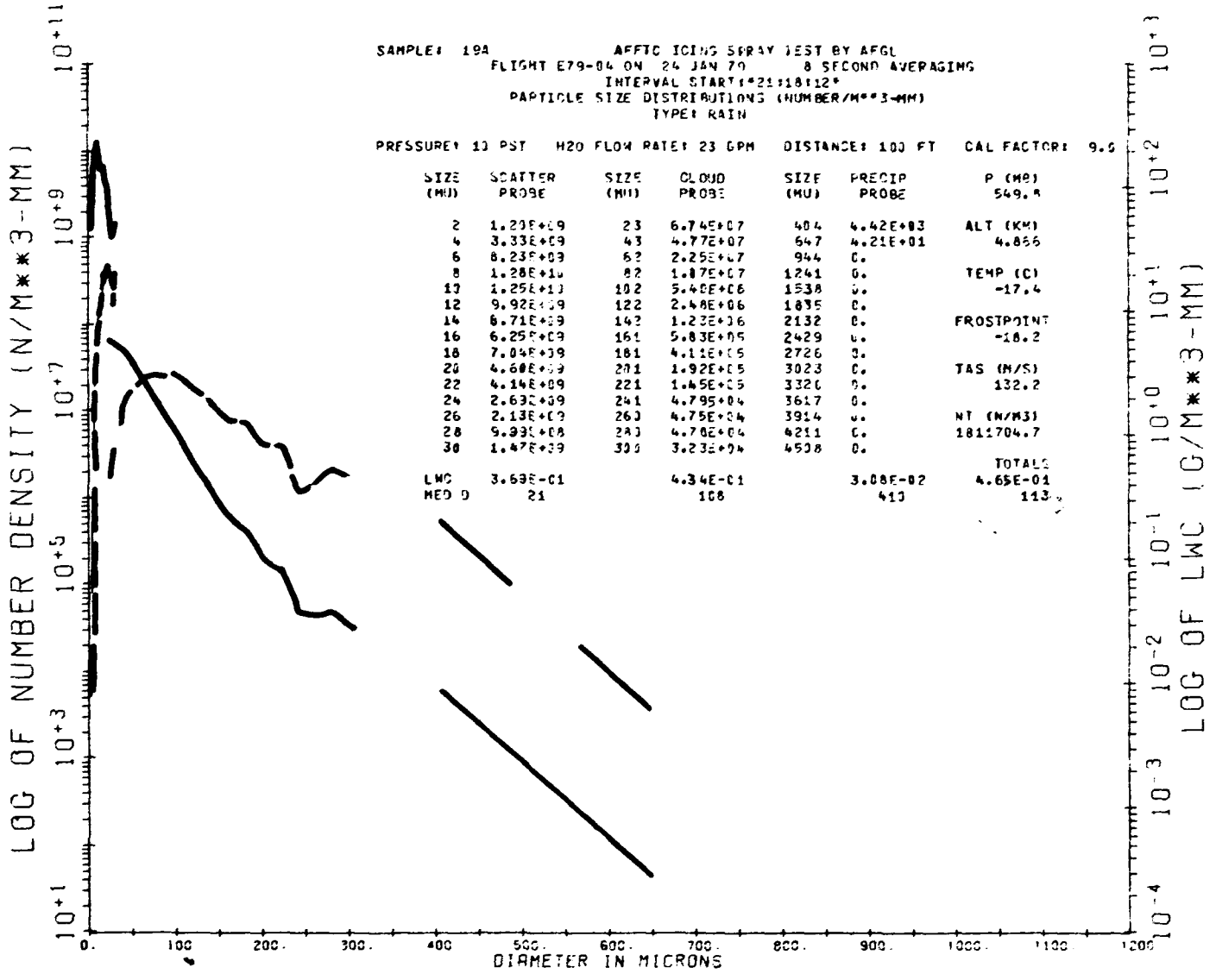
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 17 SECOND AVERAGING
INTERVAL START: 20:56:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

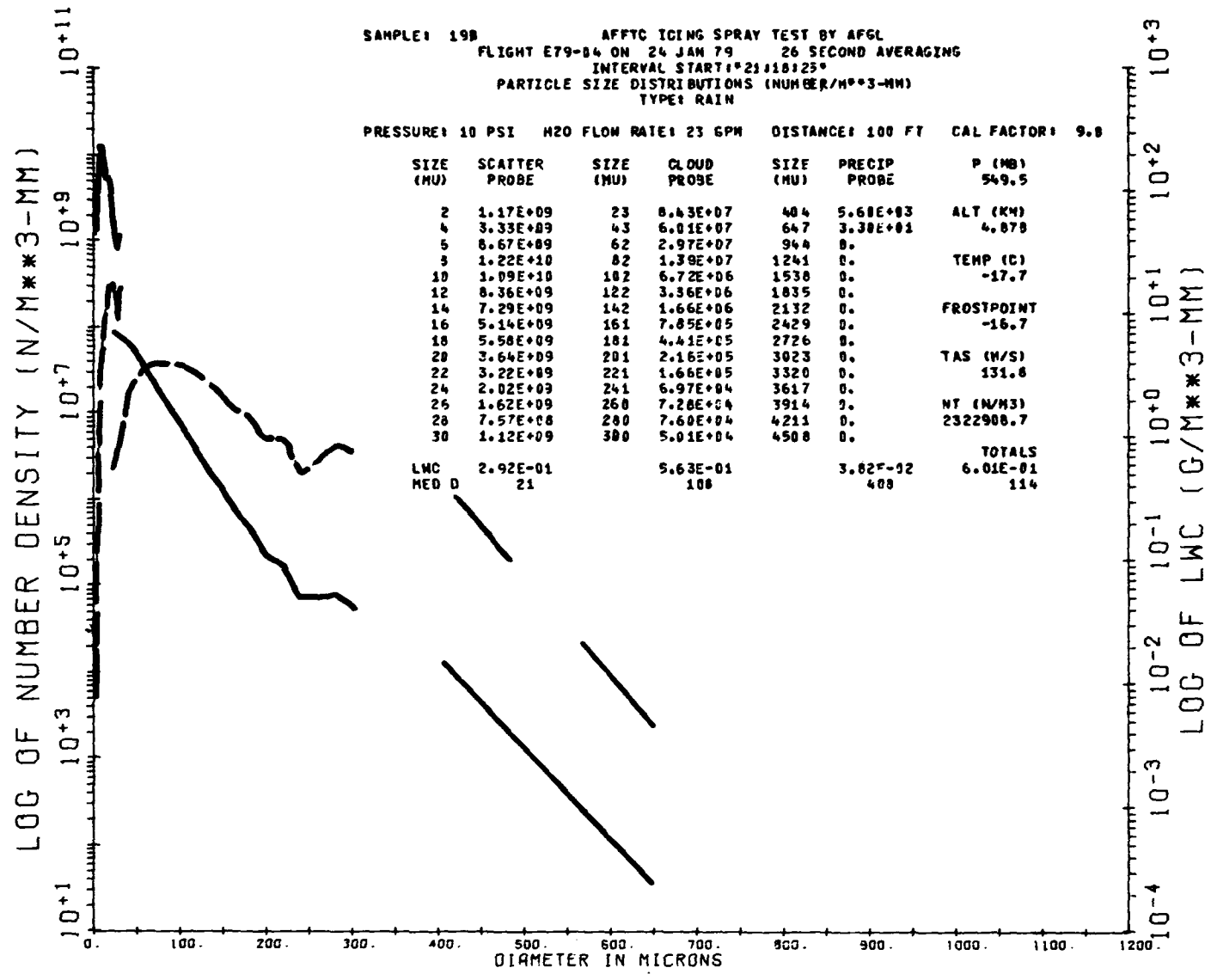
PRESSURE: 13 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

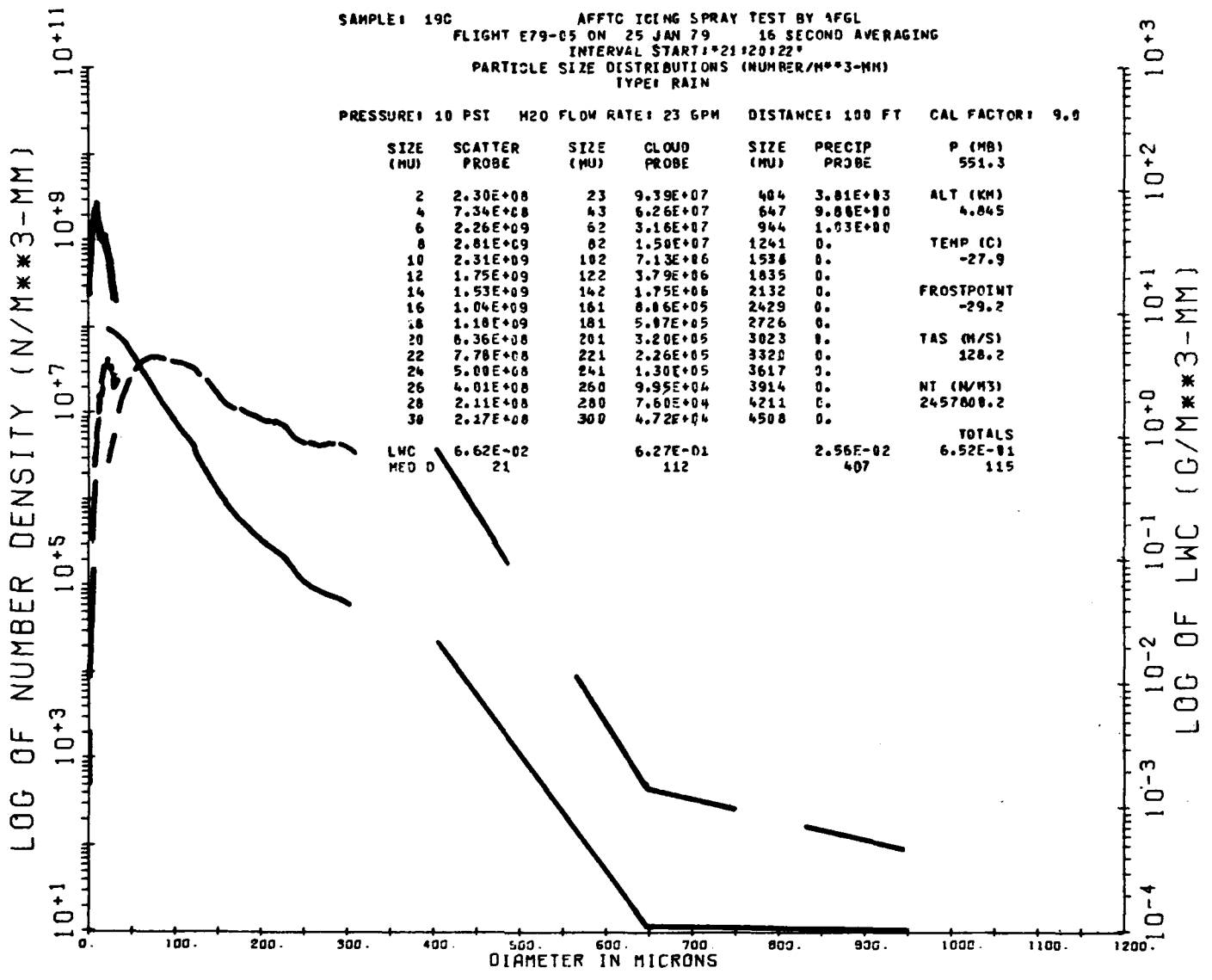
SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	4.97E+08	23	6.88E+07	494	2.99E+03	ALT (KM)
4	1.49E+09	43	4.70E+07	647	1.63E+01	4.871
6	4.51E+09	62	2.37E+07	944	9.48E-01	
8	6.71E+09	82	1.11E+07	1241	0.	TEMP (C)
10	5.84E+09	102	5.40E+06	1538	0.	-15.2
12	4.43E+09	122	2.61E+06	1835	0.	
14	3.76E+09	142	1.27E+06	2132	0.	FROSTPOINT
16	2.86E+09	161	5.54E+05	2429	0.	-16.3
18	3.13E+09	181	3.04E+05	2726	0.	
20	2.88E+09	201	1.61E+05	3023	0.	TAS (M/S)
22	1.72E+09	221	1.31E+05	3320	0.	131.7
24	1.09E+09	241	5.54E+04	3617	0.	
26	7.04E+08	261	4.80E+04	3914	0.	NT (N/M3)
28	3.39E+08	281	4.16E+04	4211	0.	1829969.9
30	4.64E+08	300	2.74E+04	4508	0.	
						TOTALS
LWC	1.58E-01		4.22E-01		2.05E-02	4.49E-01
MED D	20		105		408	108

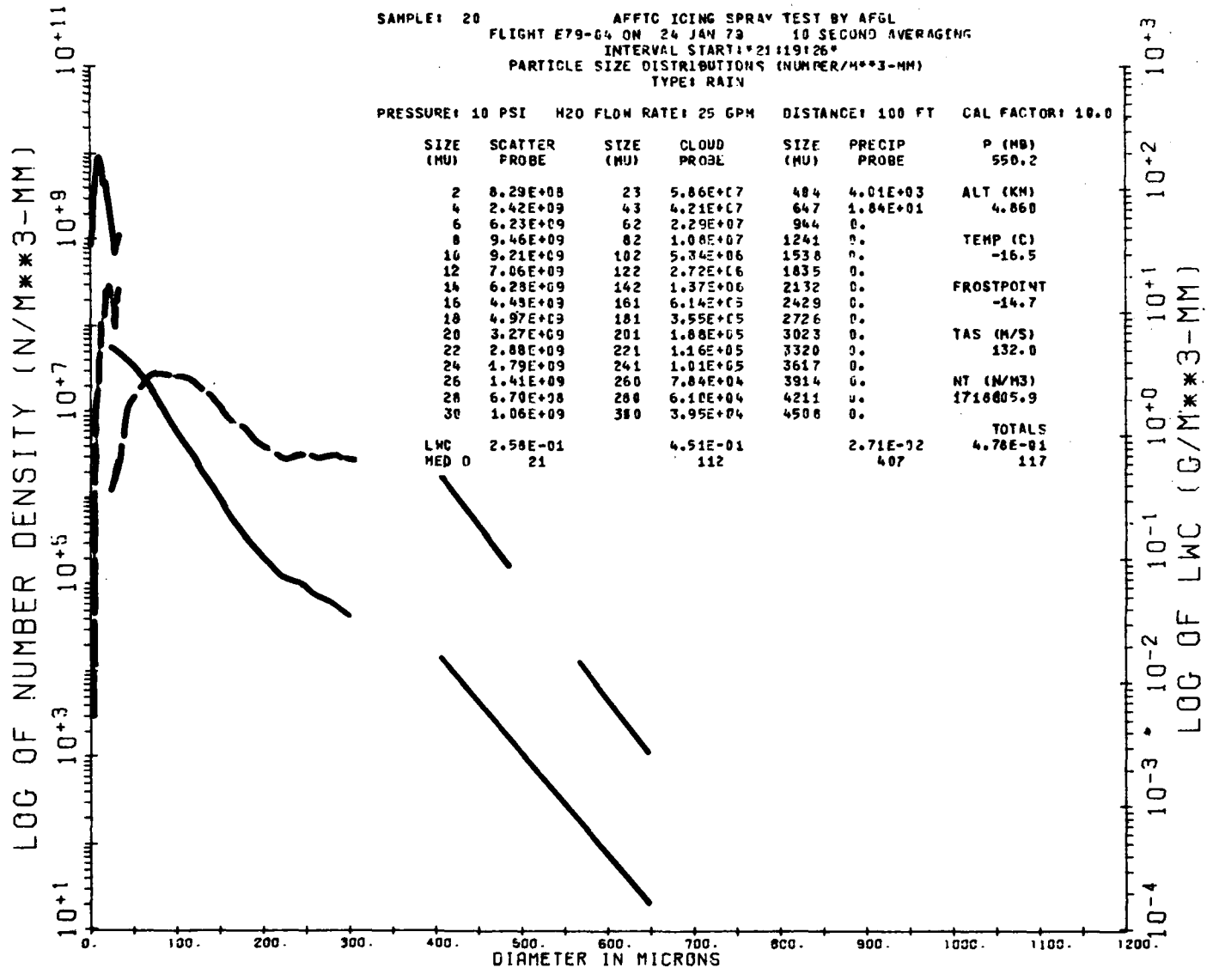


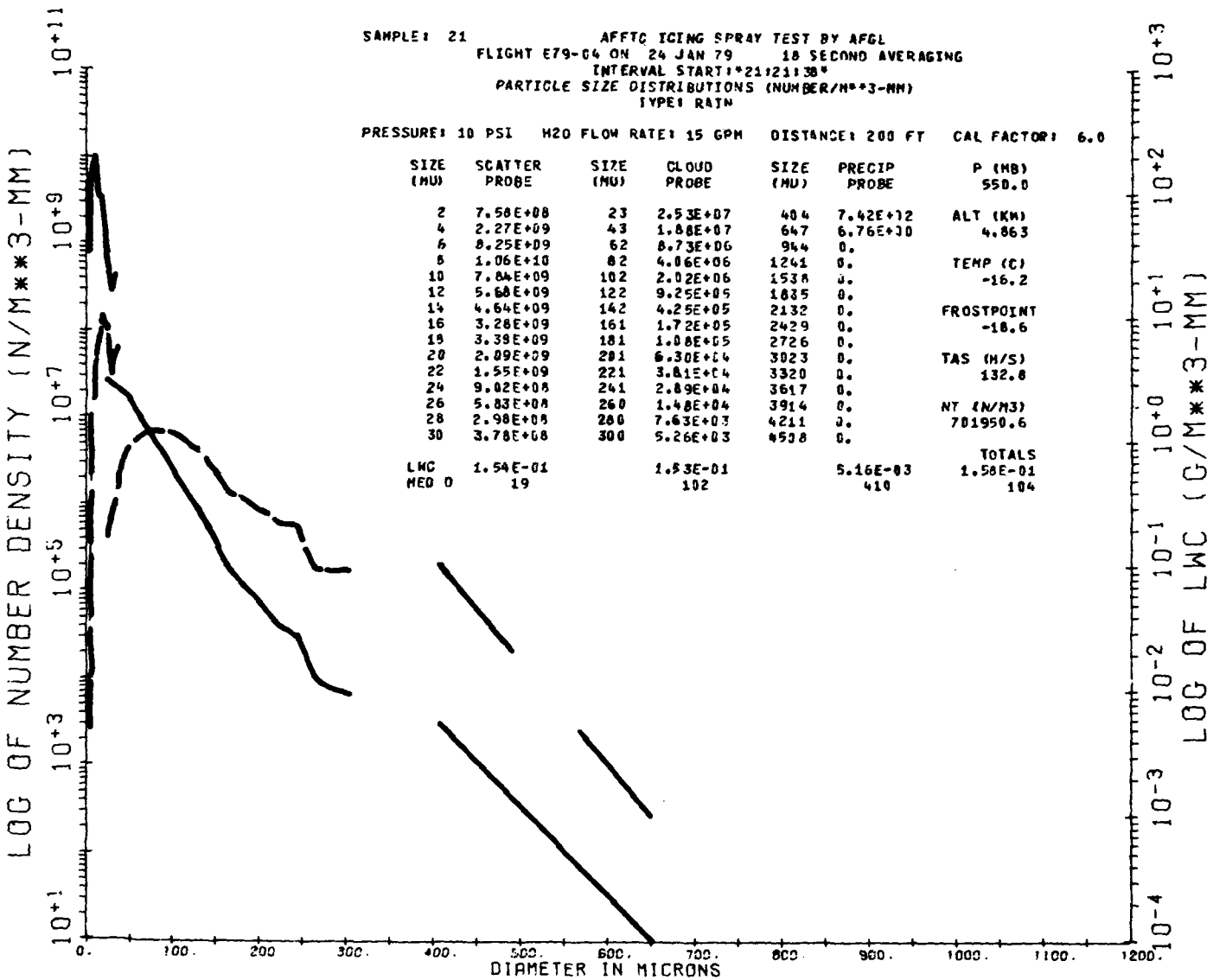

SAMPLE: 180
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 31 SECOND AVERAGING
INTERVAL START: 21:19:30
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 20 GPH DISTANCE: 100 FT CAL FACTOR: 5.8
SIZE (MU) SCATTER PROBE
2 5.22E+08
4 1.75E+09
6 5.63E+09
8 7.83E+09
10 6.55E+09
12 5.06E+09
14 4.29E+09
16 3.85E+09
18 3.37E+09
20 2.43E+09
22 2.24E+09
24 1.46E+09
26 1.13E+09
28 5.54E+08
30 5.56E+08
LWC 1.87E-01
MED D 21
SIZE (MU) CLOUD PROBE
23 8.51E+07
43 5.46E+07
63 2.69E+07
83 1.24E+07
103 6.15E+06
123 3.09E+06
143 1.51E+06
163 6.59E+05
183 3.88E+05
203 2.27E+05
223 1.66E+05
243 8.84E+04
263 6.18E+04
283 4.75E+04
303 3.11E+04
5.16E-01
108
SIZE (MU) PRECIP PROBE
404 3.33E+03
647 1.74E+01
944 5.29E-01
1241 0.
1538 0.
1935 0.
2132 0.
2429 0.
2726 0.
3023 0.
3320 0.
3617 0.
3914 0.
4211 0.
4508 0.
2.27E-02
408
P (MB) 551.2
ALT (KM) 4.847
TEMP (C) -28.8
FROSTPOINT -32.2
TAS (M/S) 127.9
NT (N/M3) 2185682.3
TOTALS
5.29E-01
111
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

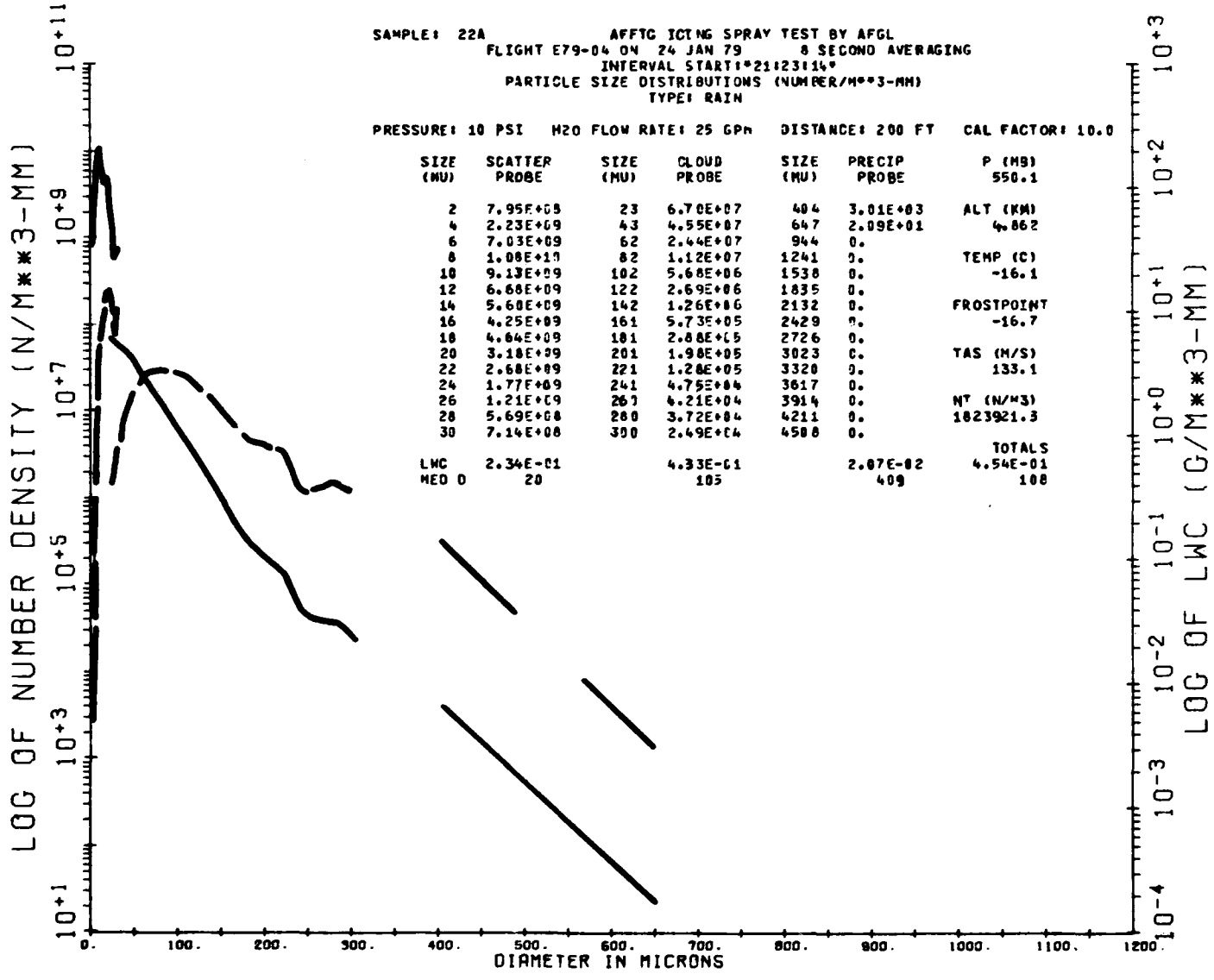

SAMPLE: 19A
ARCTIC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 8 SECOND AVERAGING
INTERVAL START: *21:18:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 11 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.9
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 549.8
2 1.20E+09 23 6.74E+07 404 4.42E+03 ALT (KM)
4 3.33E+09 43 4.77E+07 647 4.21E+01 4.866
6 8.23E+08 62 2.25E+07 944 0.
8 1.28E+10 82 1.87E+07 1241 0. TEMP (C)
10 1.25E+10 102 5.40E+06 1538 0. -17.4
12 9.92E+09 122 2.48E+06 1835 0.
14 6.71E+09 142 1.23E+06 2132 0. FROSTPOINT
16 6.25E+09 161 5.83E+05 2429 0. -18.2
18 7.04E+09 181 4.11E+05 2726 0.
20 4.60E+09 201 1.92E+05 3023 0. TAS (M/S)
22 4.14E+09 221 1.45E+05 3320 0. 132.2
24 2.63E+09 241 4.79E+04 3617 0.
26 2.13E+09 261 4.75E+04 3914 0. NT (N/M3)
28 9.93E+08 281 4.70E+04 4211 0. 1811704.7
30 1.47E+09 301 3.23E+04 4508 0.
TOTALS
LWC 3.69E-01 4.34E-01 3.08E-02 4.65E-01
MED D 21 108 413 113
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

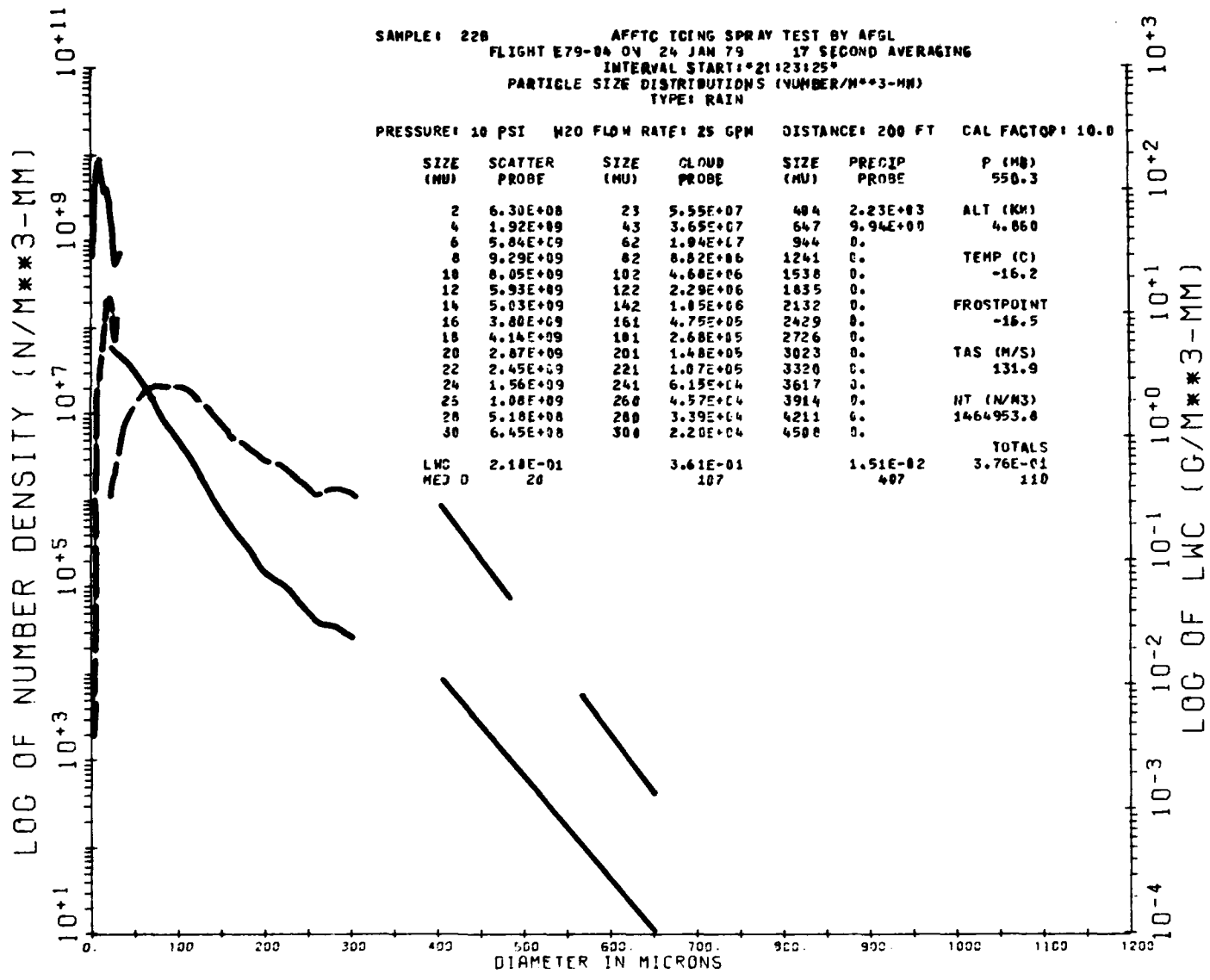

SAMPLE: 198
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-84 ON 24 JAN 79 26 SECOND AVERAGING
INTERVAL START: 21:18:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 549.5
2 1.17E+09 23 8.43E+07 404 5.68E+03 ALT (KM) 4.878
4 3.33E+09 43 6.01E+07 647 3.38E+01 TEMP (C) -17.7
6 6.67E+09 62 2.97E+07 944 0. FROSTPOINT -16.7
8 1.22E+10 82 1.39E+07 1241 0. TAS (M/S) 131.6
10 1.09E+10 102 6.72E+06 1538 0. NT (N/M3) 2322908.7
12 8.36E+09 122 3.36E+06 1835 0.
14 7.29E+09 142 1.66E+06 2132 0. TOTALS
16 5.14E+09 161 7.85E+05 2429 0. LWC 2.92E-01 5.63E-01 3.82E-02 6.01E-01
18 5.58E+09 181 4.41E+05 2726 0. MED D 21 108 408 114
20 3.64E+09 201 2.16E+05 3023 0.
22 3.22E+09 221 1.66E+05 3320 0.
24 2.02E+09 241 6.97E+04 3617 0.
26 1.62E+09 260 7.28E+04 3914 0.
28 7.57E+08 280 7.60E+04 4211 0.
30 1.12E+09 300 5.01E+04 4508 0.
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.
10+11 10+9 10+7 10+5 10+3 10+1
10+3 10+2 10+1 10+0 10-1 10-2 10-3 10-4

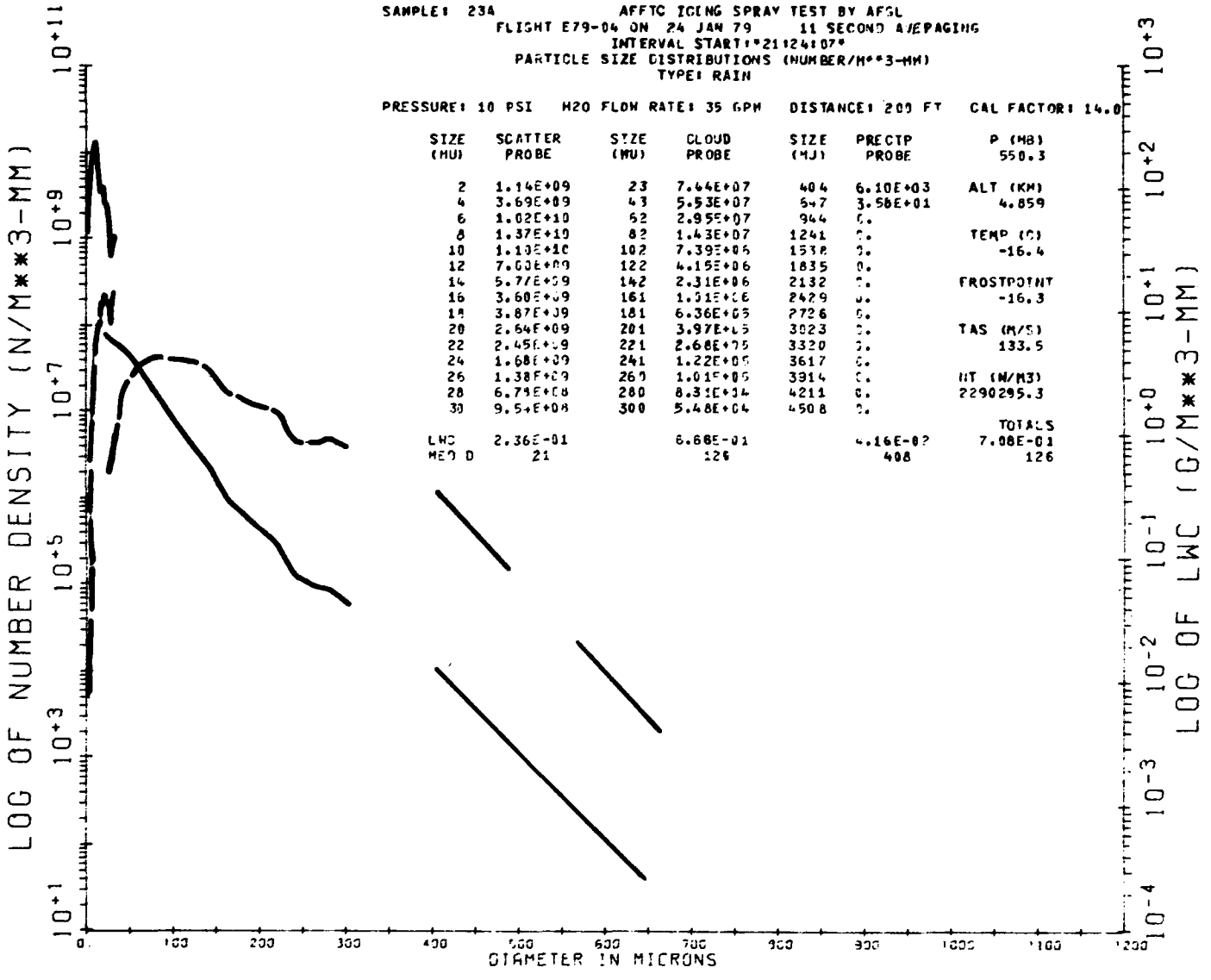

SAMPLE: 19C
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 16 SECOND AVERAGING
INTERVAL START: 21:20:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 2.30E+08 23 9.39E+07 404 3.81E+03
4 7.34E+08 43 6.26E+07 647 9.88E+00
6 2.26E+09 62 3.16E+07 944 1.03E+00
8 2.81E+09 82 1.50E+07 1241 0.
10 2.31E+09 102 7.13E+06 1536 0.
12 1.75E+09 122 3.79E+06 1835 0.
14 1.53E+09 142 1.75E+06 2132 0.
16 1.04E+09 161 8.86E+05 2429 0.
18 1.18E+09 181 5.07E+05 2726 0.
20 8.36E+08 201 3.20E+05 3023 0.
22 7.78E+08 221 2.26E+05 3320 0.
24 5.09E+08 241 1.30E+05 3617 0.
26 4.01E+08 260 9.95E+04 3914 0.
28 2.11E+08 280 7.60E+04 4211 0.
30 2.17E+08 300 4.72E+04 4508 0.
LWC 6.62E-02 6.27E-01 2.56E-02
MED D 21 112 407
P (MB) 551.3
ALT (KM) 4.845
TEMP (C) -27.9
FROSTPOINT -29.2
TAS (M/S) 128.2
NT (N/M3) 2457809.2
TOTALS 6.52E-01 115
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.

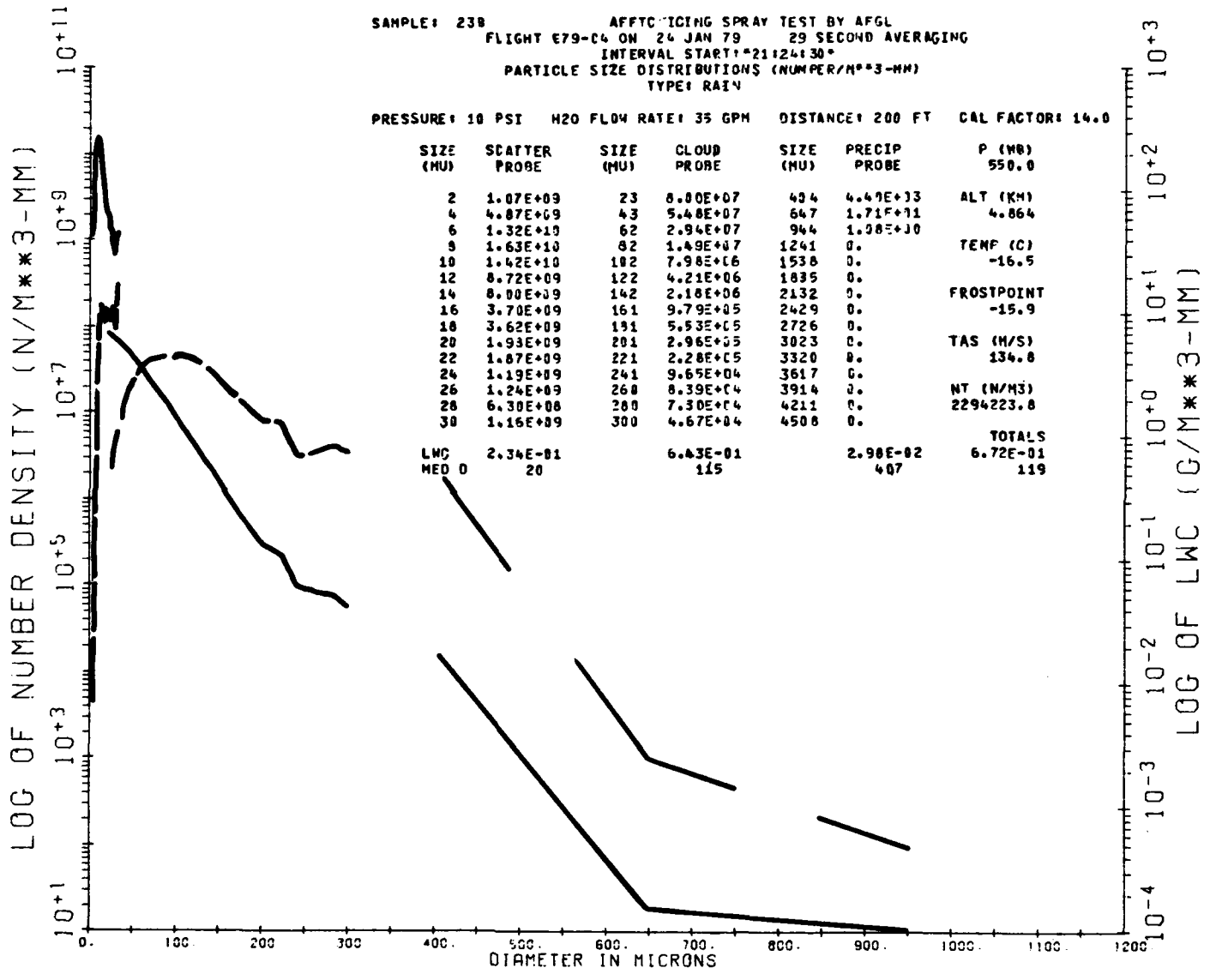

SAMPLE: 20
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 10 SECOND AVERAGING
INTERVAL START: *21:19:26*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 100 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.2
2 8.29E+08 23 5.86E+07 484 4.01E+03 ALT (KM)
4 2.42E+09 43 4.21E+07 647 1.84E+01 4.860
6 6.23E+09 62 2.29E+07 944 0.
8 9.46E+09 82 1.08E+07 1241 0. TEMP (C)
10 9.21E+09 102 5.34E+06 1538 0. -16.5
12 7.06E+09 122 2.72E+06 1835 0.
14 6.28E+09 142 1.37E+06 2132 0. FROSTPOINT
16 4.49E+09 161 6.14E+05 2429 0. -14.7
18 4.97E+09 181 3.55E+05 2726 0.
20 3.27E+09 201 1.88E+05 3023 0. TAS (M/S)
22 2.88E+09 221 1.16E+05 3320 0. 132.0
24 1.79E+09 241 1.01E+05 3617 0.
26 1.41E+09 260 7.84E+04 3914 0. NT (N/M3)
28 6.70E+08 280 6.10E+04 4211 0. 1716805.9
30 1.06E+09 300 3.95E+04 4508 0.
TOTALS
LWC 2.58E-01 4.51E-01 2.71E-02 4.78E-01
MED D 21 112 407 117
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.
10+11 10+9 10+7 10+5 10+3 10+1
10+3 10+2 10+1 10+0 10-1 10-2 10-3 10-4


SAMPLE: 21
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 18 SECOND AVERAGING
INTERVAL START: *21:21:38*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 200 FT CAL FACTOR: 6.0
SIZE (MU) SCATTER PROBE
2 7.58E+08
4 2.27E+09
6 8.25E+09
8 1.06E+10
10 7.84E+09
12 5.68E+09
14 4.64E+09
16 3.28E+09
18 3.39E+09
20 2.09E+09
22 1.55E+09
24 9.02E+08
26 5.83E+08
28 2.98E+08
30 3.78E+08
LWC 1.54E-01
MED D 19
SIZE (MU) CLOUD PROBE
23 2.53E+07
43 1.88E+07
62 8.73E+06
82 4.06E+06
102 2.02E+06
122 9.25E+05
142 4.25E+05
161 1.72E+05
181 1.08E+05
201 6.30E+04
221 3.81E+04
241 2.89E+04
260 1.48E+04
280 7.63E+03
300 5.26E+03
1.53E-01
102
SIZE (MU) PRECIP PROBE
404 7.42E+12
647 6.76E+10
944 0.
1241 0.
1538 0.
1835 0.
2132 0.
2429 0.
2726 0.
3023 0.
3320 0.
3617 0.
3914 0.
4211 0.
4508 0.
5.16E-03
410
P (MB)
550.0
ALT (KM)
4.863
TEMP (C)
-16.2
FROSTPOINT
-18.6
TAS (M/S)
132.8
NT (N/M3)
701950.6
TOTALS
1.58E-01
104
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0.
100.
200
300.
400.
500.
600.
700.
800.
900.
1000.
1100.
1200.


SAMPLE: 22A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 8 SECOND AVERAGING
INTERVAL START: 21:23:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 25 GPm DISTANCE: 200 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 7.95E+08 23 6.70E+07 404 3.01E+03
4 2.23E+09 43 4.55E+07 647 2.09E+01
6 7.03E+09 62 2.44E+07 944 0.
8 1.08E+10 82 1.12E+07 1241 0.
10 9.13E+09 102 5.68E+06 1538 0.
12 6.68E+09 122 2.69E+06 1835 0.
14 5.60E+09 142 1.26E+06 2132 0.
16 4.25E+09 161 5.73E+05 2429 0.
18 4.64E+09 181 2.88E+05 2726 0.
20 3.18E+09 201 1.98E+05 3023 0.
22 2.68E+09 221 1.28E+05 3320 0.
24 1.77E+09 241 4.75E+04 3617 0.
26 1.21E+09 261 4.21E+04 3914 0.
28 5.69E+08 280 3.72E+04 4211 0.
30 7.14E+08 300 2.49E+04 4508 0.
LWC 2.34E-01 4.33E-01 2.07E-02 4.54E-01
MED D 20 105 409 108
P (MB) 550.1
ALT (KM) 4.862
TEMP (C) -16.1
FROSTPOINT -16.7
TAS (M/S) 133.1
NT (N/M3) 1823921.3
TOTALS
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.
10+11 10+9 10+7 10+5 10+3 10+1
10+3 10+2 10+1 10+0 10-1 10-2 10-3 10-4


SAMPLE: 228
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 17 SECOND AVERAGING
INTERVAL START: 21:23:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 200 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.3
2 6.30E+08 23 5.55E+07 404 2.23E+03 ALT (KM)
4 1.92E+09 43 3.65E+07 647 9.94E+00 4.860
6 5.84E+09 62 1.04E+07 944 0. TEMP (C)
8 9.29E+09 82 8.82E+06 1241 0. -16.2
10 8.05E+09 102 4.60E+06 1538 0.
12 5.93E+09 122 2.29E+06 1835 0. FROSTPOINT
14 5.03E+09 142 1.05E+06 2132 0. -16.5
16 3.80E+09 161 4.75E+05 2429 0.
18 4.14E+09 181 2.68E+05 2726 0. TAS (M/S)
20 2.87E+09 201 1.48E+05 3023 0. 131.9
22 2.45E+09 221 1.07E+05 3320 0.
24 1.56E+09 241 6.15E+04 3617 0. NT (N/M3)
25 1.08E+09 260 4.57E+04 3914 0. 1464953.8
28 5.18E+08 280 3.39E+04 4211 0.
30 6.45E+08 300 2.20E+04 4508 0. TOTALS
LWC 2.18E-01 3.61E-01 1.51E-02 3.76E-01
MED D 20 107 407 110
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100 200 300 400 500 600. 700. 800. 900 1000 1100 1200
10^{+11} 10^{+9} 10^{+7} 10^{+5} 10^{+3} 10^{+1}
10^{+3} 10^{+2} 10^{+1} 10^{+0} 10^{-1} 10^{-2} 10^{-3} 10^{-4}


SAMPLE: 234
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 11 SECOND AVERAGING
INTERVAL START: *21:24:07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE
2 1.14E+09
4 3.69E+09
6 1.02E+10
8 1.37E+10
10 1.10E+10
12 7.00E+09
14 5.77E+09
16 3.60E+09
18 3.87E+09
20 2.64E+09
22 2.45E+09
24 1.68E+09
26 1.38E+09
28 6.79E+08
30 9.54E+08
LWC 2.36E-01
MED D 21
SIZE (MU) CLOUD PROBE
23 7.44E+07
43 5.53E+07
62 2.95E+07
82 1.43E+07
102 7.39E+06
122 4.15E+06
142 2.31E+06
161 1.51E+06
181 6.36E+05
201 3.97E+05
221 2.68E+05
241 1.22E+05
260 1.01E+05
280 8.31E+04
300 5.48E+04
6.68E-01
126
SIZE (MU) PRECIP PROBE
404 6.10E+03
647 3.58E+01
944 0.
1241 0.
1538 0.
1835 0.
2132 0.
2429 0.
2726 0.
3023 0.
3320 0.
3617 0.
3914 0.
4211 0.
4508 0.
4.16E-02
408
P (MB) 550.3
ALT (KM) 4.859
TEMP (C) -16.4
FROSTPOINT -16.3
TAS (M/S) 133.5
NT (N/M3) 2290295.3
TOTALS
7.08E-01
126
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
10+11
10+9
10+7
10+5
10+3
10+1
10+3
10+2
10+1
10+0
10-1
10-2
10-3
10-4

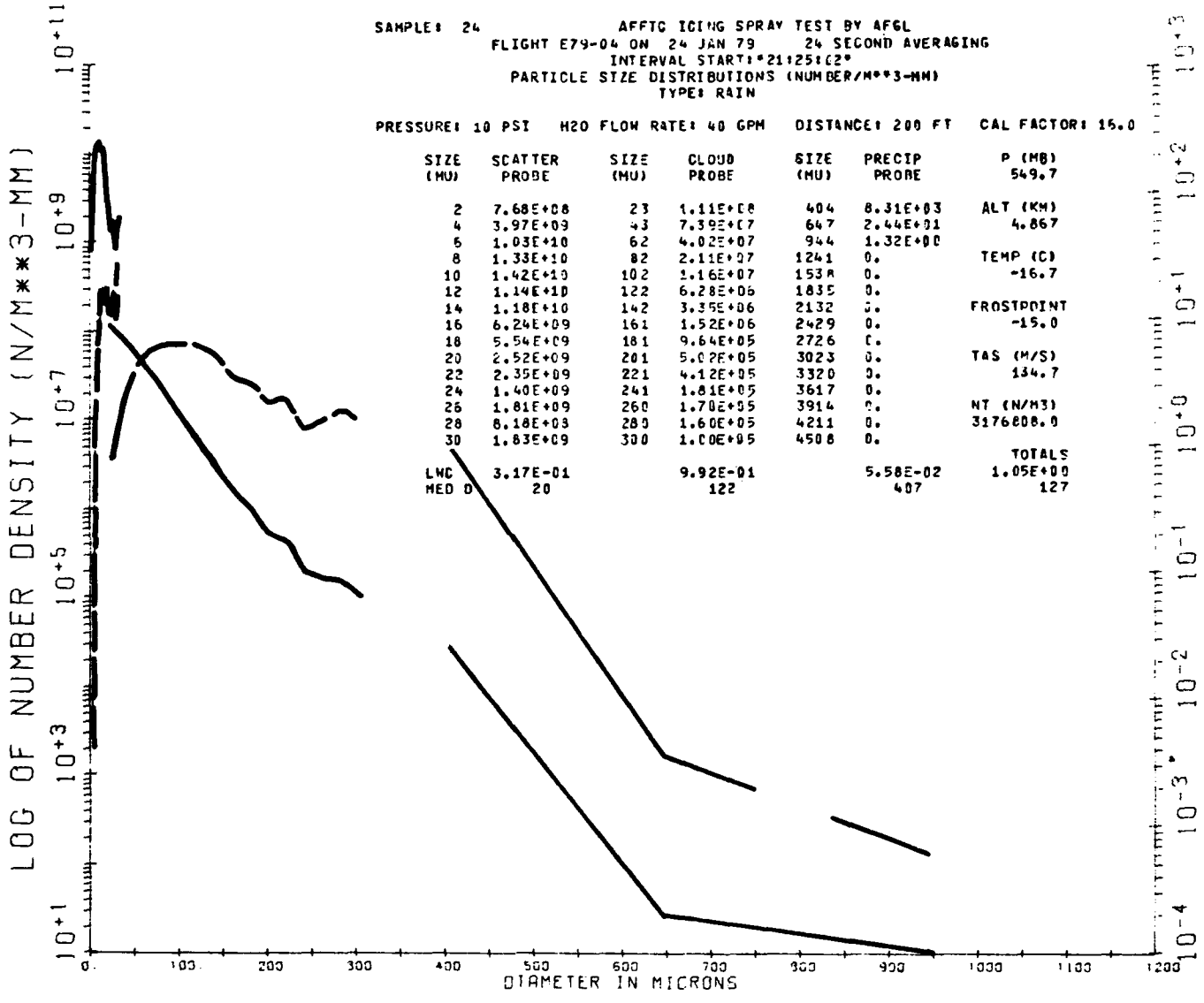

SAMPLE: 238
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 29 SECOND AVERAGING
INTERVAL START: 21:24:30
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.0
2 1.07E+09 23 8.00E+07 404 4.49E+03 ALT (KM)
4 4.87E+09 43 5.48E+07 647 1.71E+01 4.864
6 1.32E+10 62 2.94E+07 944 1.08E+00
8 1.63E+10 82 1.49E+07 1241 0. TEMP (C)
10 1.42E+10 102 7.98E+06 1538 0. -16.5
12 8.72E+09 122 4.21E+06 1835 0.
14 8.00E+09 142 2.18E+06 2132 0. FROSTPOINT
16 3.70E+09 161 9.79E+05 2429 0. -15.9
18 3.62E+09 181 5.53E+05 2726 0.
20 1.93E+09 201 2.96E+05 3023 0. TAS (M/S)
22 1.87E+09 221 2.28E+05 3320 0. 134.8
24 1.19E+09 241 9.65E+04 3617 0.
26 1.24E+09 260 8.39E+04 3914 0. NT (N/M3)
28 6.30E+08 280 7.30E+04 4211 0. 2294223.8
30 1.16E+09 300 4.67E+04 4508 0.
TOTALS
LWC 2.34E-01 6.43E-01 2.98E-02 6.72E-01
MED D 20 115 407 119
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.
10+11 10+9 10+7 10+5 10+3 10+1
10+3 10+2 10+1 10+0 10-1 10-2 10-3 10-4

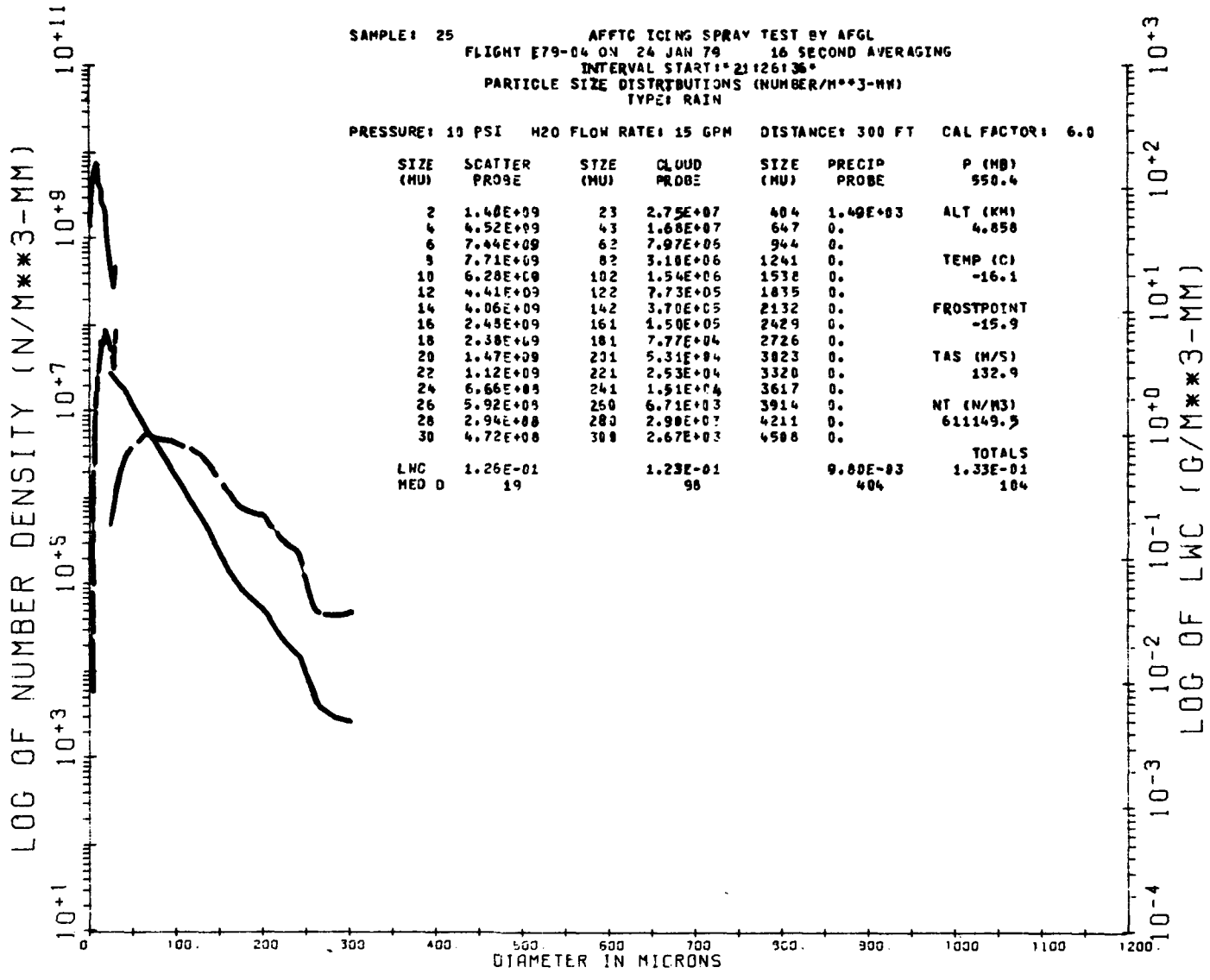
SAMPLE: 24

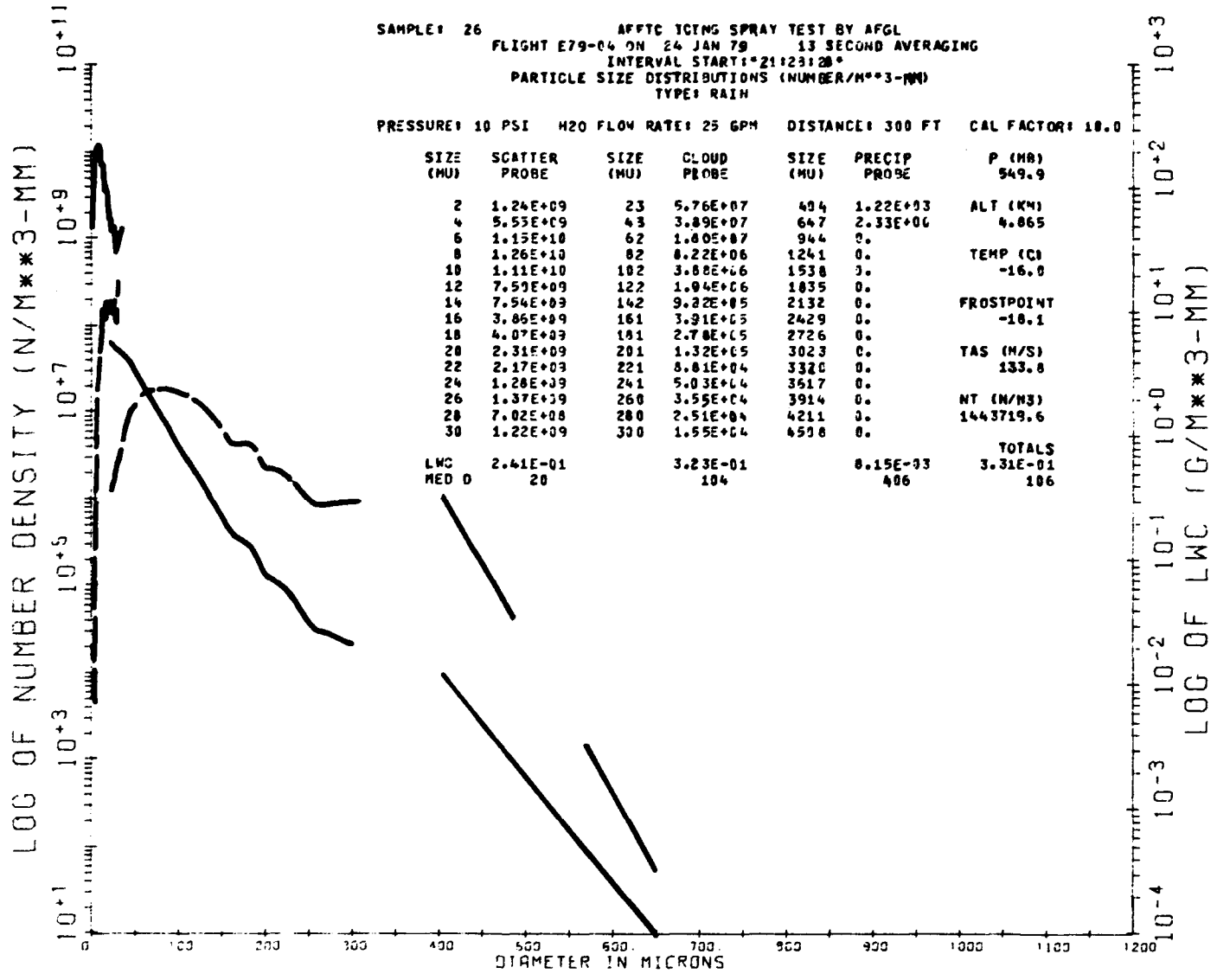
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 24 SECOND AVERAGING
INTERVAL START: 21:25:02
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

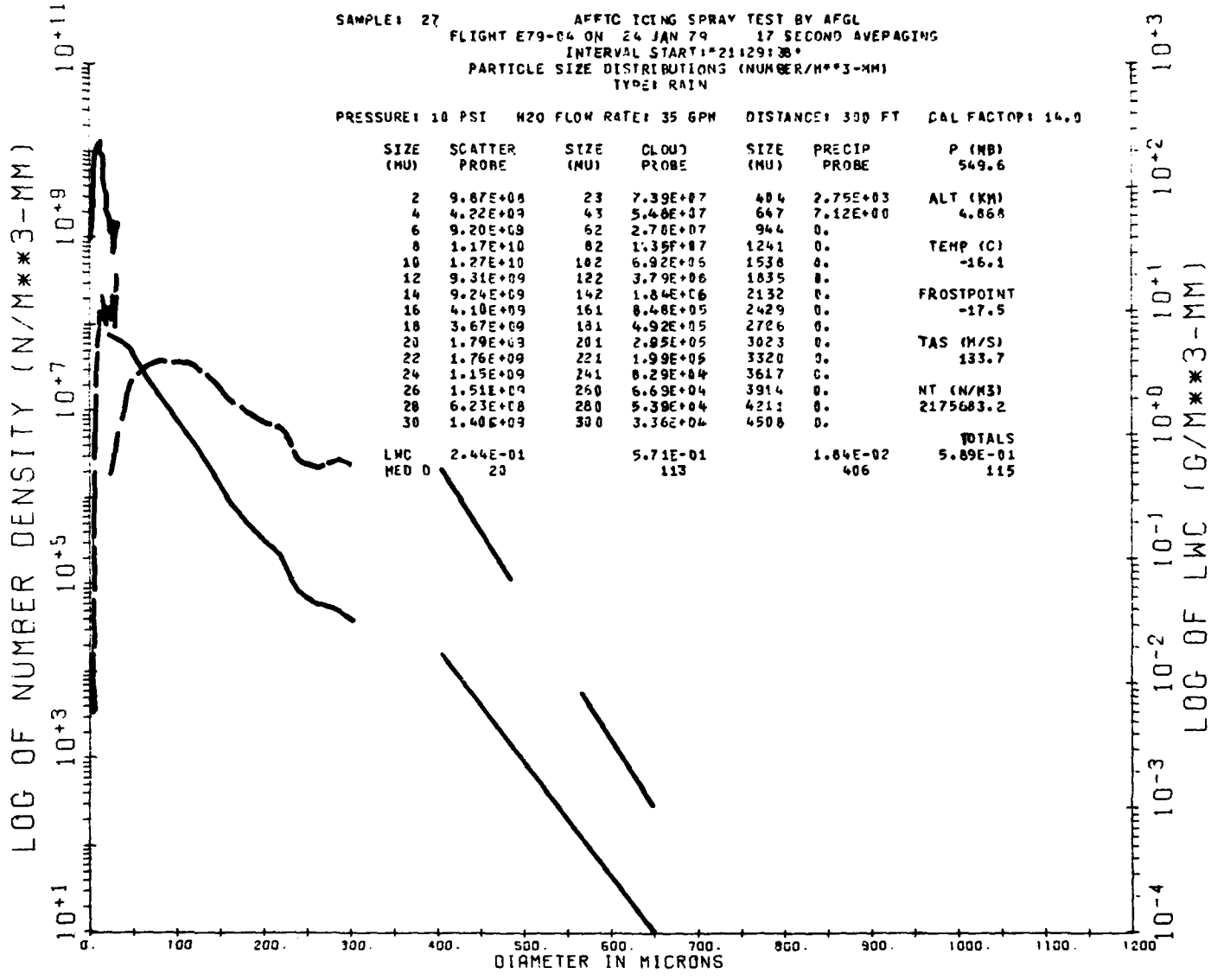
PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 15.0

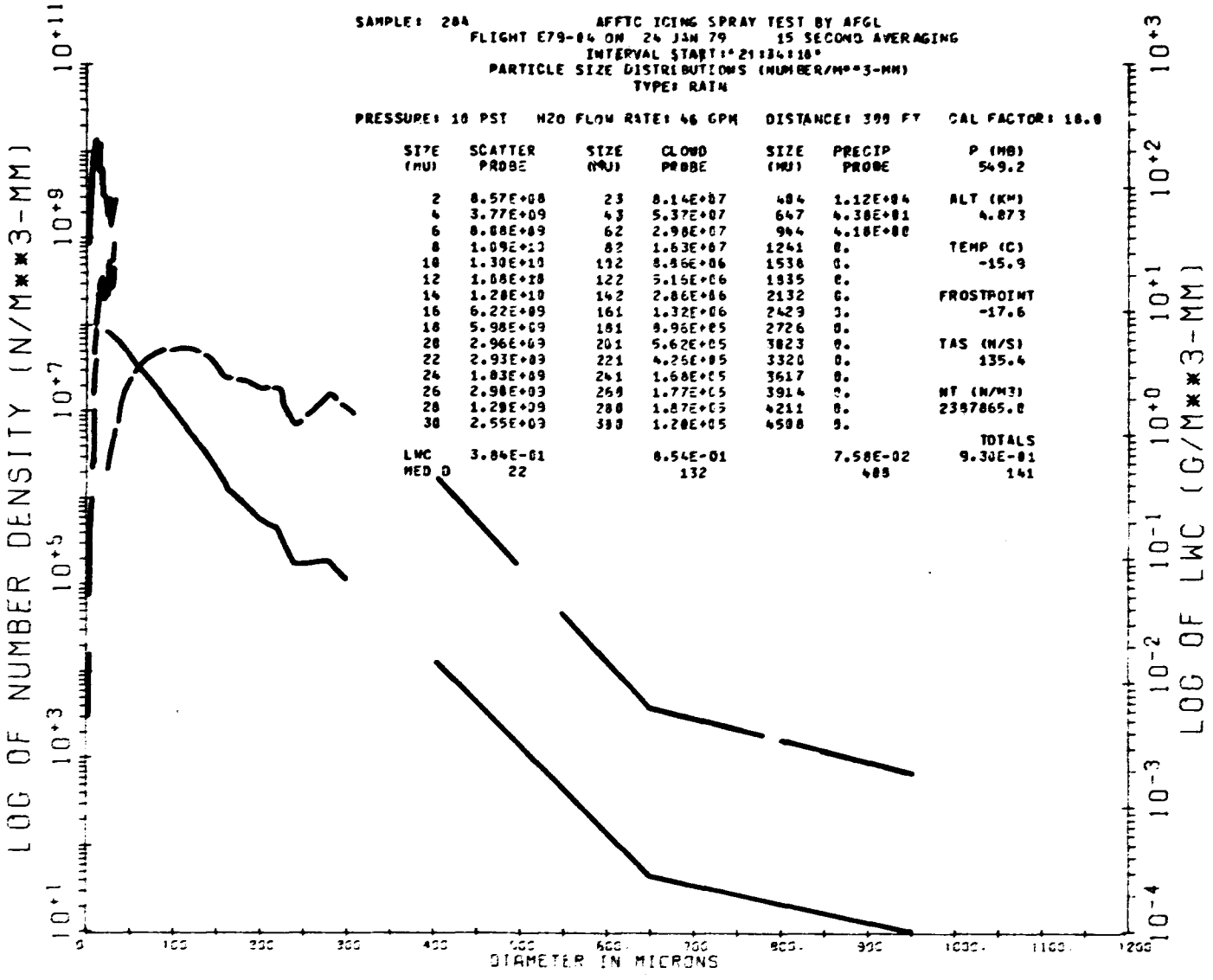
SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	7.68E+08	23	1.11E+08	404	8.31E+03	ALT (KM)
4	3.97E+09	43	7.39E+07	647	2.44E+01	4.867
6	1.03E+10	62	4.02E+07	944	1.32E+00	
8	1.33E+10	82	2.11E+07	1241	0.	TEMP (C)
10	1.42E+10	102	1.16E+07	1538	0.	-16.7
12	1.14E+10	122	6.28E+06	1835	0.	
14	1.18E+10	142	3.35E+06	2132	0.	FROSTPOINT
16	6.24E+09	161	1.52E+06	2429	0.	-15.0
18	5.54E+09	181	9.64E+05	2726	0.	
20	2.52E+09	201	5.02E+05	3023	0.	TAS (M/S)
22	2.35E+09	221	4.12E+05	3320	0.	134.7
24	1.40E+09	241	1.81E+05	3617	0.	
26	1.81E+09	260	1.70E+05	3914	0.	NT (N/M3)
28	8.18E+08	280	1.60E+05	4211	0.	3176808.0
30	1.83E+09	300	1.00E+05	4508	0.	
						TOTALS
LWC	3.17E-01		9.92E-01		5.58E-02	1.05E+00
MED D	20		122		407	127



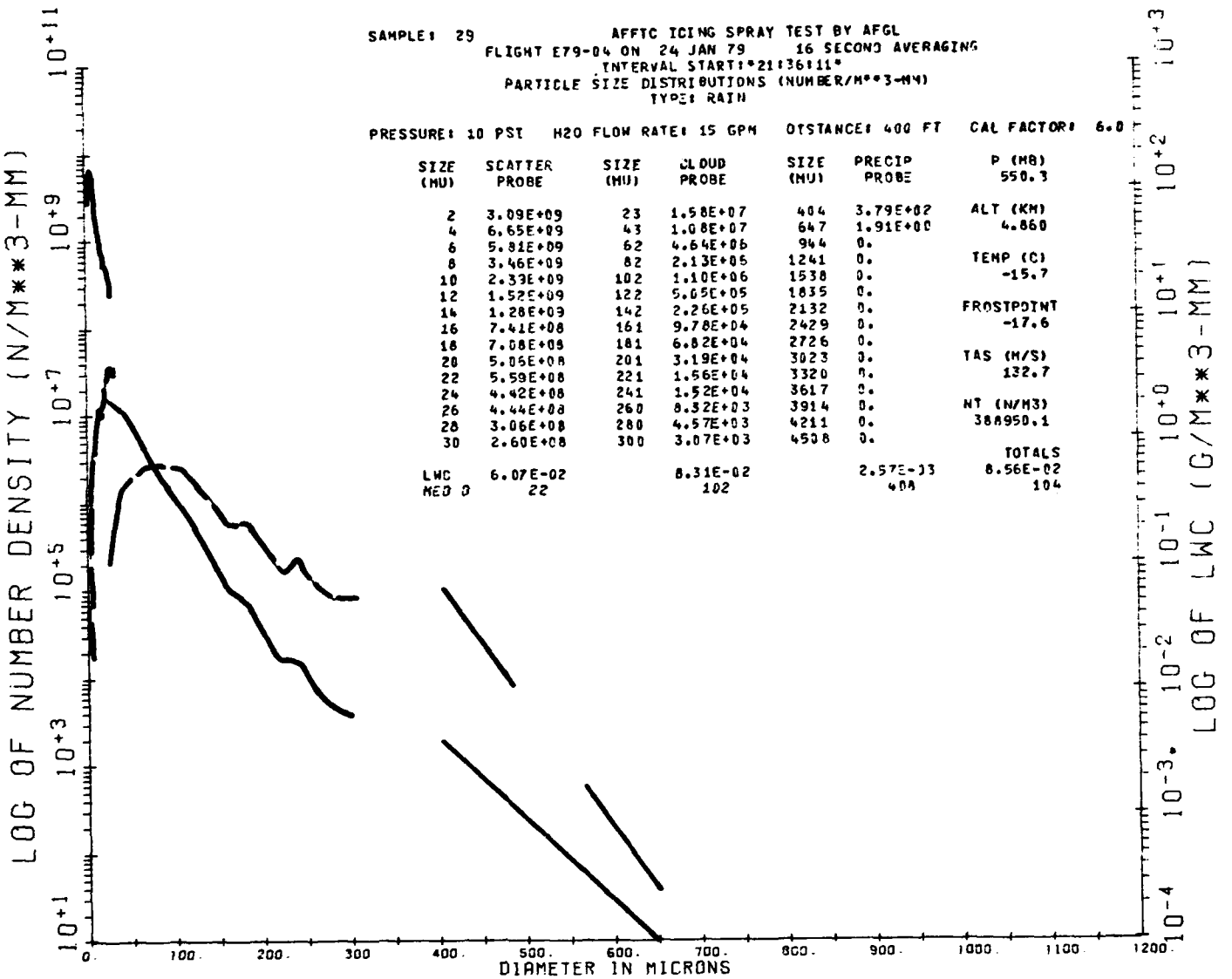

SAMPLE: 25
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 16 SECOND AVERAGING
INTERVAL START: 21:26:36
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 1.40E+09 23 2.75E+07 404 1.49E+03
4 4.52E+09 43 1.68E+07 647 0.
6 7.44E+09 62 7.97E+05 944 0.
8 7.71E+09 82 3.10E+06 1241 0.
10 6.28E+09 102 1.54E+06 1538 0.
12 4.41E+09 122 7.73E+05 1835 0.
14 4.06E+09 142 3.70E+05 2132 0.
16 2.48E+09 161 1.50E+05 2429 0.
18 2.38E+09 181 7.77E+04 2726 0.
20 1.47E+09 201 5.31E+04 3023 0.
22 1.12E+09 221 2.53E+04 3320 0.
24 6.66E+08 241 1.51E+04 3617 0.
26 5.92E+08 260 6.71E+03 3914 0.
28 2.94E+08 280 2.90E+03 4211 0.
30 4.72E+08 300 2.67E+03 4508 0.
LWC 1.26E-01 1.23E-01 9.80E-03 TOTALS 1.33E-01
MED D 19 98 404 104
P (MB) 550.4
ALT (KM) 4.858
TEMP (C) -16.1
FROSTPOINT -15.9
TAS (M/S) 132.9
NT (N/M3) 611149.5
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0 100 200 300 400 500 600 700 800 900 1000 1100 1200
10+1 10+3 10+5 10+7 10+9 10+11
10-4 10-3 10-2 10-1 10+0 10+1 10+2 10+3

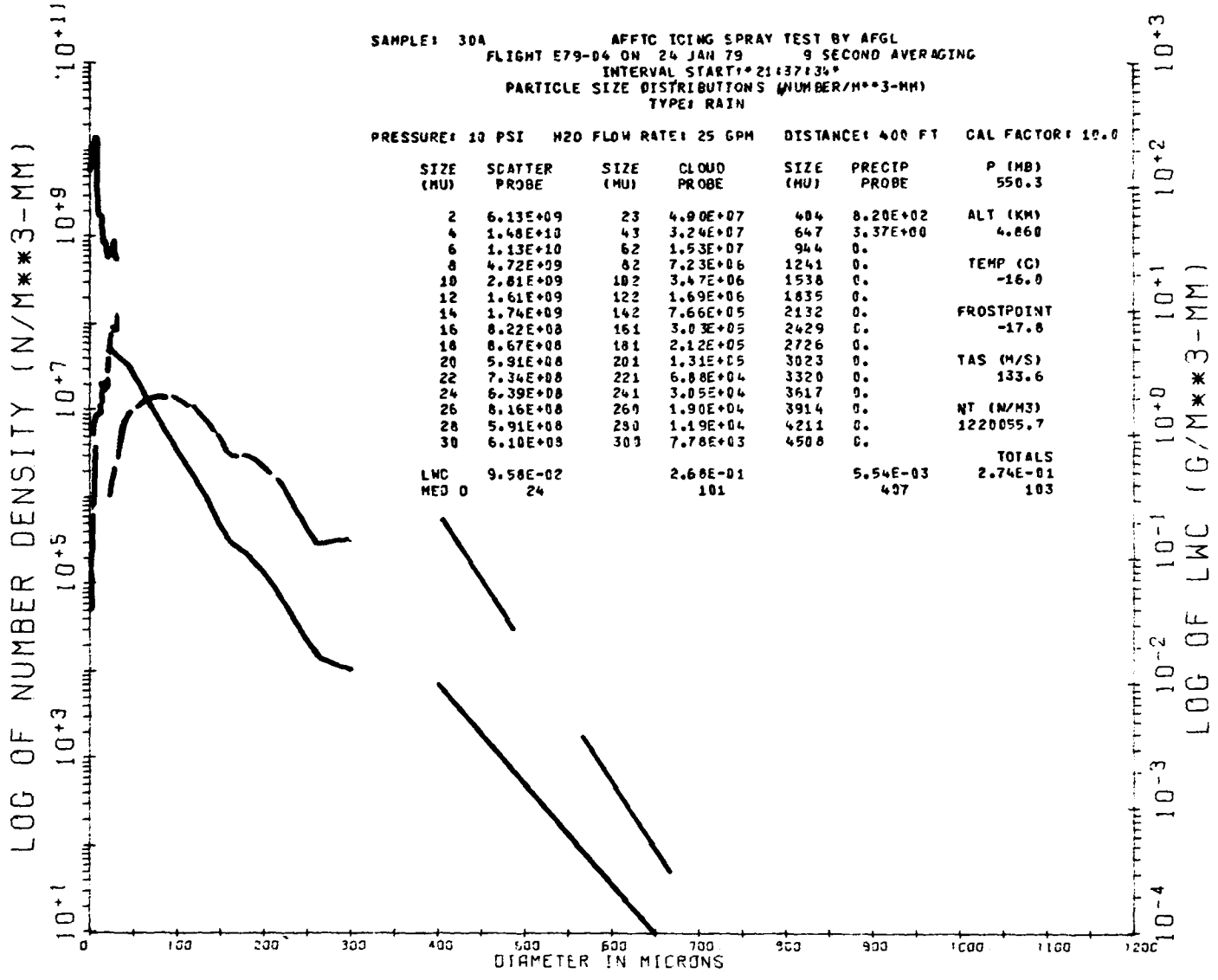

SAMPLE: 26
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 13 SECOND AVERAGING
INTERVAL START: *21:23:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 18.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 549.9
2 1.24E+09 23 5.76E+07 404 1.22E+03 ALT (KM)
4 5.53E+09 43 3.89E+07 647 2.33E+00 4.865
6 1.15E+10 62 1.60E+07 944 0.
8 1.26E+10 82 8.22E+06 1241 0. TEMP (C)
10 1.11E+10 102 3.88E+06 1538 0. -16.0
12 7.59E+09 122 1.94E+06 1835 0.
14 7.54E+09 142 9.22E+05 2132 0. FROSTPOINT
16 3.86E+09 161 3.91E+05 2429 0. -18.1
18 4.07E+09 181 2.78E+05 2726 0.
20 2.31E+09 201 1.32E+05 3023 0. TAS (M/S)
22 2.17E+09 221 8.81E+04 3320 0. 133.8
24 1.28E+09 241 5.03E+04 3617 0.
26 1.37E+09 260 3.55E+04 3914 0. NT (N/M3)
28 7.02E+08 280 2.51E+04 4211 0. 1443719.6
30 1.22E+09 300 1.55E+04 4508 0.
TOTALS
LWC 2.41E-01 3.23E-01 8.15E-03 3.31E-01
MED D 20 104 406 106
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

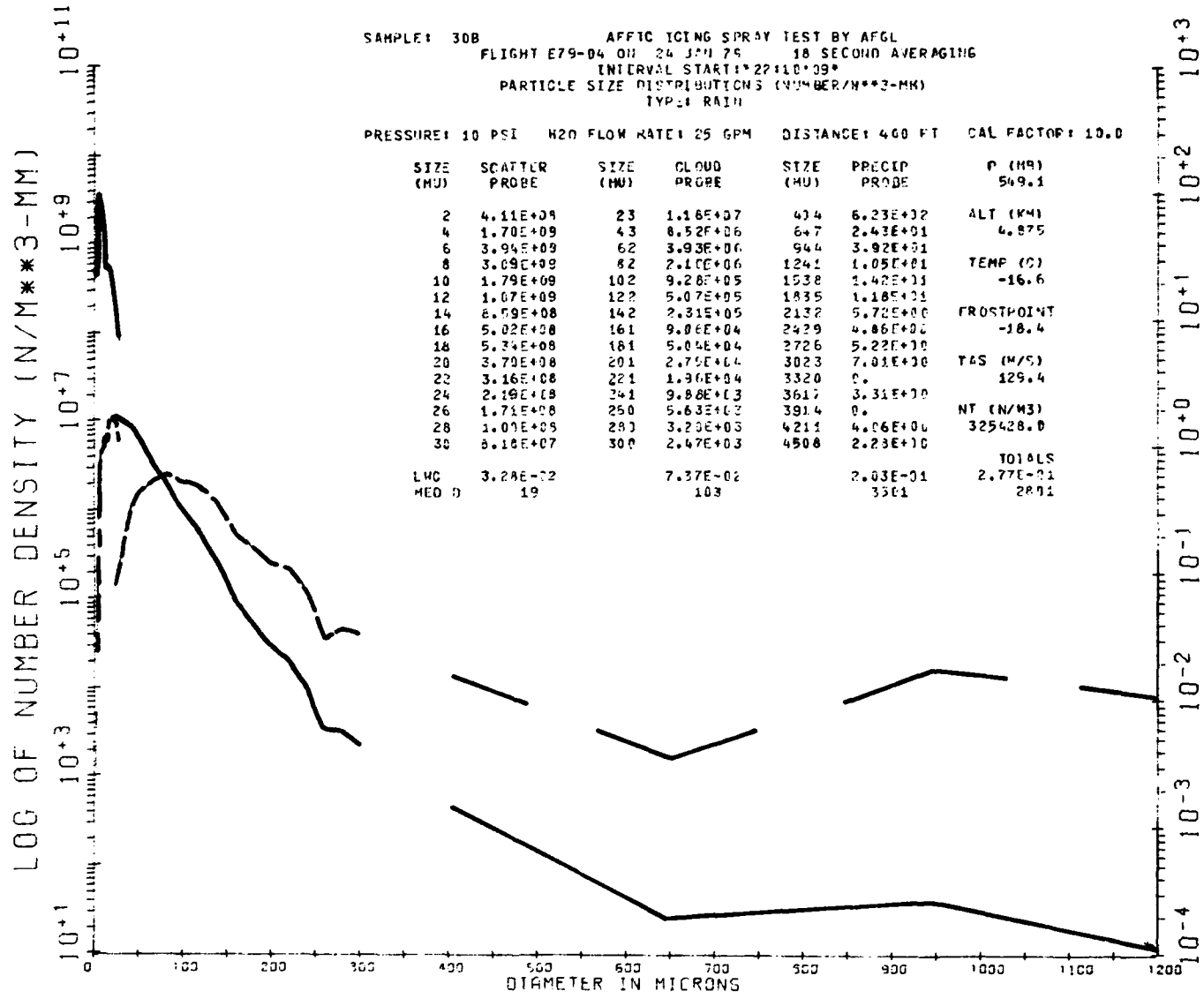

SAMPLE: 27
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 17 SECOND AVERAGING
INTERVAL START: 21:29:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 549.6
2 9.87E+08 23 7.39E+07 404 2.75E+03 ALT (KM) 4.868
4 4.22E+09 43 5.46E+07 647 7.12E+00
6 9.20E+09 62 2.70E+07 944 0.
8 1.17E+10 82 1.35E+07 1241 0. TEMP (C) -16.1
10 1.27E+10 102 6.92E+06 1538 0.
12 9.31E+09 122 3.79E+06 1835 0. FROSTPOINT -17.5
14 9.24E+09 142 1.84E+06 2132 0.
16 4.10E+09 161 8.48E+05 2429 0.
18 3.67E+09 181 4.92E+05 2726 0. TAS (M/S) 133.7
20 1.79E+09 201 2.85E+05 3023 0.
22 1.76E+09 221 1.99E+05 3320 0.
24 1.15E+09 241 8.29E+04 3617 0. NT (N/M3) 2175683.2
26 1.51E+09 260 6.69E+04 3914 0.
28 6.23E+08 280 5.39E+04 4211 0.
30 1.40E+09 300 3.36E+04 4508 0.
TOTALS
LWC 2.44E-01 5.71E-01 1.84E-02 5.89E-01
MED D 20 113 406 115
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200

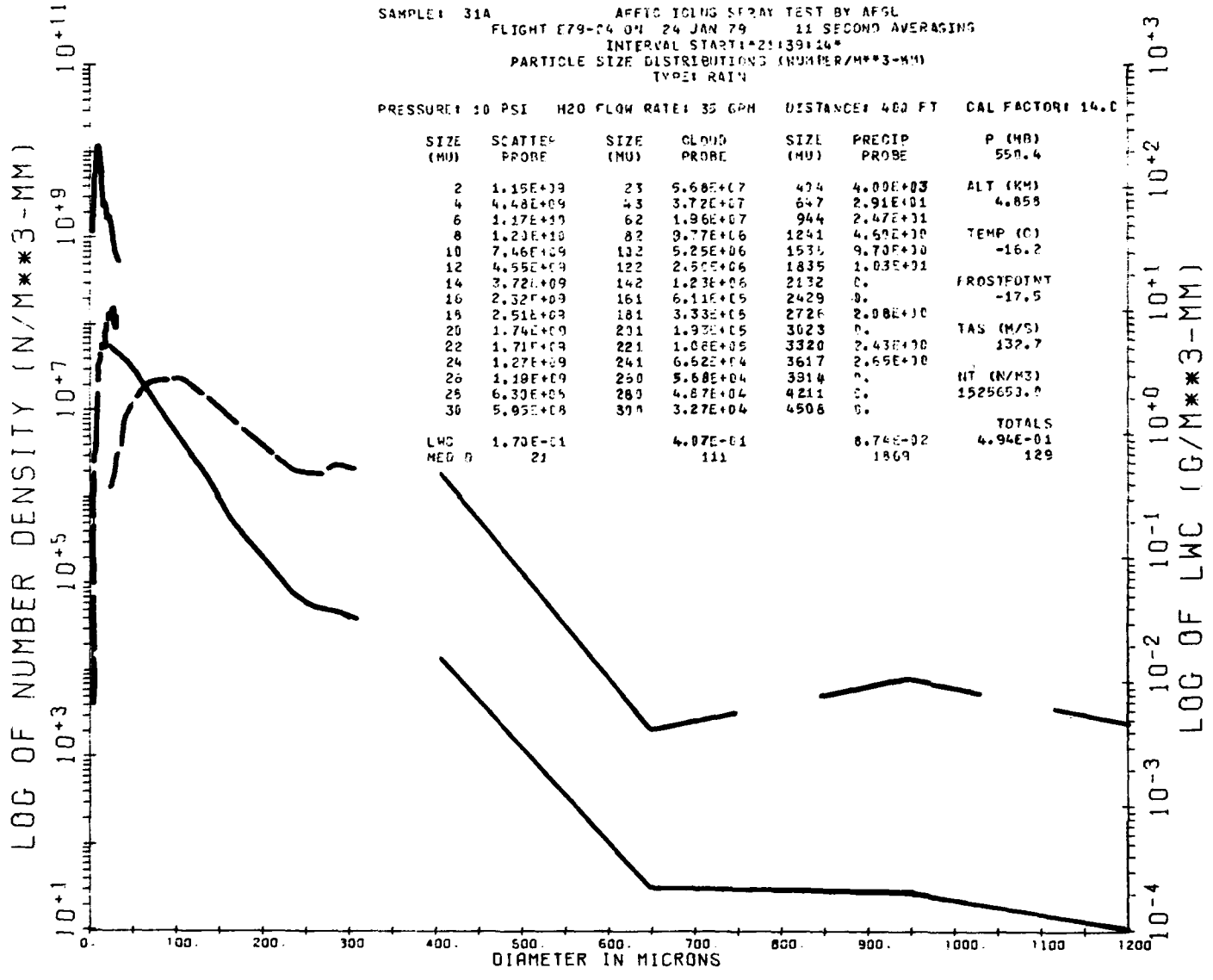

SAMPLE: 284
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 15 SECOND AVERAGING
INTERVAL START: 21:34:18
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 399 FT CAL FACTOR: 18.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 8.57E+08 23 8.14E+07 484 1.12E+04
4 3.77E+09 43 5.37E+07 647 4.38E+01
6 8.88E+09 62 2.98E+07 944 4.18E+00
8 1.09E+10 82 1.63E+07 1241 0.
10 1.30E+10 102 8.86E+06 1538 0.
12 1.08E+10 122 5.15E+06 1935 0.
14 1.28E+10 142 2.86E+06 2132 0.
16 6.22E+09 161 1.32E+06 2429 0.
18 5.98E+09 181 8.96E+05 2726 0.
20 2.96E+09 201 5.62E+05 3023 0.
22 2.93E+09 221 4.25E+05 3320 0.
24 1.83E+09 241 1.68E+05 3617 0.
26 2.98E+08 259 1.77E+05 3914 0.
28 1.29E+09 280 1.87E+05 4211 0.
30 2.55E+08 300 1.20E+05 4508 0.
LWC 3.84E-01 8.54E-01 7.58E-02
MED D 22 132 485
P (MB) 549.2
ALT (KM) 4.873
TEMP (C) -15.9
FROSTPOINT -17.6
TAS (M/S) 135.4
WT (N/M3) 2387865.0
TOTALS 9.30E-01 141
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

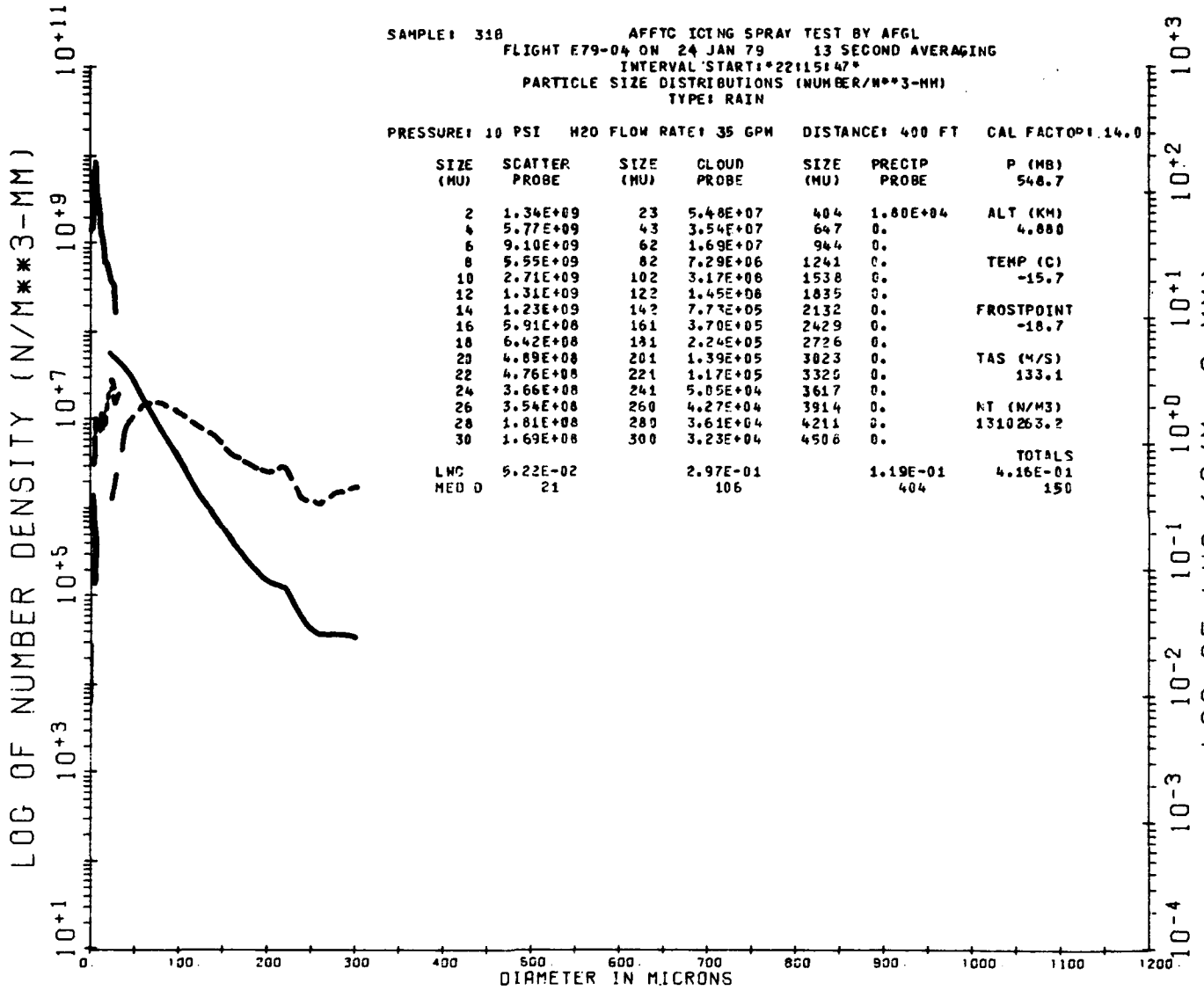
SAMPLE# 288
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79
25 SECOND AVERAGING
INTERVAL START#*21144106*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN
PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 1.38E+09 23 8.01E+07 404 4.18E+03
4 6.96E+08 43 5.58E+07 647 3.65E+00
6 1.23E+10 62 3.17E+07 944 2.54E+00
8 1.07E+10 82 1.67E+07 1241 0.
10 8.21E+09 102 9.32E+06 1538 2.14E+00
12 4.41E+09 122 5.24E+06 1835 1.51E+00
14 4.62E+09 142 2.71E+06 2132 0.
16 1.86E+09 161 1.33E+06 2429 0.
18 2.07E+09 181 8.64E+05 2726 0.
20 1.33E+09 201 4.84E+05 3023 0.
22 1.47E+09 221 3.58E+05 3320 0.
24 1.11E+09 241 1.85E+05 3617 0.
25 1.33E+09 260 1.56E+05 3914 1.28E+00
28 7.51E+08 280 1.35E+05 4211 0.
30 9.75E+08 300 7.75E+04 4508 0.
LWC 1.76E-01 8.24E-01 4.25E-02
MED D 22 126 457
P (MB) 549.5
ALT (KM) 4.869
TEMP (C) -16.5
FROSTPOINT -18.1
TAS (M/S) 132.9
NT (N/M3) 2477113.0
TOTALS 8.66E-01 130
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

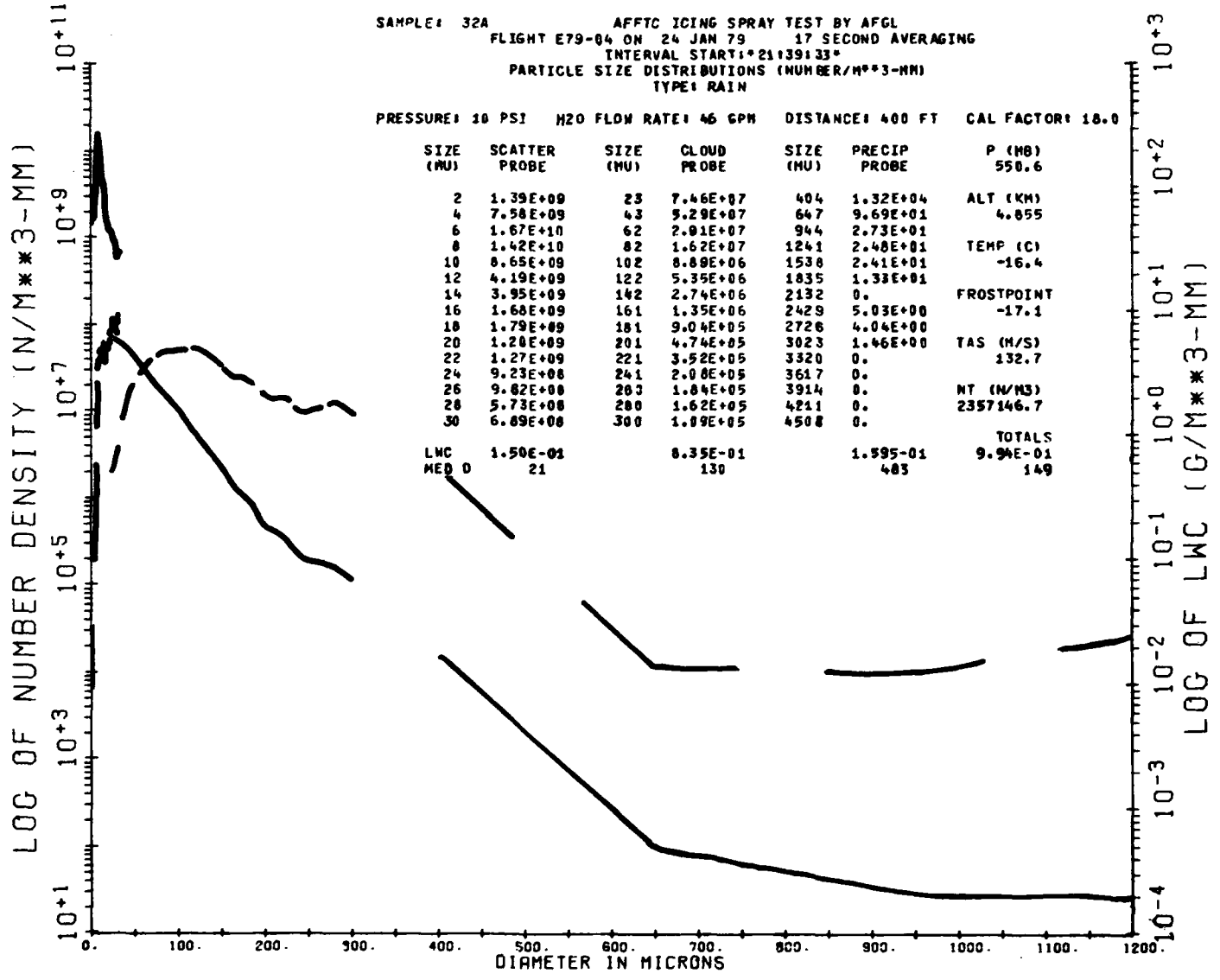

SAMPLE: 29
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 16 SECOND AVERAGING
INTERVAL START: *21:36:11*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 3.09E+09 23 1.58E+07 404 3.79E+02
4 6.65E+09 43 1.08E+07 647 1.91E+00
6 5.81E+09 62 4.64E+06 944 0.
8 3.46E+09 82 2.13E+06 1241 0.
10 2.33E+09 102 1.10E+06 1538 0.
12 1.52E+09 122 5.65E+05 1835 0.
14 1.28E+09 142 2.26E+05 2132 0.
16 7.41E+08 161 9.78E+04 2429 0.
18 7.08E+08 181 6.82E+04 2726 0.
20 5.05E+08 201 3.19E+04 3023 0.
22 5.59E+08 221 1.56E+04 3320 0.
24 4.42E+08 241 1.52E+04 3617 0.
26 4.44E+08 260 8.32E+03 3914 0.
28 3.06E+08 280 4.57E+03 4211 0.
30 2.60E+08 300 3.07E+03 4508 0.
LWC 6.07E-02 8.31E-02 2.57E-03
MED D 22 102 404
P (MB) 550.3
ALT (KM) 4.860
TEMP (C) -15.7
FROSTPOINT -17.6
TAS (M/S) 132.7
NT (N/M3) 388950.1
TOTALS 8.56E-02 104
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.
10^{+11} 10^{+9} 10^{+7} 10^{+5} 10^{+3} 10^{+1}
10^{+3} 10^{+2} 10^{+1} 10^{+0} 10^{-1} 10^{-2} 10^{-3} 10^{-4}

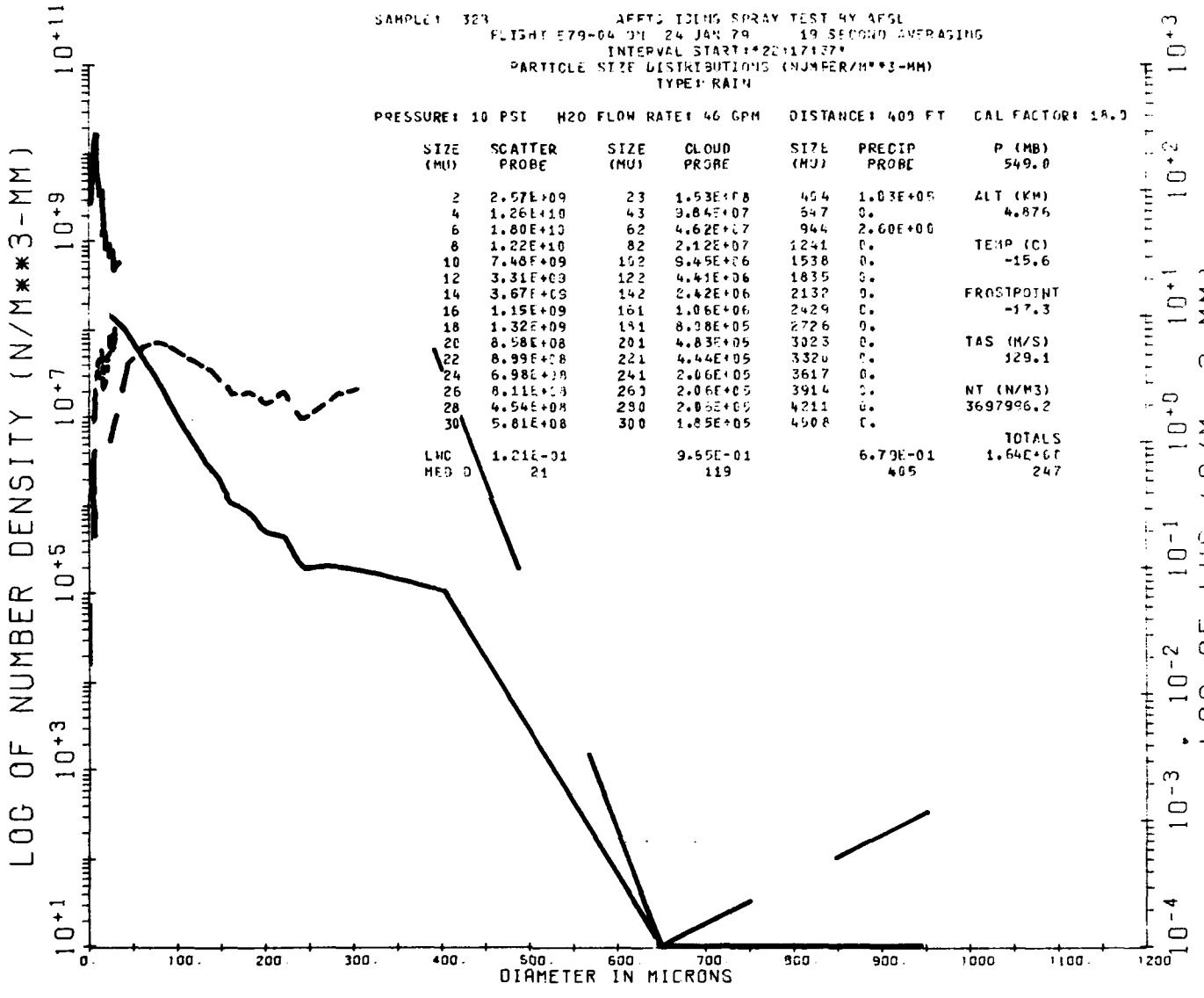

SAMPLE: 30A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 9 SECOND AVERAGING
INTERVAL START: 21:37:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 6.13E+09 23 4.90E+07 404 8.20E+02
4 1.48E+10 43 3.24E+07 647 3.37E+00
6 1.13E+10 62 1.53E+07 944 0.
8 4.72E+09 82 7.23E+06 1241 0.
10 2.81E+09 102 3.47E+06 1538 0.
12 1.61E+09 122 1.69E+06 1835 0.
14 1.74E+09 142 7.66E+05 2132 0.
16 8.22E+08 161 3.03E+05 2429 0.
18 8.67E+08 181 2.12E+05 2726 0.
20 5.91E+08 201 1.31E+05 3023 0.
22 7.34E+08 221 6.88E+04 3320 0.
24 6.39E+08 241 3.05E+04 3617 0.
26 8.16E+08 260 1.90E+04 3914 0.
28 5.91E+08 280 1.19E+04 4211 0.
30 6.10E+08 303 7.78E+03 4508 0.
LWC 9.58E-02 2.68E-01 5.54E-03
MED D 24 101 407
P (MB) 550.3
ALT (KM) 4.860
TEMP (C) -16.0
FROSTPOINT -17.8
TAS (M/S) 133.6
NT (N/M3) 1220055.7
TOTALS 2.74E-01 103
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

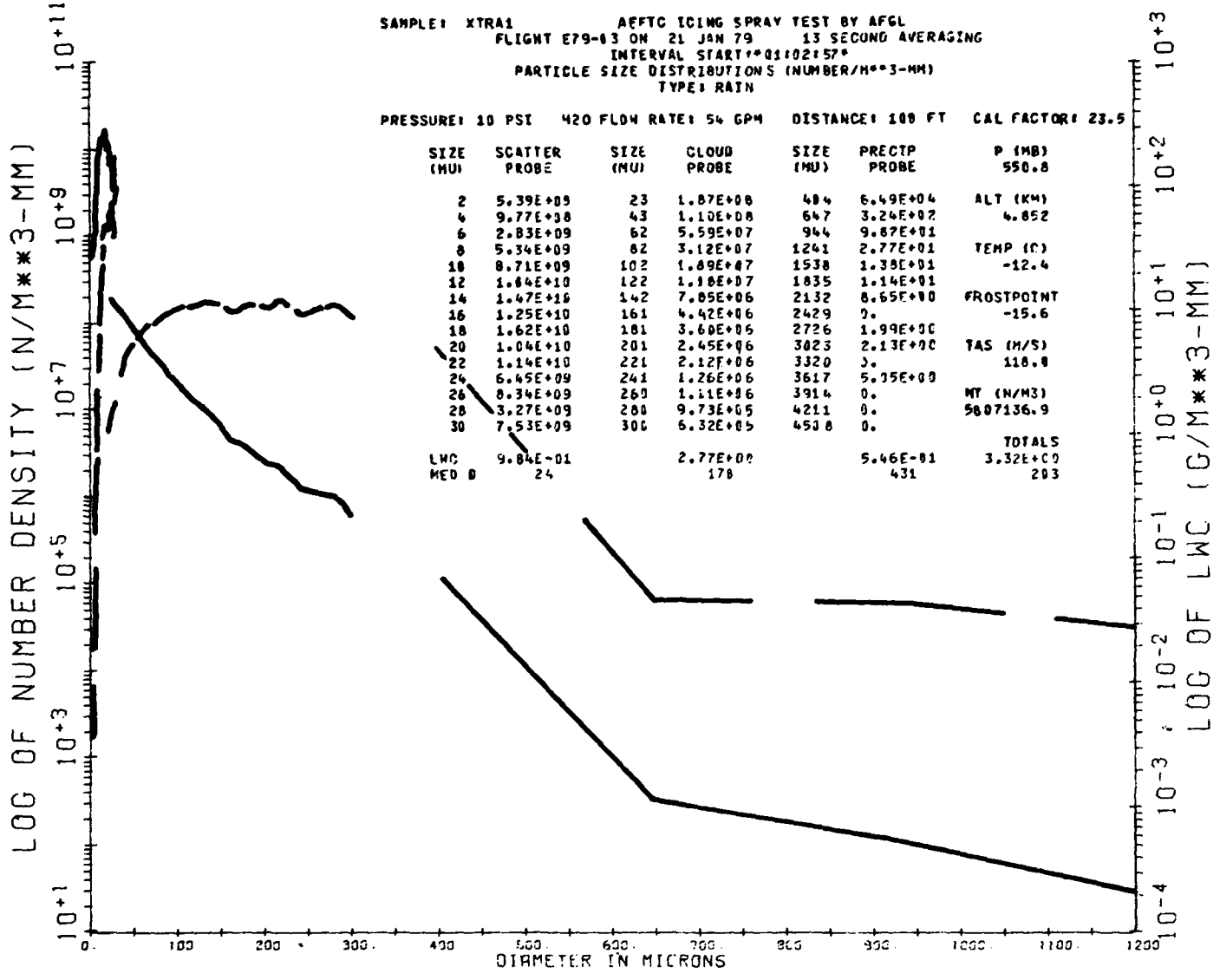

SAMPLE: 30B
AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 18 SECOND AVERAGING
INTERVAL START: *22:10:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE
2 4.11E+09 23 1.16E+07 434 6.23E+02
4 1.70E+09 43 8.52E+06 647 2.43E+01
6 3.94E+09 62 3.93E+06 944 3.92E+01
8 3.09E+09 82 2.10E+06 1241 1.05E+01
10 1.79E+09 102 9.28E+05 1538 1.42E+01
12 1.07E+09 122 5.07E+05 1835 1.18E+01
14 6.59E+08 142 2.31E+05 2132 5.72E+00
16 5.02E+08 161 9.06E+04 2429 4.86E+00
18 5.34E+08 181 5.04E+04 2726 5.22E+00
20 3.70E+08 201 2.75E+04 3023 7.01E+00
22 3.16E+08 221 1.96E+04 3320 0.
24 2.19E+08 241 9.88E+03 3617 3.31E+00
26 1.71E+08 260 5.63E+03 3914 0.
28 1.09E+08 280 3.20E+03 4211 4.06E+00
30 8.18E+07 300 2.47E+03 4508 2.23E+00
LWC 3.28E-02 7.37E-02 2.03E-01 TOTALS 2.77E-01
MED D 19 103 3501 2891
P (MB) 549.1
ALT (KM) 4.875
TEMP (C) -16.6
FROSTPOINT -18.4
TAS (M/S) 129.4
NT (N/M3) 325428.0
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

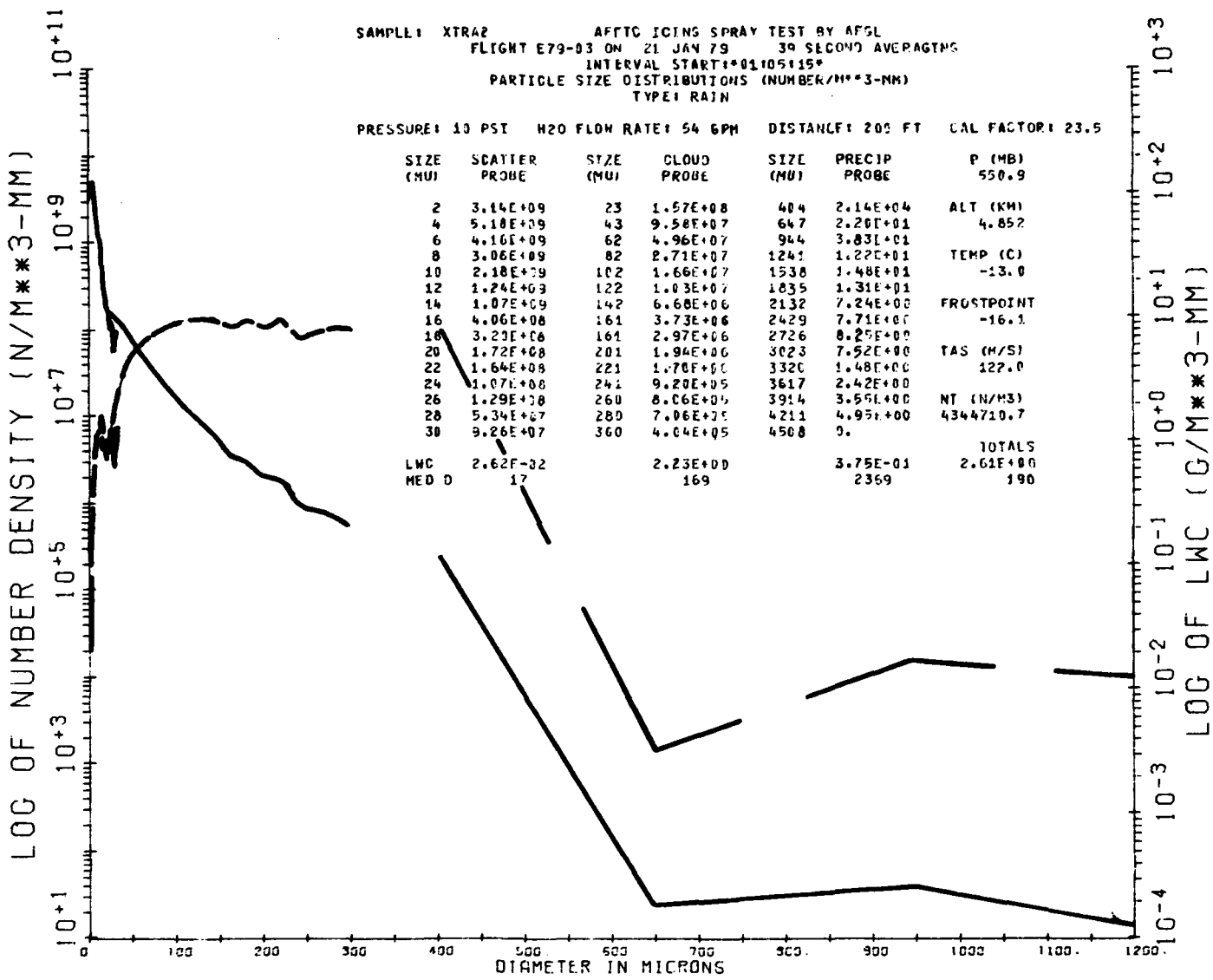

SAMPLE: 31A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT F79-04 0M 24 JAN 79 11 SECOND AVERAGING
INTERVAL START: *21:39:14*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 35 GPH DISTANCE: 400 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.4
2 1.15E+09 23 5.68E+07 404 4.00E+03 ALT (KM) 4.858
4 4.48E+09 43 3.72E+07 647 2.91E+01 4.858
6 1.17E+10 62 1.96E+07 944 2.47E+01
8 1.20E+10 82 9.77E+06 1241 4.60E+00 TEMP (C) -16.2
10 7.46E+09 102 5.25E+06 1535 9.70E+00 -16.2
12 4.55E+09 122 2.50E+06 1835 1.03E+01
14 3.72E+09 142 1.23E+06 2132 0. FROSTPOINT -17.5
16 2.32E+09 161 6.11E+05 2429 0. -17.5
18 2.51E+09 181 3.33E+05 2726 2.08E+00
20 1.74E+09 201 1.93E+05 3023 0. TAS (M/S) 132.7
22 1.71E+09 221 1.06E+05 3320 2.43E+00 132.7
24 1.27E+09 241 6.62E+04 3617 2.65E+00
26 1.19E+09 260 5.68E+04 3914 0. NT (N/M3) 1525653.0
28 6.30E+08 280 4.87E+04 4211 0. 1525653.0
30 5.95E+08 300 3.27E+04 4508 0. TOTALS
LWC 1.70E-01 4.07E-01 8.74E-02 4.94E-01
MED D 21 111 1869 129
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300 400. 500. 600. 700. 800. 900. 1000. 1100 1200
10+11 10+9 10+7 10+5 10+3 10+1
10+3 10+2 10+1 10+0 10-1 10-2 10-3 10-4


SAMPLE: 318
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 13 SECOND AVERAGING
INTERVAL START: *22:15:47*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 548.7
2 1.34E+09 23 5.48E+07 404 1.80E+04 ALT (KM) 4.880
4 5.77E+09 43 3.54E+07 647 0.
6 9.10E+09 62 1.69E+07 944 0.
8 5.55E+09 82 7.29E+06 1241 0. TEMP (C) -15.7
10 2.71E+09 102 3.17E+06 1538 0.
12 1.31E+09 122 1.45E+06 1835 0.
14 1.23E+09 142 7.73E+05 2132 0. FROSTPOINT -18.7
16 5.91E+08 161 3.70E+05 2429 0.
18 6.42E+08 181 2.24E+05 2726 0.
20 4.89E+08 201 1.39E+05 3023 0. TAS (M/S) 133.1
22 4.76E+08 221 1.17E+05 3320 0.
24 3.66E+08 241 5.05E+04 3617 0.
26 3.54E+08 260 4.27E+04 3914 0. NT (N/M3) 1310263.2
28 1.81E+08 280 3.61E+04 4211 0.
30 1.69E+08 300 3.23E+04 4508 0.
TOTALS
LWC 5.22E-02 2.97E-01 1.19E-01 4.16E-01
MED D 21 106 404 150
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS


SAMPLE: 32A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 17 SECOND AVERAGING
INTERVAL START: 21:39:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.6
2 1.39E+09 23 7.46E+07 404 1.32E+04 ALT (KM)
4 7.58E+09 43 9.29E+07 647 9.69E+01 4.855
6 1.67E+10 62 2.01E+07 944 2.73E+01
8 1.42E+10 82 1.62E+07 1241 2.48E+01 TEMP (C)
10 8.65E+09 102 8.89E+06 1538 2.41E+01 -16.4
12 4.19E+09 122 5.35E+06 1835 1.33E+01
14 3.95E+09 142 2.74E+06 2132 0. FROSTPOINT
16 1.68E+09 161 1.35E+06 2429 5.03E+00 -17.1
18 1.79E+09 181 9.04E+05 2726 4.04E+00
20 1.20E+09 201 4.74E+05 3023 1.46E+00 TAS (M/S)
22 1.27E+09 221 3.52E+05 3320 0. 132.7
24 9.23E+08 241 2.08E+05 3617 0.
26 9.82E+08 263 1.84E+05 3914 0. NT (N/M3)
28 5.73E+08 280 1.62E+05 4211 0. 2357146.7
30 6.89E+08 300 1.09E+05 4508 0.
TOTALS
LWC 1.50E-01 8.35E-01 1.595-01 9.9%E-01
MED D 21 130 483 149
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000. 1100. 1200.


SAMPLE: 323 AFFTC ICING SPRAY TEST 4Y AFSL
FLIGHT E79-04 ON 24 JAN 79 19 SECOND AVERAGING
INTERVAL START: 22:17:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 549.0
2 2.57E+09 23 1.53E+08 484 1.03E+05 ALT (KM) 4.876
4 1.26E+10 43 9.84E+07 647 0. 6 1.80E+10 62 4.62E+07 944 2.60E+00
8 1.22E+10 82 2.12E+07 1241 0. TEMP (C) -15.6
10 7.48E+09 102 9.45E+06 1538 0. 12 3.31E+09 122 4.41E+06 1835 0.
14 3.67E+09 142 2.42E+06 2132 0. FROSTPOINT -17.3
16 1.15E+09 161 1.06E+06 2429 0. 18 1.32E+09 181 8.08E+05 2726 0.
20 8.58E+08 201 4.83E+05 3023 0. TAS (M/S) 129.1
22 8.99E+08 221 4.44E+05 3320 0. 24 6.98E+08 241 2.06E+05 3617 0.
26 8.11E+08 261 2.06E+05 3914 0. NT (N/M3) 3697996.2
28 4.54E+08 280 2.06E+05 4211 0. 30 5.81E+08 300 1.85E+05 4508 0.
TOTALS
LWC 1.21E-01 9.65E-01 6.79E-01 1.64E+00
MED D 21 119 405 247
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS

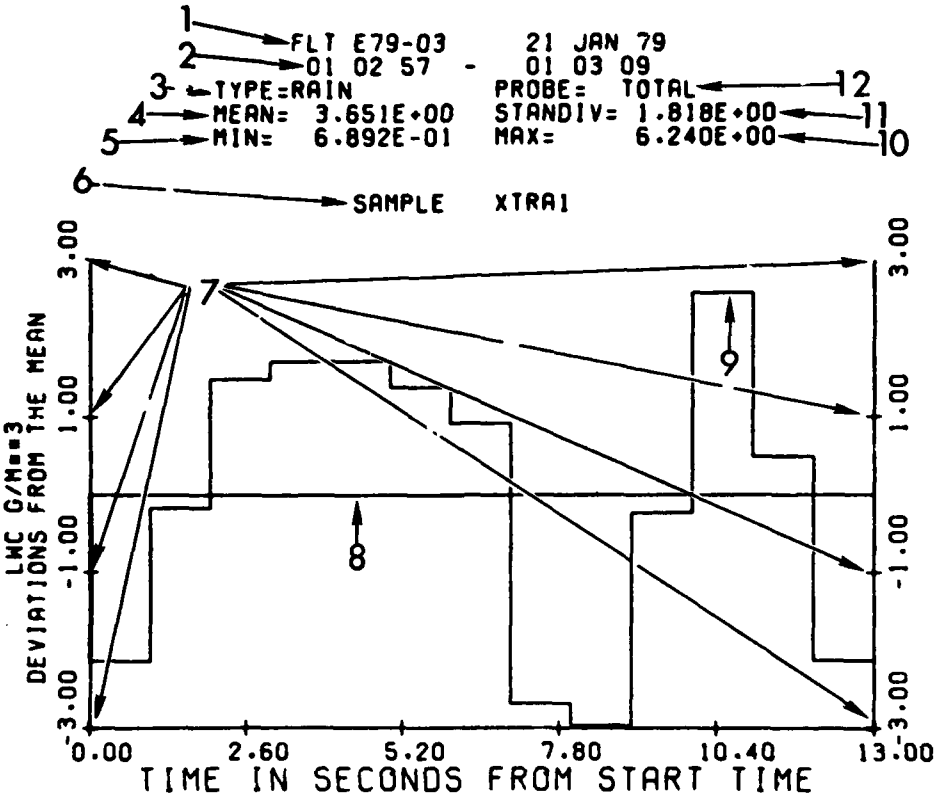

SAMPLE: XTRA1 AEFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 13 SECOND AVERAGING
INTERVAL START: 01:02:57
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI 420 FLOW RATE: 54 GPM DISTANCE: 100 FT CAL FACTOR: 23.5
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.8
2 5.39E+09 23 1.87E+08 484 6.49E+04 ALT (KM)
4 9.77E+08 43 1.10E+08 647 3.24E+02 4.852
6 2.83E+09 62 5.59E+07 944 9.87E+01
8 5.34E+09 82 3.12E+07 1241 2.77E+01 TEMP (C)
10 8.71E+09 102 1.89E+07 1538 1.38E+01 -12.4
12 1.84E+10 122 1.18E+07 1835 1.14E+01
14 1.47E+10 142 7.85E+06 2132 8.65E+00 FROSTPOINT
16 1.25E+10 161 4.42E+06 2429 0. -15.6
18 1.62E+10 181 3.60E+06 2726 1.99E+00
20 1.04E+10 201 2.45E+06 3023 2.13E+00 TAS (M/S)
22 1.14E+10 221 2.12E+06 3320 0. 118.8
24 6.45E+09 241 1.26E+06 3617 5.35E+00
26 8.34E+09 260 1.11E+06 3914 0. MT (N/M3)
28 3.27E+09 280 9.73E+05 4211 0. 5807136.9
30 7.53E+09 300 6.32E+05 4508 0.
TOTALS
LWC 9.84E-01 2.77E+00 5.46E-01 3.32E+00
MED D 24 178 431 293
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0. 100 200 300 400 500 600 700 800 900 1000 1100 1200
10^{+11} 10^{+9} 10^{+7} 10^{+5} 10^{+3} 10^{+1}
10^{+3} 10^{+2} 10^{+1} 10^{+0} 10^{-1} 10^{-2} 10^{-3} 10^{-4}


SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 30 SECOND AVERAGING
INTERVAL START: 01:05:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN
PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5
SIZE (MU) SCATTER PROBE SIZE (MU) CLOUD PROBE SIZE (MU) PRECIP PROBE P (MB) 550.9
2 3.14E+09 23 1.57E+08 404 2.14E+04 ALT (KM)
4 5.18E+09 43 9.58E+07 647 2.20E+01 4.852
6 4.16E+09 62 4.96E+07 944 3.83E+01
8 3.06E+09 82 2.71E+07 1241 1.22E+01 TEMP (C)
10 2.18E+09 102 1.66E+07 1538 1.48E+01 -13.0
12 1.24E+09 122 1.03E+07 1835 1.31E+01
14 1.07E+09 142 6.68E+06 2132 7.24E+00 FROSTPOINT
16 4.06E+08 161 3.73E+06 2429 7.71E+00 -16.1
18 3.23E+08 181 2.97E+06 2726 8.25E+00
20 1.72E+08 201 1.94E+06 3023 7.52E+00 TAS (M/S)
22 1.64E+08 221 1.78E+06 3320 1.48E+00 122.0
24 1.07E+08 241 9.20E+05 3617 2.42E+00
26 1.29E+08 260 8.06E+05 3914 3.55E+00 NT (N/M3)
28 5.34E+07 280 7.06E+05 4211 4.95E+00 4344710.7
30 9.26E+07 300 4.04E+05 4508 0. TOTALS
LWC 2.62E-02 2.23E+00 3.75E-01 2.61E+00
MED D 17 169 2369 190
LOG OF NUMBER DENSITY (N/M**3-MM)
LOG OF LWC (G/M**3-MM)
DIAMETER IN MICRONS
0
100
200
300
400
500
600
700
800
900
1000
1100
1200

Appendix B

Graphic Depiction of Variation With Time of Liquid Water Content Values

Graphic depiction of variation with time of 1-sec liquid water content values for each sample in grams per cubic meter are presented here. Arithmetic mean and standard deviation from the mean are calculated from 1-D cloud and precipitation probe data. Figure B1 indicates format of depiction. A variable scale is used on both the abscissa and ordinate to obtain the clearest possible presentation of each sample. Comparisons of these data should carefully note the scale of each sample presentation.

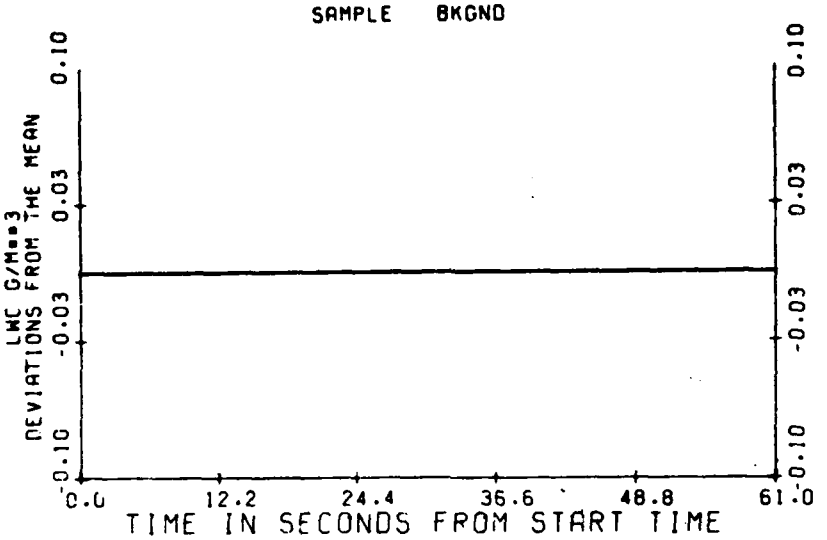


1. Date and Flight Number.
2. Start and stop times of sample, GMT.
3. Particle type selected for calculation of liquid water content.
4. Arithmetic mean liquid water content of all 1-sec liquid water contents, grams per cubic meter.
5. Minimum 1-sec liquid water content in sample, grams per cubic meter.
6. Sample designation.
7. Positive and negative units of deviation of liquid water content, grams per cubic meter.
8. Mean liquid water content line having value indicated in 4, grams per cubic meter.
9. One-sec value of liquid water content. Add or subtract deviation from mean to item 4 to obtain value.
10. Maximum 1-sec liquid water content in sample, grams per cubic meter.
11. Standard deviation of sample, grams per cubic meter.
12. Probe data included in sample. Total indicates combined cloud and precipitation probes with "normalization" and "smoothing" applied.

Figure B1. Graphic Format, One-Second Data, Liquid Water Content, Mean, and Standard Deviation

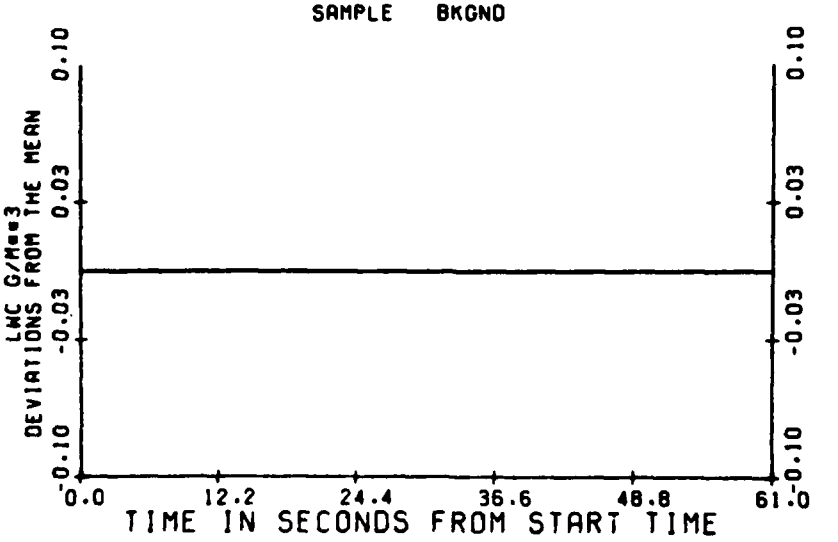
FLT E79-04 24 JAN 79
20 52 00 - 20 53 00
TYPE=RAIN PROBE= TOTAL
MEAN= 5.231E-06 STANDIV= 4.052E-05
MIN= 0. MAX= 3.191E-04

SAMPLE BKGND



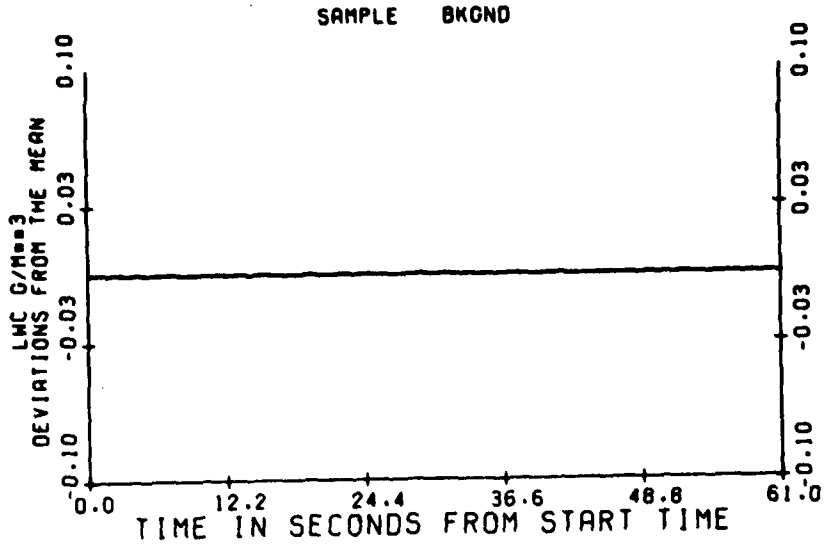
FLT E79-03 20 JAN 79
23 57 00 - 23 58 00
TYPE=RAIN PROBE= TOTAL
MEAN= 0. STANDIV= 0.
MIN= 0. MAX= 0.

SAMPLE BKGND



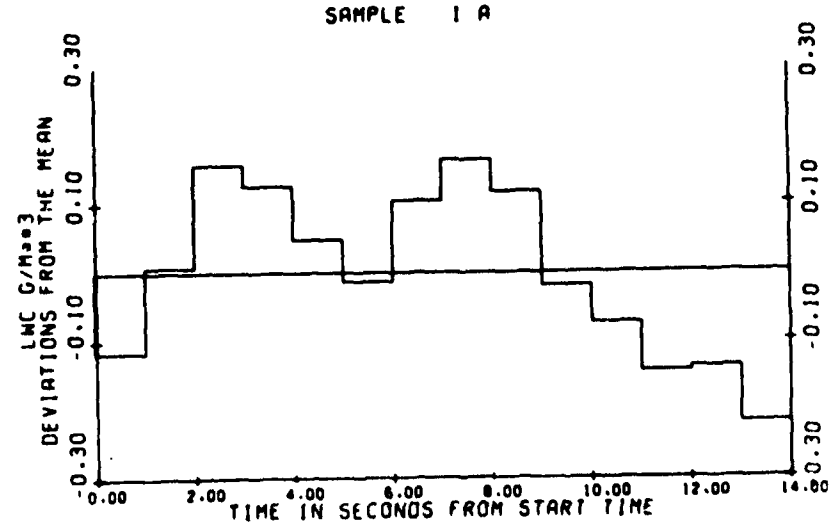
FLT E79-05 25 JAN 79
21 14 00 - 21 15 00
TYPE=RAIN PROBE= TOTAL
MEAN= 2.221E-04 STANDIV= 3.065E-04
MIN= 0. MAX= 6.532E-04

SAMPLE BKGND



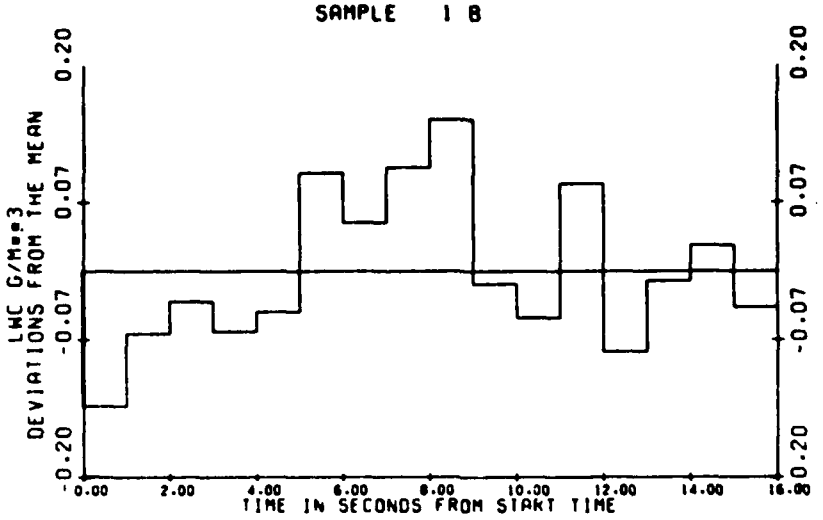
FLT E79-03 21 JAN 79
00 07 24 - 00 07 37
TYPE=RAIN PROBE= TOTAL
MEAN= 3.854E-01 STANDIV= 1.200E-01
MIN= 1.669E-01 MAX= 5.490E-01

SAMPLE 1 A



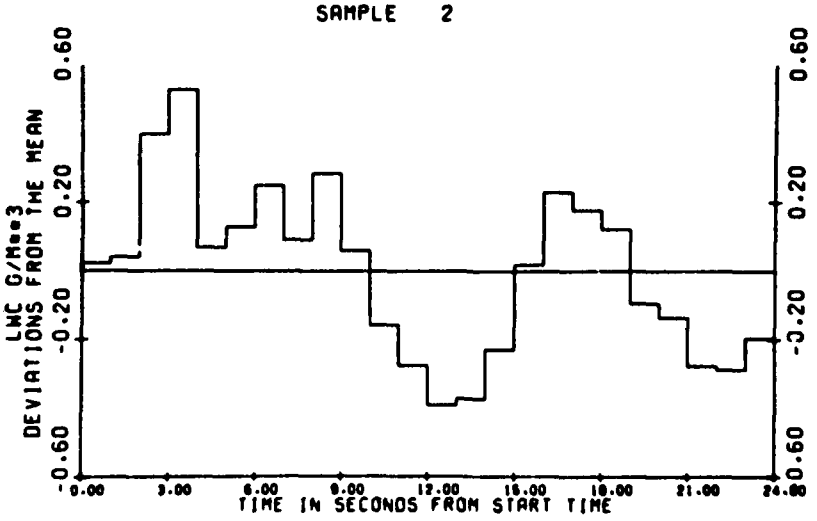
FLT E79-03 21 JAN 79
00 07 40 - 00 07 55
TYPE=RAIN PROBE= TOTAL
MEAN= 3.162E-01 STANDIV= 7.373E-02
MIN= 1.853E-01 MAX= 4.629E-01

SAMPLE 1 B



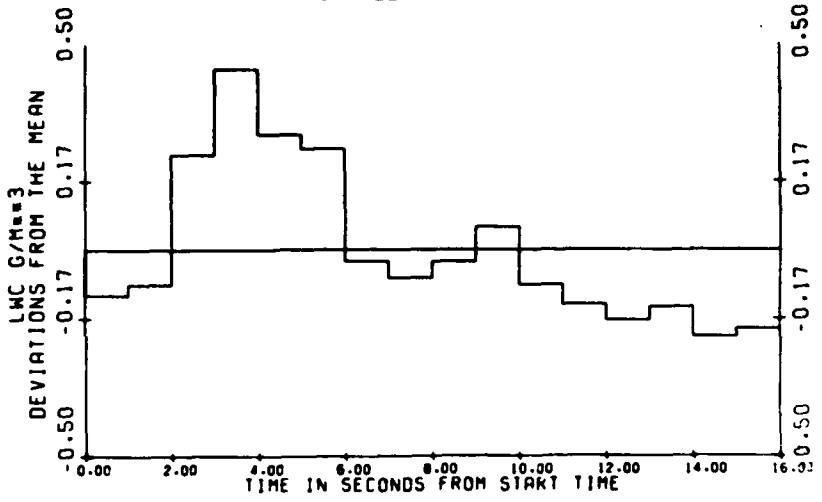
FLT E79-03 21 JAN 79
00 14 55 - 00 15 18
TYPE=RAIN PROBE= TOTAL
MEAN= 4.957E-01 STANDIV= 2.402E-01
MIN= 1.045E-01 MAX= 1.024E+00

SAMPLE 2



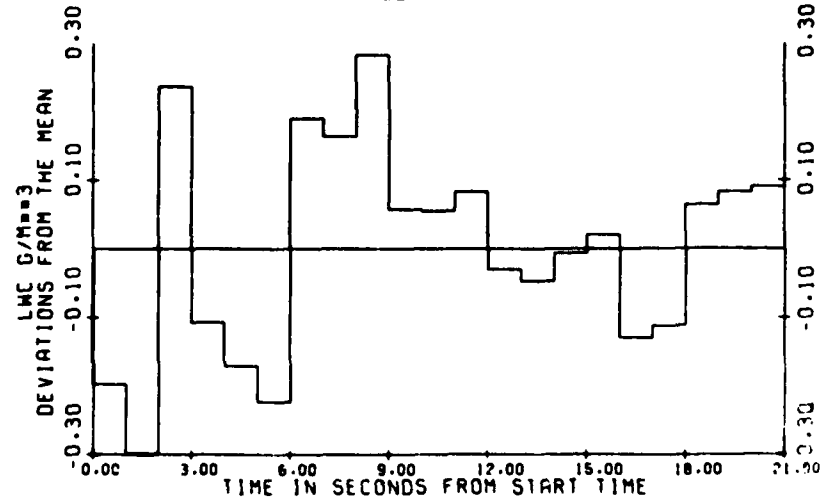
FLT E79-03 21 JAN 79
00 18 45 - 00 19 00
TYPE=RAIN PROBE= TOTAL
MEAN= 4.429E-01 STANDIV= 1.874E-01
MIN= 2.324E-01 MAX= 8.793E-01

SAMPLE 3



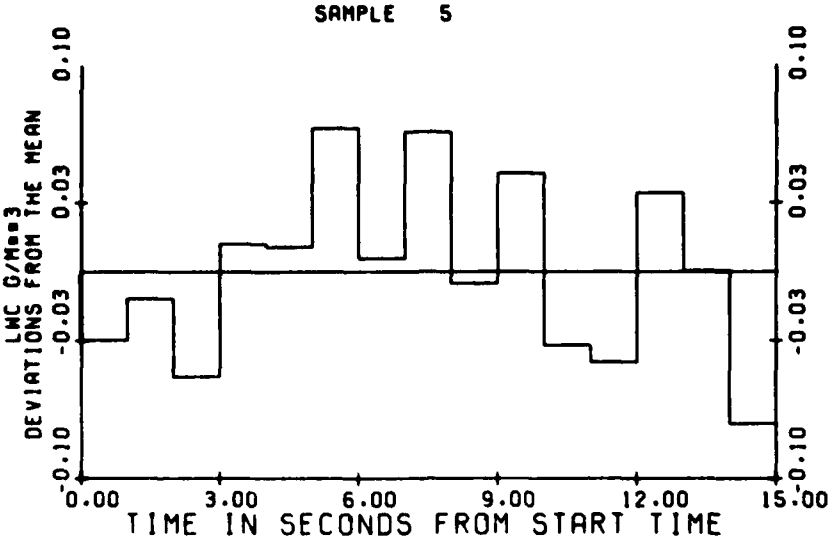
FLT E79-03 21 JAN 79
00 20 12 - 00 20 32
TYPE=RAIN PROBE= TOTAL
MEAN= 7.644E-01 STANDIV= 1.515E-01
MIN= 4.659E-01 MAX= 1.046E+00

SAMPLE 4



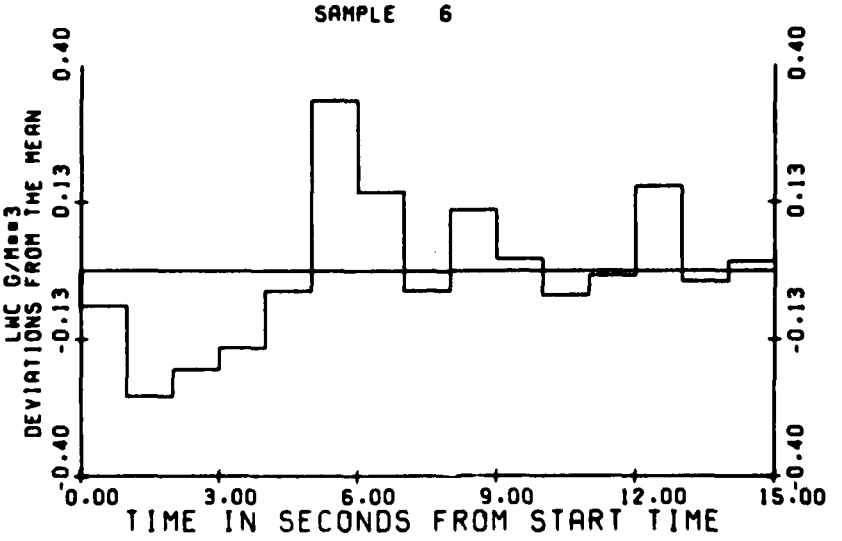
FLT E79-03 21 JAN 79
00 25 06 - 00 25 20
TYPE=RAIN PROBE= TOTAL
MEAN= 2.662E-01 STANDIV= 4.153E-02
MIN= 1.928E-01 MAX= 3.356E-01

SAMPLE 5



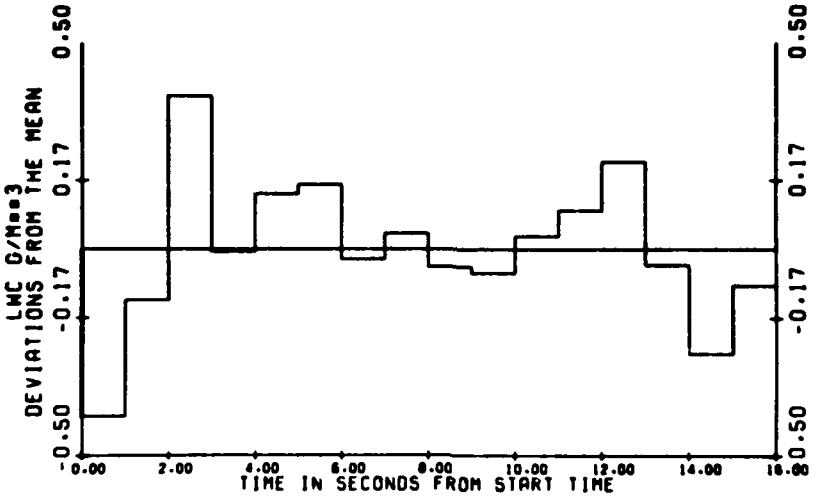
FLT E79-03 21 JAN 79
00 26 42 - 00 26 56
TYPE=RAIN PROBE= TOTAL
MEAN= 5.545E-01 STANDIV= 1.423E-01
MIN= 3.104E-01 MAX= 8.853E-01

SAMPLE 6



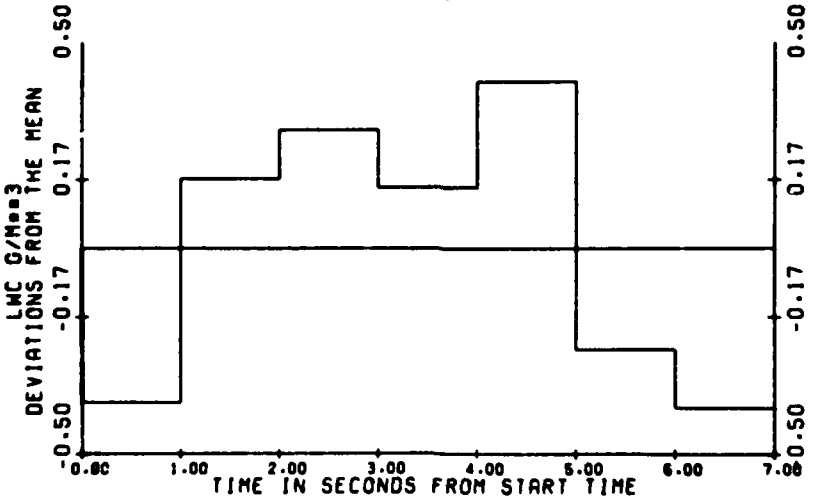
FLT E79-03 21 JAN 79
00 28 59 - 00 29 14
TYPE=RAIN PROBE= TOTAL
MEAN= 1.078E+00 STANDIV= 1.757E-01
MIN= 6.734E-01 MAX= 1.449E+00

SAMPLE 7



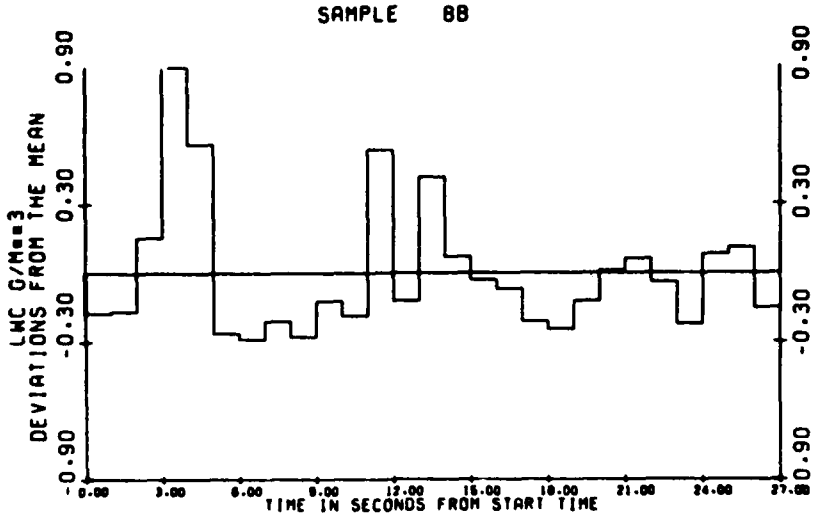
FLT E79-03 21 JAN 79
00 30 03 - 00 30 09
TYPE=RAIN PROBE= TOTAL
MEAN= 9.494E-01 STANDIV= 3.039E-01
MIN= 5.623E-01 MAX= 1.354E+00

SAMPLE 8 A



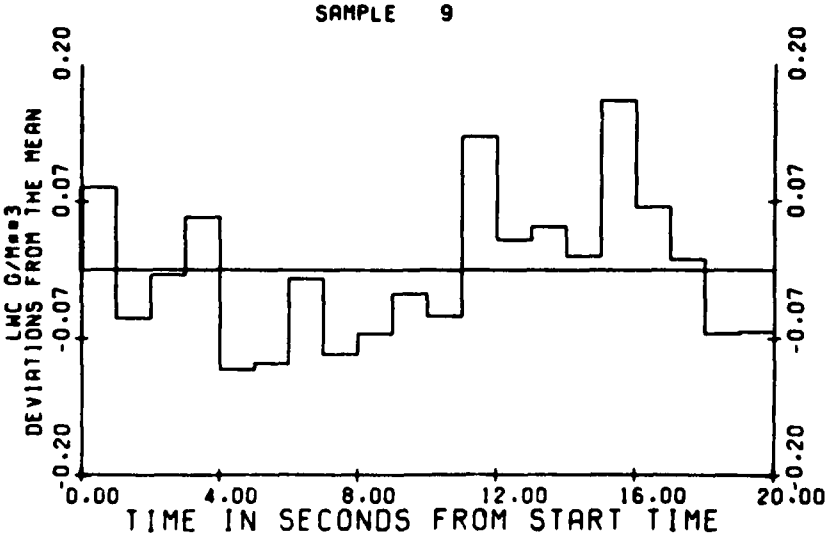
FLT E79-03 21 JAN 79
00 30 20 - 00 30 46
TYPE=RAIN PROBE= TOTAL
MEAN= 9.035E-01 STANDIV= 2.864E-01
MIN= 6.159E-01 MAX= 1.798E+00

SAMPLE 8B



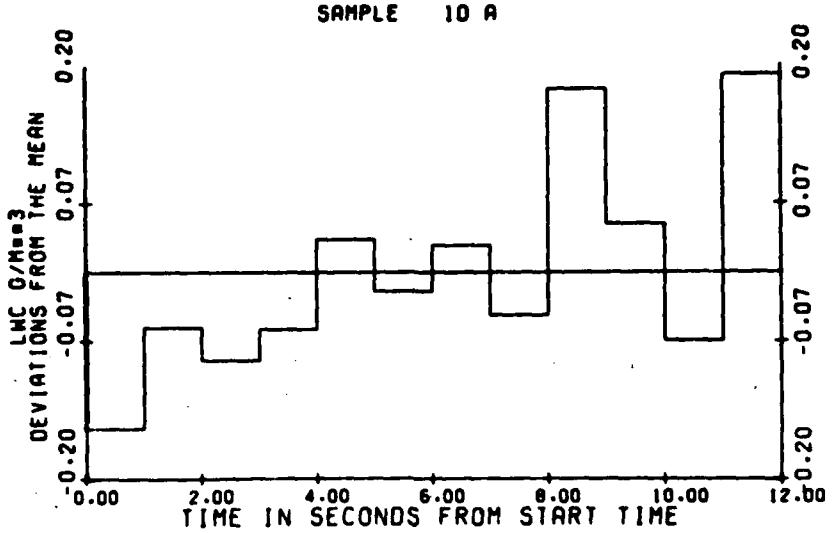
FLT E79-03 21 JAN 79
00 35 24 - 00 35 43
TYPE=RAIN PROBE= TOTAL
MEAN= 1.652E-01 STANDIV= 7.076E-02
MIN= 6.808E-02 MAX= 3.298E-01

SAMPLE 9



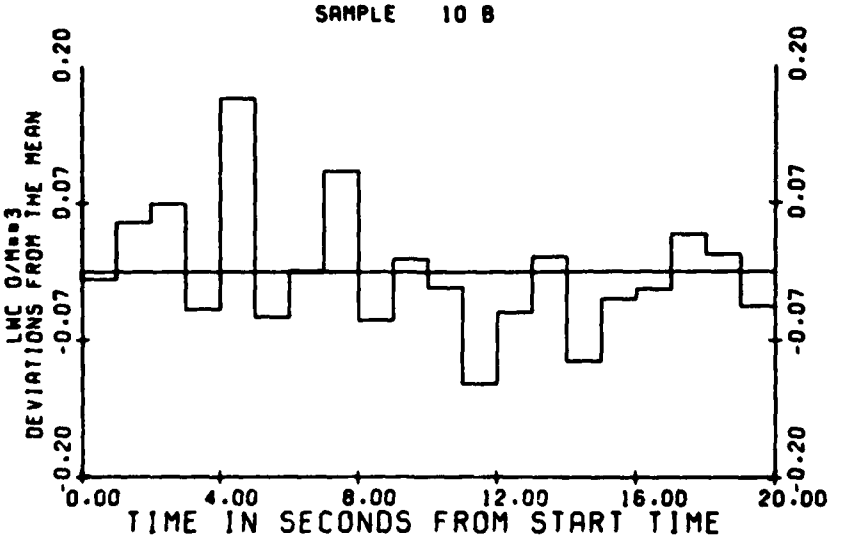
FLT E79-03 21 JAN 79
00 36 15 - 00 36 26
TYPE=RAIN PROBE= TOTAL
MEAN= 2.637E-01 STANDIV= 9.741E-02
MIN= 1.121E-01 MAX= 4.539E-01

SAMPLE 10 A



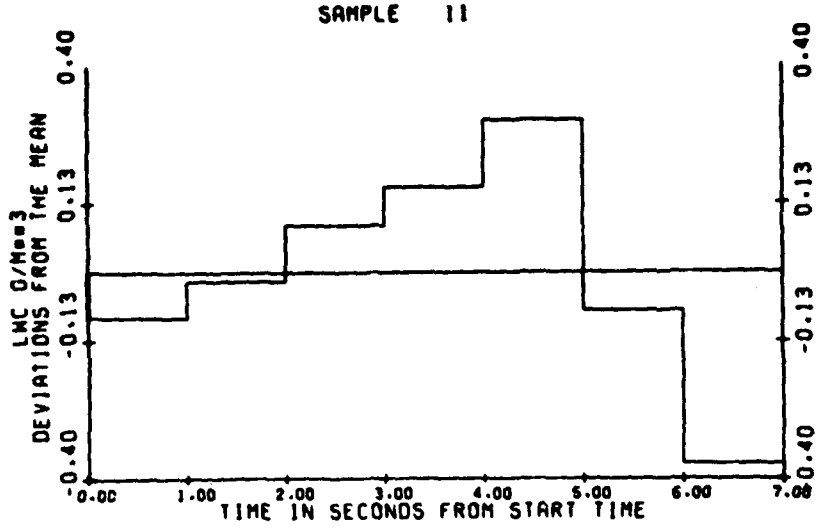
FLT E79-03 21 JAN 79
00 36 31 - 00 36 50
TYPE=RAIN PROBE= TOTAL
MEAN= 2.283E-01 STANDIV= 6.124E-02
MIN= 1.198E-01 MAX= 3.965E-01

SAMPLE 10 B



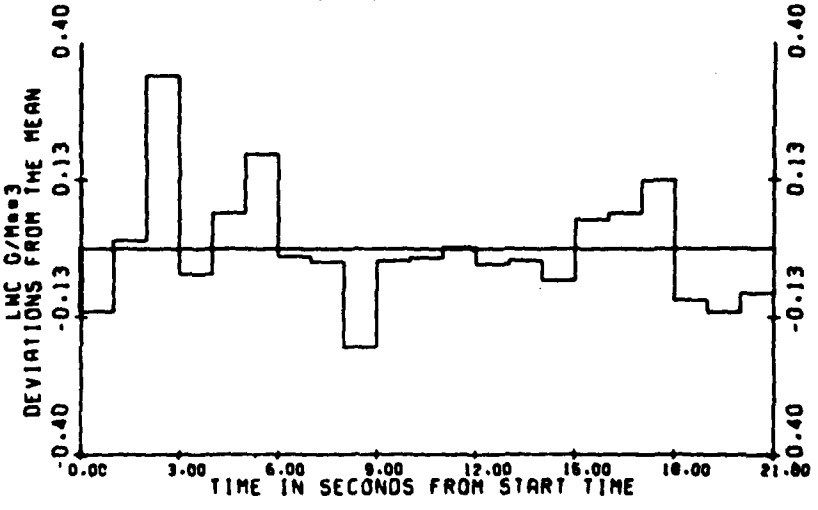
FLT E79-03 21 JAN 79
00 38 41 - 00 38 47
TYPE=RAIN PROBE= TOTAL
MEAN= 6.900E-01 STANDIV= 1.973E-01
MIN= 3.193E-01 MAX= 9.835E-01

SAMPLE 11



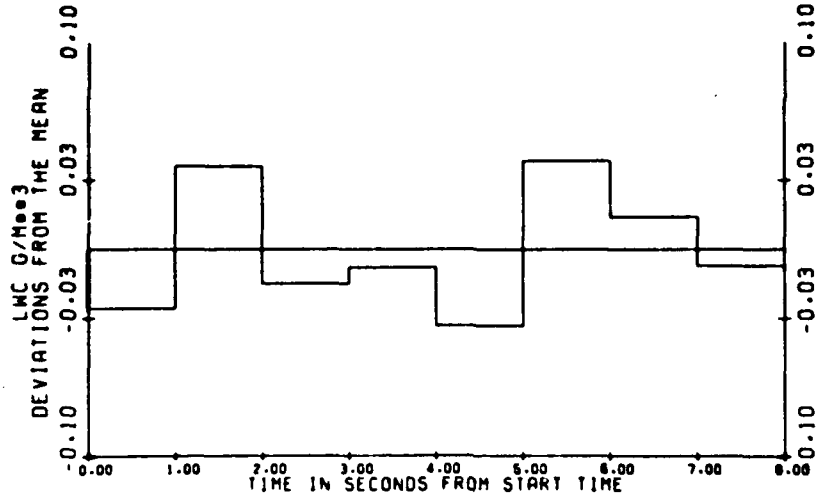
FLT E79-03 21 JAN 79
00 40 09 - 00 40 29
TYPE=RAIN PROBE= TOTAL
MEAN= 6.814E-01 STANDIV= 1.134E-01
MIN= 4.906E-01 MAX= 1.017E+00

SAMPLE 12



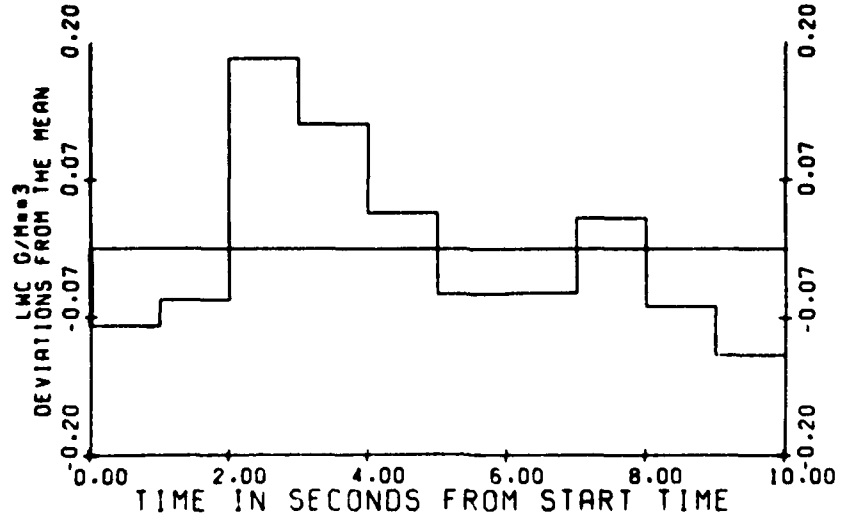
FLT E79-03 21 JAN 79
00 48 20 - 00 48 27
TYPE=RAIN PROBE= TOTAL
MEAN= 1.424E-01 STANDIV= 2.795E-02
MIN= 1.057E-01 MAX= 1.851E-01

SAMPLE 13



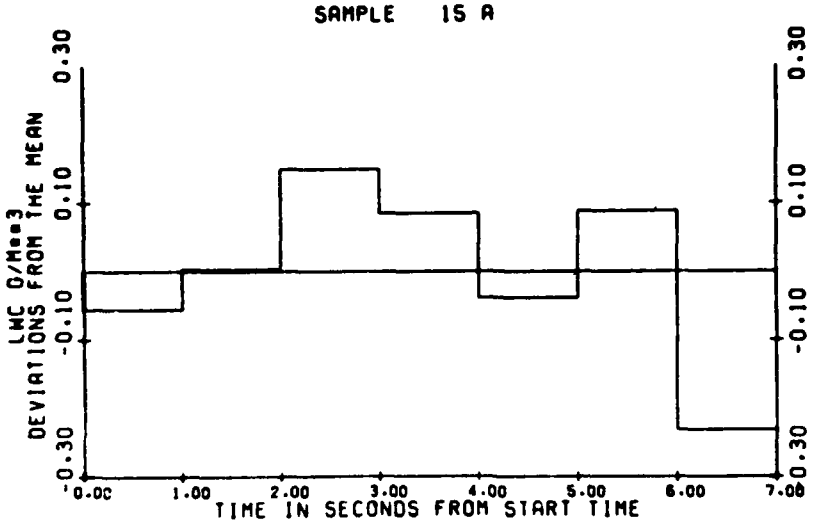
FLT E79-03 21 JAN 79
00 50 12 - 00 50 21
TYPE=RAIN PROBE= TOTAL
MEAN= 2.442E-01 STANDIV= 8.716E-02
MIN= 1.416E-01 MAX= 4.283E-01

SAMPLE 14



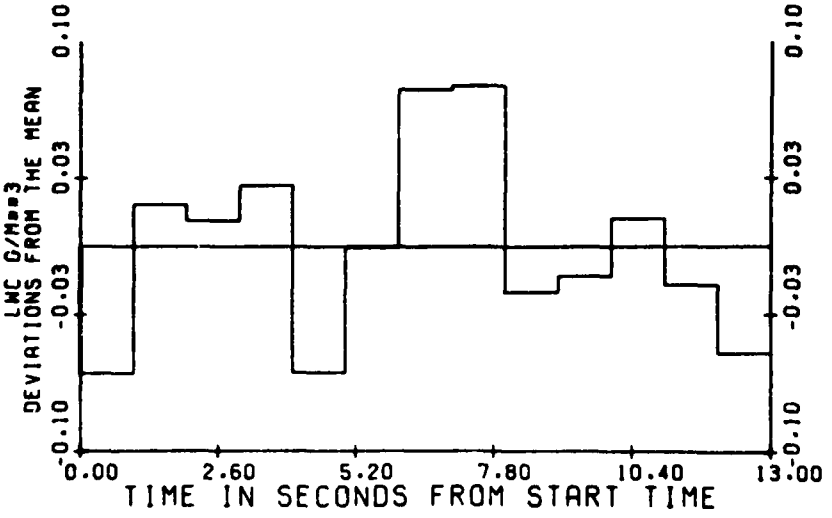
FLT E79-03 21 JAN 79
00 57 44 - 00 57 50
TYPE=RAIN PROBE= TOTAL
MEAN= 4.205E-01 STANDIV= 1.167E-01
MIN= 1.893E-01 MAX= 5.695E-01

SAMPLE 15 A



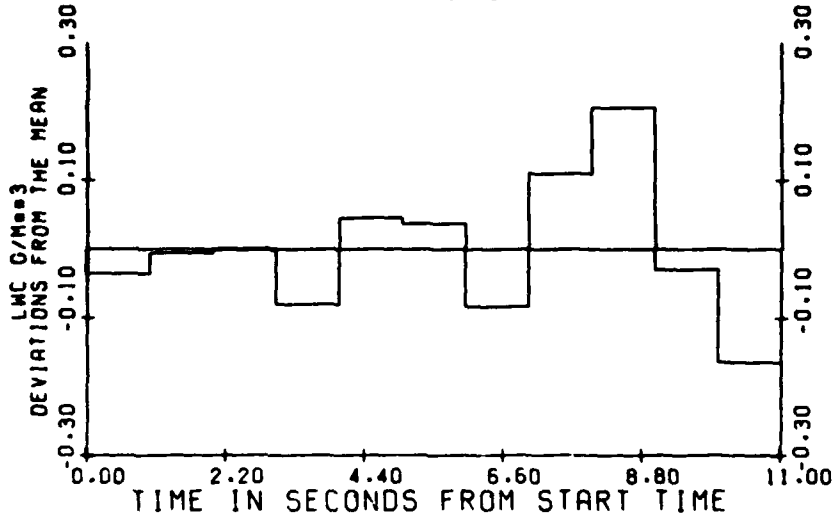
FLT E79-03 21 JAN 79
00 57 57 - 00 58 09
TYPE=RAIN PROBE= TOTAL
MEAN= 3.733E-01 STANDIV= 4.391E-02
MIN= 3.112E-01 MAX= 4.517E-01

SAMPLE 15 B



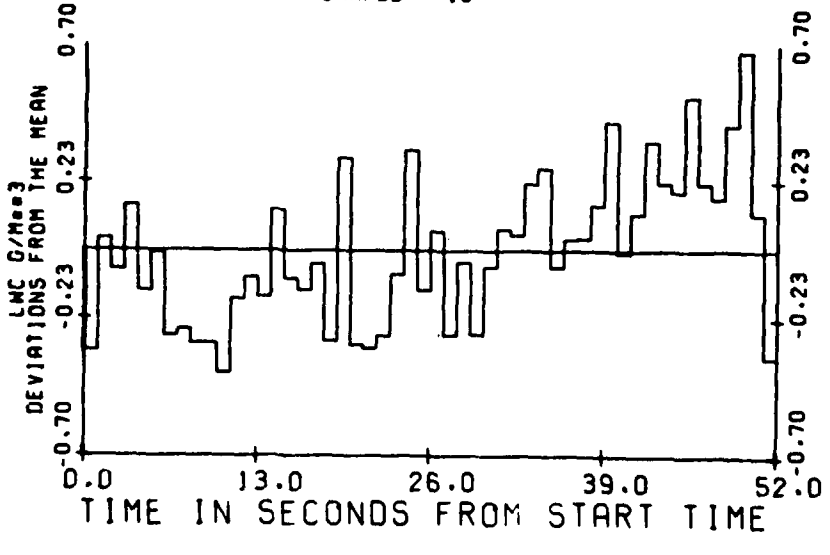
FLT E79-03 21 JAN 79
00 58 14 - 00 58 24
TYPE=RAIN PROBE= TOTAL
MEAN= 4.585E-01 STANDIV= 9.538E-02
MIN= 2.943E-01 MAX= 6.638E-01

SAMPLE 15 C



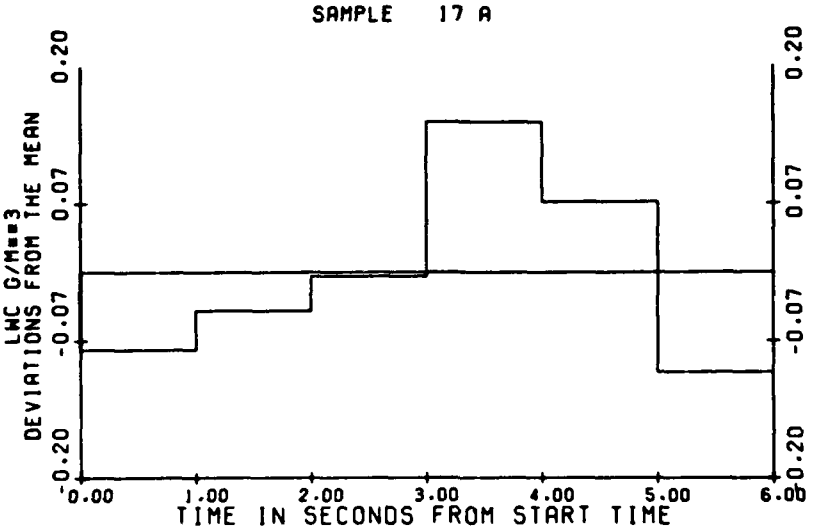
FLT E79-03 21 JAN 79
00 58 41 - 00 59 32
TYPE=RAIN PROBE= TOTAL
MEAN= 7.655E-01 STANDIV= 2.538E-01
MIN= 3.483E-01 MAX= 1.441E+00

SAMPLE 16



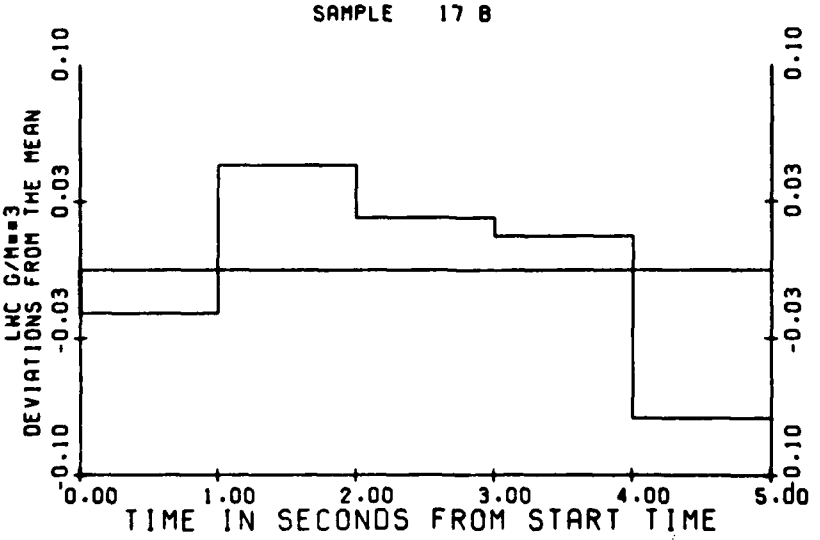
FLT E79-05 25 JAN 79
21 17 28 - 21 17 33
TYPE=RAIN PROBE= TOTAL
MEAN= 2.388E-01 STANDIV= 8.398E-02
MIN= 1.418E-01 MAX= 3.843E-01

SAMPLE 17 A



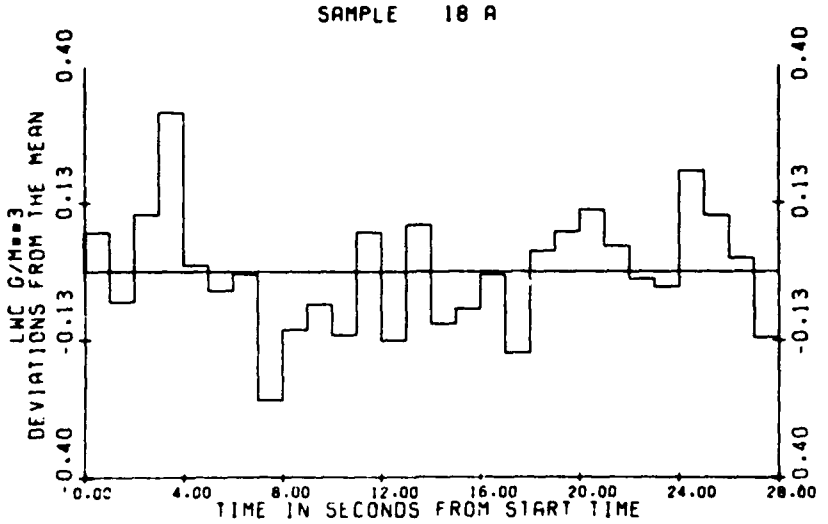
FLT E79-05 25 JAN 79
21 17 41 - 21 17 45
TYPE=RAIN PROBE= TOTAL
MEAN= 1.957E-01 STANDIV= 4.279E-02
MIN= 1.237E-01 MAX= 2.468E-01

SAMPLE 17 B



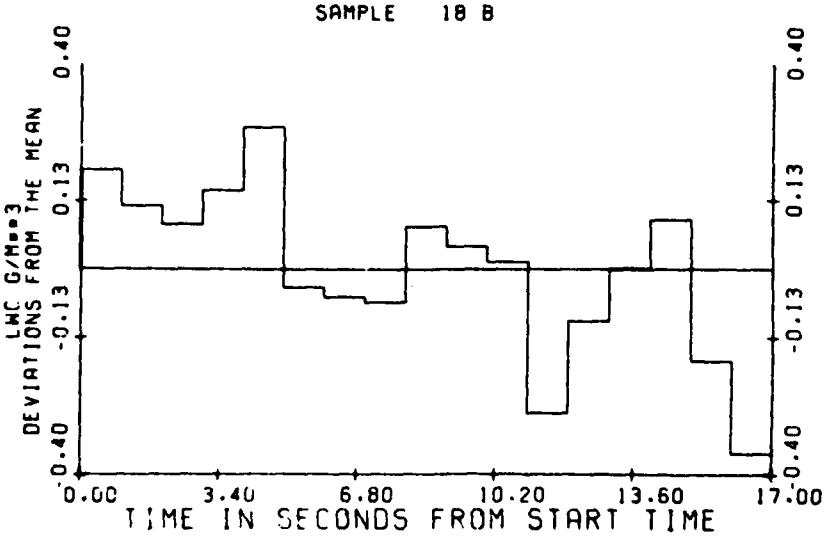
FLT E79-04 24 JAN 79
20 55 09 - 20 55 36
TYPE=RAIN PROBE= TOTAL
MEAN= 4.561E-01 STANDIV= 1.160E-01
MIN= 2.069E-01 MAX= 7.652E-01

SAMPLE 18 A



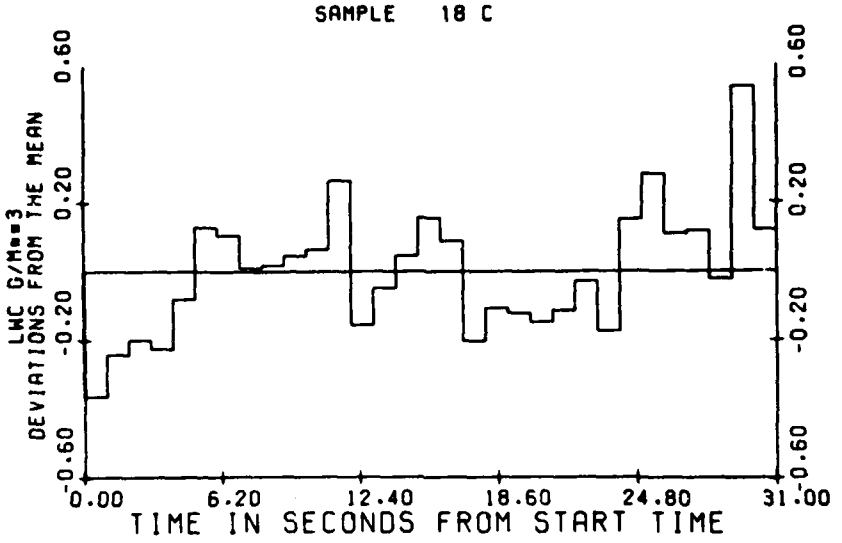
FLT E79-04 24 JAN 79
20 56 23 - 20 56 39
TYPE=RAIN PROBE= TOTAL
MEAN= 4.684E-01 STANDIV= 1.601E-01
MIN= 1.098E-01 MAX= 7.443E-01

SAMPLE 18 B



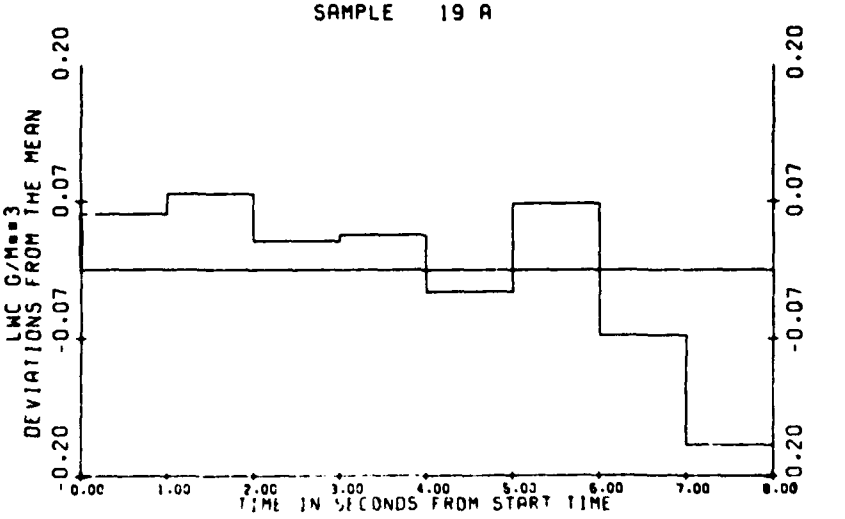
FLT E79-05 25 JAN 79
21 19 30 - 21 20 00
TYPE=RAIN PROBE= TOTAL
MEAN= 5.685E-01 STANDIV= 1.809E-01
MIN= 2.042E-01 MAX= 1.103E+00

SAMPLE 18 C



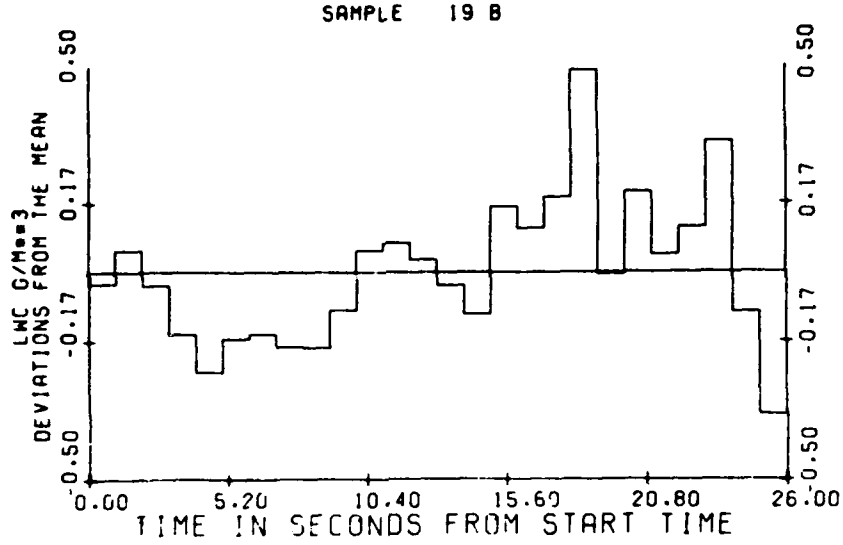
FLT E79-04 24 JAN 79
21 18 12 - 21 18 19
TYPE=RAIN PROBE= TOTAL
MEAN= 4.247E-01 STANDIV= 7.728E-02
MIN= 2.550E-01 MAX= 4.985E-01

SAMPLE 19 A



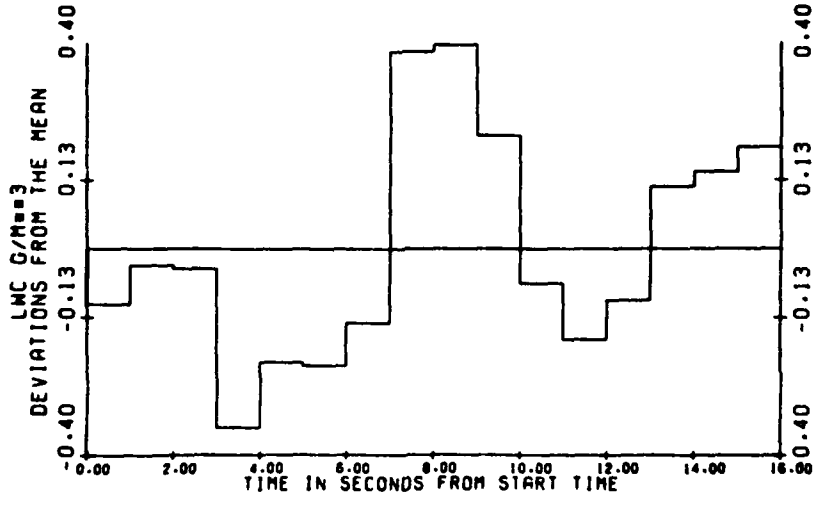
FLT E79-04 24 JAN 79
21 18 25 - 21 18 50
TYPE=RAIN PROBE= TOTAL
MEAN= 6.384E-01 STANDIV= 1.763E-01
MIN= 2.956E-01 MAX= 1.125E+00

SAMPLE 19 B



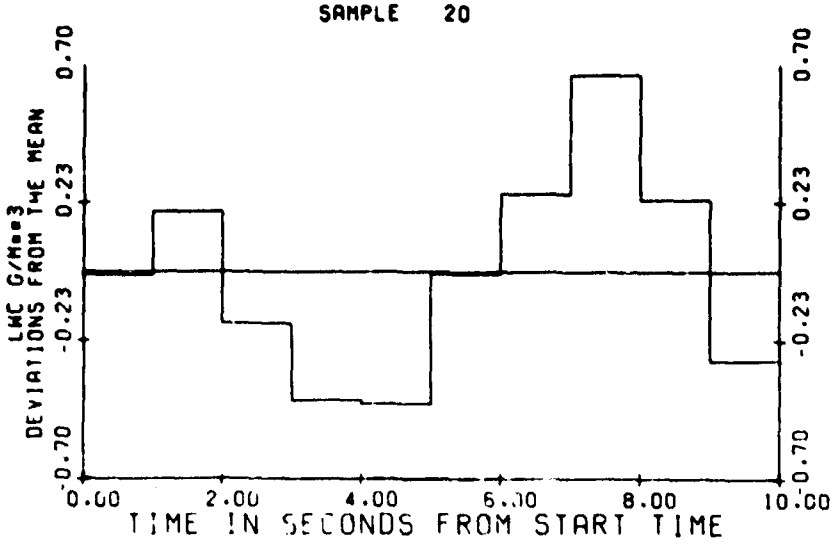
FLT E79-05 25 JAN 79
21 20 22 - 21 20 37
TYPE=RAIN PROBE= TOTAL
MEAN= 7.768E-01 STANDIV= 2.129E-01
MIN= 4.296E-01 MAX= 1.171E+00

SAMPLE 19 C



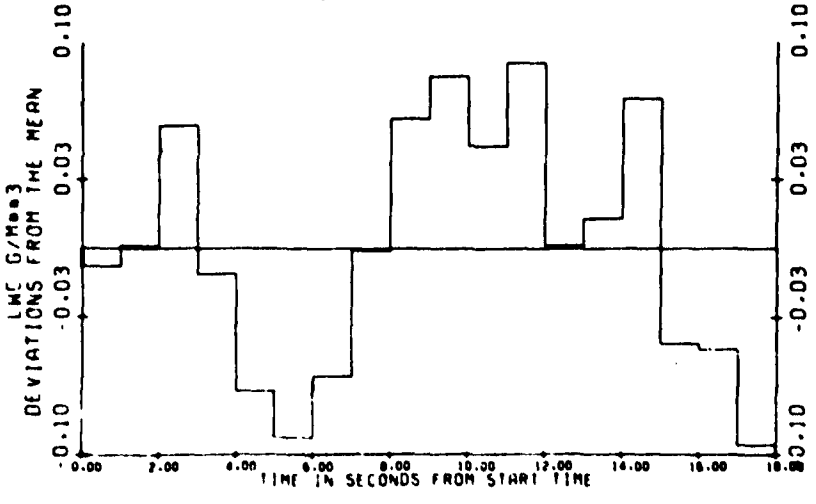
FLT E79-04 24 JAN 79
21 19 26 - 21 19 35
TYPE=RAIN PROBE= TOTAL
MEAN= 5.095E-01 STANDIV= 3.348E-01
MIN= 6.229E-02 MAX= 1.174E+00

SAMPLE 20



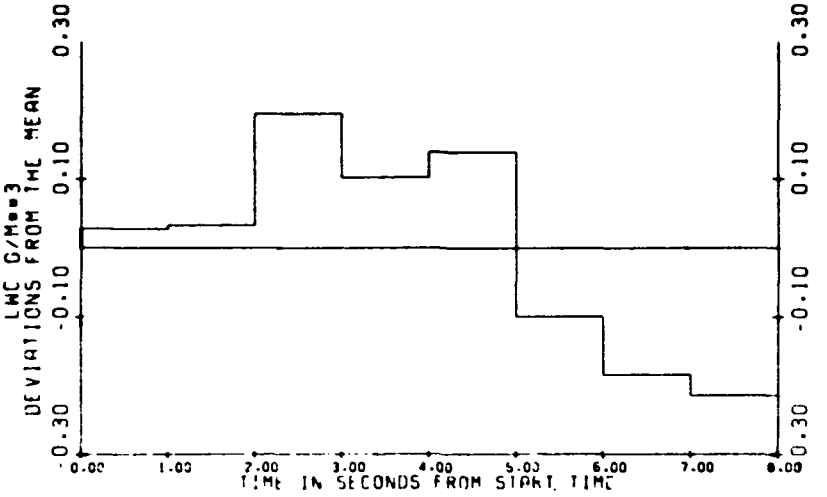
FLT E79-04 24 JAN 79
21 21 38 - 21 21 55
TYPE=RAIN PROBE= TOTAL
MEAN= 1.665E-01 STANDIV= 5.831E-02
MIN= 7.132E-02 MAX= 2.562E-01

SAMPLE 21



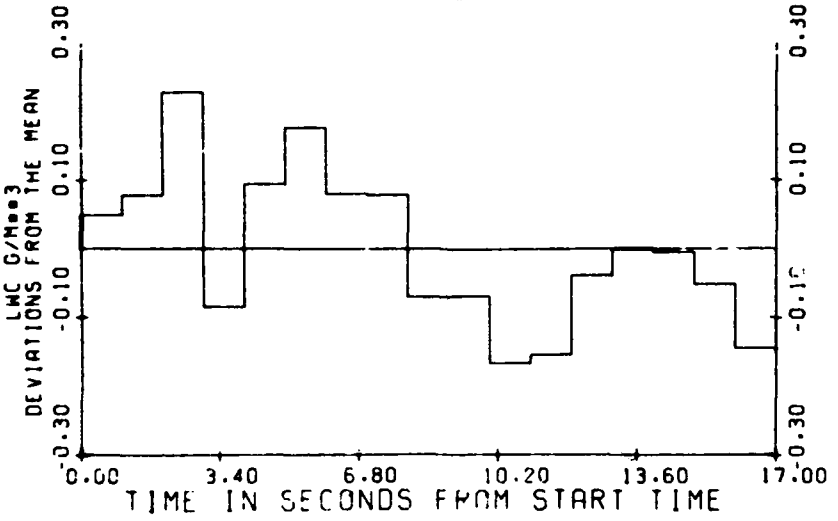
FLT E79-04 24 JAN 79
21 23 14 - 21 23 21
TYPE=RAIN PROBE= TOTAL
MEAN= 4.356E-01 STANDIV= 1.411E-01
MIN= 2.216E-01 MAX= 6.307E-01

SAMPLE 22 A



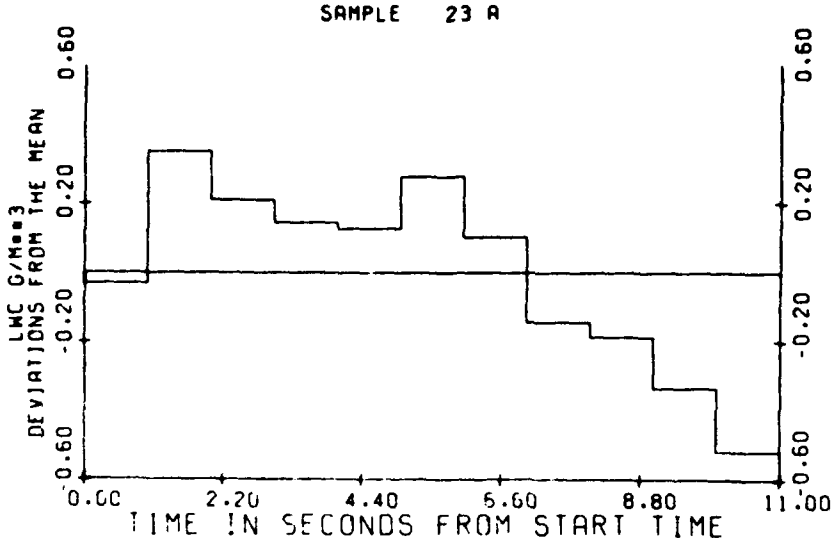
FLT E79-04 24 JAN 79
21 23 25 - 21 23 41
TYPE=RAIN PROBE= TOTAL
MEAN= 3.954E-01 STANDIV= 1.102E-01
MIN= 2.289E-01 MAX= 6.234E-01

SAMPLE 22 B



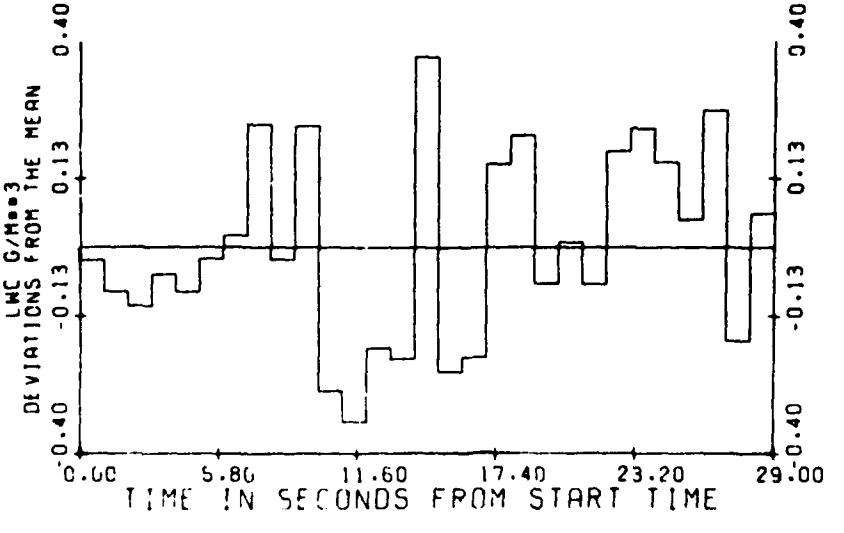
FLT E79-04 24 JAN 79
21 24 07 - 21 24 17
TYPE=RAIN PROBE= TOTAL
MEAN= 6.982E-01 STANDIV= 2.573E-01
MIN= 1.798E-01 MAX= 1.048E+00

SAMPLE 23 A



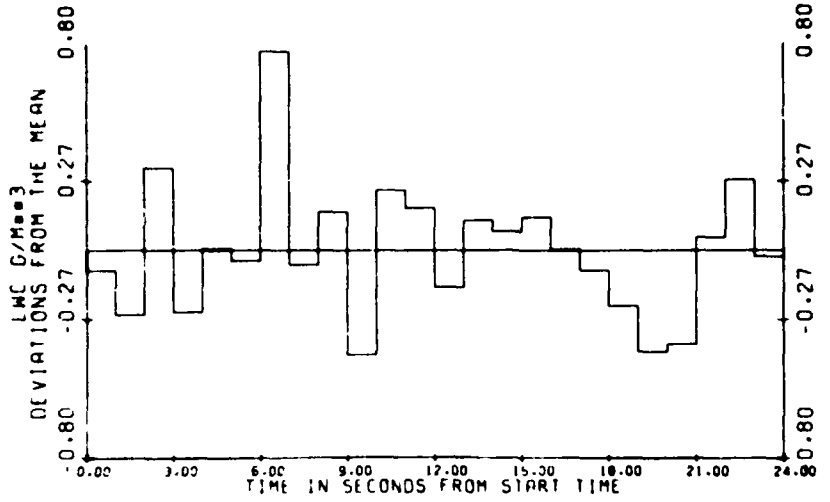
FLT E79-04 24 JAN 79
21 24 30 - 21 24 58
TYPE=RAIN PROBE= TOTAL
MEAN= 7.519E-01 STANDIV= 1.826E-01
MIN= 4.140E-01 MAX= 1.120E+00

SAMPLE 23 B



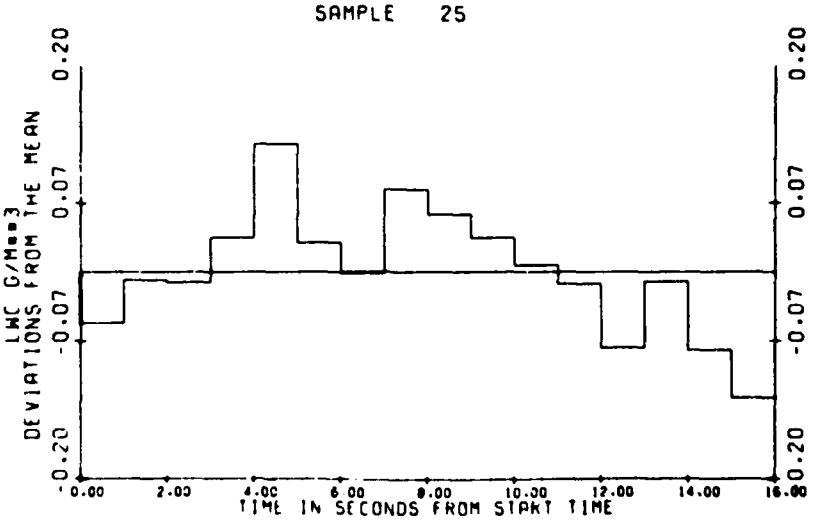
FLT E79-04 24 JAN 79
21 25 02 - 21 25 25
TYPE=RAIN PROBE= TOTAL
MEAN= 1.171E+00 STANDIV= 2.539E-01
MIN= 7.697E-01 MAX= 1.937E+00

SAMPLE 24



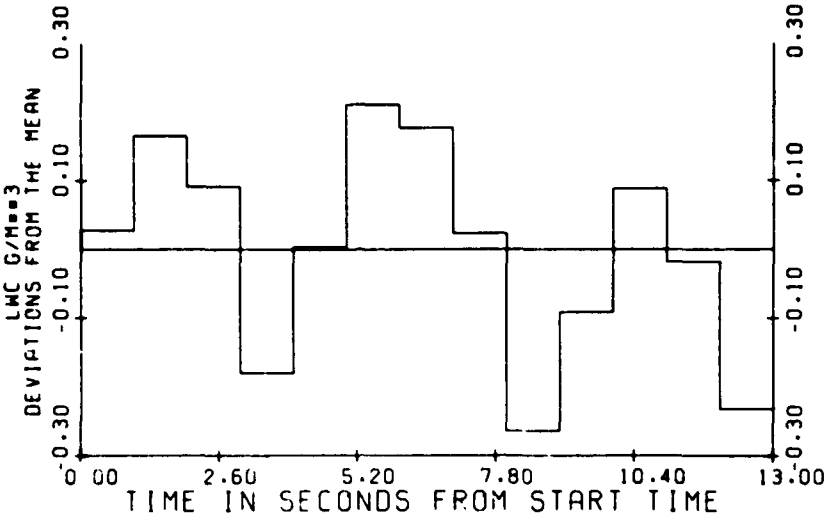
FLT E79-04 24 JAN 79
21 26 36 - 21 26 51
TYPE=RAIN PROBE= TOTAL
MEAN= 1.291E-01 STANDIV= 5.943E-02
MIN= 7.373E-03 MAX= 2.527E-01

SAMPLE 25



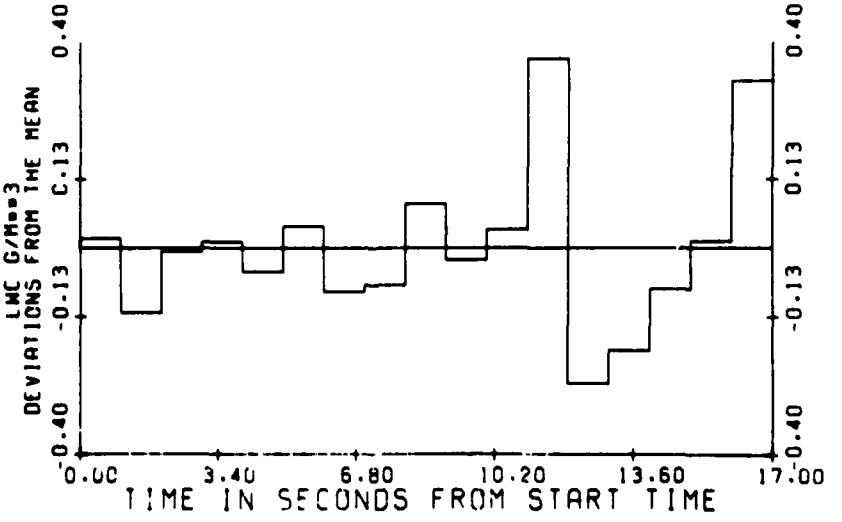
FLT E79-04 24 JAN 79
21 28 28 - 21 28 40
TYPE=RAIN PROBE= TOTAL
MEAN= 3.756E-01 STANDIV= 1.478E-01
MIN= 1.117E-01 MAX= 5.853E-01

SAMPLE 26



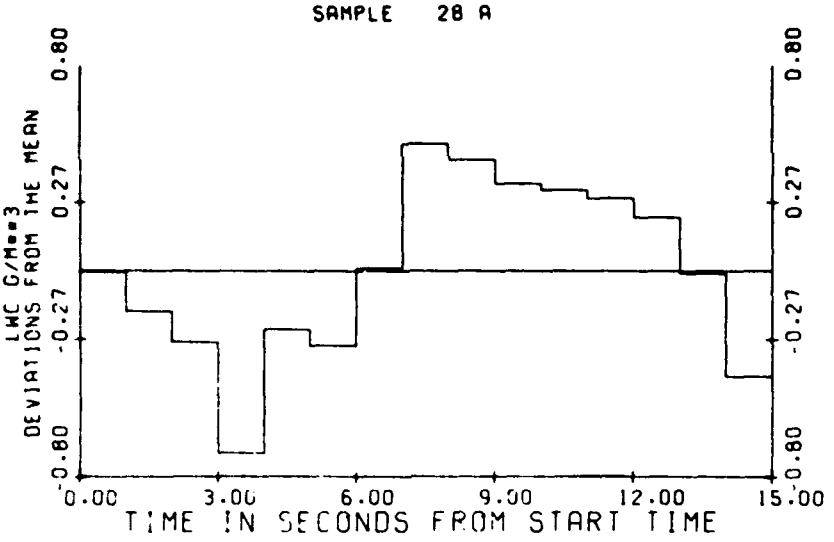
FLT E79-04 24 JAN 79
21 29 38 - 21 29 54
TYPE=RAIN PROBE= TOTAL
MEAN= 7.073E-01 STANDIV= 1.526E-01
MIN= 4.450E-01 MAX= 1.074E+00

SAMPLE 27



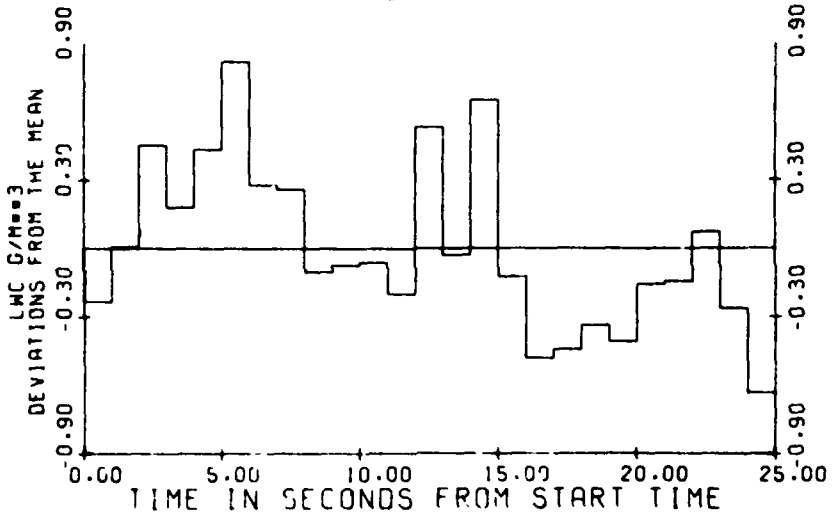
FLT E79-04 24 JAN 79
21 34 18 - 21 34 32
TYPE=RAIN PROBE= TOTAL
MEAN= 8.970E-01 STANDIV= 3.337E-01
MIN= 1.892E-01 MAX= 1.390E+00

SAMPLE 28 A



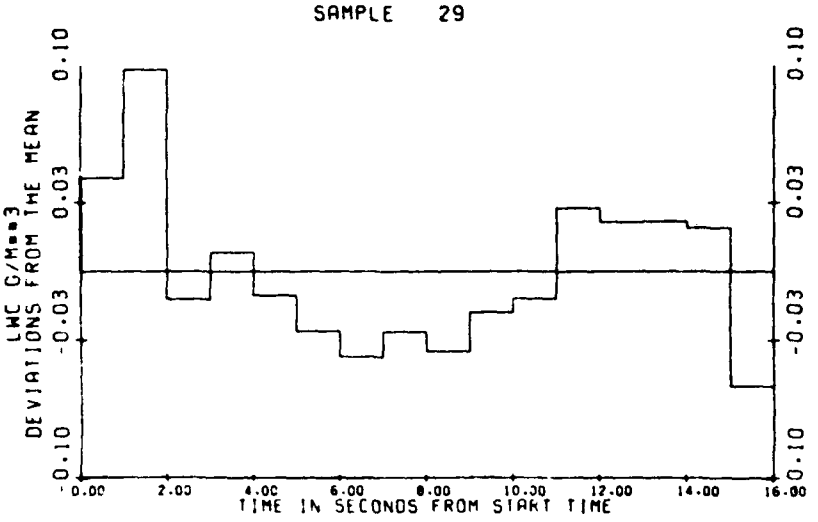
FLT E79-04 24 JAN 79
21 44 06 - 21 44 30
TYPE=RAIN PROBE= TOTAL
MEAN= 1.188E+00 STANDIV= 3.632E-01
MIN= 5.554E-01 MAX= 2.006E+00

SAMPLE 28 B



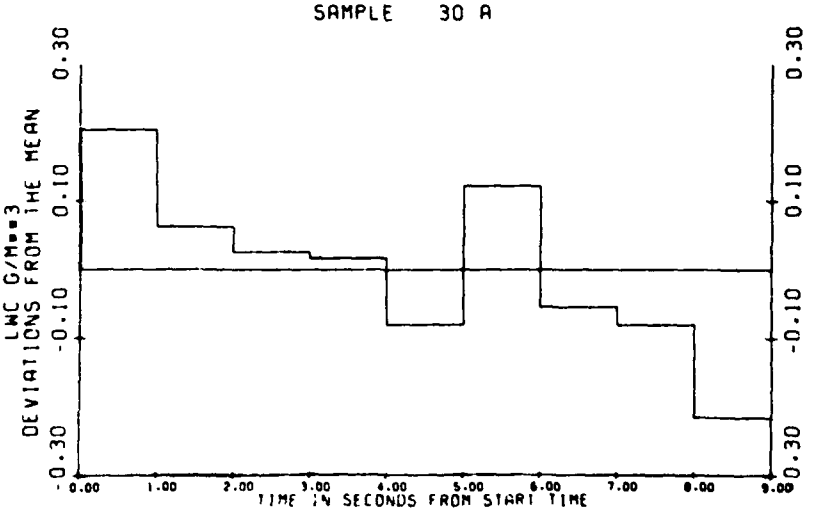
FLT E79-04 24 JAN 79
21 36 11 - 21 36 26
TYPE=RAIN PROBE= TOTAL
MEAN= 9.163E-02 STANDIV= 3.795E-02
MIN= 3.611E-02 MAX= 1.892E-01

SAMPLE 29



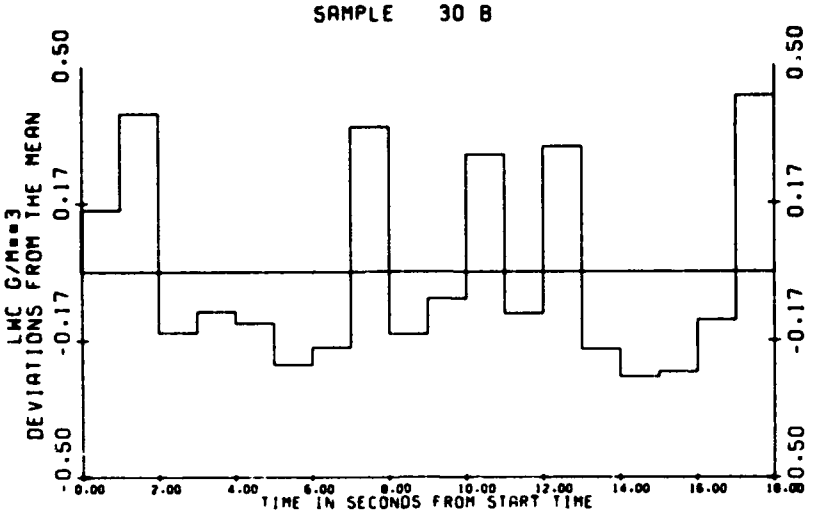
FLT E79-04 24 JAN 79
21 37 34 - 21 37 42
TYPE=RAIN PROBE= TOTAL
MEAN= 2.615E-01 STANDIV= 1.172E-01
MIN= 4.626E-02 MAX= 4.653E-01

SAMPLE 30 A



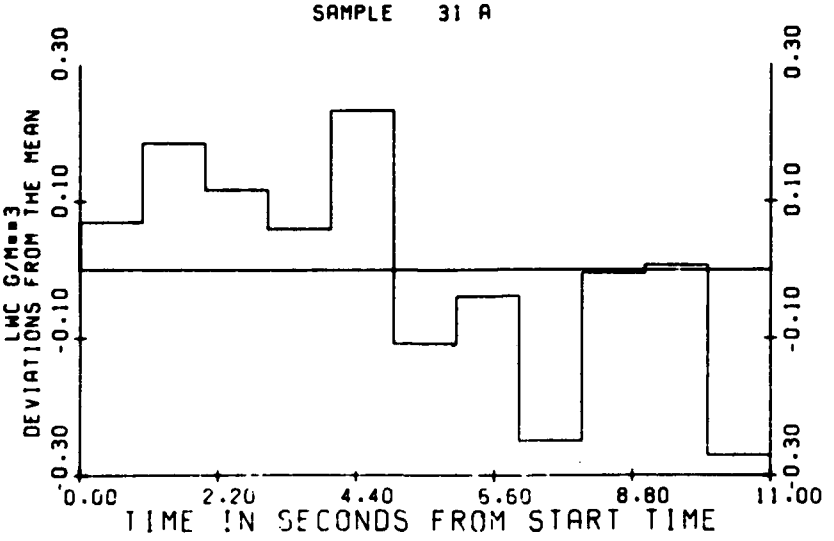
FLT E79-04 24 JAN 79
22 10 09 - 22 10 26
TYPE=RAIN PROBE= TOTAL
MEAN= 3.038E-01 STANDIV= 2.341E-01
MIN= 4.885E-02 MAX= 7.295E-01

SAMPLE 30 B



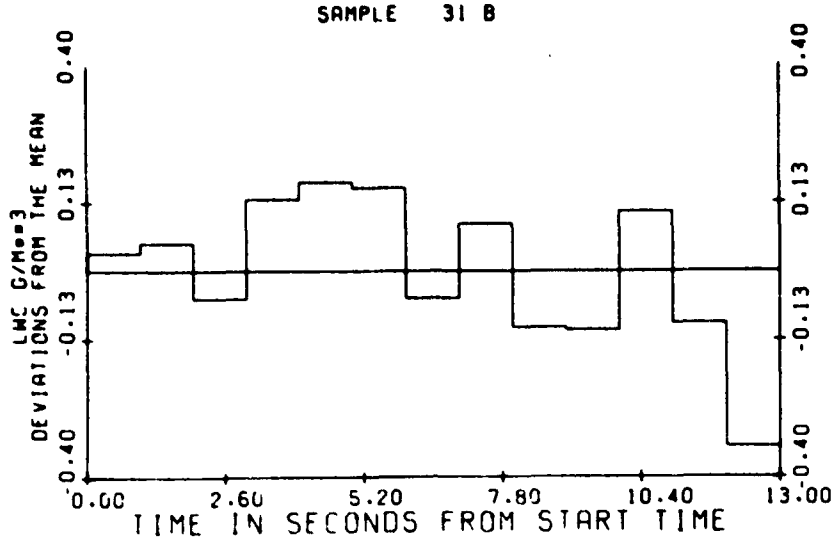
FLT E79-04 24 JAN 79
21 39 14 - 21 39 24
TYPE=RAIN PROBE= TOTAL
MEAN= 5.425E-01 STANDIV= 1.534E-01
MIN= 2.721E-01 MAX= 7.750E-01

SAMPLE 31 A



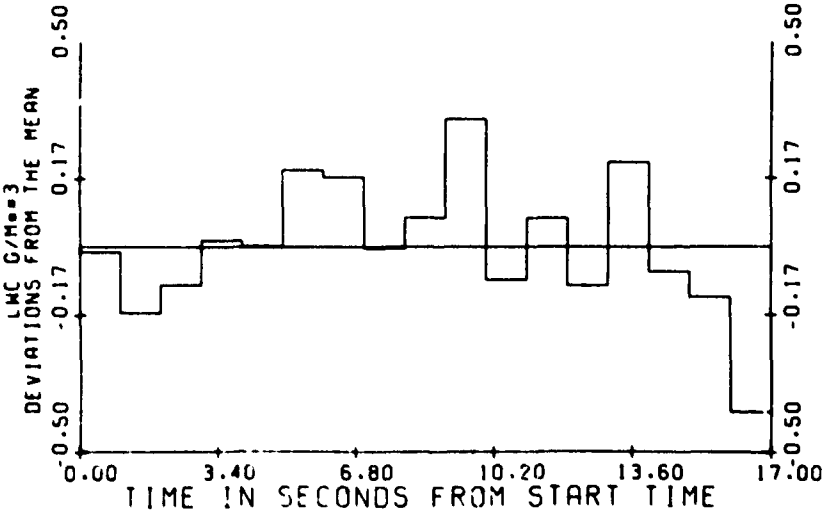
FLT E79-04 24 JAN 79
22 15 47 - 22 15 59
TYPE=RAIN PROBE= TOTAL
MEAN= 3.968E-01 STANDIV= 1.410E-01
MIN= 5.612E-02 MAX= 5.701E-01

SAMPLE 31 B



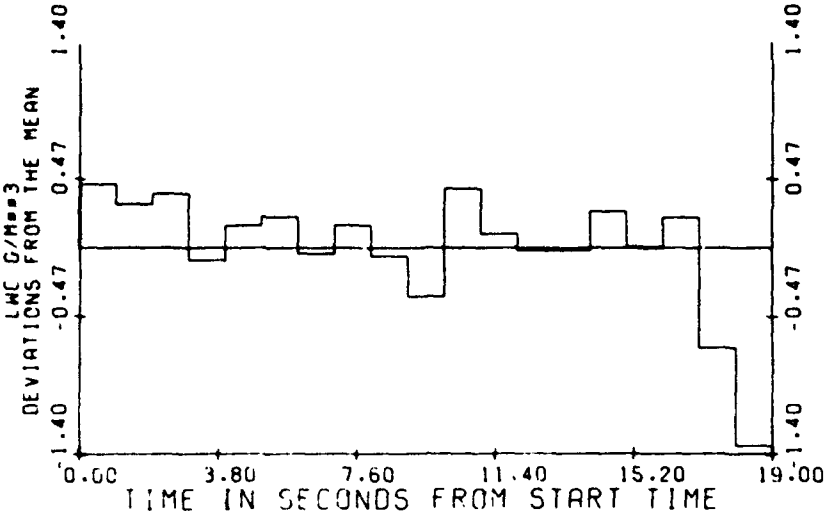
FLT E79-04 24 JAN 79
21 39 33 - 21 39 49
TYPE=RAIN PROBE= TOTAL
MEAN= 9.806E-01 STANDIV= 1.615E-01
MIN= 5.788E-01 MAX= 1.292E+00

SAMPLE 32 A



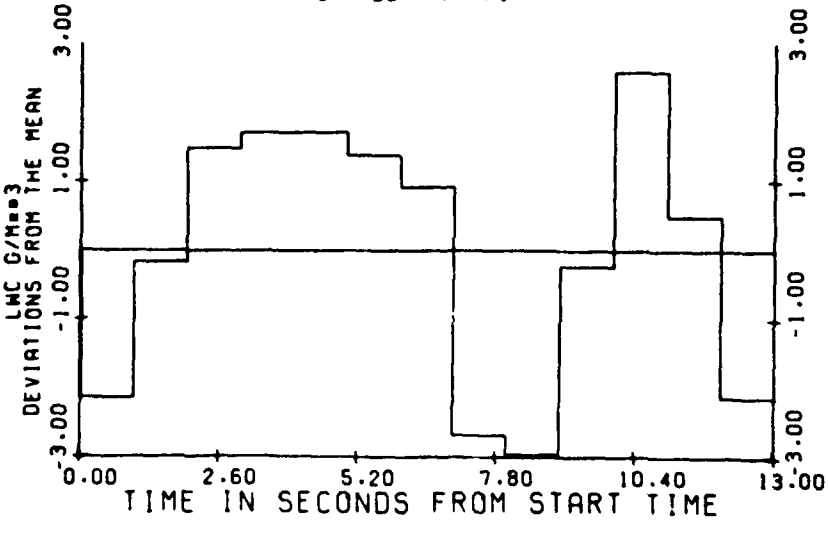
FLT E79-04 24 JAN 79
22 17 37 - 22 17 55
TYPE=RAIN PROBE= TOTAL
MEAN= 1.593E+00 STANDIV= 4.078E-01
MIN= 2.487E-01 MAX= 2.025E+00

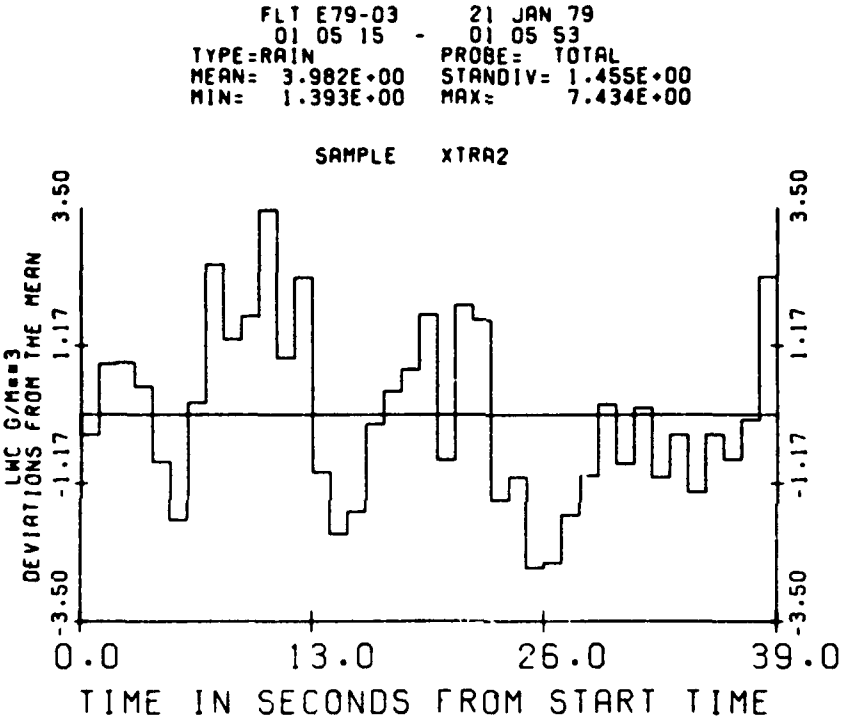
SAMPLE 32 B



FLT E79-03 21 JAN 79
01 02 57 - 01 03 09
TYPE=RAIN PROBE= TOTAL
MEAN= 3.651E+00 STANDIV= 1.818E+00
MIN= 6.892E-01 MAX= 6.240E+00

SAMPLE XTRA1




FLT E79-03 21 JAN 79
01 05 15 - 01 05 53
TYPE=RAIN PROBE= TOTAL
MEAN= 3.982E+00 STANDIV= 1.455E+00
MIN= 1.393E+00 MAX= 7.434E+00
SAMPLE XTRA2
LWC G/M**3
DEVIATIONS FROM THE MEAN
3.50
1.17
-1.17
-3.50
0.0
13.0
26.0
39.0
TIME IN SECONDS FROM START TIME

Appendix C

One-Second Data

PMS 1-D printouts of data at 10-sec intervals are given for all sampling passes listed in Table 1. A detailed description of the format of the printouts is given in Figure A2. The data illustrate the range of liquid water values and distributions occurring within the spray plume. Background samples indicate the particle quantities and distributions present in clear air at the flight levels of the tests.

PRECEDING PAGE BLANK - NOT FILMED

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 2?:57:00@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 552.7
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.826
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	128.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 2?:57:02@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 552.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.832
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	126.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 2?:57:04@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 552.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.828
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	127.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 2?:57:03@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 552.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.835
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.5
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	126.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#27157804*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.9
2	..	25	0.	404	..	ALT (KM)
4	0.	43	0.	647	0.	4.838
6	..	62	..	944	..	
8	..	82	..	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.5
12	..	122	..	1835	0.	
14	..	141	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.4
18	0.	181	0.	2726	0.	
20	..	201	..	3023	0.	TAS (M/S)
22	0.	221	..	3320	0.	125.0
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	..	NT (N/M3)
28	..	281	0.	4211	..	0.0
30	0.	30	..	4508	0.	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#27157805*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	..	25	..	404	0.	ALT (KM)
4	0.	43	..	647	..	4.845
6	0.	62	..	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	..	-10.5
12	..	122	0.	1835	..	
14	0.	142	0.	2132	0.	FROSTPOINT
16	..	161	0.	2429	0.	-32.5
18	0.	181	..	2726	0.	
20	..	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	..	123.9
24	..	241	..	3617	0.	
26	..	261	0.	3914	0.	NT (N/M3)
28	0.	281	..	4211	0.	0.0
30	..	301	0.	4508	..	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#27157803*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	0.	25	..	404	..	ALT (KM)
4	0.	43	0.	647	..	4.842
6	0.	62	0.	944	0.	
8	0.	82	..	1241	..	TEMP (C)
10	..	102	0.	1538	0.	-10.5
12	0.	122	..	1835	0.	
14	..	141	..	2132	0.	FROSTPOINT
16	..	161	..	2429	..	-32.5
18	..	181	..	2726	0.	
20	..	201	..	3.23	..	TAS (M/S)
22	..	221	..	3320	..	124.4
24	0.	241	0.	3617	0.	
26	..	261	..	3914	..	NT (N/M3)
28	0.	281	0.	4211	..	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		..		..	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#27157807*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	..	25	0.	404	0.	ALT (KM)
4	..	43	0.	647	0.	4.846
6	..	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	..	102	0.	1538	0.	-10.5
12	0.	122	0.	1835	..	
14	0.	141	..	2132	..	FROSTPOINT
16	0.	161	0.	2429	..	-32.5
18	..	181	..	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	..	221	..	3320	0.	123.3
24	0.	241	..	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	..	0.0
30	0.	301	0.	4508	..	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@2315763*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	0.	23	0.	404	0.	ALT (KM)
4	..	48	0.	647	0.	4.850
6	0.	64	..	944	0.	
8	0.	92	0.	1241	0.	TEMP (C)
10	..	112	..	1538	0.	-10.5
12	..	122	..	1835	0.	
14	..	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.5
18	0.	181	0.	2726	0.	
20	..	201	..	3023	0.	TAS (M/S)
22	0.	221	0.	3320	..	122.8
24	..	241	0.	3617	0.	
26	..	261	0.	3914	0.	NT (N/M3)
28	..	281	..	4211	0.	0.0
30	0.	301	..	4508	0.	
						TOTALS
LWC	..		0.		0.	0.
MED D	0		0	0		0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@2315781*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	0.	23	0.	404	0.	ALT (KM)
4	..	48	..	647	..	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	..	102	0.	1538	..	-10.6
12	0.	122	0.	1835	0.	
14	..	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	..	-32.5
18	..	181	..	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	..	122.1
24	0.	241	..	3617	0.	
26	..	260	..	3914	..	NT (N/M3)
28	0.	281	..	4214	..	0.0
30	..	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		.	0.
MED D	0		0	0		0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@2315763*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	..	23	..	404	0.	ALT (KM)
4	0.	48	0.	647	0.	4.850
6	0.	62	0.	944	0.	
8	..	82	..	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.5
12	0.	122	0.	1835	0.	
14	0.	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	..	-32.5
18	..	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	122.6
24	..	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	..	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0	0		0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@2315781*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	..	23	..	404	0.	ALT (KM)
4	0.	48	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	..	82	..	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.6
12	..	122	0.	1835	0.	
14	0.	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.5
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	..	121.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	..	280	0.	4211	..	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0	0		0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 29 JAN 79 1 SECOND AVERAGING
INTERVAL START#23857812*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.850
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.6
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.7
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 29 JAN 79 1 SECOND AVERAGING
INTERVAL START#23857816*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.849
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.6
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.4
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 29 JAN 79 1 SECOND AVERAGING
INTERVAL START#23857813*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.849
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.6
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 29 JAN 79 1 SECOND AVERAGING
INTERVAL START#23857819*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.853
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.6
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.3
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2?857?13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	**	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.846
6	**	62	**	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	**	-10.7
12	**	122	0.	1835	**	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.6
18	0.	181	0.	2726	**	
20	0.	201	0.	3023	0.	TAS (M/S)
22	**	221	**	3320	0.	121.5
24	**	241	0.	3617	0.	
26	**	261	**	3914	**	NT (N/M3)
28	**	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2?857?13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.846
6	0.	62	**	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	**	102	0.	1538	0.	-10.7
12	**	122	**	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	**	-32.6
18	0.	181	**	2726	0.	
20	**	201	**	3023	0.	TAS (M/S)
22	**	221	0.	3320	**	122.0
24	**	241	0.	3617	0.	
26	0.	261	**	3914	**	NT (N/M3)
28	**	281	0.	4211	**	0.0
30	**	301	0.	4508	0.	
						TOTALS
LWC	**		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2?857?17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	0.	23	0.	404	0.	ALT (KM)
4	**	43	**	647	0.	4.847
6	**	62	**	944	0.	
8	0.	82	**	1241	**	TEMP (C)
10	0.	102	0.	1538	0.	-10.8
12	**	122	**	1835	**	
14	0.	142	**	2132	0.	F-OSTPOINT
16	0.	161	**	2429	0.	-32.6
18	**	181	**	2726	**	
20	**	201	**	3023	0.	TAS (M/S)
22	**	221	**	3320	0.	122.0
24	0.	241	**	3617	0.	
26	**	261	0.	3914	**	NT (N/M3)
28	**	281	**	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		**		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2?857?13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	**	647	0.	4.846
6	0.	62	**	944	0.	
8	**	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	**	122	**	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	**	-32.6
18	**	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	**	221	0.	3320	0.	121.6
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	**	4211	0.	0.0
30	**	301	**	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157120*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	..	23	0.	404	0.	ALT (KM)
4	..	45	..	647	0.	4.846
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	122	0.	1835	..	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	..	TAS (M/S)
22	0.	221	0.	3320	0.	122.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	..	NT (N/M3)
28	..	280	..	4211	..	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157122*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) >51.4
2	0.	23	..	404	0.	ALT (KM)
4	0.	47	0.	647	0.	4.845
6	0.	62	..	944	..	
8	0.	82	..	1241	..	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	122	..	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	..	-32.7
18	0.	181	..	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	..	221	..	3320	0.	121.5
24	..	241	..	3617	0.	
26	..	260	0.	3914	..	NT (N/M3)
28	0.	280	0.	4211	..	0.0
30	..	300	..	4508	0.	
						TOTALS
LWC	0.		..		..	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157218*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	45	0.	647	0.	4.846
6	0.	62	0.	944	0.	
8	0.	82	..	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	..	122	..	1835	0.	
14	..	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.7
18	..	181	0.	2726	0.	
20	..	201	0.	3023	0.	TAS (M/S)
22	..	221	0.	3320	0.	122.4
24	0.	241	0.	3617	0.	
26	0.	260	..	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	..	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157223*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) >51.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	45	0.	647	0.	4.846
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	..	-10.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	..	-32.7
18	0.	181	0.	2726	..	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.5
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	..	4211	0.	0.0
30	..	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157:24*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.846
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	7.631E+06	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.847
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	9.98E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.845
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	121.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@*23157:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.847
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	122.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23157123@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) >51.3
2	0.	23	..	404	0.	ALT (KM)
4	..	43	0.	647	0.	4.846
6	0.	62	..	944	..	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.7
12	0.	121	..	1835	0.	
14	0.	142	..	2132	0.	FROSTPOINT
16	0.	161	..	2429	0.	-32.7
18	0.	181	..	2726	0.	
21	0.	201	0.	3023	..	TAS (M/S)
22	0.	221	..	3320	0.	122.0
24	0.	241	0.	3617	0.	
26	..	261	..	3914	..	NT (N/M3)
28	..	280	..	4211	0.	0.0
30	0.	30	..	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23157833@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	..	4.845
6	0.	62	0.	944	0.	
8	0.	82	..	1241	0.	TEMP (C)
10	..	102	0.	1538	..	-10.8
12	0.	122	..	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	..	161	..	2429	..	-32.7
18	0.	181	..	2726	0.	
21	0.	201	0.	3023	0.	TAS (M/S)
22	..	221	0.	3320	..	122.5
24	0.	241	..	3617	0.	
26	..	26	..	3914	..	NT (N/M3)
28	..	281	0.	4211	..	0.0
30	0.	301	..	4508	0.	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23157823@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	0.	23	0.	404	..	ALT (KM)
4	0.	43	0.	647	0.	4.845
6	0.	62	0.	944	0.	
8	0.	82	..	1241	0.	TEMP (C)
10	0.	102	0.	1538	..	-10.8
12	..	122	0.	1835	0.	
14	..	142	0.	2132	..	FROSTPOINT
16	0.	162	..	2429	..	-32.7
18	..	181	..	2726	0.	
20	..	201	..	3023	0.	TAS (M/S)
22	..	221	..	3320	..	122.2
24	0.	241	..	3617	0.	
26	0.	261	..	3914	0.	NT (N/M3)
28	0.	280	0.	4211	..	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23157831@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	..	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.843
6	..	62	..	944	0.	
8	..	82	..	1241	0.	TEMP (C)
10	0.	102	..	1538	0.	-10.8
12	..	122	..	1835	..	
14	..	142	..	2132	0.	FROSTPOINT
16	0.	162	..	2429	0.	-32.7
18	..	181	..	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	..	221	..	3320	..	122.5
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	..	NT (N/M3)
28	..	281	..	4211	0.	0.0
30	..	300	0.	4508	0.	
						TOTALS
LWC	0.		..		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@23857832*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	[illegible]	23	[illegible]	404	[illegible]	ALT (KM)
4	0.	43	[illegible]	647	[illegible]	4.843
5	[illegible]	62	[illegible]	944	0.	
8	[illegible]	82	[illegible]	1241	[illegible]	TEMP (C)
10	0.	102	[illegible]	1538	0.	-10.8
12	0.	122	[illegible]	1835	[illegible]	
14	[illegible]	142	[illegible]	2132	0.	FROSTPOINT
16	[illegible]	161	[illegible]	2429	[illegible]	-32.7
18	[illegible]	181	[illegible]	2726	0.	
20	0.	201	[illegible]	3023	0.	TAS (M/S)
22	[illegible]	221	[illegible]	3320	[illegible]	122.6
24	0.	241	0.	3617	0.	
26	[illegible]	261	[illegible]	3914	[illegible]	NT (N/M3)
28	[illegible]	280	[illegible]	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	[illegible]		[illegible]			0.
MED D	0	0		0		0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@23857835*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	0.	23	[illegible]	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.842
5	0.	62	[illegible]	944	0.	
8	[illegible]	82	0.	1241	0.	TEMP (C)
10	0.	102	[illegible]	1538	[illegible]	-10.8
12	[illegible]	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	162	0.	2429	[illegible]	-32.1
18	0.	181	[illegible]	2726	[illegible]	
20	0.	201	0.	3023	0.	TAS (M/S)
22	[illegible]	221	[illegible]	3320	0.	122.2
24	0.	241	[illegible]	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	[illegible]	0.0
30	0.	300	[illegible]	4508	0.	
						TOTALS
LWC	0.		0.		[illegible]	0.
MED D	0	0		0		0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON 23 JAN 7[illegible] 1 SECOND AVERAGING
INTERVAL START@23857833*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	[illegible]	23	[illegible]	404	[illegible]	ALT (KM)
4	7.64E-05	43	[illegible]	647	[illegible]	4.847
5	0.	62	0.	944	0.	
8	[illegible]	82	[illegible]	1241	[illegible]	TEMP (C)
10	[illegible]	102	[illegible]	1538	[illegible]	-10.8
12	0.	122	[illegible]	1835	0.	
14	[illegible]	142	[illegible]	2132	0.	FROSTPOINT
16	[illegible]	161	[illegible]	2429	[illegible]	-32.7
18	0.	181	[illegible]	2726	0.	
20	[illegible]	201	[illegible]	3023	0.	TAS (M/S)
22	[illegible]	221	[illegible]	3320	[illegible]	122.5
24	0.	241	[illegible]	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	[illegible]	280	[illegible]	4211	[illegible]	0.0
30	0.	300	[illegible]	4508	0.	
						TOTALS
LWC	6.24E-07		0.		[illegible]	0.
MED D	4	4		0		0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@23857835*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	[illegible]	23	0.	404	0.	ALT (KM)
4	0.	43	[illegible]	647	0.	4.842
5	0.	62	[illegible]	944	0.	
8	[illegible]	82	[illegible]	1241	[illegible]	TEMP (C)
10	0.	102	[illegible]	1538	0.	-10.8
12	[illegible]	122	[illegible]	1835	0.	
14	[illegible]	142	[illegible]	2132	0.	FROSTPOINT
16	0.	161	[illegible]	2429	[illegible]	-32.8
18	0.	181	[illegible]	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	[illegible]	3320	0.	122.2
24	[illegible]	241	[illegible]	3617	0.	
26	[illegible]	261	[illegible]	3914	0.	NT (N/M3)
28	0.	280	[illegible]	4211	0.	0.0
30	[illegible]	300	0.	4508	0.	
						TOTALS
LWC	0.		[illegible]		[illegible]	0.
MED D	0	0		0		0

AFFRC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	..	23	..	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.840
6	0.	62	..	944	..	
8	0.	82	..	1241	0.	TEMP (C)
10	0.	102	..	1538	0.	-10.8
12	0.	122	..	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	..	161	..	2429	0.	-32.8
18	0.	181	0.	2726	0.	
20	..	201	..	3023	.	TAS (M/S)
22	0.	221	0.	3320	..	122.2
24	..	241	0.	3617	0.	
26	..	261	0.	3914	..	NT (N/M3)
28	0.	281	..	4211	0.	0.0
30	..	301	0.	4508	..	
						TOTALS
LWC	..		0.		..	0.
MED D	0		0		0	0

AFFRC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	0.	23	0.	404	0.	ALT (KM)
4	..	43	..	647	0.	4.840
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	..	-10.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.9
18	..	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	..	3320	0.	122.3
24	0.	241	0.	3617	0.	
26	0.	261	..	3914	..	NT (N/M3)
28	..	281	0.	4211	..	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0		0	0

AFFRC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:37*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	0.	23	..	404	..	ALT (KM)
4	..	43	0.	647	0.	4.840
6	0.	62	..	944	0.	
8	..	82	..	1241	0.	TEMP (C)
10	..	102	0.	1538	..	-10.8
12	..	122	..	1835	0.	
14	..	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.8
18	..	181	..	2726	0.	
20	0.	201	..	3023	0.	TAS (M/S)
22	..	221	..	3320	..	122.1
24	..	241	..	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	..	4211	..	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0		0	0

AFFRC ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	0.	23	0.	404	0.	ALT (KM)
4	..	43	0.	647	0.	4.839
6	..	62	0.	944	0.	
8	..	82	..	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.9
12	..	122	0.	1835	..	
14	..	142	0.	2132	0.	FROSTPOINT
16	0.	162	0.	2429	0.	-32.8
18	..	181	..	2726	0.	
20	..	201	0.	3023	0.	TAS (M/S)
22	0.	221	..	3320	0.	122.0
24	0.	241	..	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	..	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTD ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON [illegible] JAN 79 1 SECOND AVERAGING
INTERVAL START#23157[illegible]
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
	[illegible]	2[illegible]	[illegible]	4[illegible]	[illegible]	ALT (KM)
[illegible]	[illegible]	[illegible]	[illegible]	647	[illegible]	4.842
[illegible]	[illegible]	[illegible]	[illegible]	944	[illegible]	
[illegible]	[illegible]	82	[illegible]	1241	[illegible]	TEMP (C)
1[illegible]	[illegible]	[illegible]	[illegible]	1538	[illegible]	-10.9
[illegible]2	[illegible]	[illegible]	[illegible]	1835	[illegible]	
14	[illegible]	[illegible]	[illegible]	2132	[illegible]	FROSTPOINT
[illegible]6	[illegible]	161	[illegible]	2429	[illegible]	-32.4
18	[illegible]	191	[illegible]	2726	[illegible]	
20	[illegible]	221	[illegible]	3023	[illegible]	TAS (M/S)
22	[illegible]	251	[illegible]	3320	[illegible]	121.7
24	[illegible]	281	[illegible]	3617	[illegible]	
26	[illegible]	[illegible]1[illegible]	[illegible]	3914	[illegible]	NT (N/M3)
28	[illegible]	[illegible]1[illegible]	[illegible]	4211	[illegible]	[illegible].[illegible]
3[illegible]	[illegible]	3[illegible]	[illegible]	4508	[illegible]	
						TOTALS
LWC	6.231E-7		[illegible]		[illegible]	0.
MED D	4		[illegible]		[illegible]	[illegible]

AFFTD ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START#23157[illegible]
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	[illegible]	2[illegible]	[illegible]	4[illegible]	[illegible]	ALT (KM)
[illegible]	[illegible]	[illegible]	[illegible]	647	[illegible]	4.842
[illegible]	[illegible]	[illegible]	[illegible]	944	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	1241	[illegible]	TEMP (C)
[illegible]	[illegible]	[illegible]	[illegible]	1538	[illegible]	-10.9
[illegible]2	[illegible]	[illegible]	[illegible]	1835	[illegible]	
14	[illegible]	[illegible]	[illegible]	2132	[illegible]	FROSTPOINT
[illegible]6	[illegible]	161	[illegible]	2429	[illegible]	-32.4
18	[illegible]	191	[illegible]	2726	[illegible]	
20	[illegible]	[illegible]	[illegible]	3023	[illegible]	TAS (M/S)
22	[illegible]	[illegible]	[illegible]	3320	[illegible]	121.5
24	[illegible]	[illegible]	[illegible]	3617	[illegible]	
26	[illegible]	[illegible]	[illegible]	3914	[illegible]	NT (N/M3)
28	[illegible]	[illegible]	[illegible]	4211	[illegible]	0.0
3[illegible]	[illegible]	[illegible]	[illegible]	4508	[illegible]	
						TOTALS
LWC	[illegible]		[illegible]		[illegible]	0.
MED D	[illegible]		[illegible]		[illegible]	[illegible]

AFFTD ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON [illegible] JAN 79 1 SECOND AVERAGING
INTERVAL START#23157[illegible]
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	[illegible]	2[illegible]	[illegible]	434	[illegible]	ALT (KM)
[illegible]	[illegible]	[illegible]3	[illegible]	647	[illegible]	4.840
6	[illegible]	62	[illegible]	94[illegible]	[illegible]	
[illegible]	[illegible]	92	[illegible]	1241	[illegible]	TEMP (C)
1[illegible]	[illegible]	1[illegible]2	[illegible]	1538	[illegible]	-10.9
[illegible]2	[illegible]	12[illegible]	[illegible]	1835	[illegible]	
14	[illegible]	142	[illegible]	2132	[illegible]	FROSTPOINT
[illegible]6	[illegible]	[illegible]7[illegible]	[illegible]	2429	[illegible]	-32.8
18	[illegible]	181	[illegible]	2726	[illegible]	
20	[illegible]	2[illegible]1	[illegible]	3023	[illegible]	TAS (M/S)
22	[illegible]	22[illegible]	[illegible]	3320	[illegible]	121.4
24	[illegible]	24[illegible]	[illegible]	3617	[illegible]	
26	0.	26[illegible]	[illegible]	3914	0.	NT (N/M3)
28	[illegible]	28[illegible]	[illegible]	4211	[illegible]	0.0
3[illegible]	[illegible]	30[illegible]	[illegible]	4508	[illegible]	
						TOTALS
LWC	0.		[illegible]		[illegible]	0.
MED D	0		0		0	0

AFFTD ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON [illegible] JAN 79 1 SECOND AVERAGING
INTERVAL START#23157[illegible]
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	[illegible]	2[illegible]	[illegible]	4[illegible]	[illegible]	ALT (KM)
[illegible]	[illegible]	[illegible]	[illegible]	647	[illegible]	4.842
[illegible]	[illegible]	[illegible]	[illegible]	944	[illegible]	
[illegible]	[illegible]	[illegible]2	[illegible]	1241	[illegible]	TEMP (C)
1[illegible]	[illegible]	[illegible]1[illegible]	[illegible]	1538	[illegible]	-10.9
[illegible]2	[illegible]	12[illegible]	[illegible]	1835	[illegible]	
14	[illegible]	[illegible]4[illegible]	[illegible]	2132	[illegible]	FROSTPOINT
[illegible]6	[illegible]	[illegible]6[illegible]	[illegible]	2429	[illegible]	-32.8
18	[illegible]	181	[illegible]	2726	[illegible]	
20	[illegible]	201	[illegible]	3023	[illegible]	TAS (M/S)
22	[illegible]	221	[illegible]	3320	[illegible]	121.3
24	[illegible]	241	[illegible]	3617	[illegible]	
26	[illegible]	26[illegible]	[illegible]	3914	[illegible]	NT (N/M3)
28	[illegible]	28[illegible]	[illegible]	4211	[illegible]	0.0
3[illegible]	[illegible]	30[illegible]	[illegible]	4508	[illegible]	
						TOTALS
LWC	0.		[illegible]		[illegible]	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON [illegible] JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:46@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	7.551E+05	23	0.	404	0.
4	0.	43	0.	647	0.
6	0.	63	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.

P (MB)	551.5
ALT (KM)	4.843
TEMP (C)	-10.9
FROSTPOINT	-32.8
TAS (M/S)	121.2
NT (N/M3)	0.0
TOTALS	
LWC	1.31E-07
MED D	2
	0.
	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON 20 JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:45@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	404	0.
4	0.	43	0.	647	0.
6	0.	63	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.

P (MB)	551.6
ALT (KM)	4.842
TEMP (C)	-10.9
FROSTPOINT	-32.8
TAS (M/S)	120.9
NT (N/M3)	0.0
TOTALS	
LWC	0.
MED D	0
	0.
	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON [illegible] JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:46@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	404	0.
4	0.	43	0.	647	0.
6	0.	63	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.

P (MB)	551.5
ALT (KM)	4.843
TEMP (C)	-10.9
FROSTPOINT	-32.8
TAS (M/S)	121.0
NT (N/M3)	0.0
TOTALS	
LWC	0.
MED D	0
	0.
	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-[illegible] ON [illegible] JAN 79 1 SECOND AVERAGING
INTERVAL START@23:57:47@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	404	0.
4	0.	43	0.	647	0.
6	0.	63	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.

P (MB)	551.4
ALT (KM)	4.845
TEMP (C)	-10.9
FROSTPOINT	-32.8
TAS (M/S)	120.4
NT (N/M3)	0.0
TOTALS	
LWC	0.
MED D	0
	0.
	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 30 JAN 79 1 SECOND AVERAGING
INTERVAL START=*23157843*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	0.	23	0.	404	0.	ALT (KM)
4	0.	47	0.	647	0.	4.845
6	0.	82	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	122	0.	1538	0.	-10.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	162	0.	2429	0.	-32.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	120.3
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 30 JAN 79 1 SECOND AVERAGING
INTERVAL START=*23157843*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.843
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	162	0.	2429	0.	-32.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	120.1
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 30 JAN 79 1 SECOND AVERAGING
INTERVAL START=*23157843*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.843
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	162	0.	2429	0.	-32.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	120.1
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFSL
FLIGHT E79-03 ON 30 JAN 79 1 SECOND AVERAGING
INTERVAL START=*23157851*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.843
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	162	0.	2429	0.	-32.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	120.0
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=23157852*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) >51.5
2	0.	23	..	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.843
6	0.	62	..	944	..	
8	0.	82	..	1241	..	TEMP (C)
10	..	102	..	1538	..	-10.8
12	..	122	..	1835	0.	
14	..	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.8
18	0.	181	0.	2726	0.	
20	0.	201	..	3023	0.	TAS (M/S)
22	..	221	..	3320	0.	120.0
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	..	NT (N/M3)
28	0.	280	..	4211	..	0.0
30	..	301	..	4508	0.	
						TOTALS
LWC	..		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=23157854*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	..	23	..	404	0.	ALT (KM)
4	0.	43	0.	647	..	4.842
6	0.	62	0.	944	0.	
8	..	82	0.	1241	0.	TEMP (C)
10	0.	102	..	1538	0.	-10.8
12	..	122	..	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	..	-32.8
18	..	181	..	2726	0.	
20	0.	201	..	3023	0.	TAS (M/S)
22	0.	221	..	3320	0.	119.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.8
30	..	301	..	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=23157853*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) >51.5
2	..	23	..	404	..	ALT (KM)
4	..	43	0.	647	0.	4.843
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	..	102	0.	1538	..	-10.8
12	..	122	0.	1835	0.	
14	..	142	..	2132	0.	FROSTPOINT
16	0.	161	0.	2429	..	-32.8
18	..	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	..	221	0.	3320	0.	119.9
24	0.	241	..	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	..	0.0
30	..	301	..	4508	0.	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0		0	0

AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-3 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=23157855*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	..	647	0.	4.842
6	0.	62	0.	944	0.	
8	0.	82	..	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-10.8
12	0.	122	..	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.8
18	..	181	..	2726	..	
20	..	201	..	3023	0.	TAS (M/S)
22	0.	221	..	3320	0.	119.8
24	..	241	0.	3617	0.	
26	0.	260	0.	3914	..	NT (N/M3)
28	..	280	0.	4211	0.	0.8
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		..	0.
MED D	0		0		0	0

AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 23:57:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.842
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-10.8
12	0.	123	0.	1835	0.	
14	0.	143	0.	2132	0.	FROSTPOINT
16	0.	163	0.	2429	0.	-32.8
18	0.	183	0.	2726	0.	
20	0.	203	0.	3023	0.	TAS (M/S)
22	0.	223	0.	3320	0.	120.0
24	0.	243	0.	3617	0.	
26	0.	263	0.	3914	0.	NT (N/M3)
28	0.	283	0.	4211	0.	0.0
30	0.	303	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 23:57:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.838
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-10.8
12	0.	123	0.	1835	0.	
14	0.	143	0.	2132	0.	FROSTPOINT
16	0.	163	0.	2429	0.	-32.8
18	0.	183	0.	2726	0.	
20	0.	203	0.	3023	0.	TAS (M/S)
22	0.	223	0.	3320	0.	119.7
24	0.	243	0.	3617	0.	
26	0.	263	0.	3914	0.	NT (N/M3)
28	0.	283	0.	4211	0.	0.0
30	0.	303	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 23 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 23:57:57*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.8
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.839
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-10.8
12	0.	123	0.	1835	0.	
14	0.	143	0.	2132	0.	FROSTPOINT
16	0.	163	0.	2429	0.	-32.8
18	0.	183	0.	2726	0.	
20	0.	203	0.	3023	0.	TAS (M/S)
22	0.	223	0.	3320	0.	119.8
24	0.	243	0.	3617	0.	
26	0.	263	0.	3914	0.	NT (N/M3)
28	0.	283	0.	4211	0.	0.0
30	0.	303	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 23:57:59*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 552.0
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.836
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-10.8
12	0.	123	0.	1835	0.	
14	0.	143	0.	2132	0.	FROSTPOINT
16	0.	163	0.	2429	0.	-32.8
18	0.	183	0.	2726	0.	
20	0.	203	0.	3023	0.	TAS (M/S)
22	0.	223	0.	3320	0.	119.8
24	0.	243	0.	3617	0.	
26	0.	263	0.	3914	0.	NT (N/M3)
28	0.	283	0.	4211	0.	0.0
30	0.	303	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 20:52:00*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.847
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	137.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 20:52:02*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.846
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	137.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 20:52:01*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.846
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	137.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 20:52:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.847
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=20:52:04*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.849
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	137.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0	0		0	0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=20:52:06*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	6.58E+05	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.850
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	8.86E-08		0.		0.	0.
MED D	2	0		0	0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=20:52:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.847
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.7
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0	0		0	0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=20:52:07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	6.69E+05	23	0.	404	0.	ALT (KM)
4	6.69E+05	43	0.	647	0.	4.850
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	6.69E-07		0.		0.	0.
MED D	4	0		0	0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:52:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.9
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:52:10*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.6
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:52:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	6.71E+06	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.4
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	8.91E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:52:11*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.6
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.5
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:14*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.859
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.1
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	6.72E+06	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.850
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.2
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	8.92E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.859
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	136.9
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.853
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.0
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.854
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*2E:52:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 560.6
2	0.	23	0.	414	0.	ALT (KM)
4	0.	43	0.	647	0.	4.854
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-15.6
12	0.	123	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/MT)
28	0.	283	0.	4211	0.	0.0
30	0.	310	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*2E:52:22*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.9
2	6.73E+06	23	0.	414	0.	ALT (KM)
4	0.	43	0.	647	0.	4.859
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-15.6
12	0.	123	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.7
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/MT)
28	0.	289	0.	4211	0.	0.0
30	0.	310	0.	4508	0.	
						TOTALS
LWC	9.02E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*2E:52:71*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	0.	23	0.	414	0.	ALT (KM)
4	0.	43	0.	647	0.	4.859
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-15.6
12	0.	123	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.7
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/MT)
28	0.	283	0.	4211	0.	0.0
30	0.	310	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*2E:52:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	0.	23	0.	414	0.	ALT (KM)
4	0.	43	0.	647	0.	4.859
6	0.	63	0.	944	0.	
8	0.	83	0.	1241	0.	TEMP (C)
10	0.	103	0.	1538	0.	-15.6
12	0.	123	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.7
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/MT)
28	0.	283	0.	4211	0.	0.0
30	0.	310	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=2215212.0
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.856
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/MB)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=2215212.5
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/MB)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=2215212.5
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.854
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.7
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/MB)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=2215212.0
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	6.81E+06	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.852
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.4
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/MB)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	9.64E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.856
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.5
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.854
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.7
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.859
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.853
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.7
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	301	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:32*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.857
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.4
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:34*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.856
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.857
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@20:52:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.857
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-20.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	C.OUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.857
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-28.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:36
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	C.OUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.863
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-28.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	C.OUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.868
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-28.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	C.OUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.861
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-28.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	434	0.
4	0.	43	0.	647	0.
6	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		0.
MED D	0		0		0

P (MB)
550.1
ALT (KM)
4.861
TEMP (C)
-15.6
FROSTPOINT
-20.8
TAS (M/S)
135.3
NT (N/M3)
0.0
TOTALS
0.
0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	434	0.
4	0.	43	0.	647	0.
6	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		0.
MED D	0		0		0

P (MB)
550.0
ALT (KM)
4.863
TEMP (C)
-15.6
FROSTPOINT
-20.8
TAS (M/S)
135.0
NT (N/M3)
0.0
TOTALS
0.
0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	434	0.
4	0.	43	0.	647	0.
6	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		0.
MED D	0		0		0

P (MB)
550.0
ALT (KM)
4.863
TEMP (C)
-15.6
FROSTPOINT
-20.8
TAS (M/S)
134.8
NT (N/M3)
0.0
TOTALS
0.
0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	434	0.
4	0.	43	0.	647	0.
6	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		0.
MED D	0		0		0

P (MB)
550.2
ALT (KM)
4.860
TEMP (C)
-15.6
FROSTPOINT
-20.8
TAS (M/S)
134.8
NT (N/M3)
0.0
TOTALS
0.
0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*20:52:44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.861
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.5
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*20:52:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.861
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*20:52:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.0
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.863
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.4
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START=*20:52:47*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.861
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.7
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2:52:48
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.861
5	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3326	0.	134.9
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	MT (M/MT)
29	0.	291	0.	4211	0.	0.0
30	0.	308	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2:52:50
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.857
5	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3326	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	MT (M/MT)
29	0.	291	0.	4211	0.	0.0
30	0.	308	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2:52:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	6.82E+06	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.860
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3326	0.	134.2
24	0.	241	0.	3617	0.	
26	0.	263	0.	3914	0.	MT (M/M3)
28	0.	283	0.	4211	0.	0.0
30	0.	303	0.	4508	0.	
						TOTALS
LWC	9.95E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2:52:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.857
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3326	0.	134.1
24	0.	241	0.	3617	0.	
26	0.	269	0.	3914	0.	MT (M/M3)
28	0.	283	0.	4211	0.	0.0
30	0.	308	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.3
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.859
6	0.	62	0.	944	0.	
9	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
19	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	135.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.2
2	6.88E+06	23	0.	484	0.	ALT (KM)
4	6.88E+06	43	0.	647	0.	4.860
6	0.	62	0.	944	0.	
9	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
19	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	6.59E-07		0.		0.	0.
MED D	4		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:58
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.861
6	0.	62	0.	944	0.	
9	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
19	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:52:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.4
2	6.83E+06	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.857
6	0.	62	0.	944	0.	
9	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
19	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3326	0.	134.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	9.87E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.864
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	133.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	289	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:58*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	6.85E+06	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.860
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	133.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	289	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	9.13E-08		0.		0.	0.
MED D	2		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:52*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.864
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	133.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	289	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*20:52:59*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.861
6	0.	62	1.23E+05	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-15.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-19.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	133.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	289	0.	4211	0.	2487.3
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		3.19E-04		0.	3.19E-04
MED D	0		62		0	62

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:00@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 563.4
2	0.	23	0.	404	5.75E+00	ALT (KM)
4	0.	43	0.	647	1.41E+01	4.682
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.50E-04	6.50E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:02@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 563.1
2	0.	23	0.	404	8.78E+00	ALT (KM)
4	0.	43	0.	647	1.41E+01	4.687
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.52E-04	6.52E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:01@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 563.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.685
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:03@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 562.8
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.691
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.4
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:04@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 562.4
2	0.	23	0.	404	8.71E+00	ALT (KM)
4	0.	43	0.	647	1.39E+01	4.695
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.47E-04	6.47E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:06@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 561.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.706
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	143.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:05@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 561.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.702
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:07@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 561.3
2	0.	23	0.	404	6.79E+00	ALT (KM)
4	0.	43	0.	647	1.41E+01	4.710
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	143.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.53E-04	6.53E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:08@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 561.8
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.714
5	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	143.8
24	0.	241	0.	3617	0.	
25	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:18@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 560.7
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.718
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.4
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	143.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:03@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 561.8
2	0.	23	0.	484	0.	ALT (KM)
4	0.	43	0.	647	0.	4.714
5	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	143.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:13@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 560.6
2	0.	23	0.	484	6.79E+38	ALT (KM)
4	0.	43	0.	647	1.41E+01	4.720
5	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.3
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	143.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.53E-04	6.53E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 560.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.725
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.5
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
15	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	143.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:14*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.9
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.729
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.5
24	0.	241	0.	3617	0.	
25	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 560.3
2	0.	23	0.	404	3.75E+00	ALT (KM)
4	0.	43	0.	647	1.40E+01	4.724
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.7
24	0.	241	0.	3617	0.	
25	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.58E-04	6.58E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.8
2	0.	23	0.	404	8.72E+00	ALT (KM)
4	0.	43	0.	647	1.40E+01	4.731
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
15	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
31	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.48E-04	6.48E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:16*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.8
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.731
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.7
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-38.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:18*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.4
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.736
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.1
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-38.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.0
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-38.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.7
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:19*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.5
2	0.	23	0.	404	8.69E+00	ALT (KM)
4	0.	43	0.	647	1.39E+01	4.735
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.1
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-38.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.45E-04	6.45E-04
MED D	0		0		633	633

AFFTS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:20*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.0
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:22*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	8.78E+00	ALT (KM)
4	0.	43	0.	647	1.39E+01	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.4
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.46E-04	6.46E-04
MED D	0		0		633	633

AFFTS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.735
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	T&S (M/S)
22	0.	221	0.	3320	0.	145.7
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.7
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.732
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.0
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.5
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	8.69E+00	ALT (KM)
4	0.	43	0.	647	1.39E+01	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.45E-04	6.45E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.5
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.7
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.735
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.0
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.4
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.735
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.2
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.1
24	0.	241	0.	3617	0.	
26	0.	261	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:30*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.6
2	0.	23	0.	404	5.65E+00	ALT (KM)
4	0.	43	0.	647	1.38E+01	4.733
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-30.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.43E-04	6.43E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.4
2	0.	23	0.	404	8.58E+00	ALT (KM)
4	0.	43	0.	647	1.37E+01	4.736
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.4
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.37E-04	6.37E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=*21:14:32*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.738
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=*21:14:34*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.8
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.744
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=*21:14:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.1
2	0.	23	0.	404	9.61E+00	ALT (KM)
4	0.	43	0.	647	1.38E+01	4.740
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.40E-04	6.40E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START=*21:14:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.747
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.5
2	0.	23	0.	404	8.61E+00	ALT (KM)
4	0.	43	0.	647	1.38E+01	4.747
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.1
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.40E-04	6.40E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.753
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.8
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.4
2	0.	23	0.	404	8.60E+00	ALT (KM)
4	0.	43	0.	647	1.38E+01	4.749
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.39E-04	6.39E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:14:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.0
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.754
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@*21:14:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 557.8
2	0.	23	0.	404	8.61E+00	ALT (KM)
4	0.	43	0.	647	1.38E+01	4.757
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.43E-04	6.40E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@*21:14:42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 557.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.760
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	8.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@*21:14:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 557.6
2	0.	23	0.	404	8.65E+00	ALT (KM)
4	0.	43	0.	647	1.38E+01	4.760
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.43E-04	6.43E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@*21:14:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 557.6
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.762
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-25.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.5
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.1
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	8.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	484	0.
4	0.	43	0.	647	0.
5	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		0.
MED D	0		0		0

P (MB)
557.4
ALT (KM)
4.762
TEMP (C)
-25.9
FROSTPOINT
-31.5
TAS (M/S)
146.1
NT (N/M3)
0.0
TOTALS
0.
0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	484	0.
4	0.	43	0.	647	0.
5	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		0.
MED D	0		0		0

P (MB)
557.2
ALT (KM)
4.765
TEMP (C)
-26.0
FROSTPOINT
-31.6
TAS (M/S)
145.5
NT (N/M3)
0.0
TOTALS
0.
0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	484	8.68E+38
4	0.	43	0.	647	1.39E+01
5	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	260	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		6.45E-24
MED D	0		0		633

P (MB)
557.1
ALT (KM)
4.767
TEMP (C)
-25.9
FROSTPOINT
-31.6
TAS (M/S)
145.8
NT (N/M3)
5.8
TOTALS
6.45E-24
633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-35 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:47*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	0.	23	0.	484	0.
4	0.	43	0.	647	0.
5	0.	62	0.	944	0.
8	0.	82	0.	1241	0.
10	0.	102	0.	1538	0.
12	0.	122	0.	1835	0.
14	0.	142	0.	2132	0.
16	0.	161	0.	2429	0.
18	0.	181	0.	2726	0.
20	0.	201	0.	3023	0.
22	0.	221	0.	3320	0.
24	0.	241	0.	3617	0.
26	0.	261	0.	3914	0.
28	0.	280	0.	4211	0.
30	0.	300	0.	4508	0.
LWC	0.		0.		0.
MED D	0		0		0

P (MB)
556.9
ALT (KM)
4.769
TEMP (C)
-26.1
FROSTPOINT
-31.7
TAS (M/S)
145.1
NT (N/M3)
0.0
TOTALS
0.
0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.8
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.771
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.3
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
15	0.	161	0.	2429	0.	-31.7
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	144.7
24	0.	241	0.	3617	0.	
25	0.	260	0.	3914	0.	NT (N/M3)
28	0.	28.	0.	4211	0.	0.0
33	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:58*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.775
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.5
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.9
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.3
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
33	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.7
2	0.	23	0.	404	5.71E+10	ALT (KM)
4	0.	43	0.	647	1.39E+01	4.772
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.4
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-31.8
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.8
33	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.47E-04	6.47E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:14:51*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.3
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.778
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.6
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.0
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.5
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:52*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.3
2	0.	23	3.	404	8.69E+00	ALT (KM)
4	0.	43	0.	647	1.39E+01	4.778
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	3.	-26.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.8
18	0.	181	3.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.6
24	0.	241	3.	3617	0.	
26	0.	261	3.	3914	0.	NT (N/M3)
28	0.	280	3.	4211	0.	5.8
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.45E-04	6.45E-04
MED D	0		0		63*	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:54*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.779
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.2
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.9
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:53*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.1
2	0.	23	3.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.781
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.8
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.1
18	0.	181	0.	2726	0.	
20	0.	201	3.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.8
24	0.	241	3.	3617	0.	
26	0.	261	3.	3914	0.	NT (N/M3)
28	0.	280	3.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		3.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:14:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.779
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	3.	1538	0.	-27.0
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	3.	2429	0.	-32.3
18	0.	181	0.	2726	0.	
20	0.	201	3.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.4
24	0.	241	3.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:55@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.779
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.1
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.3
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:58@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.2
2	0.	23	0.	404	8.53E+00	ALT (KM)
4	0.	43	0.	647	1.37E+01	4.779
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.3
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.5
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.4
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	5.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		6.38E-04	6.38E-04
MED D	0		0		633	633

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:57@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.0
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.782
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.2
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.4
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	147.0
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:14:59@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.2
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.779
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-27.2
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.6
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	146.6
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:15:00
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

BACKGROUND SAMPLE

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.5
2	0.	23	0.	404	0.	ALT (KM)
4	0.	43	0.	647	0.	4.775
6	0.	62	0.	944	0.	
8	0.	82	0.	1241	0.	TEMP (C)
10	0.	102	0.	1538	0.	-26.9
12	0.	122	0.	1835	0.	
14	0.	142	0.	2132	0.	FROSTPOINT
16	0.	161	0.	2429	0.	-32.6
18	0.	181	0.	2726	0.	
20	0.	201	0.	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	145.4
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	0.0
30	0.	300	0.	4508	0.	
						TOTALS
LWC	0.		0.		0.	0.
MED D	0		0		0	0

SAMPLE: 1A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:07:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 16 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	7.86E+08	23	3.81E+07	404	7.06E+03	ALT (KM)
4	2.32E+09	43	3.12E+07	647	0.	4.856
6	6.58E+09	62	1.77E+07	944	0.	
8	1.13E+10	82	5.96E+06	1241	0.	TEMP (C)
10	1.14E+10	102	3.59E+06	1538	0.	-12.4
12	9.44E+09	122	1.53E+06	1835	0.	
14	7.81E+09	142	1.01E+06	2132	0.	FROSTPOINT
16	6.74E+09	161	5.75E+05	2429	0.	-20.1
18	6.81E+09	181	4.52E+05	2726	0.	
20	4.45E+09	201	1.54E+05	3023	0.	TAS (M/S)
22	3.57E+09	221	2.83E+05	3320	0.	122.2
24	2.19E+09	241	1.88E+05	3617	0.	
26	1.45E+09	260	5.16E+04	3914	0.	NT (N/M3)
28	7.71E+08	280	1.41E+04	4211	0.	1258108.7
30	1.20E+09	300	1.26E+04	4508	0.	
						TOTALS
LWC	3.21E-01		3.47E-01		4.64E-02	3.93E-01
MED D	20		124		404	140

SAMPLE: 1A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:07:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 16 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	8.82E+08	23	3.19E+07	404	9.39E+03	ALT (KM)
4	2.35E+09	43	1.74E+07	647	0.	4.856
6	6.02E+09	62	9.31E+06	944	0.	
8	1.05E+10	82	3.93E+06	1241	0.	TEMP (C)
10	1.04E+10	102	1.58E+06	1538	0.	-12.2
12	7.83E+09	122	9.55E+05	1835	0.	
14	7.67E+09	142	6.65E+05	2132	0.	FROSTPOINT
16	5.66E+09	161	5.48E+05	2429	0.	-20.1
18	6.06E+09	181	2.54E+05	2726	0.	
20	3.87E+09	201	1.54E+05	3023	0.	TAS (M/S)
22	3.21E+09	221	1.35E+05	3320	0.	122.5
24	2.11E+09	241	3.76E+04	3617	0.	
26	1.25E+09	260	2.56E+04	3914	0.	NT (N/M3)
28	5.98E+08	280	1.88E+04	4211	0.	676216.9
30	9.19E+08	300	1.58E+04	4508	0.	
						TOTALS
LWC	2.81E-01		2.37E-01		6.17E-02	2.69E-01
MED D	20		136		404	154

SAMPLE: 1A
AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:07:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 16 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.01E+09	23	5.65E+07	404	2.22E+04	ALT (KM)
4	2.34E+09	43	3.50E+07	647	0.	4.856
6	5.94E+09	62	1.72E+07	944	0.	
8	1.13E+10	82	6.97E+06	1241	0.	TEMP (C)
10	1.14E+10	102	4.63E+06	1538	0.	-12.6
12	9.12E+09	122	2.30E+06	1835	0.	
14	8.53E+09	142	1.38E+06	2132	0.	FROSTPOINT
16	5.95E+09	161	5.76E+05	2429	0.	-20.2
18	6.67E+09	181	4.51E+05	2726	0.	
20	4.35E+09	201	3.26E+04	3023	0.	TAS (M/S)
22	3.61E+09	221	2.71E+05	3320	0.	122.8
24	2.14E+09	241	1.13E+05	3617	0.	
26	1.55E+09	260	7.09E+04	3914	0.	NT (N/M3)
28	5.93E+08	280	4.44E+04	4211	0.	1367748.6
30	1.10E+09	300	3.98E+04	4508	0.	
						TOTALS
LWC	3.13E-01		3.96E-01		1.46E-01	5.42E-01
MED D	20		122		404	167

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	9.84E+08	23	5.35E+07	404	9.44E+03	ALT (KM)
4	2.44E+09	43	4.37E+07	647	0.	4.859
6	6.44E+09	62	2.28E+07	944	0.	
8	1.17E+10	82	1.38E+07	1241	0.	TEMP (C)
10	1.21E+10	102	4.42E+06	1538	0.	-12.8
12	9.67E+09	122	3.36E+06	1835	0.	
14	8.84E+09	142	1.97E+06	2132	0.	FROSTPOINT
16	6.12E+09	161	6.80E+05	2429	0.	-20.2
18	7.63E+09	181	4.92E+05	2726	0.	
20	4.55E+09	201	1.99E+05	3023	0.	TAS (M/S)
22	3.7JE+09	221	2.14E+05	3320	0.	121.8
24	2.04E+09	241	7.55E+04	3617	0.	
26	1.53E+09	260	3.78E+04	3914	0.	NT (N/M3)
28	7.86E+08	280	1.89E+04	4211	0.	1709206.2
30	1.23E+09	300	1.59E+04	4508	0.	
						TOTALS
LWC	3.27E-01		4.30E-01		6.21E-02	5.12E-01
MED D	20		114		404	123

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	9.61E+08	23	5.45E+07	484	1.61E+03	ALT (KM)
4	2.38E+09	43	3.73E+07	647	1.66E+01	4.857
6	6.69E+09	62	1.74E+07	944	0.	
8	1.19E+10	82	7.34E+06	1241	0.	TEMP (C)
10	1.23E+10	102	4.86E+06	1538	0.	-12.9
12	9.88E+09	122	2.86E+06	1835	0.	
14	8.56E+09	142	7.63E+05	2132	0.	FROSTPOINT
16	6.31E+09	161	6.55E+05	2429	0.	-20.1
18	6.55E+09	181	5.19E+05	2726	0.	
20	4.62E+09	201	1.85E+05	3023	0.	TAS (M/S)
22	3.ooE+09	221	1.73E+05	3320	0.	121.9
24	2.05E+09	241	7.55E+04	3617	0.	
26	1.67E+09	260	3.43E+04	3914	0.	NT (N/M3)
28	8.11E+08	280	1.52E+04	4211	0.	1417776.2
30	1.29E+09	300	1.12E+04	4508	0.	
						TOTALS
LWC	3.33E-01		3.51E-01		1.13E-02	3.72E-01
MED D	20		113		411	115

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	7.89E+08	23	6.30E+07	484	1.78E+03	ALT (KM)
4	2.52E+09	43	4.52E+07	647	1.66E+01	4.857
6	6.28E+09	62	1.97E+07	944	0.	
8	1.20E+10	82	8.37E+06	1241	0.	TEMP (C)
10	1.29E+10	102	5.29E+06	1538	0.	-12.8
12	9.98E+09	122	2.42E+06	1835	0.	
14	9.39E+09	142	3.59E+05	2132	0.	FROSTPOINT
16	6.92E+09	161	6.33E+05	2429	0.	-20.1
18	7.23E+09	181	4.25E+05	2726	0.	
20	4.78E+09	201	3.71E+05	3023	0.	TAS (M/S)
22	4.13E+09	221	2.38E+05	3320	0.	121.8
24	2.28E+09	241	1.13E+05	3617	0.	
26	1.77E+09	260	4.69E+04	3914	0.	NT (N/M3)
28	8.41E+08	280	1.89E+04	4211	0.	1664151.9
30	1.39E+09	300	1.30E+04	4508	0.	
						TOTALS
LWC	3.56E-01		4.21E-01		1.24E-02	4.34E-01
MED D	20		114		410	117

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:30
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	8.50E+08	23	5.13E+07	484	4.55E+03	ALT (KM)
4	2.84E+09	43	4.14E+07	647	1.66E+01	4.859
6	7.26E+09	62	2.17E+07	944	0.	
8	1.25E+10	82	8.43E+06	1241	0.	TEMP (C)
10	1.23E+10	102	5.24E+06	1538	0.	-12.9
12	1.05E+10	122	2.14E+06	1835	0.	
14	9.11E+09	142	1.52E+06	2132	0.	FROSTPOINT
16	6.33E+09	161	6.56E+05	2429	0.	-20.1
18	7.26E+09	181	3.69E+05	2726	0.	
20	4.64E+09	201	2.16E+05	3023	0.	TAS (M/S)
22	3.73E+09	221	1.76E+05	3320	0.	121.7
24	2.28E+09	241	1.51E+05	3617	0.	
26	1.68E+09	260	1.38E+05	3914	0.	NT (N/M3)
28	7.59E+08	280	7.76E+04	4211	0.	1632811.8
30	1.32E+09	300	4.34E+04	4508	0.	
						TOTALS
LWC	3.44E-01		4.59E-01		3.06E-02	4.90E-01
MED D	20		123		407	131

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	9.33E+08	23	9.29E+07	404	5.92E+13	ALT (KM)
4	2.55E+09	43	4.46E+07	647	3.33E+11	4.868
6	7.87E+09	62	2.47E+07	944	0.	
8	1.32E+10	82	1.12E+07	1241	0.	TEMP (C)
10	1.38E+10	102	5.86E+06	1538	0.	-13.8
12	1.14E+10	122	2.36E+06	1835	0.	
14	9.91E+09	142	1.92E+06	2132	0.	FROSTPOINT
16	7.48E+09	161	7.52E+05	2429	0.	-20.1
18	7.93E+09	181	3.41E+05	2726	0.	
20	4.98E+09	201	3.41E+05	3023	0.	TAS (M/S)
22	4.15E+09	221	1.36E+05	3320	0.	121.5
24	2.42E+09	241	7.57E+04	3617	0.	
26	1.74E+09	261	7.38E+04	3914	0.	NT (N/M3)
28	7.63E+08	281	8.24E+04	4211	0.	1832317.1
30	1.51E+09	301	5.42E+04	4508	0.	
						TOTALS
LWC	3.75E-01		5.19E-01		4.04E-02	5.49E-01
MED D	20		117		408	124

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	9.63E+08	23	5.86E+07	404	2.92E+13	ALT (KM)
4	2.79E+09	43	3.88E+07	647	3.33E+11	4.861
6	7.58E+09	62	1.58E+07	944	0.	
8	1.38E+10	82	7.23E+06	1241	0.	TEMP (C)
10	1.40E+10	102	4.37E+06	1538	0.	-13.8
12	1.13E+10	122	2.15E+06	1835	0.	
14	9.80E+09	142	9.56E+05	2132	0.	FROSTPOINT
16	7.23E+09	161	6.31E+05	2429	0.	-20.0
18	7.22E+09	181	3.41E+05	2726	0.	
20	4.68E+09	201	2.79E+05	3023	0.	TAS (M/S)
22	3.87E+09	221	6.81E+04	3320	0.	121.6
24	2.41E+09	241	3.78E+04	3617	0.	
26	2.37E+09	261	3.28E+04	3914	0.	NT (N/M3)
28	6.85E+08	281	2.94E+04	4211	0.	1401985.8
30	1.39E+09	301	1.30E+04	4508	0.	
						TOTALS
LWC	3.65E-01		3.45E-01		2.96E-02	3.66E-01
MED D	20		112		411	117

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.43E+09	23	5.58E+07	404	2.59E+13	ALT (KM)
4	2.76E+09	43	5.36E+07	647	1.67E+11	4.861
6	6.81E+09	62	2.20E+07	944	0.	
8	1.27E+10	82	1.19E+07	1241	0.	TEMP (C)
10	1.34E+10	102	5.24E+06	1538	0.	-13.8
12	1.12E+10	122	2.33E+06	1835	0.	
14	9.46E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	7.49E+09	161	6.38E+05	2429	0.	-20.0
18	8.01E+09	181	5.40E+05	2726	0.	
20	4.87E+09	201	3.41E+05	3023	0.	TAS (M/S)
22	4.08E+09	221	3.07E+05	3320	0.	121.4
24	2.61E+09	241	3.79E+04	3617	0.	
26	1.92E+09	261	3.54E+04	3914	0.	NT (N/M3)
28	8.66E+08	281	3.31E+04	4211	0.	1942334.6
30	1.61E+09	301	2.21E+04	4508	0.	
						TOTALS
LWC	3.83E-01		4.95E-01		1.77E-02	5.02E-01
MED D	20		115		408	119

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.23E+09	23	7.16E+07	404	7.99E+13	ALT (KM)
4	3.15E+09	43	7.25E+07	647	0.	4.861
6	7.75E+09	62	1.30E+07	944	0.	
8	1.35E+10	82	5.39E+06	1241	0.	TEMP (C)
10	1.49E+10	102	3.33E+06	1538	0.	-13.8
12	1.23E+10	122	1.88E+06	1835	0.	
14	1.14E+10	142	5.18E+05	2132	0.	FROSTPOINT
16	8.17E+09	161	3.15E+05	2429	0.	-20.0
18	8.79E+09	181	3.41E+05	2726	0.	
20	5.42E+09	201	1.55E+05	3023	0.	TAS (M/S)
22	4.93E+09	221	1.70E+05	3326	0.	121.6
24	3.18E+09	241	7.57E+04	3617	0.	
26	2.22E+09	261	3.28E+04	3914	0.	NT (N/M3)
28	9.63E+08	281	1.42E+04	4211	0.	1132863.7
30	1.69E+09	301	1.27E+04	4508	0.	
						TOTALS
LWC	4.33E-01		2.65E-01		4.66E-02	3.12E-01
MED D	20		111		404	138

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.10E+09	23	3.51E+07	404	1.34E+01	ALT (KM)
4	2.91E+09	43	2.16E+07	647	1.47E+01	4.861
6	7.92E+09	62	1.38E+07	944	1.75E+01	
8	1.35E+10	82	5.72E+06	1241	0.	TEMP (C)
10	1.52E+10	102	2.36E+06	1538	0.	-12.9
12	1.19E+10	122	1.22E+06	1835	0.	
14	1.05E+10	142	7.35E+05	2132	0.	FROSTPOINT
16	7.33E+09	161	3.59E+05	2429	0.	-19.9
18	8.42E+09	181	3.17E+05	2726	0.	
20	5.34E+09	201	1.36E+05	3023	0.	TAS (M/S)
22	4.84E+09	221	1.02E+05	3320	0.	121.2
24	2.64E+09	241	7.59E+04	3617	0.	
26	2.21E+09	260	0.	3914	0.	NT (N/M3)
28	9.36E+08	280	0.	4211	0.	921075.2
30	1.78E+09	300	0.	4508	0.	
						TOTALS
LWC	4.17E-01		2.38E-01		3.08E-13	2.41E-01
MED D	21		112		894	114

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:40
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.24E+09	23	2.33E+07	404	2.45E+03	ALT (KM)
4	3.33E+09	43	1.39E+07	647	1.67E+01	4.861
6	8.68E+09	62	7.31E+06	944	1.75E+01	
8	1.59E+10	82	3.34E+06	1241	0.	TEMP (C)
10	1.68E+10	102	1.65E+06	1538	0.	-12.9
12	1.33E+10	122	8.94E+05	1835	0.	
14	1.27E+10	142	4.16E+05	2132	0.	FROSTPOINT
16	8.89E+09	161	2.94E+05	2429	0.	-19.9
18	8.86E+09	181	1.99E+05	2726	0.	
20	6.53E+09	201	9.32E+04	3023	0.	TAS (M/S)
22	4.73E+09	221	3.42E+04	3320	0.	121.1
24	3.14E+09	241	0.	3617	0.	
26	2.33E+09	260	1.53E+04	3914	0.	NT (N/M3)
28	1.13E+09	280	3.05E+04	4211	0.	538085.0
30	1.84E+09	300	2.14E+04	4508	0.	
						TOTALS
LWC	4.55E-01		1.48E-01		1.91E-12	1.67E-01
MED D	20		121		422	133

SAMPLE: 1A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.15E+09	23	3.73E+07	404	1.62E+03	ALT (KM)
4	3.49E+09	43	2.42E+07	647	1.67E+01	4.861
6	8.47E+09	62	1.27E+07	944	0.	
8	1.50E+10	82	5.24E+06	1241	0.	TEMP (C)
10	1.59E+10	102	2.47E+06	1538	0.	-12.9
12	1.25E+10	122	1.36E+06	1835	0.	
14	1.10E+10	142	7.57E+05	2132	0.	FROSTPOINT
16	7.94E+09	161	3.54E+05	2429	0.	-19.9
18	8.34E+09	181	3.13E+05	2726	0.	
20	5.22E+09	201	9.31E+04	3023	0.	TAS (M/S)
22	4.27E+09	221	1.02E+05	3320	0.	121.2
24	2.59E+09	241	3.79E+04	3617	0.	
26	2.14E+09	260	2.48E+04	3914	0.	NT (N/M3)
28	9.59E+08	280	1.53E+04	4211	0.	946767.1
30	1.72E+09	300	1.13E+04	4508	0.	
						TOTALS
LWC	4.13E-01		2.36E-01		1.13E-12	2.47E-01
MED D	20		117		411	117

SAMPLE: 1P AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:40
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.24E+09	23	3.53E+07	404	0.	ALT (KM)
4	3.85E+09	43	2.36E+07	647	0.	4.863
6	9.42E+09	62	1.01E+07	944	0.	
8	1.71E+10	82	5.24E+06	1241	0.	TEMP (C)
10	1.85E+10	102	2.37E+06	1538	0.	-12.6
12	1.46E+10	122	1.18E+06	1835	0.	
14	1.29E+10	142	6.74E+05	2132	0.	FROSTPOINT
16	9.23E+09	161	4.50E+05	2429	0.	-19.9
18	9.50E+09	181	2.86E+05	2726	0.	
20	5.69E+09	201	0.	3023	0.	TAS (M/S)
22	5.14E+09	221	3.43E+04	3320	0.	120.7
24	2.9JE+09	241	0.	3617	0.	
26	2.73E+09	260	0.	3914	0.	NT (N/M3)
28	1.34E+09	280	0.	4211	0.	947684.9
30	2.51E+09	300	0.	4508	0.	
						TOTALS
LWC	5.00E-01		1.35E-01		0.	1.85E-01
MED D	21		106		0	106

SAMPLE# 1B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0*:07:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 18 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.1
2	[illegible]	23	[illegible]	[illegible]	[illegible]	ALT (KM)
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.844
6	9.[illegible]	[illegible]	[illegible]	[illegible]	.	
8	1.71E+10	82	[illegible]	[illegible]	.	[illegible] (C)
10	1.84E+10	102	[illegible]	1538	.	-12.6
12	1.51E+10	122	1.23E+06	1835	0.	
14	1.35E+10	142	5.44E+05	2132	0.	FROSTPOINT
16	8.73E+09	161	3.17E+05	2429	0.	-19.9
18	9.23E+09	181	2.57E+05	2726	0.	
20	5.71E+09	201	6.22E+04	3023	0.	TAS (M/S)
22	4.92E+09	221	6.84E+04	3320	0.	121.0
24	2.87E+09	241	0.	3617	0.	
26	2.25E+09	260	2.48E+04	3914	0.	NT (N/M3)
28	1.05E+09	280	4.96E+04	4211	0.	953525.8
30	2.09E+09	300	3.35E+04	4508	0.	
						TOTALS
LWC	4.69E-01		2.96E-01		2.93E-02	2.55E-01
MED D	20		108		+09	120

SAMPLE# 1B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0*:07:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 18 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.41E+09	23	5.15E+07	404	1.73E+13	ALT (KM)
4	4.52E+09	43	9.98E+07	647	1.67E+11	4.863
6	9.77E+09	62	1.18E+07	944	0.	
8	1.71E+10	82	4.59E+06	1241	0.	TEMP (C)
10	1.90E+10	102	3.01E+06	1538	0.	-12.8
12	1.47E+10	122	1.06E+06	1835	0.	
14	1.27E+10	142	8.63E+05	2132	0.	FROSTPOINT
16	8.19E+09	161	2.63E+05	2429	0.	-19.9
18	9.41E+09	181	1.14E+05	2726	0.	
20	5.64E+09	201	1.55E+05	3023	0.	TAS (M/S)
22	4.55E+09	221	1.71E+05	3320	0.	121.3
24	3.45E+09	241	7.59E+04	3617	0.	
26	2.43E+09	260	3.79E+04	3914	0.	NT (N/M3)
28	1.23E+09	280	1.90E+04	4211	0.	1009864.1
30	2.21E+09	300	1.30E+04	4508	0.	
						TOTALS
LWC	4.74E-01		2.45E-01		1.25E-02	2.58E-01
MED D	20		112		410	116

SAMPLE# 1B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0*:07:42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 18 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.41E+09	23	4.63E+07	404	1.86E+13	ALT (KM)
4	4.13E+09	43	2.36E+07	647	3.36E+11	4.864
6	9.81E+09	62	1.46E+07	944	0.	
8	1.73E+10	82	6.00E+06	1241	0.	TEMP (C)
10	1.89E+10	102	3.36E+06	1538	0.	-12.7
12	1.54E+10	122	1.47E+06	1835	0.	
14	1.37E+10	142	1.09E+06	2132	0.	FROSTPOINT
16	8.94E+09	161	3.18E+05	2429	0.	-19.9
18	9.29E+09	181	3.15E+05	2726	0.	
20	5.64E+09	201	1.25E+05	3023	0.	TAS (M/S)
22	4.93E+09	221	1.13E+05	3320	0.	120.6
24	2.91E+09	241	7.91E+04	3617	0.	
26	2.64E+09	260	2.34E+04	3914	0.	NT (N/M3)
28	1.43E+09	280	1.43E+04	4211	0.	1128407.5
30	2.28E+09	300	1.03E+04	4508	0.	
						TOTALS
LWC	4.93E-01		2.73E-01		1.77E-12	2.67E-01
MED D	21		108		+15	116

SAMPLE# 1B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0*:07:44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 18 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.42E+09	23	5.16E+07	404	1.48E+13	ALT (KM)
4	3.96E+09	43	3.47E+07	647	1.67E+11	4.863
6	1.01E+10	62	1.45E+07	944	0.	
8	1.80E+10	82	7.02E+06	1241	0.	TEMP (C)
10	1.66E+10	102	3.16E+06	1538	0.	-12.8
12	1.39E+10	122	1.75E+06	1835	0.	
14	1.29E+10	142	6.72E+05	2132	0.	FROSTPOINT
16	8.53E+09	161	4.29E+05	2429	0.	-19.9
18	9.52E+09	181	3.13E+05	2726	0.	
20	5.44E+09	201	1.55E+05	3023	0.	TAS (M/S)
22	4.55E+09	221	3.42E+04	3320	0.	121.1
24	2.86E+09	241	0.	3617	0.	
26	2.43E+09	260	7.12E+03	3914	0.	NT (N/M3)
28	1.16E+09	280	1.42E+04	4211	0.	1242657.5
30	2.09E+09	300	9.93E+03	4508	0.	
						TOTALS
LWC	4.65E-01		2.66E-01		1.05E-02	2.77E-01
MED D	20		102		411	185

SAMPLE# 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# *00:07:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.57E+09	23	6.51E+07	404	4.01E+13	ALT (KM)
4	4.36E+09	43	3.65E+07	647	1.68E+11	4.864
6	1.07E+10	62	1.95E+07	944	0.	
8	1.83E+10	82	9.35E+06	1241	0.	TEMP (C)
10	1.78E+10	102	4.57E+06	1538	0.	-12.8
12	1.33E+10	122	2.41E+06	1835	0.	
14	1.15E+10	142	9.03E+05	2132	0.	FROSTPOINT
16	9.05E+09	161	3.18E+05	2429	0.	-19.9
18	9.15E+09	181	4.31E+05	2726	0.	
20	5.41E+09	201	1.25E+05	3023	0.	TAS (M/S)
22	4.54E+09	221	6.37E+04	3320	0.	120.6
24	2.38E+09	241	1.53E+05	3617	0.	
26	2.12E+09	260	9.53E+04	3914	0.	NT (N/M3)
28	1.02E+09	280	6.43E+04	4211	0.	1437272.9
30	1.59E+09	300	4.12E+04	4508	0.	
						TOTALS
LWC	4.33E-01		7.34E-01		2.71E-12	4.11E-01
MED D	20		114		407	120

SAMPLE# 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# *00:07:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.68E+09	23	5.79E+07	404	4.16E+11	ALT (KM)
4	4.70E+09	43	4.26E+07	647	6.65E+11	4.863
6	1.13E+10	62	1.99E+07	944	0.	
8	1.85E+10	82	9.72E+06	1241	0.	TEMP (C)
10	1.94E+10	102	3.93E+06	1538	0.	-12.8
12	1.51E+10	122	2.23E+06	1835	0.	
14	1.33E+10	142	1.12E+06	2132	0.	FROSTPOINT
16	8.61E+09	161	8.97E+05	2429	0.	-19.8
18	9.27E+09	181	5.39E+05	2726	0.	
20	5.52E+09	201	4.32E+05	3023	0.	TAS (M/S)
22	4.66E+09	221	1.36E+05	3320	0.	121.6
24	2.81E+09	241	1.51E+05	3617	0.	
26	2.11E+09	260	0.	3914	0.	NT (N/M3)
28	1.15E+09	280	0.	4211	0.	1595184.7
30	2.34E+09	300	0.	4508	0.	
						TOTALS
LWC	4.71E-01		4.13E-01		3.03E-12	4.17E-01
MED D	20		118		533	119

SAMPLE# 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# *00:07:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.43E+09	23	5.59E+07	404	2.56E+13	ALT (KM)
4	4.23E+09	43	4.18E+07	647	5.01E+11	4.863
6	1.04E+10	62	1.81E+07	944	0.	
8	1.86E+10	82	7.57E+06	1241	0.	TEMP (C)
10	1.77E+10	102	4.11E+06	1538	0.	-12.8
12	1.44E+10	122	1.35E+06	1835	0.	
14	1.20E+10	142	9.30E+05	2132	0.	FROSTPOINT
16	8.39E+09	161	3.59E+05	2429	0.	-19.8
18	8.43E+09	181	5.12E+05	2726	0.	
20	4.93E+09	201	1.56E+05	3023	0.	TAS (M/S)
22	4.47E+09	221	6.37E+04	3320	0.	121.3
24	2.52E+09	241	7.38E+04	3617	0.	
26	2.07E+09	260	3.79E+04	3914	0.	NT (N/M3)
28	1.01E+09	280	1.30E+04	4211	0.	1502682.0
30	1.92E+09	300	1.38E+04	4508	0.	
						TOTALS
LWC	4.33E-01		3.44E-01		1.90E-12	3.67E-01
MED D	20		133		416	113

SAMPLE# 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# *00:07:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.60E+09	23	4.35E+07	404	1.65E+14	ALT (KM)
4	4.64E+09	43	3.39E+07	647	0.	4.864
6	1.19E+10	62	1.74E+07	944	0.	
8	1.99E+10	82	7.30E+06	1241	0.	TEMP (C)
10	2.02E+10	102	4.25E+06	1538	0.	-12.8
12	1.53E+10	122	1.98E+06	1835	0.	
14	1.28E+10	142	9.22E+05	2132	0.	FROSTPOINT
16	8.76E+09	161	4.20E+05	2429	0.	-19.7
18	8.55E+09	181	4.25E+05	2726	0.	
20	4.89E+09	201	2.47E+05	3023	0.	TAS (M/S)
22	4.43E+09	221	2.14E+05	3320	0.	121.9
24	2.58E+09	241	3.77E+04	3617	0.	
26	2.17E+09	260	7.53E+04	3914	0.	NT (N/M3)
28	1.26E+09	280	3.38E+04	4211	0.	1449176.6
30	2.09E+09	300	2.36E+04	4508	0.	
						TOTALS
LWC	4.53E-01		3.54E-01		1.89E-11	4.63E-01
MED D	20		113		484	147

SAMPLE: 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.41E+09	23	3.49E+07	434	3.81E+13	ALT (KM)
4	4.72E+09	43	2.92E+07	647	3.32E+11	4.863
6	1.17E+10	62	1.21E+07	944	0.	
8	1.99E+10	82	6.97E+06	1241	0.	TEMP (C)
10	2.01E+10	102	2.72E+06	1538	0.	-12.7
12	1.52E+10	122	1.51E+06	1835	0.	
14	1.35E+10	142	7.34E+05	2132	0.	FROSTPOINT
16	8.36E+09	161	3.14E+05	2429	0.	-19.6
18	8.14E+09	181	2.65E+05	2726	0.	
20	5.26E+09	201	1.23E+05	3023	0.	TAS (M/S)
22	4.15E+09	221	1.02E+05	3320	0.	122.8
24	2.63E+09	241	7.54E+04	3617	0.	
26	2.23E+09	260	5.66E+04	3914	0.	NT (N/M3)
28	1.15E+09	280	4.24E+04	4211	0.	1078633.2
30	2.07E+09	300	2.83E+04	4508	0.	
						TOTALS
LWC	4.49E-01		2.77E-01		2.63E-02	3.04E-01
MED D	20		116		410	125

SAMPLE: 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.64E+09	23	3.49E+07	434	1.75E+14	ALT (KM)
4	4.86E+09	43	2.98E+07	647	0.	4.864
6	1.25E+10	62	1.25E+07	944	0.	
8	1.93E+10	82	6.99E+06	1241	0.	TEMP (C)
10	2.09E+10	102	3.10E+06	1538	0.	-12.8
12	1.45E+10	122	1.94E+06	1835	0.	
14	1.37E+10	142	8.57E+05	2132	0.	FROSTPOINT
16	7.92E+09	161	3.40E+05	2429	0.	-19.6
18	7.78E+09	181	3.39E+05	2726	0.	
20	4.99E+09	201	2.16E+05	3023	0.	TAS (M/S)
22	4.03E+09	221	1.39E+05	3320	0.	122.8
24	2.62E+09	241	9.77E+04	3617	0.	
26	2.13E+09	260	7.63E+04	3914	0.	NT (N/M3)
28	1.18E+09	280	5.56E+04	4211	0.	1113402.9
30	2.03E+09	300	3.13E+04	4508	0.	
						TOTALS
LWC	4.43E-01		2.86E-01		1.15E-01	4.01E-01
MED D	20		116		404	154

SAMPLE: 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.46E+09	23	4.47E+07	434	2.07E+11	ALT (KM)
4	4.59E+09	43	2.54E+07	647	3.32E+11	4.864
6	1.19E+10	62	1.36E+07	944	0.	
8	1.94E+10	82	7.45E+06	1241	0.	TEMP (C)
10	2.03E+10	102	3.32E+06	1538	0.	-12.8
12	1.48E+10	122	1.57E+06	1835	0.	
14	1.30E+10	142	8.26E+05	2132	0.	FROSTPOINT
16	8.62E+09	161	4.30E+05	2429	0.	-19.6
18	8.65E+09	181	1.70E+05	2726	0.	
20	5.53E+09	201	1.55E+05	3023	0.	TAS (M/S)
22	4.50E+09	221	1.36E+05	3320	0.	122.8
24	2.73E+09	241	7.54E+04	3617	0.	
26	2.43E+09	260	0.	3914	0.	NT (N/M3)
28	1.15E+09	280	0.	4211	0.	1069172.9
30	2.06E+09	300	0.	4508	0.	
						TOTALS
LWC	4.65E-01		2.69E-01		1.54E-01	2.71E-01
MED D	20		107		633	107

SAMPLE: 18 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:07:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.47E+09	23	3.18E+07	434	2.93E+11	ALT (KM)
4	4.71E+09	43	2.42E+07	647	3.34E+11	4.864
6	1.24E+10	62	1.19E+07	944	0.	
8	1.86E+10	82	6.28E+06	1241	0.	TEMP (C)
10	1.91E+10	102	2.96E+06	1538	0.	-12.8
12	1.43E+10	122	1.58E+06	1835	0.	
14	1.25E+10	142	7.02E+05	2132	0.	FROSTPOINT
16	7.77E+09	161	3.35E+05	2429	0.	-19.5
18	8.49E+09	181	1.42E+05	2726	0.	
20	5.45E+09	201	1.55E+05	3023	0.	TAS (M/S)
22	4.29E+09	221	1.36E+05	3320	0.	121.4
24	2.24E+09	241	3.39E+04	3617	0.	
26	2.16E+09	261	0.	3914	0.	NT (N/M3)
28	1.18E+09	280	0.	4211	0.	960842.8
30	1.88E+09	300	0.	4508	0.	
						TOTALS
LWC	4.33E-01		2.37E-01		1.55E-03	2.38E-01
MED D	20		109		633	108

SAMPLE: 1B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0:07:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.51E+09	23	2.36E+07	404	7.13E+13	ALT (KM)
4	4.65E+09	43	2.30E+07	647	0.	4.863
6	1.15E+10	62	1.37E+07	944	0.	
8	1.72E+10	82	4.61E+06	1241	0.	TEMP (C)
10	1.61E+10	102	3.19E+06	1538	0.	-12.8
12	1.13E+10	122	1.55E+06	1835	0.	
14	1.09E+10	142	1.06E+06	2132	0.	FROSTPOINT
16	7.32E+09	161	3.17E+05	2429	0.	-19.5
18	7.21E+09	181	3.14E+05	2726	0.	
20	4.25E+09	201	1.87E+05	3023	0.	TAS (M/S)
22	3.70E+09	221	2.45E+05	3320	0.	120.9
24	2.14E+09	241	3.96E+04	3617	0.	
26	2.43E+09	260	2.37E+04	3914	0.	NT (N/M3)
28	9.35E+08	291	1.47E+04	4211	0.	1247720.6
30	1.82E+09	330	1.28E+04	4508	0.	
						TOTALS
LWC	3.84E-01		2.54E-01		4.69E-12	3.67E-01
MED D	20		126		404	141

SAMPLE: 1B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0:07:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	5.63E+08	23	2.64E+07	404	1.43E+14	ALT (KM)
4	1.94E+09	43	1.42E+07	647	0.	4.863
6	5.77E+09	62	5.83E+06	944	0.	
8	7.27E+09	82	3.23E+06	1241	0.	TEMP (C)
10	6.26E+09	102	2.42E+06	1538	0.	-12.7
12	4.26E+09	122	1.14E+06	1835	0.	
14	3.97E+09	142	1.02E+06	2132	0.	FROSTPOINT
16	3.13E+09	161	7.11E+05	2429	0.	-19.4
18	3.02E+09	181	7.01E+05	2726	0.	
20	1.71E+09	201	9.33E+04	3023	0.	TAS (M/S)
22	1.21E+09	221	3.42E+04	3320	0.	121.0
24	6.59E+08	241	3.96E+04	3617	0.	
26	4.46E+08	261	3.23E+04	3914	0.	NT (N/M3)
28	2.53E+08	289	2.35E+04	4211	0.	566396.5
30	4.84E+08	330	2.35E+04	4508	0.	
						TOTALS
LWC	1.31E-01		1.88E-01		9.37E-12	2.81E-01
MED D	19		128		404	176

SAMPLE: 1B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0:07:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.13E+09	23	2.75E+07	404	8.14E+13	ALT (KM)
4	3.54E+09	43	2.51E+07	647	0.	4.863
6	9.47E+09	62	1.83E+07	944	0.	
8	1.38E+10	82	5.81E+06	1241	0.	TEMP (C)
10	1.23E+10	102	3.24E+06	1538	0.	-12.8
12	8.72E+09	122	1.34E+06	1835	0.	
14	7.87E+09	142	7.36E+05	2132	0.	FROSTPOINT
16	5.15E+09	161	6.34E+05	2429	0.	-19.5
18	5.77E+09	181	3.71E+05	2726	0.	
20	3.30E+09	201	3.11E+05	3023	0.	TAS (M/S)
22	2.69E+09	221	1.37E+05	3320	0.	121.0
24	1.42E+09	241	3.96E+04	3617	0.	
26	1.21E+09	260	2.49E+04	3914	0.	NT (N/M3)
28	6.89E+08	280	1.67E+04	4211	0.	1013462.7
30	1.21E+09	309	1.46E+04	4508	0.	
						TOTALS
LWC	2.74E-01		2.88E-01		5.75E-12	3.41E-01
MED D	20		123		404	146

SAMPLE: 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0:14:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	7.07E+08	23	4.42E+07	404	1.54E+14	ALT (KM)
4	2.11E+09	43	4.24E+07	647	0.	4.852
6	4.93E+09	62	2.19E+07	944	0.	
8	9.27E+09	82	9.42E+06	1241	0.	TEMP (C)
10	1.11E+10	102	5.19E+06	1538	0.	-11.9
12	1.01E+10	122	1.32E+06	1835	0.	
14	8.64E+09	142	1.16E+06	2132	0.	FROSTPOINT
16	7.04E+09	161	6.11E+05	2429	0.	-18.1
18	8.07E+09	181	5.73E+05	2726	0.	
20	5.47E+09	201	3.75E+05	3023	0.	TAS (M/S)
22	4.23E+09	221	6.98E+04	3320	0.	120.4
24	2.84E+09	241	7.54E+04	3617	0.	
26	1.77E+09	260	4.84E+04	3914	0.	NT (N/M3)
28	8.51E+08	280	3.17E+04	4211	0.	1641989.6
30	9.88E+08	330	2.75E+04	4508	0.	
						TOTALS
LWC	3.61E-01		4.17E-01		1.81E-11	5.18E-01
MED D	20		112		404	148

SAMPLE: 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 · 1 SECOND AVERAGING
INTERVAL START: 00:14:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	7.55E+08	23	6.76E+07	404	3.75E+03	ALT (KM)
4	1.78E+09	43	5.58E+07	647	5.06E+01	4.854
6	4.71E+09	62	2.98E+07	944	0.	
8	9.21E+09	82	1.31E+07	1241	0.	TEMP (C)
10	1.38E+10	102	5.65E+06	1538	0.	-12.1
12	8.08E+09	122	3.96E+06	1835	0.	
14	7.29E+09	142	1.35E+06	2132	0.	FROSTPOINT
16	5.88E+09	161	7.45E+05	2429	0.	-18.2
18	6.35E+09	181	2.97E+05	2726	0.	
20	4.57E+09	201	2.51E+05	3023	0.	TAS (M/S)
22	3.63E+09	221	1.72E+05	3320	0.	120.0
24	2.55E+09	241	9.93E+04	3617	0.	
26	1.33E+09	260	7.59E+04	3914	0.	MT (N/M3)
28	7.85E+08	280	3.35E+04	4211	0.	2207126.5
30	9.23E+08	300	2.37E+04	4508	0.	
						TOTALS
LWC	3.46E-01		5.39E-01		2.68E-02	5.76E-01
MED D	20		107		413	111

SAMPLE: 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:14:57
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	4.23E+08	23	9.76E+07	404	3.22E+14	ALT (KM)
4	1.48E+09	43	7.10E+07	647	0.	4.854
6	4.32E+09	62	3.53E+07	944	0.	
8	7.55E+09	82	1.53E+07	1241	0.	TEMP (C)
10	6.66E+09	102	5.53E+06	1538	0.	-12.1
12	5.45E+09	122	3.49E+06	1835	0.	
14	4.67E+09	142	2.17E+06	2132	0.	FROSTPOINT
16	3.58E+09	161	9.37E+05	2429	0.	-18.2
18	3.64E+09	181	7.49E+05	2726	0.	
20	2.45E+09	201	7.51E+05	3023	0.	TAS (M/S)
22	2.11E+09	221	4.49E+05	3320	0.	119.8
24	1.25E+09	241	0.	3617	0.	
26	8.63E+08	260	7.22E+04	3914	0.	MT (N/M3)
28	7.90E+08	280	5.45E+04	4211	0.	2774759.1
30	4.51E+08	300	5.77E+04	4508	0.	
						TOTALS
LWC	1.76E-01		8.93E-01		2.12E-11	8.95E-01
MED D	20		109		404	140

SAMPLE: 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:14:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	2.86E+08	23	4.77E+07	404	6.21E+04	ALT (KM)
4	6.12E+08	43	5.44E+07	647	0.	4.857
6	2.46E+09	62	2.71E+07	944	0.	
8	3.50E+09	82	1.23E+07	1241	0.	TEMP (C)
10	2.79E+09	102	6.11E+06	1538	0.	-11.9
12	2.22E+09	122	3.41E+06	1835	0.	
14	1.87E+09	142	1.75E+06	2132	0.	FROSTPOINT
16	1.44E+09	161	8.51E+05	2429	0.	-18.7
18	1.67E+09	181	4.30E+05	2726	0.	
20	8.63E+08	201	3.14E+05	3023	0.	TAS (M/S)
22	7.83E+08	221	2.11E+05	3320	0.	119.7
24	5.90E+08	241	1.15E+05	3617	0.	
26	2.79E+08	260	1.20E+05	3914	0.	MT (N/M3)
28	9.94E+07	280	1.74E+05	4211	0.	2141703.6
30	2.45E+08	300	1.11E+05	4508	0.	
						TOTALS
LWC	6.82E-02		6.15E-01		4.03E-11	1.62E+00
MED D	19		124		484	228

SAMPLE: 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:14:59
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	5.35E+07	23	6.33E+07	404	1.50E+03	ALT (KM)
4	2.29E+08	43	6.13E+07	647	1.69E+01	4.856
6	4.97E+08	62	2.57E+07	944	0.	
8	8.79E+08	82	1.31E+07	1241	0.	TEMP (C)
10	5.27E+08	102	6.77E+06	1538	0.	-11.7
12	4.13E+08	122	3.38E+06	1835	0.	
14	4.51E+08	142	1.72E+06	2132	0.	FROSTPOINT
16	3.93E+08	161	8.51E+05	2429	0.	-18.4
18	2.52E+08	181	5.47E+05	2726	0.	
20	2.83E+08	201	1.99E+05	3023	0.	TAS (M/S)
22	1.83E+08	221	2.77E+05	3320	0.	119.7
24	9.93E+07	241	1.15E+05	3617	0.	
26	4.59E+07	260	4.07E+04	3914	0.	MT (N/M3)
28	1.51E+07	280	1.44E+04	4211	0.	2277585.3
30	1.53E+07	300	1.00E+04	4508	0.	
						TOTALS
LWC	1.42E-02		5.54E-01		1.06E-02	5.65E-01
MED D	19		111		411	112

SAMPLE: 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:00
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	9.19E+07	23	8.24E+07	404	1.79E+04	ALT (KM)
4	1.92E+08	43	5.89E+07	647	0.	4.856
6	7.51E+08	62	2.90E+07	944	0.	
8	9.19E+08	82	1.26E+07	1241	0.	TEMP (C)
10	7.74E+08	102	5.34E+06	1538	0.	-11.6
12	4.67E+08	122	3.13E+06	1835	0.	
14	4.37E+08	142	1.59E+06	2132	0.	FROSTPOINT
16	3.75E+08	161	6.59E+05	2429	0.	-18.4
18	3.91E+08	181	4.04E+05	2726	0.	
20	2.22E+08	201	3.15E+05	3023	0.	TAS (M/S)
22	9.13E+07	221	2.08E+05	3320	0.	119.4
24	5.30E+07	241	0.	3617	0.	
26	4.63E+07	260	1.73E+04	3914	0.	NT (N/M3)
28	7.66E+06	280	3.53E+04	4211	0.	2221800.5
30	3.45E+07	300	3.20E+04	4508	0.	
						TOTALS
LWC	1.35E-02		5.37E-01		1.19E-01	6.24E-01
MED D	18		106		404	125

SAMPLE: 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:02
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.54E+08	23	7.15E+07	404	4.16E+03	ALT (KM)
4	4.77E+08	43	6.79E+07	647	6.80E+01	4.857
6	1.43E+09	62	2.76E+07	944	0.	
8	2.58E+09	82	1.40E+07	1241	0.	TEMP (C)
10	2.21E+09	102	7.84E+06	1538	0.	-11.5
12	1.72E+09	122	3.27E+06	1835	0.	
14	1.46E+09	142	1.04E+06	2132	0.	FROSTPOINT
16	9.76E+08	161	6.17E+05	2429	0.	-18.5
18	1.33E+09	181	4.64E+05	2726	0.	
20	8.15E+08	201	4.15E+05	3023	0.	TAS (M/S)
22	5.92E+08	221	2.09E+05	3320	0.	119.8
24	3.77E+08	241	1.55E+05	3617	0.	
26	1.54E+08	260	7.23E+04	3914	0.	NT (N/M3)
28	6.92E+07	280	3.38E+04	4211	0.	2431209.8
30	1.23E+08	300	2.42E+04	4508	0.	
						TOTALS
LWC	5.16E-02		5.57E-01		3.02E-01	5.87E-01
MED D	19		117		414	111

SAMPLE: 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	9.22E+07	23	9.26E+07	404	3.38E+14	ALT (KM)
4	2.77E+08	43	5.57E+07	647	0.	4.854
6	1.17E+09	62	2.47E+07	944	0.	
8	1.56E+09	82	1.22E+07	1241	0.	TEMP (C)
10	1.17E+09	102	6.33E+06	1538	0.	-11.5
12	9.91E+08	122	3.31E+06	1835	0.	
14	7.07E+08	142	1.59E+06	2132	0.	FROSTPOINT
16	4.04E+08	161	6.64E+05	2429	0.	-18.4
18	6.30E+08	181	3.77E+05	2726	0.	
20	4.35E+08	201	1.38E+05	3023	0.	TAS (M/S)
22	3.38E+08	221	1.74E+05	3320	0.	119.1
24	1.39E+08	241	1.16E+05	3617	0.	
26	8.45E+07	260	8.55E+04	3914	0.	NT (N/M3)
28	5.39E+07	280	6.76E+04	4211	0.	2188690.2
30	5.39E+07	300	6.35E+04	4508	0.	
						TOTALS
LWC	2.62E-02		5.23E-01		2.22E-01	7.45E-01
MED D	19		112		404	152

SAMPLE: 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:03
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	3.16E+08	23	8.06E+07	404	8.50E+13	ALT (KM)
4	9.87E+08	43	6.30E+07	647	3.41E+01	4.857
6	3.01E+09	62	3.29E+07	944	0.	
8	5.74E+09	82	1.44E+07	1241	0.	TEMP (C)
10	4.97E+09	102	7.39E+06	1538	0.	-11.6
12	3.79E+09	122	3.94E+06	1835	0.	
14	3.38E+09	142	1.73E+06	2132	0.	FROSTPOINT
16	2.65E+09	161	1.21E+05	2429	0.	-18.5
18	3.30E+09	181	8.14E+05	2726	0.	
20	1.97E+09	201	4.76E+05	3023	0.	TAS (M/S)
22	1.49E+09	221	4.18E+05	3320	0.	118.7
24	8.63E+08	241	7.75E+04	3617	0.	
26	5.32E+08	260	1.34E+05	3914	0.	NT (N/M3)
28	1.73E+09	280	1.43E+05	4211	0.	2511077.8
30	2.16E+08	300	8.98E+04	4508	0.	
						TOTALS
LWC	1.23E-01		7.22E-01		5.73E-12	7.88E-01
MED D	19		124		407	131

SAMPLE: 1

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:04
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	5.33E+09	23	6.71E+07	484	3.90E+03	ALT (KM)
4	1.37E+09	43	9.92E+07	647	1.73E+01	4.857
6	4.68E+09	62	2.73E+07	844	1.73E+01	
8	7.90E+09	82	1.23E+07	1241	0.	TEMP (C)
10	7.64E+09	102	5.98E+06	1538	0.	-11.7
12	5.78E+09	122	2.94E+06	1835	0.	
14	4.79E+09	142	1.34E+06	2132	0.	FROSTPOINT
16	3.77E+09	161	9.14E+05	2429	0.	-18.6
18	4.26E+09	181	5.51E+05	2726	0.	
20	2.63E+09	201	2.85E+05	3023	0.	TAS (M/S)
22	2.22E+09	221	2.13E+05	3320	0.	118.9
24	1.69E+09	241	7.74E+04	3617	0.	
26	9.54E+08	261	5.37E+04	3914	0.	NT (N/M3)
29	3.21E+08	291	6.29E+04	4211	0.	2174544.1
30	6.63E+08	310	4.35E+04	4508	0.	
						TOTALS
LWC	1.97E-01		5.25E-01		2.92E-12	5.56E-01
MED D	28		111		416	116

SAMPLE: 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:05
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	7.74E+08	23	2.67E+07	434	2.12E+01	ALT (KM)
4	1.74E+09	43	2.34E+07	647	3.33E+01	4.856
6	4.83E+09	62	1.17E+07	944	0.	
8	9.89E+09	82	6.22E+06	1241	0.	TEMP (C)
10	1.85E+10	102	2.51E+06	1538	0.	-12.1
12	8.44E+09	122	1.33E+06	1835	0.	
14	7.38E+09	142	7.46E+05	2132	0.	FROSTPOINT
16	6.38E+09	161	1.51E+05	2429	0.	-18.7
18	6.24E+09	181	2.31E+05	2726	0.	
20	4.12E+09	201	1.76E+05	3023	0.	TAS (M/S)
22	3.07E+09	221	8.93E+04	3320	0.	119.4
24	2.41E+09	241	0.	3617	0.	
26	1.45E+09	261	0.	3914	0.	NT (N/M3)
29	6.76E+08	291	0.	4211	0.	325436.6
30	9.65E+08	310	0.	4508	0.	
						TOTALS
LWC	3.96E-01		2.18E-01		1.57E-13	2.26E-01
MED D	26		107		577	113

SAMPLE: 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:05
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	7.86E+08	23	5.71E+07	434	3.28E+01	ALT (KM)
4	1.72E+09	43	3.38E+07	647	5.12E+01	4.857
6	4.87E+09	62	1.57E+07	944	0.	
8	9.84E+09	82	1.13E+07	1241	0.	TEMP (C)
10	9.34E+09	102	4.65E+06	1538	0.	-12.8
12	7.03E+09	122	2.24E+06	1835	0.	
14	6.92E+09	142	9.47E+05	2132	0.	FROSTPOINT
16	5.71E+09	161	4.36E+05	2429	0.	-18.6
18	5.79E+09	181	2.33E+05	2726	0.	
20	4.43E+09	201	9.51E+04	3023	0.	TAS (M/S)
22	3.39E+09	221	6.38E+04	3320	0.	118.7
24	2.27E+09	241	7.75E+04	3617	0.	
26	1.16E+09	261	0.	3914	0.	NT (N/M3)
29	7.33E+08	289	0.	4211	0.	1516238.2
30	7.63E+08	309	0.	4508	0.	
						TOTALS
LWC	2.03E-01		7.75E-01		2.98E-13	3.38E-01
MED D	28		99		673	99

SAMPLE: 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:15:07
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	5.44E+08	23	1.56E+07	434	1.95E+01	ALT (KM)
4	1.58E+09	43	1.29E+07	647	1.69E+01	4.857
6	4.55E+09	62	4.34E+06	944	0.	
8	8.78E+09	82	2.94E+06	1241	0.	TEMP (C)
10	9.57E+09	102	1.23E+06	1538	0.	-12.8
12	7.69E+09	122	5.77E+05	1835	0.	
14	6.48E+09	142	3.24E+05	2132	0.	FROSTPOINT
16	5.09E+09	161	1.34E+05	2429	0.	-18.7
18	5.72E+09	181	1.44E+05	2726	0.	
20	4.17E+09	201	6.30E+04	3023	0.	TAS (M/S)
22	3.29E+09	221	0.	3320	0.	119.5
24	1.92E+09	241	9.95E+04	3617	0.	
26	1.11E+09	269	0.	3914	0.	NT (N/M3)
29	5.89E+08	289	0.	4211	0.	461792.7
30	6.66E+08	309	0.	4508	0.	
						TOTALS
LWC	2.62E-01		1.14E-01		7.86E-04	1.05E-01
MED D	28		195		637	185

SAMPLE# 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:15:09*
PARTICLE SIZE DISTRIBUTIONS #NUMBER/M**3-MU#
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	4.85E+08	23	1.34E+07	404	1.96E+01	ALT (KM)
4	1.23E+09	43	1.24E+07	647	1.71E+01	4.859
6	4.69E+09	62	6.76E+06	944	0.	
8	7.55E+09	82	2.71E+06	1241	0.	TEMP (C)
10	6.53E+09	102	2.12E+06	1538	0.	-11.6
12	4.85E+09	122	1.38E+06	1835	0.	
14	4.38E+09	142	3.29E+05	2132	0.	FROSTPOINT
16	3.75E+09	161	2.15E+05	2429	0.	-16.7
18	3.84E+09	181	8.77E+04	2726	0.	
20	2.27E+09	201	6.33E+04	3023	0.	TAS (M/S)
22	1.65E+09	221	0.	3320	0.	118.9
24	9.77E+08	241	3.87E+04	3617	0.	
26	6.05E+08	260	0.	3914	0.	NT (N/M3)
28	2.52E+08	280	0.	4211	0.	807961.6
30	4.03E+08	300	0.	4508	0.	
						TOTALS
LWC	1.56E-01		1.23E-01		7.90E-04	1.27E-01
MED D	19		105		633	106

SAMPLE# 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:15:10*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	5.51E+08	23	5.67E+07	404	5.95E+13	ALT (KM)
4	1.53E+09	43	4.36E+07	647	5.09E+01	4.860
6	4.75E+09	62	2.84E+07	944	0.	
8	8.30E+09	82	1.04E+07	1241	0.	TEMP (C)
10	8.47E+09	102	4.55E+06	1538	0.	-11.5
12	7.13E+09	122	2.39E+06	1835	0.	
14	5.83E+09	142	1.17E+06	2132	0.	FROSTPOINT
16	4.42E+09	161	5.51E+05	2429	0.	-18.7
18	5.18E+09	181	4.32E+05	2726	0.	
20	3.55E+09	201	1.57E+05	3023	0.	TAS (M/S)
22	2.01E+09	221	3.11E+05	3320	0.	119.6
24	1.05E+09	241	1.15E+05	3617	0.	
26	1.07E+09	260	9.81E+04	3914	0.	NT (N/M3)
28	4.65E+08	280	6.77E+04	4211	0.	1934800.6
30	5.35E+08	300	4.57E+04	4508	0.	
						TOTALS
LWC	2.33E-01		4.77E-01		4.13E-12	5.15E-01
MED D	20		114		410	123

SAMPLE# 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:15:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	4.80E+08	23	4.32E+07	404	3.24E+13	ALT (KM)
4	1.40E+09	43	3.37E+07	647	3.37E+01	4.860
6	4.63E+09	62	1.49E+07	944	0.	
8	7.63E+09	82	5.05E+06	1241	0.	TEMP (C)
10	7.36E+09	112	2.53E+06	1538	0.	-11.4
12	5.65E+09	122	3.01E+06	1835	0.	
14	4.04E+09	142	7.10E+05	2132	0.	FROSTPOINT
16	3.08E+09	161	3.73E+05	2429	0.	-18.7
18	3.68E+09	181	5.75E+04	2726	0.	
20	2.76E+09	201	9.41E+04	3023	0.	TAS (M/S)
22	2.04E+09	221	1.03E+05	3320	0.	120.0
24	1.33E+09	241	0.	3617	0.	
26	7.09E+08	260	1.54E+04	3914	0.	NT (N/M3)
28	3.35E+08	280	3.28E+04	4211	0.	1107955.9
30	4.34E+08	300	2.27E+04	4508	0.	
						TOTALS
LWC	1.78E-01		2.44E-01		2.27E-12	2.66E-01
MED D	19		109		411	115

SAMPLE# 2

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:15:11*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	5.74E+08	23	7.89E+07	404	7.54E+13	ALT (KM)
4	1.36E+09	43	4.91E+07	647	1.69E+01	4.861
6	4.17E+09	62	2.78E+07	944	0.	
8	8.44E+09	82	1.52E+07	1241	0.	TEMP (C)
10	7.53E+09	102	7.01E+06	1538	0.	-11.7
12	6.53E+09	122	3.37E+06	1835	0.	
14	5.02E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	4.05E+09	161	9.51E+05	2429	0.	-18.9
18	4.58E+09	181	4.32E+05	2726	0.	
20	3.00E+09	201	2.93E+05	3023	0.	TAS (M/S)
22	2.64E+09	221	3.11E+05	3320	0.	119.6
24	1.56E+09	241	2.59E+05	3617	0.	
26	8.19E+08	260	2.11E+05	3914	0.	NT (N/M3)
28	4.13E+08	280	1.65E+05	4211	0.	2131662.1
30	5.47E+08	300	1.01E+05	4508	0.	
						TOTALS
LWC	2.05E-01		6.75E-01		5.03E-32	7.25E-01
MED D	20		124		406	192

SAMPLE# 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#30#15#12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	4.95E+08	23	4.37E+07	404	1.44E+04	ALT (KM)
4	1.35E+09	43	6.03E+07	647	0.	4.861
6	3.74E+09	62	2.75E+07	944	0.	
8	6.91E+09	82	1.19E+07	1241	0.	TEMP (C)
10	7.22E+09	102	5.64E+06	1538	0.	-11.9
12	5.47E+09	122	2.75E+06	1835	0.	
14	4.83E+09	142	1.87E+06	2132	0.	FROSTPOINT
16	3.97E+09	161	7.45E+05	2429	0.	-18.9
18	4.06E+09	181	7.18E+05	2726	0.	
20	3.25E+09	201	4.70E+05	3023	0.	TAS (M/S)
22	2.11E+09	221	1.72E+05	3320	0.	120.1
24	1.21E+09	241	2.58E+05	3617	0.	
26	8.53E+08	261	3.70E+04	3914	0.	NT (N/M3)
28	3.96E+08	280	2.57E+04	4211	0.	2222687.2
30	4.27E+08	300	2.57E+04	4508	0.	
						TOTALS
LWC	1.87E-01		5.78E-01		9.44E-12	6.72E-01
MED D	20		122		404	179

SAMPLE# 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#30#15#14*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.4
2	5.86E+08	23	5.53E+07	404	0.	ALT (KM)
4	1.61E+09	43	4.95E+07	647	0.	4.857
6	4.64E+09	62	2.12E+07	944	0.	
8	8.84E+09	82	1.16E+07	1241	0.	TEMP (C)
10	9.23E+09	102	4.76E+06	1538	0.	-12.1
12	7.48E+09	122	2.79E+06	1835	0.	
14	6.28E+09	142	9.35E+05	2132	0.	FROSTPOINT
16	5.14E+09	161	7.45E+05	2429	0.	-18.9
18	5.57E+09	181	4.31E+05	2726	0.	
20	3.62E+09	201	2.19E+05	3023	0.	TAS (M/S)
22	3.19E+09	221	2.07E+05	3320	0.	120.1
24	1.92E+09	241	0.	3617	0.	
26	1.15E+09	260	0.	3914	0.	NT (N/M3)
28	5.17E+08	280	0.	4211	0.	1807974.8
30	6.85E+08	300	0.	4508	0.	
						TOTALS
LWC	2.54E-01		4.91E-01		0.	4.01E-01
MED D	20		105		0	105

SAMPLE# 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#30#15#13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	5.64E+08	23	8.57E+07	404	4.77E+13	ALT (KM)
4	1.59E+09	43	7.17E+07	647	1.69E+01	4.859
6	4.51E+09	62	2.87E+07	944	0.	
8	8.73E+09	82	1.30E+07	1241	0.	TEMP (C)
10	8.56E+09	102	6.20E+06	1538	0.	-12.8
12	7.11E+09	122	2.95E+06	1835	0.	
14	6.28E+09	142	1.65E+06	2132	0.	FROSTPOINT
16	4.52E+09	161	6.93E+05	2429	0.	-18.8
18	5.17E+09	181	5.75E+05	2726	0.	
20	3.20E+09	201	2.20E+05	3023	0.	TAS (M/S)
22	2.96E+09	221	1.84E+05	3320	0.	120.0
24	1.71E+09	241	2.30E+05	3617	0.	
26	1.11E+09	260	1.38E+05	3914	0.	NT (N/M3)
28	6.41E+08	280	9.29E+04	4211	0.	2495745.7
30	7.78E+08	300	5.26E+04	4508	0.	
						TOTALS
LWC	2.43E-01		5.96E-01		3.21E-12	6.18E-01
MED D	20		113		407	118

SAMPLE# 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#30#15#15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	6.71E+08	23	4.43E+07	404	1.50E+13	ALT (KM)
4	2.08E+09	43	4.14E+07	647	1.69E+11	4.857
6	5.39E+09	62	1.91E+07	944	0.	
8	1.09E+10	82	9.29E+06	1241	0.	TEMP (C)
10	1.05E+10	102	3.92E+06	1538	0.	-12.2
12	8.12E+09	122	2.71E+06	1835	0.	
14	6.98E+09	142	1.07E+06	2132	0.	FROSTPOINT
16	5.65E+09	161	6.56E+05	2429	0.	-18.9
18	6.15E+09	181	3.88E+05	2726	0.	
20	4.19E+09	201	1.57E+05	3023	0.	TAS (M/S)
22	3.42E+09	221	6.93E+04	3320	0.	120.0
24	1.99E+09	241	7.57E+04	3617	0.	
26	1.29E+09	260	3.32E+04	3914	0.	NT (N/M3)
28	6.41E+08	280	1.44E+04	4211	0.	1545647.7
30	9.30E+08	300	1.02E+04	4508	0.	
						TOTALS
LWC	2.87E-01		3.49E-01		1.05E-12	3.63E-01
MED D	20		106		411	108

SAMPLE# 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:15:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	7.93E+08	23	3.21E+07	404	1.05E+01	ALT (KM)
4	2.19E+09	43	2.53E+07	647	1.63E+01	4.856
6	5.52E+09	62	1.41E+07	944	0.	
8	1.10E+10	82	5.77E+06	1241	0.	TEMP (C)
10	1.19E+10	102	2.76E+06	1538	0.	-12.2
12	9.70E+09	122	1.43E+06	1835	0.	
14	8.13E+09	142	6.44E+05	2132	0.	FROSTPOINT
16	6.13E+09	161	2.19E+05	2429	0.	-19.0
18	6.97E+09	181	1.77E+05	2726	0.	
20	4.99E+09	201	9.83E+04	3023	0.	TAS (M/S)
22	3.92E+09	221	1.43E+05	3320	0.	120.7
24	2.62E+09	241	0.	3617	0.	
26	1.73E+09	260	0.	3914	0.	NT (N/M3)
28	7.46E+08	280	0.	4211	0.	1614517.5
30	1.22E+09	300	0.	4508	0.	
						TOTALS
LWC	3.41E-01		2.19E-01		7.81E-04	2.19E-01
MED D	20		180		537	101

SAMPLE# 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:15:19*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	9.63E+08	23	2.99E+07	404	1.43E+04	ALT (KM)
4	2.44E+09	43	1.74E+07	647	0.	4.854
6	6.03E+09	62	1.06E+07	944	0.	
8	1.19E+10	82	4.53E+06	1241	0.	TEMP (C)
10	1.21E+10	102	1.93E+06	1538	0.	-12.0
12	9.96E+09	122	1.14E+06	1835	0.	
14	8.51E+09	142	6.10E+05	2132	0.	FROSTPOINT
16	6.84E+09	161	2.38E+05	2429	0.	-19.2
18	7.13E+09	181	1.43E+05	2726	0.	
20	4.96E+09	201	9.35E+04	3023	0.	TAS (M/S)
22	4.11E+09	221	1.33E+05	3320	0.	120.7
24	2.57E+09	241	7.52E+04	3617	0.	
26	1.52E+09	260	4.57E+04	3914	0.	NT (N/M3)
28	6.97E+08	280	2.86E+04	4211	0.	734495.1
30	1.07E+09	300	2.56E+04	4508	0.	
						TOTALS
LWC	3.41E-01		2.35E-01		9.40E-02	2.99E-01
MED D	20		121		404	185

SAMPLE# 2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:15:17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	8.49E+08	23	2.62E+07	404	4.13E+03	ALT (KM)
4	2.32E+09	43	1.65E+07	647	3.75E+01	4.856
6	5.76E+09	62	7.68E+06	944	0.	
8	1.11E+10	82	4.75E+06	1241	0.	TEMP (C)
10	1.15E+10	102	9.91E+05	1538	0.	-12.1
12	9.61E+09	122	5.16E+05	1835	0.	
14	8.39E+09	142	4.82E+05	2132	0.	FROSTPOINT
16	6.95E+09	161	4.24E+05	2429	0.	-19.1
18	7.16E+09	181	3.37E+04	2726	0.	
20	4.69E+09	201	1.25E+05	3023	0.	TAS (M/S)
22	4.24E+09	221	3.43E+04	3320	0.	120.7
24	2.46E+09	241	7.52E+04	3617	0.	
26	1.49E+09	260	6.37E+04	3914	0.	NT (N/M3)
28	7.08E+08	280	4.76E+04	4211	0.	578714.7
30	1.20E+09	300	3.23E+04	4508	0.	
						TOTALS
LWC	3.42E-01		1.91E-01		2.85E-02	2.09E-01
MED D	20		139		409	157

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:18:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	9.02E+08	23	1.33E+07	404	2.37E+04	ALT (KM)
4	2.31E+09	43	1.20E+07	647	0.	4.846
6	6.09E+09	62	7.27E+06	944	0.	
8	1.13E+10	82	3.75E+06	1241	0.	TEMP (C)
10	1.25E+10	102	1.36E+06	1538	0.	-11.2
12	9.73E+09	122	3.87E+05	1835	0.	
14	9.54E+09	142	3.56E+05	2132	0.	FROSTPOINT
16	7.56E+09	161	3.20E+05	2429	0.	-23.1
18	8.01E+09	181	2.31E+05	2726	0.	
20	5.35E+09	201	1.57E+05	3023	0.	TAS (M/S)
22	4.52E+09	221	0.	3320	0.	119.6
24	2.40E+09	241	7.84E+04	3617	0.	
26	1.84E+09	260	4.27E+04	3914	0.	NT (N/M3)
28	8.64E+08	280	4.76E+04	4211	0.	534689.6
30	1.39E+09	300	4.24E+04	4508	0.	
						TOTALS
LWC	3.77E-01		1.78E-01		1.56E-01	8.33E-01
MED D	20		132		404	292

SAMPLE: 3

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:18:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	0.03E+08	23	2.55E+07	404	4.36E+13	ALT (KM)
4	2.43E+09	43	2.40E+07	647	1.63E+01	4.847
6	6.44E+09	62	1.18E+07	944	0.	
8	1.11E+10	82	4.38E+06	1241	0.	TEMP (C)
10	1.13E+10	102	2.55E+06	1538	0.	-11.5
12	8.49E+09	122	1.69E+06	1835	0.	
14	7.8+E+09	142	7.45E+05	2132	0.	FROSTPOINT
16	5.83E+09	161	4.27E+05	2429	0.	-23.1
18	6.61E+09	181	2.98E+05	2726	0.	
20	4.12E+09	201	2.83E+05	3023	0.	TAS (M/S)
22	3.52E+09	221	3.46E+05	3320	0.	119.7
24	2.13E+09	241	7.59E+04	3617	0.	
26	1.45E+09	260	3.22E+04	3914	0.	NT (N/M3)
28	5.35E+08	280	8.79E+04	4211	0.	2196+8.0
30	1.01E+09	300	5.60E+04	4508	0.	
						TOTALS
LWC	3.03E-01		7.26E-01		3.73E-02	3.59E-01
MED D	20		151		407	166

SAMPLE: 3

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:18:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	6.83E+08	23	6.55E+07	404	4.29E+14	ALT (KM)
4	2.03E+09	43	5.23E+07	647	0.	4.849
6	6.09E+09	62	2.00E+07	944	0.	
8	9.85E+09	82	1.27E+07	1241	0.	TEMP (C)
10	8.16E+09	102	6.87E+06	1538	0.	-12.1
12	6.13E+09	122	3.46E+06	1835	0.	
14	5.08E+09	142	1.52E+06	2132	0.	FROSTPOINT
16	3.81E+09	161	8.31E+05	2429	0.	-23.1
18	4.05E+09	181	5.77E+05	2726	0.	
20	2.68E+09	201	3.77E+05	3023	0.	TAS (M/S)
22	2.12E+09	221	2.77E+05	3320	0.	119.6
24	1.13E+09	241	1.32E+05	3617	0.	
26	8.56E+08	260	1.28E+05	3914	0.	NT (N/M3)
28	3.98E+08	280	8.55E+04	4211	0.	1378422.3
30	6.35E+08	300	7.58E+04	4508	0.	
						TOTALS
LWC	1.92E-01		5.97E-01		2.82E-11	8.79E-01
MED D	20		135		404	190

SAMPLE: 3

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:18:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 11 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	8.11E+08	23	7.36E+07	404	2.51E+14	ALT (KM)
4	1.99E+09	43	4.36E+07	647	0.	4.847
6	5.92E+09	62	2.47E+07	944	0.	
8	1.07E+10	82	9.37E+06	1241	0.	TEMP (C)
10	8.83E+09	102	5.29E+06	1538	0.	-11.9
12	7.24E+09	122	2.47E+06	1835	0.	
14	5.92E+09	142	1.46E+06	2132	0.	FROSTPOINT
16	5.03E+09	161	9.12E+05	2429	0.	-23.1
18	5.21E+09	181	6.97E+05	2726	0.	
20	3.43E+09	201	2.54E+05	3023	0.	TAS (M/S)
22	2.47E+09	221	2.42E+05	3320	0.	119.5
24	1.61E+09	241	1.34E+05	3617	0.	
26	8.3+E+08	260	8.79E+04	3914	0.	NT (N/M3)
28	5.29E+08	280	5.12E+04	4211	0.	1782225.7
30	6.12E+08	300	4.49E+04	4508	0.	
						TOTALS
LWC	2.29E-01		5.08E-01		1.65E-11	6.73E-01
MED D	19		123		404	162

SAMPLE: 3

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:18:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	3.44E+08	23	6.79E+07	404	1.79E+14	ALT (KM)
4	1.11E+09	43	5.76E+07	647	0.	4.849
6	3.78E+09	62	2.65E+07	944	0.	
8	5.58E+09	82	1.43E+07	1241	0.	TEMP (C)
10	4.63E+09	102	8.61E+06	1538	0.	-12.2
12	3.84E+09	122	3.54E+06	1835	0.	
14	3.01E+09	142	1.75E+06	2132	0.	FROSTPOINT
16	2.29E+09	161	9.91E+05	2429	0.	-23.1
18	2.32E+09	181	6.34E+05	2726	0.	
20	1.28E+09	201	3.46E+05	3023	0.	TAS (M/S)
22	1.15E+09	221	2.42E+05	3320	0.	119.6
24	5.97E+08	241	2.31E+05	3617	0.	
26	2.45E+08	260	9.3AE+04	3914	0.	NT (N/M3)
28	1.78E+08	280	3.57E+04	4211	0.	2229689.7
30	2.14E+08	300	3.20E+04	4508	0.	
						TOTALS
LWC	9.52E-02		5.04E-01		1.17E-11	7.21E-01
MED D	18		119		404	136

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*00:18:50*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	5.36E+08	23	4.67E+07	404	3.85E+04	ALT (KM)
4	1.29E+09	43	3.40E+07	647	0.	4.849
6	3.92E+09	62	1.91E+07	944	0.	
8	6.56E+09	82	3.47E+06	1241	0.	TEMP (C)
10	5.66E+09	102	4.77E+06	1538	0.	-12.2
12	4.49E+09	122	2.61E+06	1835	0.	
14	3.58E+09	142	1.39E+06	2132	0.	FROSTPOINT
16	3.13E+09	161	5.62E+05	2429	0.	-23.2
18	3.03E+09	181	3.47E+05	2726	0.	
20	1.85E+09	201	3.47E+05	3023	0.	TAS (M/S)
22	1.59E+09	221	2.47E+05	3320	0.	119.5
24	8.65E+08	241	3.85E+04	3617	0.	
26	4.93E+08	261	5.45E+04	3914	0.	NT (N/M3)
28	3.23E+08	281	7.70E+04	4211	0.	1449053.5
30	4.14E+08	301	5.90E+04	4508	0.	
						TOTALS
LWC	1.66E-01		4.34E-01		2.53E-01	6.87E-01
MED D	19		124		404	204

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*00:18:52*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	5.67E+08	23	4.01E+07	434	5.04E+03	ALT (KM)
4	1.85E+09	43	3.52E+07	647	5.03E+31	4.849
6	4.88E+09	62	1.31E+07	944	0.	
8	8.28E+09	82	6.63E+06	1241	0.	TEMP (C)
10	7.65E+09	102	7.51E+06	1538	0.	-12.2
12	5.68E+09	122	1.34E+06	1835	0.	
14	5.21E+09	142	1.27E+06	2132	0.	FROSTPOINT
16	3.85E+09	161	5.36E+05	2429	0.	-23.2
18	4.13E+09	181	2.60E+05	2726	0.	
20	2.99E+09	201	3.15E+05	3023	0.	TAS (M/S)
22	2.13E+09	221	1.39E+05	3320	0.	119.3
24	1.13E+09	241	3.85E+04	3617	0.	
26	8.51E+08	261	4.49E+04	3914	0.	NT (N/M3)
28	2.91E+08	281	5.23E+04	4211	0.	1248559.5
30	6.82E+08	301	3.60E+04	4508	0.	
						TOTALS
LWC	1.92E-01		3.40E-01		3.53E-32	3.75E-01
MED D	20		124		411	134

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*00:18:51*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	4.91E+08	23	3.45E+07	434	1.69E+04	ALT (KM)
4	1.65E+09	43	2.17E+07	647	0.	4.847
6	4.34E+09	62	1.36E+07	944	0.	
8	7.29E+09	82	5.41E+06	1241	0.	TEMP (C)
10	6.27E+09	102	3.79E+06	1538	0.	-12.2
12	4.97E+09	122	2.39E+06	1835	0.	
14	4.20E+09	142	1.04E+06	2132	0.	FROSTPOINT
16	3.12E+09	161	4.82E+05	2429	0.	-23.2
18	3.83E+09	181	3.18E+05	2726	0.	
20	2.42E+09	201	1.58E+05	3023	0.	TAS (M/S)
22	1.81E+09	221	1.97E+05	3320	0.	119.3
24	1.09E+09	241	3.85E+04	3617	0.	
26	6.99E+08	261	3.61E+04	3914	0.	NT (N/M3)
28	3.45E+08	281	3.37E+04	4211	0.	967427.2
30	4.75E+08	301	3.02E+04	4508	0.	
						TOTALS
LWC	1.62E-01		3.04E-01		1.11E-01	4.15E-01
MED D	20		124		404	157

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*00:18:53*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 21 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	8.83E+08	23	6.09E+07	434	3.11E+33	ALT (KM)
4	2.06E+09	43	3.78E+07	647	1.70E+31	4.847
6	5.43E+09	62	1.54E+07	944	0.	
8	9.83E+09	82	8.12E+06	1241	0.	TEMP (C)
10	1.00E+10	102	3.73E+06	1538	0.	-12.2
12	7.04E+09	122	2.52E+06	1835	0.	
14	6.45E+09	142	7.90E+05	2132	0.	FROSTPOINT
16	5.40E+09	161	5.36E+05	2429	0.	-23.3
18	5.23E+09	181	3.76E+05	2726	0.	
20	3.62E+09	201	4.42E+05	3023	0.	TAS (M/S)
22	2.89E+09	221	1.74E+05	3320	0.	119.2
24	1.70E+09	241	7.72E+04	3617	0.	
26	1.09E+09	261	5.79E+04	3914	0.	NT (N/M3)
28	5.22E+08	281	6.34E+04	4211	0.	1449507.8
30	6.98E+08	301	2.85E+04	4508	0.	
						TOTALS
LWC	2.46E-01		3.93E-01		2.12E-32	4.14E-01
MED D	20		120		408	124

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:18:54*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	8.61E+08	23	5.03E+07	404	2.62E+04	ALT (KM)
4	2.23E+09	43	3.41E+07	647	0.	4.847
6	6.01E+09	62	1.30E+07	944	0.	
8	1.13E+10	82	7.15E+06	1241	0.	TEMP (C)
10	1.13E+10	102	2.96E+06	1538	0.	-12.3
12	7.82E+09	122	2.44E+06	1835	0.	
14	6.62E+09	142	9.12E+05	2132	0.	FROSTPOINT
16	5.15E+09	161	3.76E+05	2429	0.	-23.3
18	6.09E+09	181	2.30E+05	2726	0.	
20	3.95E+09	201	1.16E+05	3023	0.	TAS (M/S)
22	3.08E+09	221	1.79E+05	3320	0.	119.0
24	1.34E+09	241	0.	3617	0.	
26	1.16E+09	260	2.52E+04	3914	0.	NT (N/M3)
28	4.54E+08	281	5.25E+04	4211	0.	1228716.7
30	7.38E+08	301	4.70E+04	4508	0.	
						TOTALS
LWC	2.04E-01		7.26E-01		1.72E-01	4.98E-01
MED D	20		120		404	187

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:18:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	1.08E+09	23	2.68E+07	404	3.22E+03	ALT (KM)
4	2.66E+09	43	2.00E+07	647	1.73E+01	4.845
6	6.97E+09	62	9.37E+06	944	0.	
8	1.36E+10	82	4.51E+06	1241	0.	TEMP (C)
10	1.30E+10	102	2.73E+06	1538	0.	-12.3
12	1.03E+10	122	1.34E+06	1835	0.	
14	8.26E+09	142	8.44E+05	2132	0.	FROSTPOINT
16	6.91E+09	161	3.22E+05	2429	0.	-23.0
18	7.11E+09	181	4.35E+05	2726	0.	
20	4.92E+09	201	1.26E+05	3023	0.	TAS (M/S)
22	4.22E+09	221	2.09E+05	3320	0.	119.1
24	2.55E+09	241	1.15E+05	3617	0.	
26	1.93E+09	260	7.26E+04	3914	0.	NT (N/M3)
28	7.76E+08	281	4.55E+04	4211	0.	1008046.6
30	1.21E+09	301	2.96E+04	4508	0.	
						TOTALS
LWC	3.58E-01		2.99E-01		6.13E-02	3.11E-01
MED D	20		136		408	144

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:18:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	9.03E+08	23	2.44E+07	404	4.45E+13	ALT (KM)
4	2.33E+09	43	2.15E+07	647	1.71E+01	4.845
6	6.75E+09	62	1.50E+07	944	0.	
8	1.17E+10	82	5.25E+06	1241	0.	TEMP (C)
10	1.14E+10	102	3.12E+06	1538	0.	-12.2
12	8.71E+09	122	1.74E+06	1835	0.	
14	7.11E+09	142	1.17E+06	2132	0.	FROSTPOINT
16	5.64E+09	161	4.82E+05	2429	0.	-23.2
18	6.34E+09	181	2.51E+05	2726	0.	
20	4.22E+09	201	2.53E+05	3023	0.	TAS (M/S)
22	3.24E+09	221	2.43E+05	3320	0.	119.2
24	2.07E+09	241	7.72E+04	3617	0.	
26	1.45E+09	260	7.58E+04	3914	0.	NT (N/M3)
28	5.99E+08	281	7.44E+04	4211	0.	954646.2
30	8.83E+08	301	4.75E+04	4508	0.	
						TOTALS
LWC	2.91E-01		3.29E-01		3.00E-02	3.59E-01
MED D	20		136		407	145

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:18:57*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	1.12E+09	23	2.46E+07	404	9.66E+13	ALT (KM)
4	2.63E+09	43	1.94E+07	647	0.	4.846
6	6.67E+09	62	9.51E+06	944	0.	
8	1.24E+10	82	4.53E+06	1241	0.	TEMP (C)
10	1.13E+10	102	2.85E+06	1538	0.	-12.2
12	9.85E+09	122	1.16E+06	1835	0.	
14	8.73E+09	142	4.88E+05	2132	0.	FROSTPOINT
16	6.65E+09	161	2.41E+05	2429	0.	-22.7
18	7.71E+09	181	1.16E+05	2726	0.	
20	5.41E+09	201	2.53E+05	3023	0.	TAS (M/S)
22	4.22E+09	221	1.04E+05	3320	0.	119.1
24	2.28E+09	241	3.86E+04	3617	0.	
26	1.66E+09	260	2.73E+04	3914	0.	NT (N/M3)
28	8.68E+08	281	1.93E+04	4211	0.	765819.5
30	1.44E+09	301	1.73E+04	4508	0.	
						TOTALS
LWC	3.62E-01		2.09E-01		6.35E-02	2.73E-01
MED D	20		115		404	140

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:18:59*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	1.12E+09	23	3.34E+07	404	1.39E+03	ALT (KM)
4	2.51E+09	43	3.11E+07	647	3.39E+01	4.845
6	7.43E+09	62	1.22E+07	944	0.	
8	1.33E+10	82	7.13E+06	1241	0.	TEMP (C)
10	1.71E+10	102	7.01E+06	1538	0.	-12.1
12	1.45E+10	122	1.34E+06	1835	0.	
14	8.49E+09	142	9.77E+05	2132	0.	FROSTPOINT
16	7.04E+09	161	7.21E+05	2429	0.	-22.4
18	7.06E+09	181	1.16E+05	2726	0.	
20	4.88E+09	201	1.26E+05	3023	0.	TAS (M/S)
22	4.12E+09	221	1.04E+05	3320	0.	119.7
24	2.69E+09	241	2.73E+05	3617	0.	
26	1.72E+09	260	6.25E+04	3914	0.	NT (N/M3)
28	7.82E+09	280	1.45E+04	4211	0.	1123410.8
30	1.19E+09	300	1.14E+04	4508	0.	
						TOTALS
LWC	7.55E-01		2.31E-01		1.78E-32	3.04E-01
MED D	20		119		415	123

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:19:00*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	9.44E+08	23	2.58E+07	404	2.64E+03	ALT (KM)
4	2.78E+09	43	2.02E+07	647	1.73E+01	4.846
6	7.57E+09	62	7.71E+06	944	0.	
8	1.25E+10	82	3.69E+06	1241	0.	TEMP (C)
10	1.37E+10	102	2.68E+06	1538	0.	-12.1
12	9.97E+09	122	1.20E+06	1835	0.	
14	9.63E+09	142	7.48E+05	2132	0.	FROSTPOINT
16	6.40E+09	161	3.22E+05	2429	0.	-21.9
18	7.35E+09	181	1.16E+05	2726	0.	
20	4.71E+09	201	1.58E+05	3023	0.	TAS (M/S)
22	4.25E+09	221	1.74E+05	3320	0.	119.2
24	2.53E+09	241	1.16E+05	3617	0.	
26	1.74E+09	260	6.25E+04	3914	0.	NT (N/M3)
28	9.23E+08	280	3.38E+04	4211	0.	738539.1
30	1.37E+09	300	2.25E+04	4508	0.	
						TOTALS
LWC	7.61E-01		2.34E-01		1.51E-32	2.52E-01
MED D	20		134		408	142

SAMPLE# 3 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:18:53*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 21 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	1.88E+09	23	3.34E+07	404	1.46E+01	ALT (KM)
4	3.13E+09	43	2.55E+07	647	1.73E+01	4.845
6	7.43E+09	62	1.13E+07	944	0.	
8	1.37E+10	82	4.26E+06	1241	0.	TEMP (C)
10	1.31E+10	102	2.30E+06	1538	0.	-12.1
12	1.01E+10	122	1.35E+06	1835	0.	
14	8.93E+09	142	7.14E+05	2132	0.	FROSTPOINT
16	6.44E+09	161	3.14E+05	2429	0.	-22.1
18	7.15E+09	181	2.12E+05	2726	0.	
20	4.69E+09	201	2.71E+05	3023	0.	TAS (M/S)
22	3.85E+09	221	0.37E+04	3320	0.	119.4
24	2.34E+09	241	1.34E+05	3617	0.	
26	1.64E+09	260	0.	3914	0.	NT (N/M3)
28	7.43E+08	280	0.	4211	0.	925187.4
30	1.21E+09	300	0.	4508	0.	
						TOTALS
LWC	3.42E-01		2.32E-01		7.87E-34	2.32E-01
MED D	20		117		573	117

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:20:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 11 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	1.60E+09	23	4.93E+07	404	3.29E+04	ALT (KM)
4	5.55E+09	43	3.41E+07	647	0.	4.849
6	1.35E+10	62	1.38E+07	944	0.	
8	1.93E+10	82	7.39E+06	1241	0.	TEMP (C)
10	1.83E+10	102	3.30E+06	1538	0.	-12.1
12	1.33E+10	122	1.34E+06	1835	0.	
14	1.13E+10	142	9.60E+05	2132	0.	FROSTPOINT
16	8.03E+09	161	3.96E+05	2429	0.	-22.9
18	8.61E+09	181	2.85E+05	2726	0.	
20	4.86E+09	201	2.49E+05	3023	0.	TAS (M/S)
22	4.43E+09	221	1.71E+05	3320	0.	121.1
24	2.55E+09	241	1.14E+05	3617	0.	
26	2.46E+09	260	9.66E+04	3914	0.	NT (N/M3)
28	1.19E+09	280	6.58E+04	4211	0.	1260526.9
30	2.34E+09	300	5.99E+04	4508	0.	
						TOTALS
LWC	4.51E-01		7.50E-01		2.16E-31	5.67E-01
MED D	21		123		404	228

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 03:20:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	1.57E+09	23	4.51E+07	404	4.93E+17	ALT (KM)
4	5.69E+09	43	3.96E+07	647	1.67E+01	4.849
6	1.42E+10	62	1.75E+07	944	0.	
8	2.08E+10	82	8.97E+06	1241	0.	TEMP (C)
10	1.81E+10	102	4.51E+06	1538	0.	-12.3
12	1.68E+10	122	2.32E+06	1835	0.	
14	1.17E+10	142	1.08E+06	2132	0.	FROSTPOINT
16	7.19E+09	161	6.57E+05	2429	0.	-22.9
18	7.91E+09	181	3.42E+05	2726	0.	
20	4.73E+09	201	2.73E+05	3023	0.	TAS (M/S)
22	4.18E+09	221	1.37E+05	3320	0.	120.9
24	2.31E+09	241	1.14E+05	3617	0.	
26	2.16E+09	260	1.00E+05	3914	0.	NT (N/M3)
28	1.11E+09	280	5.76E+04	4211	0.	1503158.6
30	2.06E+09	300	5.54E+04	4508	0.	
						TOTALS
LWC	4.20E-01		4.73E-01		3.31E-12	4.66E-01
MED D	20		125		407	133

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 03:20:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.75E+09	23	4.17E+07	404	3.30E+14	ALT (KM)
4	5.65E+09	43	3.81E+07	647	0.	4.864
6	1.29E+10	62	2.02E+07	944	0.	
8	1.88E+10	82	9.34E+06	1241	0.	TEMP (C)
10	1.72E+10	102	4.55E+06	1538	0.	-12.6
12	1.17E+10	122	1.99E+06	1835	0.	
14	1.07E+10	142	1.15E+06	2132	0.	FROSTPOINT
16	7.03E+09	161	5.28E+05	2429	0.	-22.9
18	7.28E+09	181	4.44E+05	2726	0.	
20	4.23E+09	201	2.85E+05	3023	0.	TAS (M/S)
22	4.09E+09	221	6.94E+04	3320	0.	121.1
24	2.25E+09	241	0.	3617	0.	
26	1.93E+09	260	3.30E+04	3914	0.	NT (N/M3)
28	9.97E+08	280	7.30E+04	4211	0.	1539854.4
30	1.90E+09	300	6.38E+04	4508	0.	
						TOTALS
LWC	3.92E-01		4.00E-01		2.56E-11	6.57E-01
MED D	20		113		404	195

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 03:20:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	1.61E+09	23	5.09E+07	404	7.74E+14	ALT (KM)
4	5.62E+09	43	3.73E+07	647	0.	4.859
6	1.38E+10	62	1.72E+07	944	0.	
8	1.92E+10	82	1.14E+07	1241	0.	TEMP (C)
10	1.77E+10	102	4.50E+06	1538	0.	-12.5
12	1.25E+10	122	2.56E+06	1835	0.	
14	1.11E+10	142	1.50E+06	2132	0.	FROSTPOINT
16	7.26E+09	161	5.94E+05	2429	0.	-22.9
18	8.38E+09	181	3.14E+05	2726	0.	
20	4.79E+09	201	2.77E+05	3023	0.	TAS (M/S)
22	4.38E+09	221	1.71E+05	3320	0.	121.0
24	2.33E+09	241	7.60E+04	3617	0.	
26	2.15E+09	261	1.78E+05	3914	0.	NT (N/M3)
28	9.98E+08	280	1.35E+05	4211	0.	1509298.4
30	1.92E+09	300	1.39E+05	4508	0.	
						TOTALS
LWC	4.16E-01		4.32E-01		5.09E-11	1.00E+00
MED D	20		133		404	313

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 03:20:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	1.47E+09	23	5.33E+07	404	2.34E+14	ALT (KM)
4	5.79E+09	43	3.26E+07	647	0.	4.849
6	1.39E+10	62	2.19E+07	944	0.	
8	1.94E+10	82	9.76E+06	1241	0.	TEMP (C)
10	1.63E+10	102	4.72E+06	1538	0.	-12.7
12	1.13E+10	122	2.54E+06	1835	0.	
14	1.09E+10	142	1.18E+06	2132	0.	FROSTPOINT
16	7.29E+09	161	7.12E+05	2429	0.	-22.8
18	7.17E+09	181	4.56E+05	2726	0.	
20	4.55E+09	201	2.17E+05	3023	0.	TAS (M/S)
22	3.69E+09	221	1.37E+05	3320	0.	121.1
24	2.33E+09	241	1.52E+05	3617	0.	
26	1.84E+09	260	9.43E+04	3914	0.	NT (N/M3)
28	9.82E+08	280	4.68E+04	4211	0.	1463267.1
30	1.75E+09	300	4.19E+04	4508	0.	
						TOTALS
LWC	3.85E-01		4.40E-01		1.54E-01	5.93E-01
MED D	20		120		404	158

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:20:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.68E+09	23	5.15E+07	484	1.76E+04	ALT (KM)
4	5.87E+09	43	3.35E+07	647	0.	4.864
6	1.40E+10	62	2.11E+07	944	0.	
8	1.97E+10	82	9.14E+06	1241	0.	TEMP (C)
10	1.73E+10	102	4.93E+06	1538	0.	-12.7
12	1.19E+10	122	3.05E+06	1835	0.	
14	1.13E+10	142	1.31E+06	2132	0.	FROSTPOINT
16	7.56E+09	161	4.48E+05	2429	0.	-22.6
18	7.63E+09	181	5.41E+05	2726	0.	
20	4.29E+09	201	2.49E+05	3023	0.	TAS (M/S)
22	3.76E+09	221	1.71E+05	3320	0.	121.1
24	2.03E+09	241	7.39E+04	3617	0.	
26	2.04E+09	261	5.17E+04	3914	0.	NT (N/M3)
28	1.05E+09	280	3.53E+04	4211	0.	1477443.9
30	1.93E+09	300	3.16E+04	4508	0.	
						TOTALS
LWC	3.97E-01		4.25E-01		1.16E-01	5.41E-01
MED D	28		117		404	140

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:20:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.64E+09	23	9.24E+07	484	5.78E+04	ALT (KM)
4	6.02E+09	43	5.17E+07	647	0.	4.852
6	1.37E+10	62	2.29E+07	944	0.	
8	1.98E+10	82	1.20E+07	1241	0.	TEMP (C)
10	1.77E+10	102	5.00E+06	1538	0.	-12.8
12	1.24E+10	122	2.50E+06	1835	0.	
14	1.08E+10	142	1.73E+06	2132	0.	FROSTPOINT
16	7.23E+09	161	6.86E+05	2429	0.	-22.9
18	7.25E+09	181	5.42E+05	2726	0.	
20	4.18E+09	201	2.49E+05	3023	0.	TAS (M/S)
22	3.80E+09	221	1.88E+05	3320	0.	121.8
24	2.19E+09	241	1.14E+05	3617	0.	
26	1.91E+09	260	1.14E+05	3914	0.	NT (N/M3)
28	9.60E+08	280	1.14E+05	4211	0.	1954173.6
30	1.57E+09	300	1.02E+05	4508	0.	
						TOTALS
LWC	1.80E-01		5.53E-01		3.75E-01	9.28E-01
MED D	28		127		404	235

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:20:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	1.79E+09	23	6.36E+07	484	5.99E+04	ALT (KM)
4	5.63E+09	43	4.73E+07	647	0.	4.850
6	1.42E+10	62	2.57E+07	944	1.75E+01	
8	1.93E+10	82	1.31E+07	1241	0.	TEMP (C)
10	1.85E+10	102	5.31E+06	1538	0.	-12.8
12	1.26E+10	122	3.19E+06	1835	0.	
14	1.16E+10	142	1.37E+06	2132	0.	FROSTPOINT
16	7.39E+09	161	7.12E+05	2429	0.	-22.3
18	7.59E+09	181	5.12E+05	2726	0.	
20	4.45E+09	201	1.24E+05	3023	0.	TAS (M/S)
22	3.89E+09	221	2.73E+05	3320	0.	121.2
24	2.51E+09	241	1.52E+05	3617	0.	
26	1.95E+09	260	1.34E+05	3914	0.	NT (N/M3)
28	9.29E+08	280	1.18E+05	4211	0.	1955484.6
30	1.80E+09	300	1.06E+05	4508	0.	
						TOTALS
LWC	3.39E-01		5.54E-01		3.98E-01	9.54E-01
MED D	28		121		405	246

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:23:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	1.61E+09	23	5.55E+07	484	5.64E+04	ALT (KM)
4	5.84E+09	43	5.75E+07	647	0.	4.858
6	1.43E+10	62	2.59E+07	944	0.	
8	2.02E+10	82	1.25E+07	1241	0.	TEMP (C)
10	1.76E+10	102	6.94E+06	1538	0.	-12.9
12	1.32E+10	122	3.88E+06	1835	0.	
14	1.23E+10	142	2.81E+06	2132	0.	FROSTPOINT
16	7.45E+09	161	9.84E+05	2429	0.	-21.7
18	7.51E+09	181	7.84E+05	2726	0.	
20	4.61E+09	201	2.78E+05	3023	0.	TAS (M/S)
22	3.98E+09	221	4.62E+05	3320	0.	121.7
24	2.33E+09	241	1.51E+05	3617	0.	
26	2.29E+09	260	1.31E+05	3914	0.	NT (N/M3)
28	1.20E+09	280	1.13E+05	4211	0.	2221950.4
30	2.06E+09	300	1.01E+05	4508	0.	
						TOTALS
LWC	4.22E-01		6.76E-01		3.71E-01	1.09E+00
MED D	28		129		404	289

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:28:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.64E+09	23	8.74E+07	404	2.23E+04	ALT (KM)
4	5.34E+09	43	6.32E+07	647	0.	4.852
6	1.36E+10	62	3.82E+07	944	0.	
8	1.98E+10	82	1.85E+07	1241	0.	TEMP (C)
10	1.66E+10	102	7.86E+06	1538	0.	-12.9
12	1.09E+10	122	3.92E+06	1835	0.	
14	1.04E+10	142	2.20E+06	2132	0.	FROSTPOINT
16	6.71E+09	161	1.23E+06	2429	0.	-21.7
18	7.21E+09	181	3.40E+05	2726	0.	
20	4.32E+09	201	6.19E+05	3023	0.	TAS (M/S)
22	3.68E+09	221	3.40E+05	3320	0.	121.7
24	2.89E+09	241	1.31E+05	3617	0.	
26	1.88E+09	260	8.21E+04	3914	0.	NT (N/M3)
28	8.65E+08	280	4.46E+04	4211	0.	2454795.5
30	1.73E+09	300	3.39E+04	4508	0.	
						TOTALS
LWC	3.71E-01		6.75E-01		1.46E-01	8.22E-01
MED D	20		119		406	140

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:28:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.56E+09	23	9.54E+07	484	5.29E+03	ALT (KM)
4	5.65E+09	43	7.73E+07	647	1.67E+01	4.853
6	1.36E+10	62	3.66E+07	944	0.	
8	1.82E+10	82	1.52E+07	1241	0.	TEMP (C)
10	1.62E+10	102	8.88E+06	1538	0.	-12.9
12	1.06E+10	122	4.06E+06	1835	0.	
14	9.74E+09	142	2.33E+06	2132	0.	FROSTPOINT
16	6.29E+09	161	1.03E+06	2429	0.	-20.8
18	6.86E+09	181	3.26E+05	2726	0.	
20	3.99E+09	201	4.04E+05	3023	0.	TAS (M/S)
22	3.50E+09	221	3.42E+05	3320	0.	121.2
24	1.96E+09	241	1.52E+05	3617	0.	
26	2.02E+09	260	1.71E+05	3914	0.	NT (N/M3)
28	1.02E+09	280	1.32E+05	4211	0.	2805518.5
30	1.77E+09	300	1.16E+05	4508	0.	
						TOTALS
LWC	3.66E-01		7.32E-01		5.52E-02	8.47E-01
MED D	20		125		406	142

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:28:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.72E+09	23	1.01E+08	484	5.69E+03	ALT (KM)
4	5.73E+09	43	7.16E+07	647	1.67E+01	4.852
6	1.49E+10	62	3.47E+07	944	0.	
8	1.97E+10	82	1.84E+07	1241	0.	TEMP (C)
10	1.63E+10	102	8.16E+06	1538	0.	-12.9
12	1.08E+10	122	3.98E+06	1835	0.	
14	9.99E+09	142	2.05E+06	2132	0.	FROSTPOINT
16	6.87E+09	161	1.19E+06	2429	0.	-21.1
18	6.65E+09	181	9.36E+05	2726	0.	
20	3.99E+09	201	2.79E+05	3023	0.	TAS (M/S)
22	3.31E+09	221	4.78E+05	3320	0.	121.2
24	1.87E+09	241	7.59E+04	3617	0.	
26	1.74E+09	260	9.87E+04	3914	0.	NT (N/M3)
28	8.68E+08	280	1.08E+05	4211	0.	2832599.8
30	1.71E+09	300	6.78E+04	4508	0.	
						TOTALS
LWC	3.51E-01		7.81E-01		3.88E-02	8.19E-01
MED D	20		115		406	122

SAMPLE: 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:28:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	1.59E+09	23	1.18E+08	484	3.87E+03	ALT (KM)
4	4.57E+09	43	7.50E+07	647	1.67E+01	4.854
6	1.23E+10	62	3.50E+07	944	0.	
8	1.58E+10	82	1.53E+07	1241	0.	TEMP (C)
10	1.30E+10	102	8.14E+06	1538	0.	-12.9
12	8.53E+09	122	3.73E+06	1835	0.	
14	7.60E+09	142	2.14E+06	2132	0.	FROSTPOINT
16	5.28E+09	161	1.13E+06	2429	0.	-20.6
18	5.27E+09	181	7.39E+05	2726	0.	
20	2.96E+09	201	4.33E+05	3023	0.	TAS (M/S)
22	2.37E+09	221	3.17E+05	3320	0.	121.4
24	1.54E+09	241	1.14E+05	3617	0.	
26	1.06E+09	260	8.32E+04	3914	0.	NT (N/M3)
28	6.33E+08	280	6.19E+04	4211	0.	2853117.7
30	1.02E+09	300	3.32E+04	4508	0.	
						TOTALS
LWC	2.64E-01		7.08E-01		2.62E-02	7.24E-01
MED D	19		112		407	115

SAMPLE# 4

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:20:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 559.7
2	9.72E+08	23	9.52E+07	404	1.42E+04	ALT (KM)
4	3.81E+09	43	6.28E+07	647	0.	4.853
6	8.71E+09	62	3.16E+07	944	0.	
8	1.09E+10	82	1.68E+07	1241	0.	TEMP (C)
10	8.18E+09	102	7.23E+06	1538	0.	-12.9
12	6.59E+09	122	3.77E+06	1835	0.	
14	5.31E+09	142	1.85E+06	2132	0.	FROSTPOINT
16	3.62E+09	161	9.67E+05	2429	0.	-20.5
18	3.58E+09	181	5.58E+05	2726	0.	
20	2.81E+09	201	5.27E+05	3023	0.	TAS (M/S)
22	1.62E+09	221	3.17E+05	3320	0.	121.4
24	9.65E+08	241	3.79E+04	3617	0.	
26	7.08E+08	260	3.26E+04	3914	0.	NT (N/M3)
28	3.24E+08	280	2.34E+04	4211	0.	2468922.8
30	6.10E+08	300	2.54E+04	4508	0.	
						TOTALS
LWC	1.72E-01		5.24E-01		9.34E-02	7.17E-01
MED D	19		111		404	124

SAMPLE# 4

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:20:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.6
2	2.33E+08	23	8.52E+07	404	2.46E+04	ALT (KM)
4	8.79E+08	43	6.44E+07	647	0.	4.854
6	2.58E+09	62	2.80E+07	944	1.75E+01	
8	3.17E+09	82	1.41E+07	1241	0.	TEMP (C)
10	2.62E+09	102	8.30E+06	1538	0.	-12.7
12	1.56E+09	122	3.40E+06	1835	0.	
14	1.65E+09	142	1.94E+06	2132	0.	FROSTPOINT
16	1.19E+09	161	7.87E+05	2429	0.	-20.4
18	1.26E+09	181	6.23E+05	2726	0.	
20	6.16E+08	201	4.82E+05	3023	0.	TAS (M/S)
22	5.56E+08	221	2.72E+05	3320	0.	121.7
24	2.43E+08	241	7.56E+04	3617	0.	
26	2.25E+08	260	6.10E+04	3914	0.	NT (N/M3)
28	7.52E+07	280	4.33E+04	4211	0.	2429515.6
30	1.73E+08	300	4.41E+04	4508	0.	
						TOTALS
LWC	5.24E-02		6.21E-01		1.64E-01	7.85E-01
MED D	19		111		406	137

SAMPLE# 4

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:20:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	5.40E+08	23	7.19E+07	404	6.65E+03	ALT (KM)
4	1.94E+09	43	5.59E+07	647	1.66E+01	4.854
6	5.29E+09	62	2.54E+07	944	0.	
8	7.07E+09	82	1.35E+07	1241	0.	TEMP (C)
10	5.54E+09	102	6.32E+06	1538	0.	-12.8
12	3.74E+09	122	4.20E+06	1835	0.	
14	3.92E+09	142	2.03E+06	2132	0.	FROSTPOINT
16	2.54E+09	161	1.15E+06	2429	0.	-20.4
18	2.54E+09	181	8.20E+05	2726	0.	
20	1.37E+09	201	4.32E+05	3023	0.	TAS (M/S)
22	1.01E+09	221	2.38E+05	3320	0.	122.0
24	6.30E+08	241	2.26E+05	3617	0.	
26	3.45E+08	260	1.77E+05	3914	0.	NT (N/M3)
28	2.40E+08	280	1.38E+05	4211	0.	2263832.9
30	3.53E+08	300	8.51E+04	4508	0.	
						TOTALS
LWC	1.12E-01		7.14E-01		4.44E-02	7.58E-01
MED D	18		123		406	136

SAMPLE# 4

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:20:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	1.58E+08	23	8.53E+07	404	4.63E+03	ALT (KM)
4	3.46E+08	43	5.84E+07	647	1.67E+01	4.854
6	1.16E+09	62	2.91E+07	944	0.	
8	1.85E+09	82	1.32E+07	1241	0.	TEMP (C)
10	1.61E+09	102	7.00E+06	1538	0.	-12.6
12	1.34E+09	122	3.52E+06	1835	0.	
14	1.15E+09	142	1.40E+06	2132	0.	FROSTPOINT
16	9.11E+08	161	9.47E+05	2429	0.	-20.5
18	6.93E+08	181	7.67E+05	2726	0.	
20	4.37E+08	201	3.10E+05	3023	0.	TAS (M/S)
22	2.18E+08	221	1.86E+05	3320	0.	121.5
24	1.88E+08	241	1.51E+05	3617	0.	
26	9.79E+07	260	1.10E+05	3914	0.	NT (N/M3)
28	9.79E+07	280	7.98E+04	4211	0.	2262136.8
30	6.78E+07	300	5.07E+04	4508	0.	
						TOTALS
LWC	3.24E-02		6.04E-01		3.12E-02	6.35E-01
MED D	18		116		407	128

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0#28#31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	3.07E+08	23	6.31E+07	404	4.47E+04	ALT (KM)
4	1.22E+09	43	5.32E+07	647	0.	4.854
6	2.93E+09	62	2.48E+07	944	0.	
8	4.09E+09	82	1.22E+07	1241	0.	TEMP (C)
10	3.32E+09	102	5.93E+06	1538	0.	-12.6
12	2.34E+09	122	3.82E+06	1835	0.	
14	2.16E+09	142	1.40E+06	2132	0.	FROSTPOINT
16	1.78E+09	161	7.36E+05	2429	0.	-28.6
18	1.61E+09	181	4.52E+05	2726	0.	
20	9.66E+08	201	4.80E+05	3023	0.	TAS (M/S)
22	6.96E+08	221	1.59E+05	3320	0.	122.2
24	3.14E+08	241	1.31E+05	3617	0.	
26	2.17E+08	260	1.16E+05	3914	0.	NT (N/M3)
28	1.65E+08	280	8.34E+04	4211	0.	2042572.7
30	1.87E+08	300	8.30E+04	4508	0.	
						TOTALS
LWC	6.94E-02		5.53E-01		2.94E-01	8.47E-01
MED D	18		119		404	197

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0#28#29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	3.07E+08	23	6.42E+07	404	2.22E+04	ALT (KM)
4	8.92E+08	43	5.42E+07	647	0.	4.853
6	2.76E+09	62	2.37E+07	944	0.	
8	3.53E+09	82	1.20E+07	1241	0.	TEMP (C)
10	3.00E+09	102	5.98E+06	1538	0.	-12.5
12	2.10E+09	122	2.56E+06	1835	0.	
14	1.66E+09	142	1.40E+06	2132	0.	FROSTPOINT
16	1.44E+09	161	7.33E+05	2429	0.	-28.5
18	1.32E+09	181	4.24E+05	2726	0.	
20	8.24E+08	201	3.70E+05	3023	0.	TAS (M/S)
22	4.87E+08	221	1.02E+05	3320	0.	122.1
24	3.22E+08	241	1.31E+05	3617	0.	
26	2.10E+08	260	9.14E+04	3914	0.	NT (N/M3)
28	1.65E+08	280	4.44E+04	4211	0.	2013888.1
30	2.25E+08	300	3.98E+04	4508	0.	
						TOTALS
LWC	6.09E-02		5.07E-01		1.46E-01	6.53E-01
MED D	19		113		404	142

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0#28#32*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	6.74E+07	23	7.07E+07	404	4.81E+04	ALT (KM)
4	1.95E+08	43	4.35E+07	647	0.	4.854
6	7.19E+08	62	2.44E+07	944	0.	
8	9.51E+08	82	1.28E+07	1241	0.	TEMP (C)
10	9.44E+08	102	5.01E+06	1538	0.	-12.5
12	5.69E+08	122	3.16E+06	1835	0.	
14	5.09E+08	142	1.27E+06	2132	0.	FROSTPOINT
16	4.84E+08	161	6.28E+05	2429	0.	-28.6
18	4.12E+08	181	3.57E+05	2726	0.	
20	2.55E+08	201	3.08E+05	3023	0.	TAS (M/S)
22	1.50E+08	221	1.59E+05	3320	0.	122.2
24	1.27E+08	241	2.26E+05	3617	0.	
26	5.99E+07	260	1.47E+05	3914	0.	NT (N/M3)
28	1.50E+07	280	9.52E+04	4211	0.	1833342.8
30	4.49E+07	300	8.51E+04	4508	0.	
						TOTALS
LWC	1.72E-02		5.99E-01		3.16E-01	8.55E-01
MED D	19		122		404	226

SAMPLE# 4 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*0#28#33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	4.12E+08	23	6.20E+07	404	4.67E+04	ALT (KM)
4	1.39E+09	43	4.87E+07	647	0.	4.854
6	4.46E+09	62	2.32E+07	944	0.	
8	5.41E+09	82	1.12E+07	1241	0.	TEMP (C)
10	4.55E+09	102	5.93E+06	1538	0.	-12.6
12	3.17E+09	122	3.14E+06	1835	0.	
14	2.95E+09	142	1.55E+06	2132	0.	FROSTPOINT
16	2.12E+09	161	8.37E+05	2429	0.	-28.5
18	2.20E+09	181	2.54E+05	2726	0.	
20	1.22E+09	201	3.39E+05	3023	0.	TAS (M/S)
22	8.61E+08	221	2.71E+05	3320	0.	122.2
24	5.24E+08	241	3.76E+04	3617	0.	
26	3.22E+08	260	5.33E+04	3914	0.	NT (N/M3)
28	2.32E+08	280	9.84E+04	4211	0.	1983177.1
30	3.97E+08	300	8.37E+04	4508	0.	
						TOTALS
LWC	9.76E-02		5.21E-01		9.87E-01	8.28E-01
MED D	19		113		404	201

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:05
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.66E+08	23	2.09E+07	404	3.52E+03	ALT (KM)
4	2.64E+09	43	1.36E+07	647	1.68E+01	4.864
6	8.57E+09	62	9.39E+06	944	0.	
8	1.06E+10	82	4.79E+06	1241	0.	TEMP (C)
10	7.34E+09	102	2.42E+06	1538	0.	-11.8
12	4.90E+09	122	1.39E+06	1835	0.	
14	3.87E+09	142	3.86E+05	2132	0.	FROSTPOINT
15	2.91E+09	161	2.78E+05	2429	0.	-20.4
18	3.23E+09	181	2.57E+05	2726	0.	
20	2.01E+09	201	0.	3023	0.	TAS (M/S)
22	1.72E+09	221	1.03E+05	3320	0.	120.6
24	1.03E+09	241	3.81E+04	3617	0.	
26	5.92E+08	260	4.47E+04	3914	0.	NT (N/M3)
28	2.43E+08	280	5.24E+04	4211	0.	746972.7
30	3.57E+08	300	3.41E+04	4508	0.	
						TOTALS
LWC	1.49E-01		2.09E-01		2.38E-02	2.33E-01
MED D	19		117		407	126

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:09
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	4.54E+08	23	2.42E+07	404	2.03E+01	ALT (KM)
4	1.98E+09	43	2.23E+07	647	3.35E+01	4.866
6	5.95E+09	62	1.18E+07	944	0.	
8	5.89E+09	82	4.93E+06	1241	0.	TEMP (C)
10	3.39E+09	102	2.54E+06	1538	0.	-12.0
12	2.25E+09	122	1.42E+06	1835	0.	
14	1.86E+09	142	8.33E+05	2132	0.	FROSTPOINT
16	1.63E+09	161	3.17E+05	2429	0.	-20.5
18	1.47E+09	181	2.57E+05	2726	0.	
20	1.16E+09	201	9.35E+04	3023	0.	TAS (M/S)
22	7.43E+08	221	6.34E+04	3320	0.	121.0
24	4.75E+08	241	3.80E+04	3617	0.	
26	1.82E+08	260	0.	3914	0.	NT (N/M3)
28	1.21E+08	280	0.	4211	0.	884256.9
30	7.56E+07	300	0.	4508	0.	
						TOTALS
LWC	6.86E-02		2.14E-01		1.55E-03	2.16E-01
MED D	18		109		433	110

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:07
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	6.21E+08	23	1.76E+07	404	0.	ALT (KM)
4	2.55E+09	43	2.16E+07	647	0.	4.864
6	7.14E+09	62	1.47E+07	944	0.	
8	8.81E+09	82	5.39E+06	1241	0.	TEMP (C)
10	4.99E+09	102	3.36E+06	1538	0.	-12.0
12	3.46E+09	122	1.75E+06	1835	0.	
14	2.83E+09	142	5.35E+05	2132	0.	FROSTPOINT
16	1.93E+09	161	4.50E+05	2429	0.	-20.5
18	2.54E+09	181	2.00E+05	2726	0.	
20	1.73E+09	201	9.35E+04	3023	0.	TAS (M/S)
22	1.24E+09	221	6.36E+04	3320	0.	120.7
24	8.56E+08	241	1.14E+05	3617	0.	
26	5.61E+08	260	0.	3914	0.	NT (N/M3)
28	1.82E+08	280	0.	4211	0.	952614.9
30	2.58E+08	300	0.	4508	0.	
						TOTALS
LWC	1.15E-01		2.53E-01		0.	2.53E-01
MED D	19		110		0	110

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:03
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	4.46E+08	23	3.29E+07	404	3.72E+01	ALT (KM)
4	1.49E+09	43	1.96E+07	647	5.01E+01	4.867
6	4.52E+09	62	1.29E+07	944	0.	
8	4.88E+09	82	4.92E+06	1241	0.	TEMP (C)
10	2.63E+09	102	3.23E+06	1538	0.	-12.0
12	1.95E+09	122	1.75E+06	1835	0.	
14	1.63E+09	142	6.43E+05	2132	0.	FROSTPOINT
16	1.25E+09	161	4.22E+05	2429	0.	-20.5
18	1.17E+09	181	2.56E+05	2726	0.	
20	7.17E+08	201	9.32E+04	3023	0.	TAS (M/S)
22	5.36E+08	221	3.42E+04	3320	0.	121.2
24	4.15E+08	241	7.59E+04	3617	0.	
26	2.95E+08	260	5.32E+04	3914	0.	NT (N/M3)
28	6.83E+07	280	3.32E+04	4211	0.	873512.3
30	8.31E+07	300	2.34E+04	4508	0.	
						TOTALS
LWC	5.62E-02		2.53E-01		2.65E-02	2.80E-01
MED D	19		116		417	124

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:25:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	2.65E+08	23	1.99E+07	484	9.50E+03	ALT (KM)
4	1.85E+09	43	1.76E+07	647	0.	4.858
6	3.19E+09	62	1.18E+07	944	0.	
8	3.14E+09	82	4.14E+06	1241	0.	TEMP (C)
10	2.18E+09	102	2.36E+06	1538	0.	-11.9
12	1.28E+09	122	1.38E+06	1835	0.	
14	9.87E+08	142	9.28E+05	2132	0.	FROSTPOINT
16	1.89E+09	161	4.22E+05	2429	0.	-28.4
18	8.16E+08	181	2.56E+05	2726	0.	
20	6.35E+08	201	6.22E+04	3023	0.	TAS (M/S)
22	5.44E+08	221	1.37E+05	3320	0.	121.1
24	2.04E+08	241	0.	3617	0.	
26	9.83E+07	260	9.95E+03	3914	0.	NT (N/M3)
28	4.53E+07	280	1.99E+04	4211	0.	756171.3
30	6.85E+07	300	1.70E+04	4508	0.	
						TOTALS
LWC	3.93E-02		2.16E-01		5.24E-32	2.78E-01
MED D	18		121		484	144

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:25:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	2.64E+08	23	1.76E+07	484	1.66E+04	ALT (KM)
4	1.18E+09	43	1.76E+07	647	0.	4.859
6	3.88E+09	62	1.17E+07	944	0.	
8	3.29E+09	82	5.91E+06	1241	0.	TEMP (C)
10	2.04E+09	102	3.19E+06	1538	0.	-11.9
12	1.32E+09	122	8.94E+05	1835	0.	
14	1.13E+09	142	9.88E+05	2132	0.	FROSTPOINT
16	8.69E+08	161	3.43E+05	2429	0.	-28.4
18	9.52E+08	181	1.71E+05	2726	0.	
20	6.42E+08	201	1.24E+05	3023	0.	TAS (M/S)
22	5.67E+08	221	1.37E+05	3320	0.	121.1
24	2.87E+08	241	0.	3617	0.	
26	1.44E+08	260	1.66E+04	3914	0.	NT (N/M3)
28	6.85E+07	280	3.32E+04	4211	0.	792577.9
30	1.51E+07	300	2.38E+04	4508	0.	
						TOTALS
LWC	4.14E-02		2.26E-01		1.09E-31	3.36E-01
MED D	19		111		484	168

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:25:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	2.03E+08	23	2.31E+07	484	3.85E+03	ALT (KM)
4	1.17E+09	43	2.32E+07	647	3.35E+01	4.858
6	3.71E+09	62	1.06E+07	944	0.	
8	3.46E+09	82	5.15E+06	1241	0.	TEMP (C)
10	2.12E+09	102	2.69E+06	1538	0.	-11.8
12	1.23E+09	122	1.22E+06	1835	0.	
14	1.24E+09	142	8.34E+05	2132	0.	FROSTPOINT
16	9.31E+08	161	3.17E+05	2429	0.	-28.4
18	9.69E+08	181	2.28E+05	2726	0.	
20	5.61E+08	201	9.34E+04	3023	0.	TAS (M/S)
22	4.92E+08	221	1.03E+05	3320	0.	120.4
24	2.89E+08	241	7.31E+04	3617	0.	
26	2.12E+08	260	9.71E+04	3914	0.	NT (N/M3)
28	9.64E+07	280	4.28E+04	4211	0.	584265.9
30	1.21E+08	300	2.32E+04	4508	0.	
						TOTALS
LWC	4.57E-02		2.44E-01		2.67E-32	2.73E-01
MED D	19		123		484	174

SAMPLE: 5 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:25:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	5.23E+08	23	7.74E+07	484	7.15E+03	ALT (KM)
4	2.15E+09	43	7.46E+07	647	0.	4.866
6	7.21E+09	62	1.23E+07	944	0.	
8	6.64E+09	82	6.36E+06	1241	0.	TEMP (C)
10	3.82E+09	102	3.74E+06	1538	0.	-11.9
12	2.71E+09	122	1.95E+06	1835	0.	
14	2.15E+09	142	1.12E+06	2132	0.	FROSTPOINT
16	1.43E+09	161	3.71E+05	2429	0.	-28.4
18	1.56E+09	181	2.29E+05	2726	0.	
20	1.05E+09	201	9.36E+04	3023	0.	TAS (M/S)
22	1.01E+09	221	1.37E+05	3320	0.	120.7
24	4.79E+08	241	7.52E+04	3617	0.	
26	3.18E+08	260	3.30E+04	3914	0.	NT (N/M3)
28	1.21E+08	280	1.03E+04	4211	0.	1016787.8
30	1.67E+08	300	1.28E+04	4508	0.	
						TOTALS
LWC	7.84E-02		2.57E-01		4.78E-32	3.34E-01
MED D	19		114		484	127

SAMPLE: 5

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.98E+08	23	3.75E+07	404	2.36E+03	ALT (KM)
4	2.26E+09	43	2.53E+07	647	1.68E+01	4.866
6	6.97E+09	62	1.13E+07	944	0.	
8	7.47E+09	82	5.30E+06	1241	0.	TEMP (C)
10	4.92E+09	102	2.45E+06	1538	0.	-11.9
12	3.43E+09	122	1.27E+06	1835	0.	
14	2.45E+09	142	7.40E+05	2132	0.	FROSTPOINT
16	1.88E+09	161	3.38E+05	2429	0.	-20.4
18	2.09E+09	181	2.58E+05	2726	0.	
20	1.45E+09	201	1.88E+05	3023	0.	TAS (M/S)
22	1.06E+09	221	0.	3320	0.	120.4
24	7.14E+08	241	7.64E+04	3617	0.	
26	4.25E+08	261	4.68E+04	3914	0.	NT (N/M3)
28	1.37E+08	281	2.86E+04	4211	0.	939765.7
30	1.22E+08	300	1.32E+04	4508	0.	
						TOTALS
LWC	9.53E-02		2.44E-01		1.62E-02	2.61E-01
MED D	19		116		409	123

SAMPLE: 5

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	6.93E+08	23	2.63E+07	404	0.	ALT (KM)
4	2.34E+09	43	2.50E+07	647	0.	4.864
6	7.13E+09	62	1.52E+07	944	1.77E+01	
8	8.23E+09	82	7.88E+06	1241	0.	TEMP (C)
10	5.34E+09	102	3.10E+06	1538	0.	-12.2
12	3.49E+09	122	1.32E+06	1835	0.	
14	2.77E+09	142	5.90E+05	2132	0.	FROSTPOINT
16	1.99E+09	161	2.92E+05	2429	0.	-20.5
18	2.44E+09	181	1.15E+05	2726	0.	
20	1.64E+09	201	6.26E+04	3023	0.	TAS (M/S)
22	1.22E+09	221	1.03E+05	3320	0.	120.2
24	7.23E+08	241	3.83E+04	3617	0.	
26	3.88E+08	260	0.	3914	0.	NT (N/M3)
28	1.67E+08	280	0.	4211	0.	1050780.7
30	1.83E+08	300	0.	4508	0.	
						TOTALS
LWC	1.06E-01		2.28E-01		2.32E-03	2.31E-01
MED D	19		97		344	98

SAMPLE: 5

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.09E+08	23	2.67E+07	404	3.54E+03	ALT (KM)
4	2.39E+09	43	2.73E+07	647	5.05E+01	4.866
6	8.47E+09	62	1.51E+07	944	1.77E+01	
8	9.45E+09	82	7.98E+06	1241	0.	TEMP (C)
10	5.33E+09	102	3.76E+06	1538	0.	-12.0
12	3.12E+09	122	1.58E+06	1835	0.	
14	2.75E+09	142	9.32E+05	2132	0.	FROSTPOINT
16	2.31E+09	161	2.92E+05	2429	0.	-20.5
18	2.27E+09	181	1.72E+05	2726	0.	
20	1.63E+09	201	2.19E+05	3023	0.	TAS (M/S)
22	1.42E+09	221	0.	3320	0.	120.2
24	9.44E+08	241	7.65E+04	3617	0.	
26	3.88E+08	260	4.55E+04	3914	0.	NT (N/M3)
28	2.13E+08	280	3.17E+04	4211	0.	1137553.1
30	1.99E+08	300	2.18E+04	4508	0.	
						TOTALS
LWC	1.13E-01		2.86E-01		2.77E-02	3.14E-01
MED D	19		107		423	114

SAMPLE: 5

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:25:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.16E+08	23	2.98E+07	404	0.	ALT (KM)
4	2.53E+09	43	2.21E+07	647	0.	4.864
6	7.29E+09	62	1.20E+07	944	0.	
8	8.51E+09	82	6.27E+06	1241	0.	TEMP (C)
10	5.08E+09	102	3.76E+06	1538	0.	-12.3
12	3.40E+09	122	1.58E+06	1835	0.	
14	3.00E+09	142	7.42E+05	2132	0.	FROSTPOINT
16	2.02E+09	161	2.33E+05	2429	0.	-20.6
18	2.27E+09	181	8.62E+04	2726	0.	
20	1.67E+09	201	1.25E+05	3023	0.	TAS (M/S)
22	1.36E+09	221	3.45E+04	3320	0.	120.1
24	8.46E+08	241	3.83E+04	3617	0.	
26	4.72E+08	260	0.	3914	0.	NT (N/M3)
28	2.29E+08	280	0.	4211	0.	933256.8
30	1.52E+08	300	0.	4508	0.	
						TOTALS
LWC	1.11E-01		2.23E-01		0.	2.23E-01
MED D	19		102		0	102

SAMPLE: 5

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:25:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	5.79E+08	23	2.54E+07	404	3.74E+03	ALT (KM)
4	2.28E+09	43	2.56E+07	647	1.68E+01	4.864
6	6.85E+09	62	1.17E+07	944	1.77E+01	
8	7.33E+09	82	6.75E+06	1241	0.	TEMP (C)
10	4.46E+09	102	3.04E+06	1538	0.	-12.3
12	3.05E+09	122	1.88E+06	1835	0.	
14	2.03E+09	142	7.74E+05	2132	0.	FROSTPOINT
16	1.44E+09	161	4.52E+05	2429	0.	-20.7
18	1.91E+09	181	2.37E+05	2726	0.	
20	1.18E+09	201	1.58E+05	3023	0.	TAS (M/S)
22	1.04E+09	221	0.	3320	0.	120.1
24	5.85E+08	241	3.83E+04	3617	0.	
26	3.27E+08	260	4.69E+04	3914	0.	NT (N/M3)
28	1.14E+08	281	5.74E+04	4211	0.	987345.8
30	1.61E+08	300	3.72E+04	4508	0.	
						TOTALS
LWC	8.56E-02		2.77E-01		2.76E-02	3.04E-01
MED D	19		119		416	126

SAMPLE: 5

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:25:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	2.97E+08	23	1.55E+07	404	0.	ALT (KM)
4	9.36E+08	43	1.48E+07	647	0.	4.867
6	3.26E+09	62	9.18E+06	944	0.	
8	3.66E+09	82	4.14E+06	1241	0.	TEMP (C)
10	2.14E+09	102	2.54E+06	1538	0.	-12.1
12	1.53E+09	122	1.15E+06	1835	0.	
14	1.25E+09	142	5.30E+05	2132	0.	FROSTPOINT
16	1.05E+09	161	3.31E+05	2429	0.	-21.8
18	1.08E+09	181	2.47E+05	2726	0.	
20	6.16E+08	201	1.25E+05	3023	0.	TAS (M/S)
22	4.34E+08	221	6.88E+04	3320	0.	120.1
24	2.66E+08	241	3.82E+04	3617	0.	
26	2.36E+08	260	0.	3914	0.	NT (N/M3)
28	7.61E+07	280	0.	4211	0.	643022.6
30	7.61E+07	300	0.	4508	0.	
						TOTALS
LWC	4.52E-02		1.93E-01		0.	1.93E-01
MED D	19		119		0	119

SAMPLE: 5

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:25:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 18 GPM DISTANCE: 200 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	5.02E+08	23	1.44E+07	404	7.17E+03	ALT (KM)
4	1.77E+09	43	1.83E+07	647	0.	4.867
6	5.25E+09	62	1.19E+07	944	0.	
8	6.35E+09	82	4.86E+06	1241	0.	TEMP (C)
10	3.44E+09	102	2.32E+06	1538	0.	-12.2
12	2.03E+09	122	1.35E+06	1835	0.	
14	1.90E+09	142	4.19E+05	2132	0.	FROSTPOINT
16	1.23E+09	161	3.72E+05	2429	0.	-20.6
18	1.42E+09	181	2.87E+05	2726	0.	
20	1.32E+09	201	1.25E+05	3023	0.	TAS (M/S)
22	6.47E+08	221	1.03E+05	3320	0.	120.2
24	4.87E+08	241	7.65E+04	3617	0.	
26	1.67E+08	260	3.31E+04	3914	0.	NT (N/M3)
28	1.07E+08	280	1.47E+04	4211	0.	779895.6
30	5.31E+07	300	1.28E+04	4508	0.	
						TOTALS
LWC	6.28E-02		2.29E-01		4.72E-02	2.67E-01
MED D	18		119		404	143

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:26:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	3.99E+08	23	4.42E+07	404	1.67E+04	ALT (KM)
4	8.33E+08	43	3.05E+07	647	0.	4.861
6	3.58E+09	62	1.71E+07	944	0.	
8	4.93E+09	82	9.92E+06	1241	0.	TEMP (C)
10	3.37E+09	102	4.15E+06	1538	0.	-11.2
12	2.19E+09	122	2.50E+06	1835	0.	
14	2.00E+09	142	1.33E+06	2132	0.	FROSTPOINT
16	1.64E+09	161	5.85E+05	2429	0.	-22.2
18	1.64E+09	181	3.73E+05	2726	0.	
20	1.01E+09	201	2.57E+05	3023	0.	TAS (M/S)
22	7.91E+08	221	1.83E+05	3320	0.	120.2
24	5.63E+08	241	3.83E+04	3617	0.	
26	3.75E+08	260	3.38E+04	3914	0.	NT (N/M3)
28	1.23E+08	281	3.35E+04	4211	0.	1328192.4
30	1.83E+08	300	3.08E+04	4508	0.	
						TOTALS
LWC	7.52E-02		3.76E-01		1.18E-01	4.86E-01
MED D	19		115		404	179

SAMPLE# 6 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:26:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.68E+08	23	3.00E+07	404	1.65E+04	ALT (KM)
4	6.19E+08	43	2.31E+07	647	0.	4.851
6	1.65E+09	62	8.84E+06	944	0.	
8	2.38E+09	82	5.47E+05	1241	1.	TEMP (C)
10	1.77E+09	102	1.94E+06	1538	0.	-11.3
12	1.34E+09	122	1.50E+06	1835	0.	
14	1.09E+09	142	5.18E+05	2132	0.	FROSTPOINT
16	8.17E+08	161	2.14E+05	2429	0.	-22.2
18	8.18E+08	181	8.65E+04	2726	0.	
20	4.74E+08	201	9.43E+04	3023	0.	TAS (M/S)
22	3.75E+08	221	1.38E+05	3320	0.	119.7
24	2.81E+08	241	0.	3617	0.	
26	1.53E+08	261	1.65E+04	3914	0.	NT (N/M3)
28	6.69E+07	281	3.23E+04	4211	0.	826789.7
30	9.94E+07	301	2.95E+04	4508	0.	
						TOTALS
LWC	3.79E-02		2.07E-01		1.33E-01	3.10E-01
MED D	19		113		404	175

SAMPLE# 6 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:26:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	2.67E+08	23	5.46E+07	404	3.31E+03	ALT (KM)
4	5.52E+08	43	3.90E+07	647	1.70E+01	4.860
6	1.86E+09	62	1.62E+07	944	0.	
8	2.55E+09	82	9.18E+06	1241	0.	TEMP (C)
10	1.82E+09	102	5.29E+06	1538	0.	-11.3
12	1.31E+09	122	2.68E+06	1835	0.	
14	1.16E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	9.17E+08	161	5.89E+05	2429	0.	-22.3
18	9.21E+08	181	2.68E+05	2726	0.	
20	6.67E+08	201	1.99E+05	3023	0.	TAS (M/S)
22	6.21E+08	221	6.94E+04	3320	0.	119.3
24	2.69E+08	241	3.56E+04	3617	0.	
26	1.61E+08	261	4.28E+04	3914	0.	NT (N/M3)
28	3.84E+07	281	4.75E+04	4211	0.	1482041.5
30	3.84E+07	300	3.11E+04	4508	0.	
						TOTALS
LWC	4.13E-02		3.82E-01		2.25E-12	4.05E-01
MED D	19		111		408	115

SAMPLE# 6 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*02:26:44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	1.45E+08	23	3.89E+07	404	1.50E+03	ALT (KM)
4	4.13E+08	43	2.24E+07	647	1.69E+01	4.860
6	1.75E+09	62	1.39E+07	944	0.	
8	2.33E+09	82	1.22E+07	1241	0.	TEMP (C)
10	1.51E+09	102	4.11E+06	1538	0.	-11.3
12	1.30E+09	122	2.34E+06	1835	0.	
14	1.09E+09	142	1.10E+06	2132	0.	FROSTPOINT
16	7.95E+08	161	4.34E+05	2429	0.	-22.3
18	8.87E+08	181	2.88E+05	2726	0.	
20	4.97E+08	201	1.26E+05	3023	0.	TAS (M/S)
22	3.52E+08	221	3.46E+04	3320	0.	119.7
24	1.83E+08	241	7.59E+04	3617	0.	
26	8.41E+07	260	3.33E+04	3914	0.	NT (N/M3)
28	2.29E+07	280	1.44E+04	4211	0.	1428249.4
30	3.06E+07	300	1.30E+04	4508	0.	
						TOTALS
LWC	3.21E-02		3.52E-01		1.05E-02	3.63E-01
MED D	18		102		411	104

SAMPLE# 6 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:26:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	3.84E+08	23	4.31E+07	404	6.27E+13	ALT (KM)
4	1.14E+09	43	3.36E+07	647	3.43E+01	4.861
6	3.65E+09	62	1.34E+07	944	0.	
8	5.18E+09	82	9.76E+06	1241	0.	TEMP (C)
10	3.03E+09	102	6.08E+06	1538	0.	-11.4
12	2.34E+09	122	2.85E+06	1835	0.	
14	2.12E+09	142	1.43E+06	2132	0.	FROSTPOINT
16	1.28E+09	161	7.24E+05	2429	0.	-22.3
18	1.67E+09	181	6.08E+05	2726	0.	
20	9.31E+08	201	2.53E+05	3023	0.	TAS (M/S)
22	8.14E+08	221	1.39E+05	3320	0.	119.1
24	5.45E+08	241	3.86E+04	3617	0.	
26	2.61E+08	260	5.86E+04	3914	0.	NT (N/M3)
28	9.99E+07	280	8.30E+04	4211	0.	1688359.4
30	1.54E+08	300	5.83E+04	4508	0.	
						TOTALS
LWC	7.07E-02		4.73E-01		4.27E-02	5.15E-01
MED D	19		120		408	127

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	3.85E+08	23	7.39E+07	404	4.12E+04	ALT (KM)
4	1.31E+09	43	5.33E+07	647	0.	4.860
6	4.18E+09	62	2.58E+07	944	0.	
8	5.34E+09	82	1.28E+07	1241	0.	TEMP (C)
10	3.90E+09	102	7.16E+06	1538	0.	-11.5
12	2.57E+09	122	4.02E+06	1835	0.	
14	1.99E+09	142	1.73E+06	2132	0.	FROSTPOINT
16	1.66E+09	161	9.42E+05	2429	0.	-22.3
18	1.62E+09	181	2.91E+05	2726	0.	
20	1.29E+09	201	1.30E+05	3023	0.	TAS (M/S)
22	1.02E+09	221	1.74E+05	3320	0.	118.7
24	5.52E+08	241	3.10E+05	3617	0.	
26	3.85E+08	260	1.50E+05	3914	0.	NT (N/M3)
28	6.93E+07	280	3.23E+04	4211	0.	2139007.6
30	1.77E+08	300	7.37E+04	4508	0.	
						TOTALS
LWC	8.12E-02		6.15E-01		2.71E-01	8.85E-01
MED D	19		120		404	169

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:48
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	5.24E+08	23	6.38E+07	404	3.15E+04	ALT (KM)
4	1.73E+09	43	4.60E+07	647	0.	4.859
6	5.35E+09	62	2.42E+07	944	0.	
8	6.93E+09	82	1.28E+07	1241	0.	TEMP (C)
10	4.96E+09	102	5.77E+06	1538	0.	-11.6
12	3.05E+09	122	2.34E+06	1835	0.	
14	3.24E+09	142	1.93E+06	2132	0.	FROSTPOINT
16	1.93E+09	161	8.51E+05	2429	0.	-22.3
18	2.27E+09	181	3.78E+05	2726	0.	
20	1.43E+09	201	1.27E+05	3023	0.	TAS (M/S)
22	1.26E+09	221	1.15E+05	3320	0.	118.7
24	8.71E+08	241	7.73E+04	3617	0.	
26	4.71E+08	260	6.39E+04	3914	0.	NT (N/M3)
28	2.89E+08	280	6.31E+04	4211	0.	1931873.2
30	2.62E+08	300	5.54E+04	4508	0.	
						TOTALS
LWC	1.09E-01		5.01E-01		2.07E-01	7.67E-01
MED D	20		112		404	149

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	5.16E+08	23	7.28E+07	404	2.65E+03	ALT (KM)
4	1.30E+09	43	5.04E+07	647	1.71E+01	4.860
6	4.13E+09	62	2.47E+07	944	0.	
8	5.76E+09	82	1.21E+07	1241	1.89E+01	TEMP (C)
10	3.91E+09	102	6.55E+06	1538	0.	-11.6
12	2.74E+09	122	2.36E+06	1835	0.	
14	2.23E+09	142	1.60E+06	2132	0.	FROSTPOINT
16	1.67E+09	161	6.73E+05	2429	0.	-22.3
18	2.06E+09	181	3.78E+05	2726	0.	
20	1.29E+09	201	2.54E+05	3023	0.	TAS (M/S)
22	1.09E+09	221	1.40E+05	3320	0.	118.7
24	5.94E+08	241	1.94E+05	3617	0.	
26	3.85E+08	260	8.11E+04	3914	0.	NT (N/M3)
28	1.31E+08	280	3.39E+04	4211	0.	1911046.0
30	2.16E+08	300	2.26E+04	4508	0.	
						TOTALS
LWC	8.89E-02		4.93E-01		2.38E-02	5.17E-01
MED D	19		110		439	115

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:50
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	3.25E+08	23	5.40E+07	404	3.27E+04	ALT (KM)
4	1.32E+09	43	4.32E+07	647	0.	4.861
6	4.14E+09	62	2.18E+07	944	1.80E+01	
8	5.32E+09	82	1.16E+07	1241	0.	TEMP (C)
10	3.67E+09	102	5.34E+06	1538	0.	-11.6
12	2.65E+09	122	3.16E+06	1835	0.	
14	2.11E+09	142	1.34E+06	2132	0.	FROSTPOINT
16	1.68E+09	161	9.65E+05	2429	0.	-22.3
18	1.84E+09	181	4.67E+05	2726	0.	
20	1.03E+09	201	6.37E+04	3023	0.	TAS (M/S)
22	9.13E+08	221	7.10E+04	3320	0.	118.2
24	6.35E+08	241	3.89E+04	3617	0.	
26	3.33E+08	260	5.04E+04	3914	0.	NT (N/M3)
28	1.47E+08	280	6.53E+04	4211	0.	1750943.6
30	1.73E+08	300	5.85E+04	4508	0.	
						TOTALS
LWC	8.21E-02		4.36E-01		2.17E-01	6.73E-01
MED D	19		112		406	156

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	5.72E+08	23	6.29E+07	404	4.21E+03	ALT (KM)
4	2.12E+09	43	4.51E+07	647	3.42E+01	4.861
6	5.37E+09	62	2.55E+07	944	0.	
8	8.02E+09	82	1.46E+07	1241	0.	TEMP (C)
10	5.35E+09	102	7.41E+06	1538	0.	-11.6
12	3.47E+09	122	3.41E+06	1835	0.	
14	3.05E+09	142	1.21E+06	2132	0.	FROSTPOINT
16	2.23E+09	161	1.11E+06	2429	0.	-22.3
18	2.53E+09	181	3.79E+05	2726	0.	
20	1.73E+09	201	4.77E+05	3023	0.	TAS (M/S)
22	1.49E+09	221	1.75E+05	3320	0.	118.3
24	9.37E+08	241	3.89E+04	3617	0.	
26	5.83E+08	261	4.35E+04	3914	0.	NT (N/M3)
28	2.47E+08	281	4.86E+04	4211	0.	1389057.3
30	3.79E+08	300	3.25E+04	4508	0.	
						TOTALS
LWC	1.26E-01		5.49E-01		2.91E-12	5.78E-01
MED D	20		114		409	114

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	7.51E+08	23	5.62E+07	404	4.76E+03	ALT (KM)
4	1.97E+09	43	5.12E+07	647	3.42E+01	4.861
6	5.77E+09	62	2.25E+07	944	0.	
8	8.26E+09	82	1.22E+07	1241	0.	TEMP (C)
10	5.86E+09	102	6.24E+06	1538	0.	-11.8
12	3.82E+09	122	3.41E+06	1835	0.	
14	3.41E+09	142	1.64E+06	2132	0.	FROSTPOINT
16	2.45E+09	161	6.49E+05	2429	0.	-22.4
18	2.33E+09	181	7.30E+05	2726	0.	
20	1.75E+09	201	2.87E+05	3023	0.	TAS (M/S)
22	1.63E+09	221	1.35E+05	3320	0.	118.2
24	9.83E+08	241	3.89E+04	3617	0.	
26	6.04E+08	260	4.77E+04	3914	0.	NT (N/M3)
28	2.02E+08	280	5.84E+04	4211	0.	1962436.8
30	3.25E+08	300	3.91E+04	4508	0.	
						TOTALS
LWC	1.23E-01		5.13E-01		3.27E-12	5.45E-01
MED D	20		114		409	119

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	6.81E+08	23	6.41E+07	404	0.	ALT (KM)
4	2.35E+09	43	4.29E+07	647	0.	4.863
6	7.03E+09	62	2.47E+07	944	0.	
8	8.52E+09	82	1.46E+07	1241	0.	TEMP (C)
10	5.46E+09	102	6.36E+06	1538	0.	-11.7
12	3.81E+09	122	3.52E+06	1835	0.	
14	2.91E+09	142	1.57E+06	2132	0.	FROSTPOINT
16	2.12E+09	161	6.76E+05	2429	0.	-22.4
18	2.53E+09	181	4.96E+05	2726	0.	
20	1.67E+09	201	4.14E+05	3023	0.	TAS (M/S)
22	1.47E+09	221	1.40E+05	3320	0.	118.2
24	8.21E+08	241	3.89E+04	3617	0.	
26	5.26E+08	260	0.	3914	0.	NT (N/M3)
28	2.55E+08	281	0.	4211	0.	1384289.8
30	2.86E+08	300	0.	4508	0.	
						TOTALS
LWC	1.20E-01		5.07E-01		0.	5.07E-01
MED D	20		107		0	107

SAMPLE: 6

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:26:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	4.64E+08	23	5.60E+07	404	4.20E+14	ALT (KM)
4	1.35E+09	43	3.52E+07	647	0.	4.864
6	4.52E+09	62	1.87E+07	944	0.	
8	5.20E+09	82	1.31E+07	1241	0.	TEMP (C)
10	3.75E+09	102	4.78E+06	1538	0.	-11.8
12	2.34E+09	122	3.14E+06	1835	0.	
14	1.95E+09	142	1.64E+06	2132	0.	FROSTPOINT
16	1.29E+09	161	7.12E+05	2429	0.	-22.4
18	1.57E+09	181	2.92E+05	2726	0.	
20	1.14E+09	201	1.31E+05	3023	0.	TAS (M/S)
22	9.13E+08	221	1.40E+05	3320	0.	118.2
24	5.96E+08	241	3.89E+04	3617	0.	
26	3.10E+08	260	5.72E+04	3914	0.	NT (N/M3)
28	1.70E+08	280	8.41E+04	4211	0.	1493933.2
30	1.55E+08	300	7.53E+04	4508	0.	
						TOTALS
LWC	7.69E-02		4.42E-01		2.76E-11	7.19E-01
MED D	20		123		404	198

SAMPLE: 6 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:26:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 550.0
2	3.55E+08	23	7.70E+07	404	1.46E+04	ALT (KM)
4	1.34E+09	43	4.20E+07	647	0.	4.863
6	3.86E+09	62	1.90E+07	944	0.	
8	5.07E+09	82	1.14E+07	1241	0.	TEMP (C)
10	3.16E+09	102	5.78E+06	1538	0.	-11.7
12	2.23E+09	122	2.79E+06	1835	0.	
14	1.62E+09	142	1.31E+06	2132	0.	FROSTPOINT
15	1.55E+09	161	9.18E+05	2429	0.	-22.4
18	1.76E+09	181	4.37E+05	2726	0.	
20	1.20E+09	201	1.91E+05	3023	0.	TAS (M/S)
22	7.73E+08	221	1.44E+05	3320	0.	118.4
24	6.11E+08	241	3.93E+04	3617	0.	
26	2.94E+08	260	3.36E+04	3914	0.	NT (N/M3)
28	1.93E+08	280	2.31E+04	4211	0.	1666427.4
30	1.15E+08	300	2.51E+04	4508	0.	
						TOTALS
LWC	7.54E-02		4.38E-01		3.53E-02	5.34E-01
MED D	19		111		404	129

SAMPLE: 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:28:53*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 32 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 550.5
2	1.92E+09	23	8.18E+07	404	7.22E+03	ALT (KM)
4	5.83E+09	43	4.36E+07	647	6.56E+01	4.856
6	1.45E+10	62	2.74E+07	944	0.	
8	2.17E+10	82	1.36E+07	1241	0.	TEMP (C)
10	2.02E+10	102	5.98E+06	1538	0.	-11.2
12	1.34E+10	122	4.17E+06	1835	0.	
14	1.07E+10	142	2.65E+06	2132	0.	FROSTPOINT
16	5.79E+09	161	7.25E+05	2429	0.	-21.4
18	6.37E+09	181	6.71E+05	2726	0.	
20	3.48E+09	201	2.74E+05	3023	0.	TAS (M/S)
22	3.76E+09	221	2.11E+05	3320	0.	123.4
24	2.42E+09	241	1.36E+05	3617	0.	
25	2.12E+09	260	1.21E+05	3914	0.	NT (N/M3)
28	1.07E+09	280	7.92E+04	4211	0.	2087969.5
30	1.96E+09	300	5.41E+04	4508	0.	
						TOTALS
LWC	3.83E-01		6.23E-01		5.02E-02	6.73E-01
MED D	21		123		419	129

SAMPLE: 6 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:26:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 549.9
2	4.63E+08	23	4.71E+07	404	1.79E+04	ALT (KM)
4	1.59E+09	43	3.72E+07	647	0.	4.864
5	4.25E+09	62	2.14E+07	944	1.79E+01	
8	4.92E+09	82	9.65E+06	1241	0.	TEMP (C)
10	3.32E+09	102	4.49E+06	1538	0.	-11.6
12	2.13E+09	122	1.93E+06	1835	0.	
14	1.88E+09	142	1.34E+06	2132	0.	FROSTPOINT
16	1.63E+09	161	7.39E+05	2429	0.	-22.4
18	1.74E+09	181	4.37E+05	2726	0.	
20	9.81E+08	201	2.22E+05	3023	0.	TAS (M/S)
22	8.81E+08	221	3.54E+05	3320	0.	118.5
24	6.64E+08	241	1.94E+05	3617	0.	
26	3.55E+08	263	8.12E+04	3914	0.	NT (N/M3)
28	1.83E+08	280	3.40E+04	4211	0.	1531794.1
30	1.88E+08	300	3.34E+04	4508	0.	
						TOTALS
LWC	7.53E-02		4.38E-01		1.14E-01	5.73E-01
MED D	19		123		406	158

SAMPLE: 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:29:00*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 32 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 550.4
2	1.66E+09	23	1.10E+08	404	8.56E+03	ALT (KM)
4	5.65E+09	43	6.18E+07	647	3.29E+01	4.857
6	1.44E+10	62	3.74E+07	944	1.73E+01	
8	2.29E+10	82	1.34E+07	1241	0.	TEMP (C)
10	2.19E+10	102	1.19E+07	1538	0.	-11.6
12	1.42E+10	122	5.79E+06	1835	0.	
14	1.22E+10	142	2.83E+06	2132	0.	FROSTPOINT
16	6.20E+09	161	1.45E+06	2429	0.	-21.4
18	5.91E+09	181	7.28E+05	2726	0.	
20	3.17E+09	201	3.36E+05	3023	0.	TAS (M/S)
22	3.34E+09	221	3.70E+05	3320	0.	123.2
24	2.21E+09	241	7.47E+04	3617	0.	
26	2.27E+09	260	1.04E+05	3914	0.	NT (N/M3)
28	1.17E+09	280	1.45E+05	4211	0.	3221181.8
30	2.29E+09	300	9.22E+04	4508	0.	
						TOTALS
LWC	4.08E-01		8.34E-01		5.99E-02	9.54E-01
MED D	21		115		411	121

SAMPLE: 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:29:01*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 32 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	1.64E+09	23	1.13E+08	404	6.15E+14	ALT (KM)
4	5.68E+09	43	8.18E+07	647	0.	4.860
6	1.43E+10	62	4.12E+07	944	0.	
8	2.27E+10	82	2.35E+07	1241	0.	TEMP (C)
10	2.16E+10	102	1.37E+07	1538	0.	-11.8
12	1.39E+10	122	6.77E+06	1835	0.	
14	1.12E+10	142	3.23E+06	2132	0.	FROSTPOINT
16	5.69E+09	161	1.34E+06	2429	0.	-21.5
18	5.77E+09	181	9.77E+05	2726	0.	
20	3.04E+09	201	6.70E+05	3023	0.	TAS (M/S)
22	3.01E+09	221	2.58E+05	3320	0.	123.5
24	1.87E+09	241	2.61E+05	3617	0.	
26	1.85E+09	260	1.79E+05	3914	0.	NT (N/M3)
28	1.09E+09	280	1.23E+05	4211	0.	3459946.0
30	1.87E+09	300	1.10E+05	4508	0.	
						TOTALS
LWC	3.61E-01		1.04E+00		4.94E-01	1.45E+00
MED D	20		118		404	157

SAMPLE: 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:29:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 32 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.69E+09	23	1.25E+08	404	7.50E+13	ALT (KM)
4	6.47E+09	43	7.58E+07	647	3.28E+01	4.861
6	1.51E+10	62	4.97E+07	944	0.	
8	1.86E+10	82	2.39E+07	1241	0.	TEMP (C)
10	1.45E+10	102	1.29E+07	1538	0.	-11.8
12	8.44E+09	122	7.87E+06	1835	0.	
14	7.60E+09	142	3.65E+06	2132	0.	FROSTPOINT
16	3.74E+09	161	1.40E+06	2429	0.	-21.4
18	4.09E+09	181	1.11E+06	2726	0.	
20	2.43E+09	201	8.24E+05	3023	0.	TAS (M/S)
22	2.26E+09	221	7.05E+05	3320	0.	123.3
24	1.43E+09	241	3.86E+05	3617	0.	
26	1.19E+09	260	2.00E+05	3914	0.	NT (N/M3)
28	6.24E+08	280	1.19E+05	4211	0.	3535538.8
30	9.65E+08	300	7.64E+04	4508	0.	
						TOTALS
LWC	2.42E-01		1.16E+00		5.07E-02	1.21E+00
MED D	20		123		407	127

SAMPLE: 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:29:02*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 32 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.09E+09	23	1.35E+08	404	7.55E+13	ALT (KM)
4	6.05E+09	43	8.61E+07	647	1.64E+01	4.861
6	1.52E+10	62	4.56E+07	944	0.	
8	2.02E+10	82	2.14E+07	1241	0.	TEMP (C)
10	1.52E+10	102	1.23E+07	1538	0.	-11.9
12	9.55E+09	122	6.18E+06	1835	0.	
14	7.97E+09	142	3.73E+06	2132	0.	FROSTPOINT
16	4.14E+09	161	1.58E+06	2429	0.	-21.5
18	4.25E+09	181	7.82E+05	2726	0.	
20	2.58E+09	201	4.87E+05	3023	0.	TAS (M/S)
22	2.27E+09	221	4.59E+05	3320	0.	123.5
24	1.53E+09	241	1.12E+05	3617	0.	
26	1.52E+09	260	1.38E+05	3914	0.	NT (N/M3)
28	7.84E+08	280	1.72E+05	4211	0.	3508816.5
30	1.18E+09	300	1.14E+05	4508	0.	
						TOTALS
LWC	2.68E-01		1.12E+00		5.10E-02	1.47E+00
MED D	20		120		406	124

SAMPLE: 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: *00:29:04*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 32 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.96E+09	23	1.38E+08	404	1.18E+14	ALT (KM)
4	6.59E+09	43	9.44E+07	647	8.23E+01	4.861
6	1.63E+10	62	4.53E+07	944	0.	
8	2.21E+10	82	2.52E+07	1241	0.	TEMP (C)
10	1.74E+10	102	1.22E+07	1538	0.	-11.7
12	9.97E+09	122	6.84E+06	1835	0.	
14	8.59E+09	142	4.25E+06	2132	0.	FROSTPOINT
16	4.51E+09	161	1.35E+06	2429	0.	-21.3
18	4.37E+09	181	1.15E+06	2726	0.	
20	2.74E+09	201	3.67E+05	3823	0.	TAS (M/S)
22	2.55E+09	221	6.39E+05	3320	0.	123.0
24	1.68E+09	241	3.74E+05	3617	0.	
26	1.65E+09	260	2.36E+05	3914	0.	NT (N/M3)
28	8.85E+08	280	1.69E+05	4211	0.	3833391.2
30	1.53E+09	300	9.94E+04	4508	0.	
						TOTALS
LWC	2.99E-01		1.15E+00		8.12E-02	1.53E+00
MED D	20		123		409	130

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:29:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.72E+09	23	1.32E+08	404	1.11E+14	ALT (KM)
4	6.15E+09	43	7.50E+07	647	6.53E+01	4.861
6	1.53E+10	62	4.32E+07	944	0.	
8	2.26E+10	82	2.20E+07	1241	0.	TEMP (C)
10	1.97E+10	102	1.09E+07	1538	0.	-11.8
12	1.22E+10	122	6.15E+06	1835	0.	
14	1.03E+10	142	3.33E+06	2132	0.	FROSTPOINT
16	4.85E+09	161	1.72E+06	2429	0.	-21.2
18	4.97E+09	181	8.38E+05	2726	0.	
20	2.91E+09	201	4.31E+05	3023	0.	TAS (M/S)
22	3.12E+09	221	4.38E+05	3320	0.	122.9
24	1.80E+09	241	2.25E+05	3617	0.	
26	1.72E+09	260	1.32E+05	3914	0.	NT (N/M3)
28	9.83E+08	280	1.48E+05	4211	0.	3255889.0
30	1.65E+09	300	9.79E+04	4508	0.	
						TOTALS
LWC	3.33E-01		9.79E-01		7.48E-12	1.05E+00
MED D	20		121		404	129

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:29:07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.85E+09	23	9.31E+07	404	7.29E+03	ALT (KM)
4	5.73E+09	43	7.63E+07	647	1.65E+01	4.863
6	1.34E+10	62	3.58E+07	944	0.	
8	1.68E+10	82	2.00E+07	1241	0.	TEMP (C)
10	1.21E+10	102	1.18E+07	1538	0.	-11.7
12	6.92E+09	122	5.65E+06	1835	0.	
14	5.56E+09	142	3.16E+06	2132	0.	FROSTPOINT
16	2.81E+09	161	1.77E+06	2429	0.	-20.9
18	2.93E+09	181	1.12E+06	2726	0.	
20	2.21E+09	201	3.87E+05	3023	0.	TAS (M/S)
22	1.81E+09	221	2.36E+05	3320	0.	122.8
24	1.10E+09	241	1.75E+05	3617	0.	
26	1.07E+09	260	2.44E+05	3914	0.	NT (N/M3)
28	6.11E+08	280	1.59E+05	4211	0.	3111573.1
30	9.94E+08	300	9.74E+04	4508	0.	
						TOTALS
LWC	2.02E-01		9.87E-01		4.86E-12	1.04E+00
MED D	20		126		406	130

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:29:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.61E+09	23	1.29E+08	404	6.38E+13	ALT (KM)
4	6.30E+09	43	9.14E+07	647	1.65E+01	4.861
6	1.53E+10	62	4.33E+07	944	0.	
8	2.11E+10	82	2.15E+07	1241	0.	TEMP (C)
10	1.87E+10	102	1.26E+07	1538	0.	-11.8
12	1.18E+10	122	6.51E+06	1835	0.	
14	9.28E+09	142	3.56E+06	2132	0.	FROSTPOINT
16	4.58E+09	161	1.87E+06	2429	0.	-21.1
18	4.53E+09	181	1.21E+06	2726	0.	
20	2.79E+09	201	6.73E+05	3023	0.	TAS (M/S)
22	2.69E+09	221	5.39E+05	3320	0.	123.0
24	1.79E+09	241	1.56E+05	3617	0.	
26	1.73E+09	260	1.40E+05	3914	0.	NT (N/M3)
28	7.29E+08	280	1.36E+05	4211	0.	3449228.5
30	1.47E+09	300	8.45E+04	4508	0.	
						TOTALS
LWC	3.85E-01		1.07E+00		4.27E-02	1.12E+00
MED D	20		123		406	127

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:29:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.56E+09	23	9.12E+07	404	7.35E+13	ALT (KM)
4	5.15E+09	43	7.43E+07	647	1.65E+01	4.863
6	1.27E+10	62	3.35E+07	944	0.	
8	1.52E+10	82	2.12E+07	1241	0.	TEMP (C)
10	1.05E+10	102	1.02E+07	1538	0.	-11.5
12	6.37E+09	122	5.35E+06	1835	0.	
14	5.09E+09	142	3.01E+06	2132	0.	FROSTPOINT
16	3.20E+09	161	1.51E+06	2429	0.	-20.8
18	3.16E+09	181	8.45E+05	2726	0.	
20	2.14E+09	201	3.59E+05	3023	0.	TAS (M/S)
22	2.04E+09	221	4.39E+05	3320	0.	122.5
24	1.28E+09	241	3.76E+05	3617	0.	
26	1.06E+09	260	2.46E+05	3914	0.	NT (N/M3)
28	4.56E+08	280	1.51E+05	4211	0.	3122272.8
30	8.14E+08	300	9.34E+04	4508	0.	
						TOTALS
LWC	1.99E-01		9.72E-01		4.98E-12	1.02E+00
MED D	20		126		406	130

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 20:29:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.84E+09	23	1.30E+08	404	8.52E+03	ALT (KM)
4	6.14E+09	43	8.94E+07	647	4.66E+01	4.863
6	1.44E+10	62	4.95E+07	944	1.74E+01	
8	1.78E+10	82	2.29E+07	1241	0.	TEMP (C)
10	1.31E+10	102	1.17E+07	1538	0.	-11.5
12	7.45E+09	122	6.44E+06	1835	0.	
14	6.28E+09	142	2.88E+06	2132	0.	FROSTPOINT
16	3.26E+09	161	1.38E+06	2429	0.	-20.8
18	3.83E+09	181	1.24E+06	2726	0.	
20	2.39E+09	201	9.54E+05	3023	0.	TAS (M/S)
22	2.37E+09	221	3.72E+05	3320	0.	122.3
24	1.41E+09	241	7.52E+04	3617	0.	
26	1.12E+09	260	1.23E+05	3914	0.	NT (N/M3)
28	5.46E+08	280	2.31E+05	4211	0.	3506616.4
30	9.65E+08	300	1.21E+05	4508	0.	
						TOTALS
LWC	2.28E-01		1.15E+00		5.90E-02	1.11E+00
MED D	20		121		419	126

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 20:29:11*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	2.47E+09	23	1.13E+08	404	9.30E+03	ALT (KM)
4	6.57E+09	43	9.20E+07	647	1.66E+01	4.856
6	1.60E+10	62	4.83E+07	944	0.	
8	1.92E+10	82	2.47E+07	1241	0.	TEMP (C)
10	1.29E+10	102	1.29E+07	1538	0.	-11.7
12	7.17E+09	122	7.30E+06	1835	0.	
14	6.12E+09	142	4.10E+06	2132	0.	FROSTPOINT
16	3.52E+09	161	1.55E+06	2429	0.	-20.9
18	3.07E+09	181	1.27E+06	2726	0.	
20	2.41E+09	201	8.63E+05	3023	0.	TAS (M/S)
22	2.27E+09	221	6.44E+05	3320	0.	122.8
24	1.42E+09	241	2.54E+05	3617	0.	
26	1.23E+09	260	2.40E+05	3914	0.	NT (N/M3)
28	6.22E+08	280	2.18E+05	4211	0.	3506661.9
30	1.14E+09	300	1.31E+05	4508	0.	
						TOTALS
LWC	2.38E-01		1.23E+00		5.98E-02	1.29E+00
MED D	20		128		406	132

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 20:29:11*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.97E+09	23	1.23E+08	404	7.73E+03	ALT (KM)
4	6.41E+09	43	8.58E+07	647	1.66E+01	4.864
6	1.64E+10	62	4.15E+07	944	1.74E+01	
8	1.34E+10	82	2.25E+07	1241	0.	TEMP (C)
10	1.39E+10	102	1.18E+07	1538	0.	-11.6
12	8.01E+09	122	6.57E+06	1835	0.	
14	6.86E+09	142	2.79E+06	2132	0.	FROSTPOINT
16	3.33E+09	161	1.38E+06	2429	0.	-20.9
18	3.89E+09	181	3.19E+05	2726	0.	
20	2.33E+09	201	6.78E+05	3023	0.	TAS (M/S)
22	2.23E+09	221	5.18E+05	3320	0.	122.1
24	1.37E+09	241	5.27E+05	3617	0.	
25	1.30E+09	260	3.13E+05	3914	0.	NT (N/M3)
28	6.52E+08	280	1.74E+05	4211	0.	3503429.5
30	1.09E+09	300	1.16E+05	4508	0.	
						TOTALS
LWC	2.40E-01		1.12E+00		5.34E-02	1.17E+00
MED D	20		128		410	132

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 20:29:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.93E+09	23	1.02E+08	404	1.06E+04	ALT (KM)
4	6.91E+09	43	9.06E+07	647	5.64E+01	4.866
6	1.52E+10	62	4.28E+07	944	0.	
8	1.69E+10	82	2.08E+07	1241	0.	TEMP (C)
10	1.03E+10	102	9.80E+06	1538	0.	-11.8
12	6.07E+09	122	5.45E+06	1835	0.	
14	5.23E+09	142	2.83E+06	2132	0.	FROSTPOINT
16	2.78E+09	161	1.41E+06	2429	0.	-21.0
18	3.02E+09	181	9.33E+05	2726	0.	
20	1.90E+09	201	5.86E+05	3023	0.	TAS (M/S)
22	1.54E+09	221	5.43E+05	3320	0.	122.8
24	1.21E+09	241	1.88E+05	3617	0.	
26	9.22E+08	260	1.63E+05	3914	0.	NT (N/M3)
28	5.25E+08	280	1.41E+05	4211	0.	3492113.2
30	6.60E+08	300	9.31E+04	4508	0.	
						TOTALS
LWC	1.84E-01		9.57E-01		7.25E-02	1.04E+00
MED D	20		122		408	129

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:29:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.78E+09	23	6.37E+07	404	4.97E+03	ALT (KM)
4	5.92E+09	43	7.17E+07	647	3.37E+01	4.856
6	1.39E+10	62	7.52E+07	944	0.	
8	1.54E+10	82	1.52E+07	1241	0.	TEMP (C)
10	9.88E+09	102	8.93E+06	1538	0.	-11.7
12	5.53E+09	122	5.20E+06	1835	0.	
14	4.71E+09	142	2.35E+06	2132	0.	FROSTPOINT
16	2.38E+09	161	1.25E+06	2429	0.	-21.0
18	2.88E+09	181	6.92E+05	2726	0.	
20	1.96E+09	201	4.67E+05	3023	0.	TAS (M/S)
22	1.61E+09	221	2.71E+05	3320	0.	122.0
24	1.17E+09	241	2.54E+05	3617	0.	
26	8.17E+08	260	1.29E+05	3914	0.	NT (N/M3)
28	4.07E+08	280	6.33E+04	4211	0.	2984148.1
30	6.97E+08	300	4.22E+04	4508	0.	
						TOTALS
LWC	1.77E-01		7.92E-01		3.41E-02	8.26E-01
MED D	20		117		409	121

SAMPLE# 8A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:30:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.42E+08	23	6.06E+07	404	1.40E+04	ALT (KM)
4	4.92E+08	43	3.30E+07	647	0.	4.867
6	1.27E+09	62	2.46E+07	944	0.	
8	1.33E+09	82	1.16E+07	1241	0.	TEMP (C)
10	8.12E+08	102	5.53E+06	1538	0.	-10.9
12	4.10E+08	122	3.17E+06	1835	0.	
14	4.54E+08	142	1.55E+06	2132	0.	FROSTPOINT
16	3.13E+08	161	9.10E+05	2429	0.	-23.1
18	3.69E+08	181	3.93E+05	2726	0.	
20	2.46E+08	201	1.53E+05	3023	0.	TAS (M/S)
22	1.94E+08	221	2.02E+05	3320	0.	122.8
24	1.19E+08	241	1.12E+05	3617	0.	
26	6.78E+07	260	5.52E+04	3914	0.	NT (N/M3)
28	5.21E+07	281	2.81E+04	4211	0.	1733529.7
30	2.98E+07	300	2.61E+04	4508	0.	
						TOTALS
LWC	1.67E-02		4.83E-01		3.23E-02	5.15E-01
MED D	20		114		404	129

SAMPLE# 7 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:29:14*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 32 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	7.29E+08	23	4.91E+07	404	4.89E+04	ALT (KM)
4	2.83E+09	43	4.92E+07	647	0.	4.867
6	6.89E+09	62	2.75E+07	944	0.	
8	7.84E+09	82	1.57E+07	1241	0.	TEMP (C)
10	4.92E+09	102	5.14E+06	1538	0.	-11.6
12	2.93E+09	122	3.72E+06	1835	0.	
14	2.62E+09	142	1.69E+06	2132	0.	FROSTPOINT
16	1.62E+09	161	7.19E+05	2429	0.	-21.0
18	1.91E+09	181	5.57E+05	2726	0.	
20	1.88E+09	201	4.33E+05	3023	0.	TAS (M/S)
22	1.83E+09	221	3.76E+05	3320	0.	121.7
24	6.39E+08	241	1.99E+05	3617	0.	
26	4.29E+08	260	1.36E+05	3914	0.	NT (N/M3)
28	1.95E+08	280	9.79E+04	4211	0.	2156732.8
30	3.88E+08	300	8.76E+04	4508	0.	
						TOTALS
LWC	9.57E-02		6.58E-01		3.22E-01	9.90E-01
MED D	19		121		404	194

SAMPLE# 8A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:30:04*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.17E+09	23	1.88E+08	404	1.06E+04	ALT (KM)
4	3.53E+09	43	7.55E+07	647	8.25E+01	4.866
6	9.11E+09	62	4.39E+07	944	0.	
8	9.30E+09	82	2.58E+07	1241	0.	TEMP (C)
10	5.49E+09	102	1.11E+07	1538	0.	-11.1
12	3.06E+09	122	6.54E+06	1835	0.	
14	2.53E+09	142	2.94E+06	2132	0.	FROSTPOINT
16	1.56E+09	161	1.74E+06	2429	0.	-23.1
18	1.43E+09	181	1.01E+06	2726	0.	
20	1.18E+09	201	8.28E+05	3023	0.	TAS (M/S)
22	9.47E+08	221	6.41E+05	3320	0.	122.7
24	7.23E+08	241	1.50E+05	3617	0.	
26	4.25E+08	260	1.37E+05	3914	0.	NT (N/M3)
28	2.24E+08	281	1.26E+05	4211	0.	3322083.4
30	3.35E+08	300	9.48E+04	4508	0.	
						TOTALS
LWC	9.78E-02		1.84E+00		7.31E-02	1.12E+00
MED D	20		123		409	129

SAMPLE# 8A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:30:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.63E+09	23	8.12E+07	404	1.18E+04	ALT (KM)
4	5.41E+09	43	7.02E+07	647	1.65E+01	4.867
6	1.28E+10	62	4.35E+07	944	0.	
8	1.37E+10	82	2.34E+07	1241	0.	TEMP (C)
10	8.71E+09	102	1.26E+07	1538	0.	-11.4
12	4.75E+09	122	7.23E+06	1835	0.	
14	3.93E+09	142	4.11E+06	2132	0.	FROSTPOINT
16	2.34E+09	161	1.52E+06	2429	0.	-23.1
18	2.41E+09	181	9.95E+05	2726	0.	
20	1.35E+09	201	6.45E+05	3023	0.	TAS (M/S)
22	1.02E+09	221	4.77E+05	3320	0.	122.6
24	1.04E+09	241	3.13E+05	3617	0.	
26	1.08E+09	260	2.35E+05	3914	0.	NT (N/M3)
28	4.40E+08	280	2.35E+05	4211	0.	3325193.3
30	6.42E+08	300	1.75E+05	4508	0.	
						TOTALS
LWC	1.66E-01		1.16E+00		7.23E-12	1.24E+00
MED D	21		129		405	134

SAMPLE# 8A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:30:07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.46E+09	23	7.68E+07	404	9.05E+04	ALT (KM)
4	4.94E+09	43	6.26E+07	647	0.	4.866
6	1.15E+10	62	3.88E+07	944	0.	
8	1.09E+10	82	1.38E+07	1241	0.	TEMP (C)
10	6.59E+09	102	9.28E+06	1538	0.	-11.7
12	3.39E+09	122	4.83E+06	1835	0.	
14	3.03E+09	142	2.28E+06	2132	0.	FROSTPOINT
16	1.80E+09	161	1.20E+06	2429	0.	-23.2
18	1.71E+09	181	7.05E+05	2726	0.	
20	1.14E+09	201	3.37E+05	3023	0.	TAS (M/S)
22	1.02E+09	221	5.41E+05	3320	0.	122.4
24	6.17E+08	241	2.25E+05	3617	0.	
26	6.23E+08	261	1.91E+05	3914	0.	NT (N/M3)
28	3.21E+08	281	1.61E+05	4211	0.	2589963.8
30	4.34E+08	300	1.44E+05	4508	0.	
						TOTALS
LWC	1.12E-01		8.24E-01		5.29E-11	1.35E+00
MED D	20		129		404	230

SAMPLE# 8A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:30:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.84E+09	23	9.55E+07	404	8.54E+03	ALT (KM)
4	7.26E+09	43	7.11E+07	647	3.30E+01	4.866
6	1.69E+10	62	4.15E+07	944	0.	
8	1.81E+10	82	2.37E+07	1241	0.	TEMP (C)
10	1.19E+10	102	1.38E+07	1538	0.	-11.6
12	6.44E+09	122	5.34E+06	1835	0.	
14	5.29E+09	142	3.65E+06	2132	0.	FROSTPOINT
16	2.73E+09	161	1.75E+06	2429	0.	-23.2
18	3.05E+09	181	9.29E+05	2726	0.	
20	1.89E+09	201	6.45E+05	3023	0.	TAS (M/S)
22	2.09E+09	221	3.72E+05	3320	0.	122.6
24	1.19E+09	241	4.13E+05	3617	0.	
26	1.85E+09	260	2.50E+05	3914	0.	NT (N/M3)
28	5.37E+08	280	1.31E+05	4211	0.	3131446.1
30	8.73E+08	300	9.53E+04	4508	0.	
						TOTALS
LWC	2.41E-01		1.14E+00		5.35E-12	1.15E+00
MED D	22		129		407	174

SAMPLE# 8A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:30:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	8.97E+08	23	5.40E+07	404	1.74E+04	ALT (KM)
4	2.76E+09	43	5.23E+07	647	0.	4.868
6	6.75E+09	62	2.65E+07	944	0.	
8	5.75E+09	82	1.58E+07	1241	0.	TEMP (C)
10	3.18E+09	102	7.86E+06	1538	0.	-11.7
12	1.73E+09	122	3.10E+06	1835	0.	
14	1.47E+09	142	2.12E+06	2132	0.	FROSTPOINT
16	1.11E+09	161	7.57E+05	2429	0.	-23.2
18	9.71E+08	181	5.92E+05	2726	0.	
20	9.26E+08	201	4.92E+05	3023	0.	TAS (M/S)
22	6.05E+08	221	2.33E+05	3320	0.	122.5
24	4.26E+08	241	7.51E+04	3617	0.	
26	2.17E+08	261	5.12E+04	3914	0.	NT (N/M3)
28	1.57E+08	281	3.49E+04	4211	0.	2130457.6
30	1.20E+08	300	3.12E+04	4508	0.	
						TOTALS
LWC	5.95E-02		5.69E-01		1.15E-11	7.84E-01
MED D	19		112		404	131

SAMPLE: 8A

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:30:09
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	6.65E+08	23	4.39E+07	404	3.46E+03	ALT (KM)
4	2.26E+09	43	4.50E+07	647	1.65E+01	4.868
6	5.23E+09	62	2.37E+07	944	0.	
8	4.24E+09	82	1.04E+07	1241	0.	TEMP (C)
10	2.73E+09	102	6.49E+06	1538	0.	-11.6
12	1.41E+09	122	3.71E+06	1835	0.	
14	1.27E+09	142	1.50E+06	2132	0.	FROSTPOINT
16	8.22E+08	161	9.39E+05	2429	0.	-23.2
18	8.97E+08	181	5.07E+05	2726	0.	
20	5.16E+08	201	4.61E+05	3023	0.	TAS (M/S)
22	6.05E+08	221	1.69E+05	3320	0.	122.5
24	4.03E+08	241	7.51E+04	3617	0.	
26	2.84E+08	260	6.23E+04	3914	0.	NT (N/M3)
28	1.20E+08	280	5.16E+04	4211	0.	1368497.3
30	1.72E+08	300	3.36E+04	4508	0.	
						TOTALS
LWC	5.21E-02		5.39E-01		2.35E-02	5.62E-01
MED D	20		120		407	124

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	2.38E+09	23	8.27E+07	404	4.96E+03	ALT (KM)
4	9.09E+09	43	5.35E+07	647	3.31E+01	4.866
6	2.02E+10	62	3.16E+07	944	0.	
8	2.10E+10	82	1.56E+07	1241	0.	TEMP (C)
10	1.42E+10	102	1.00E+07	1538	0.	-11.6
12	7.36E+09	122	4.79E+06	1835	0.	
14	6.93E+09	142	2.89E+06	2132	0.	FROSTPOINT
16	2.79E+09	161	1.15E+06	2429	0.	-23.5
18	2.72E+09	181	4.23E+05	2726	0.	
20	1.61E+09	201	5.54E+05	3023	0.	TAS (M/S)
22	1.71E+09	221	3.15E+05	3320	0.	122.2
24	1.44E+09	241	7.53E+04	3617	0.	
26	1.14E+09	260	6.90E+04	3914	0.	NT (N/M3)
28	5.54E+08	280	6.32E+04	4211	0.	2381681.1
30	7.86E+08	300	4.21E+04	4508	0.	
						TOTALS
LWC	2.09E-01		7.93E-01		3.40E-02	7.37E-01
MED D	20		114		409	118

SAMPLE: 9B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:30:20
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	2.06E+09	23	6.18E+07	404	3.33E+04	ALT (KM)
4	8.51E+09	43	4.73E+07	647	0.	4.867
6	1.98E+10	62	2.37E+07	944	0.	
8	2.19E+10	82	1.21E+07	1241	0.	TEMP (C)
10	1.61E+10	102	6.56E+06	1538	0.	-11.5
12	9.29E+09	122	3.37E+06	1835	0.	
14	7.93E+09	142	1.39E+06	2132	0.	FROSTPOINT
16	3.10E+09	161	8.18E+05	2429	0.	-23.6
18	3.52E+09	181	4.09E+05	2726	0.	
20	2.15E+09	201	2.15E+05	3023	0.	TAS (M/S)
22	2.13E+09	221	1.35E+05	3320	0.	122.6
24	1.24E+09	241	3.75E+04	3617	0.	
26	1.51E+09	260	5.04E+04	3914	0.	NT (N/M3)
28	6.27E+08	280	6.77E+04	4211	0.	1922115.3
30	1.31E+09	300	6.36E+04	4508	0.	
						TOTALS
LWC	2.53E-01		5.37E-01		2.22E-31	7.29E-01
MED D	20		112		404	149

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	2.69E+09	23	1.31E+08	404	9.57E+03	ALT (KM)
4	1.00E+10	43	7.67E+07	647	3.31E+01	4.867
6	2.11E+10	62	4.25E+07	944	0.	
8	2.08E+10	82	1.93E+07	1241	0.	TEMP (C)
10	1.33E+10	102	1.17E+07	1538	0.	-11.6
12	7.40E+09	122	5.88E+06	1835	0.	
14	6.14E+09	142	2.79E+06	2132	0.	FROSTPOINT
16	2.53E+09	161	1.28E+06	2429	0.	-23.4
18	2.60E+09	181	9.98E+05	2726	0.	
20	1.55E+09	201	7.39E+05	3023	0.	TAS (M/S)
22	1.63E+09	221	4.86E+05	3320	0.	122.3
24	1.32E+09	241	2.63E+05	3617	0.	
26	1.21E+09	260	2.12E+05	3914	0.	NT (N/M3)
28	6.21E+08	280	1.71E+05	4211	0.	3188824.1
30	1.81E+09	300	1.88E+05	4508	0.	
						TOTALS
LWC	2.09E-01		9.94E-01		6.43E-32	1.86E+00
MED D	20		125		407	138

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 0:30:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	2.47E+09	23	3.77E+07	404	1.14E+05	ALT (KM)
4	1.04E+10	43	6.78E+07	647	0.	4.866
6	2.12E+10	62	3.82E+07	944	1.73E+01	
8	2.17E+10	82	1.78E+07	1241	0.	TEMP (C)
10	1.50E+10	102	1.17E+07	1538	0.	-12.0
12	7.57E+09	122	5.97E+06	1835	0.	
14	6.73E+09	142	3.34E+06	2132	0.	FROSTPOINT
16	2.65E+09	161	1.77E+06	2429	0.	-23.2
18	2.43E+09	181	1.11E+06	2726	0.	
20	1.07E+09	201	4.29E+05	3023	0.	TAS (M/S)
22	1.69E+09	221	5.06E+05	3320	0.	122.8
24	1.15E+09	241	3.00E+05	3617	0.	
26	1.04E+09	260	2.52E+05	3914	0.	NT (N/M3)
28	5.96E+08	280	2.29E+05	4211	0.	2976364.1
30	1.04E+09	300	2.05E+05	4508	0.	
						TOTALS
LWC	2.11E-01		1.04E+00		7.54E-01	1.80E+00
MED D	20		133		405	256

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 0:30:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	2.11E+09	23	6.28E+07	404	4.86E+03	ALT (KM)
4	7.91E+09	43	4.78E+07	647	1.65E+01	4.864
6	1.64E+10	62	2.83E+07	944	0.	
8	1.55E+10	82	1.24E+07	1241	0.	TEMP (C)
10	9.37E+09	102	7.14E+06	1538	0.	-12.0
12	4.93E+09	122	2.65E+06	1835	0.	
14	4.28E+09	142	2.24E+06	2132	0.	FROSTPOINT
16	2.04E+09	161	8.59E+05	2429	0.	-22.4
18	2.09E+09	181	6.46E+05	2726	0.	
20	1.69E+09	201	4.29E+05	3023	0.	TAS (M/S)
22	1.46E+09	221	2.36E+05	3320	0.	122.8
24	9.24E+08	241	1.50E+05	3617	0.	
26	7.97E+08	260	1.14E+05	3914	0.	NT (N/M3)
28	4.17E+08	280	8.67E+04	4211	0.	2936080.5
30	6.11E+08	300	5.45E+04	4508	0.	
						TOTALS
LWC	1.54E-01		6.18E-01		3.27E-02	6.41E-01
MED D	20		125		407	191

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 0:30:24*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	2.11E+09	23	6.34E+07	404	7.57E+04	ALT (KM)
4	9.19E+09	43	5.79E+07	647	0.	4.866
6	1.83E+10	62	3.66E+07	944	0.	
8	1.73E+10	82	2.14E+07	1241	0.	TEMP (C)
10	1.17E+10	102	1.31E+07	1538	0.	-12.1
12	5.76E+09	122	5.34E+06	1835	0.	
14	5.43E+09	142	3.32E+06	2132	0.	FROSTPOINT
16	2.23E+09	161	1.77E+06	2429	0.	-22.9
18	2.39E+09	181	9.44E+05	2726	0.	
20	1.40E+09	201	5.93E+05	3023	0.	TAS (M/S)
22	1.43E+09	221	3.71E+05	3320	0.	122.6
24	1.25E+09	241	2.63E+05	3617	0.	
26	9.73E+08	260	1.99E+05	3914	0.	NT (N/M3)
28	4.55E+08	280	1.51E+05	4211	0.	2769196.8
30	7.39E+08	300	1.36E+05	4508	0.	
						TOTALS
LWC	1.77E-01		9.56E-01		4.98E-01	1.46E+00
MED D	20		129		404	193

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 0:30:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	2.20E+09	23	7.77E+07	404	3.26E+03	ALT (KM)
4	8.15E+09	43	4.75E+07	647	1.60E+01	4.864
6	1.61E+10	62	2.79E+07	944	0.	
8	1.58E+10	82	1.58E+07	1241	0.	TEMP (C)
10	9.08E+09	102	8.43E+06	1538	0.	-11.9
12	5.10E+09	122	3.10E+06	1835	0.	
14	4.04E+09	142	1.81E+06	2132	0.	FROSTPOINT
16	2.13E+09	161	9.99E+05	2429	0.	-21.9
18	2.46E+09	181	9.23E+05	2726	0.	
20	1.69E+09	201	3.38E+05	3023	0.	TAS (M/S)
22	1.60E+09	221	2.71E+05	3320	0.	122.2
24	9.89E+08	241	1.13E+05	3617	0.	
26	7.64E+08	260	7.23E+04	3914	0.	NT (N/M3)
28	4.72E+08	280	4.70E+04	4211	0.	2112924.6
30	6.06E+08	300	3.07E+04	4508	0.	
						TOTALS
LWC	1.59E-01		5.94E-01		2.21E-02	6.16E-01
MED D	20		103		408	112

SAMPLE: 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	2.44E+09	23	5.75E+07	404	8.48E+03	ALT (KM)
4	9.64E+09	43	4.91E+07	647	3.31E+01	4.864
6	1.39E+10	62	2.94E+07	944	0.	
8	2.24E+10	82	1.37E+07	1241	0.	TEMP (C)
10	1.56E+10	102	6.98E+06	1538	0.	-11.9
12	7.75E+09	122	3.50E+06	1835	0.	
14	7.50E+09	142	1.39E+06	2132	0.	FROSTPOINT
16	2.98E+09	161	9.14E+05	2429	0.	-21.5
18	2.97E+09	181	5.07E+05	2726	0.	
20	2.26E+09	201	4.00E+05	3023	0.	TAS (M/S)
22	2.17E+09	221	2.37E+05	3320	0.	122.4
24	1.43E+09	241	1.13E+05	3617	0.	
26	1.29E+09	260	1.26E+05	3914	0.	NT (N/M3)
28	6.88E+08	280	1.44E+05	4211	0.	2123232.8
30	1.28E+09	300	8.95E+04	4508	0.	
						TOTALS
LWC	2.45E-01		6.38E-01		5.66E-02	6.95E-01
MED D	28		123		407	171

SAMPLE: 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.48E+09	23	6.09E+07	404	8.27E+03	ALT (KM)
4	6.82E+09	43	5.51E+07	647	3.29E+01	4.866
6	1.67E+10	62	2.68E+07	944	0.	
8	2.30E+10	82	1.58E+07	1241	0.	TEMP (C)
10	2.09E+10	102	9.63E+06	1538	0.	-12.1
12	1.21E+10	122	4.32E+06	1835	0.	
14	1.08E+10	142	2.17E+06	2132	0.	FROSTPOINT
16	4.32E+09	161	1.24E+06	2429	0.	-21.3
18	4.02E+09	181	6.44E+05	2726	0.	
20	2.41E+09	201	2.14E+05	3023	0.	TAS (M/S)
22	2.07E+09	221	3.36E+05	3320	0.	123.2
24	1.77E+09	241	1.87E+05	3617	0.	
26	1.63E+09	260	1.64E+05	3914	0.	NT (N/M3)
28	7.83E+08	280	1.37E+05	4211	0.	2293591.7
30	1.51E+09	300	8.78E+04	4508	0.	
						TOTALS
LWC	3.02E-01		7.26E-01		5.57E-02	7.82E-01
MED D	28		123		407	138

SAMPLE: 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.47E+09	23	6.30E+07	404	3.96E+03	ALT (KM)
4	6.99E+09	43	4.95E+07	647	1.65E+01	4.864
6	1.79E+10	62	2.17E+07	944	0.	
8	2.29E+10	82	1.31E+07	1241	0.	TEMP (C)
10	2.18E+10	102	7.98E+06	1538	0.	-12.0
12	1.26E+10	122	3.96E+06	1835	0.	
14	1.17E+10	142	2.00E+06	2132	0.	FROSTPOINT
16	4.57E+09	161	1.10E+06	2429	0.	-21.3
18	4.49E+09	181	7.05E+05	2726	0.	
20	2.53E+09	201	4.80E+05	3023	0.	TAS (M/S)
22	2.61E+09	221	1.12E+05	3320	0.	122.3
24	1.65E+09	241	1.13E+05	3617	0.	
26	1.99E+09	260	8.44E+04	3914	0.	NT (N/M3)
28	7.85E+08	280	6.31E+04	4211	0.	1993492.8
30	1.68E+09	300	4.36E+04	4508	0.	
						TOTALS
LWC	3.27E-01		6.30E-01		2.67E-02	6.27E-01
MED D	28		120		407	123

SAMPLE: 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.76E+09	23	5.93E+07	404	1.63E+04	ALT (KM)
4	7.40E+09	43	4.83E+07	647	0.	4.864
6	1.83E+10	62	2.28E+07	944	0.	
8	2.28E+10	82	1.48E+07	1241	0.	TEMP (C)
10	1.99E+10	102	7.87E+06	1538	0.	-12.1
12	1.28E+10	122	5.24E+06	1835	0.	
14	1.03E+10	142	2.27E+06	2132	0.	FROSTPOINT
16	3.96E+09	161	1.04E+06	2429	0.	-21.2
18	4.11E+09	181	5.61E+05	2726	0.	
20	2.37E+09	201	4.28E+05	3023	0.	TAS (M/S)
22	2.48E+09	221	3.83E+05	3320	0.	123.1
24	1.52E+09	241	0.	3617	0.	
26	1.88E+09	260	1.63E+04	3914	0.	NT (N/M3)
28	7.59E+08	280	3.27E+04	4211	0.	2041176.7
30	1.76E+09	300	2.33E+04	4508	0.	
						TOTALS
LWC	3.08E-01		6.11E-01		1.07E-01	7.18E-01
MED D	28		119		484	129

SAMPLE: 8B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0: 38: 31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.89E+09	23	6.32E+07	404	9.62E+04	ALT (KM)
4	5.85E+09	43	6.55E+07	647	0.	4.863
6	1.33E+10	62	2.66E+07	944	0.	
8	2.13E+10	82	1.51E+07	1241	0.	TEMP (C)
10	2.33E+10	102	8.41E+06	1538	0.	-12.2
12	1.67E+10	122	4.41E+06	1835	0.	
14	1.51E+10	142	2.14E+06	2132	0.	FROSTPOINT
16	6.47E+09	161	1.35E+06	2429	0.	-21.2
18	5.44E+09	181	9.42E+05	2726	0.	
20	2.82E+09	201	6.12E+05	3023	0.	TAS (M/S)
22	2.94E+09	221	3.93E+05	3320	0.	122.9
24	1.82E+09	241	1.50E+05	3617	0.	
26	2.41E+09	260	1.76E+05	3914	0.	NT (N/M3)
28	9.23E+08	281	1.32E+05	4211	0.	2380807.9
30	2.41E+09	301	1.72E+05	4508	0.	
						TOTALS
LWC	3.98E-01		9.34E-01		6.37E-01	1.44E+00
MED D	28		134		484	274

SAMPLE: 8B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0: 38: 33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.10E+09	23	8.71E+07	404	6.81E+04	ALT (KM)
4	4.23E+09	43	6.73E+07	647	0.	4.871
6	1.20E+10	62	3.68E+07	944	0.	
8	1.93E+10	82	1.98E+07	1241	0.	TEMP (C)
10	2.25E+10	102	1.21E+07	1538	0.	-12.4
12	1.7+E+10	122	5.61E+06	1835	0.	
14	1.57E+10	142	3.16E+06	2132	0.	FROSTPOINT
16	7.97E+09	161	1.50E+06	2429	0.	-21.1
18	6.61E+09	181	6.42E+05	2726	0.	
20	3.54E+09	201	3.64E+05	3023	0.	TAS (M/S)
22	3.69E+09	221	3.58E+05	3320	0.	123.6
24	2.23E+09	241	2.38E+05	3617	0.	
26	2.33E+09	260	1.99E+05	3914	0.	NT (N/M3)
28	1.05E+09	280	1.28E+05	4211	0.	2946517.6
30	2.49E+09	300	1.98E+05	4508	0.	
						TOTALS
LWC	4.29E-01		9.24E-01		3.95E-01	1.32E+00
MED D	28		121		484	165

SAMPLE: 8P AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0: 30: 32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.07E+09	23	6.56E+07	404	7.22E+03	ALT (KM)
4	4.38E+09	43	6.25E+07	647	1.65E+01	4.861
6	1.29E+10	62	2.77E+07	944	1.77E+01	
8	2.02E+10	82	1.31E+07	1241	0.	TEMP (C)
10	2.31E+10	102	8.18E+06	1538	0.	-12.3
12	1.73E+10	122	4.29E+06	1835	0.	
14	1.61E+10	142	2.12E+06	2132	0.	FROSTPOINT
16	6.69E+09	161	1.35E+06	2429	0.	-21.2
18	6.11E+09	181	7.59E+05	2726	0.	
20	2.95E+09	201	5.83E+05	3023	0.	TAS (M/S)
22	3.18E+09	221	3.84E+05	3320	0.	122.7
24	1.79E+09	241	7.50E+04	3617	0.	
26	2.44E+09	260	1.18E+05	3914	0.	NT (N/M3)
28	9.77E+08	281	1.57E+05	4211	0.	2243299.2
30	2.55E+09	300	9.59E+04	4508	0.	
						TOTALS
LWC	4.16E-01		7.32E-01		5.04E-02	7.83E-01
MED D	28		127		419	134

SAMPLE: 8P AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0 0: 33: 34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	9.92E+08	23	8.38E+07	404	8.14E+03	ALT (KM)
4	4.45E+09	43	6.17E+07	647	1.64E+01	4.860
6	1.26E+10	62	3.52E+07	944	0.	
8	1.93E+10	82	1.79E+07	1241	0.	TEMP (C)
10	2.26E+10	102	1.12E+07	1538	0.	-12.4
12	1.77E+10	122	5.22E+06	1835	0.	
14	1.58E+10	142	3.01E+06	2132	0.	FROSTPOINT
16	7.58E+09	161	1.19E+06	2429	0.	-20.9
18	6.71E+09	181	8.37E+05	2726	0.	
20	3.20E+09	201	5.48E+05	3023	0.	TAS (M/S)
22	3.25E+09	221	4.35E+05	3320	0.	123.6
24	2.26E+09	241	2.38E+05	3617	0.	
26	2.55E+09	260	2.37E+05	3914	0.	NT (N/M3)
28	1.18E+09	281	1.89E+05	4211	0.	2674417.3
30	2.67E+09	300	1.14E+05	4508	0.	
						TOTALS
LWC	4.43E-01		9.20E-01		5.42E-02	9.74E-01
MED D	28		138		486	136

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:30:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	9.93E+08	23	7.32E+07	404	6.86E+03	ALT (KM)
4	3.93E+09	43	5.55E+07	647	1.64E+01	4.863
6	1.81E+10	62	3.03E+07	944	0.	
8	1.76E+10	82	1.76E+07	1241	0.	TEMP (C)
10	2.24E+10	102	9.36E+06	1538	0.	-12.5
12	1.83E+10	122	4.42E+06	1835	0.	
14	1.82E+10	142	2.32E+06	2132	0.	FROSTPOINT
16	9.37E+09	161	1.53E+06	2429	0.	-20.6
18	7.44E+09	181	9.56E+05	2726	0.	
20	3.98E+09	201	6.19E+05	3023	0.	TAS (M/S)
22	3.53E+09	221	3.35E+05	3320	0.	123.5
24	2.23E+09	241	1.12E+05	3617	0.	
26	2.91E+09	260	1.25E+05	3914	0.	NT (N/M3)
28	1.26E+09	281	1.46E+05	4211	0.	2457243.9
30	2.91E+09	301	9.35E+04	4508	0.	
						TOTALS
LWC	4.85E-01		9.28E-01		4.58E-02	8.74E-01
MED D	20		129		406	174

SAMPLE: 8B

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:30:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	8.27E+08	23	5.47E+07	404	9.68E+03	ALT (KM)
4	3.48E+09	43	4.74E+07	647	9.83E+01	4.863
6	9.83E+09	62	2.64E+07	944	0.	
8	1.61E+10	82	1.29E+07	1241	0.	TEMP (C)
10	2.08E+10	102	7.89E+06	1538	0.	-12.5
12	1.86E+10	122	3.77E+06	1835	0.	
14	1.84E+10	142	1.81E+06	2132	0.	FROSTPOINT
16	1.03E+10	161	1.16E+06	2429	0.	-19.9
18	8.09E+09	181	7.24E+05	2726	0.	
20	4.22E+09	201	4.25E+05	3023	0.	TAS (M/S)
22	3.63E+09	221	3.81E+05	3320	0.	123.9
24	2.39E+09	241	3.71E+04	3617	0.	
26	2.79E+09	259	6.38E+04	3914	0.	NT (N/M3)
28	1.23E+09	281	9.35E+04	4211	0.	2303376.3
30	3.02E+09	301	6.95E+04	4508	0.	
						TOTALS
LWC	5.06E-01		6.75E-01		6.77E-02	6.93E-01
MED D	20		123		411	132

SAMPLE: 8R

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:30:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	7.76E+08	23	3.97E+07	404	2.42E+04	ALT (KM)
4	3.44E+09	43	4.49E+07	647	0.	4.867
6	9.64E+09	62	2.91E+07	944	0.	
8	1.66E+10	82	1.41E+07	1241	0.	TEMP (C)
10	2.12E+10	102	7.14E+06	1538	0.	-12.5
12	1.83E+10	122	4.06E+06	1835	0.	
14	1.79E+10	142	1.97E+06	2132	0.	FROSTPOINT
16	9.41E+09	161	1.11E+06	2429	0.	-20.3
18	8.57E+09	181	8.64E+05	2726	0.	
20	3.95E+09	201	3.95E+05	3023	0.	TAS (M/S)
22	3.65E+09	221	3.68E+05	3320	0.	123.7
24	2.15E+09	241	2.65E+05	3617	0.	
26	2.77E+09	260	1.12E+05	3914	0.	NT (N/M3)
28	1.24E+09	281	4.35E+04	4211	0.	2253940.7
30	3.06E+09	301	4.34E+04	4508	0.	
						TOTALS
LWC	4.91E-01		6.74E-01		1.59E-01	8.33E-01
MED D	20		127		404	153

SAMPLE: 8R

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:30:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	8.93E+08	23	7.38E+07	404	1.43E+04	ALT (KM)
4	3.03E+09	43	4.22E+07	647	0.	4.864
6	8.79E+09	62	2.32E+07	944	0.	
8	1.64E+10	82	1.56E+07	1241	0.	TEMP (C)
10	2.12E+10	102	6.58E+06	1538	0.	-12.5
12	1.81E+10	122	4.54E+06	1835	0.	
14	1.93E+10	142	1.47E+06	2132	0.	FROSTPOINT
16	1.06E+10	161	6.69E+05	2429	0.	-19.5
18	9.00E+09	181	8.89E+05	2726	0.	
20	4.73E+09	201	4.24E+05	3023	0.	TAS (M/S)
22	4.27E+09	221	3.33E+04	3320	0.	124.2
24	2.25E+09	241	1.11E+05	3617	0.	
26	2.86E+09	260	9.75E+04	3914	0.	NT (N/M3)
28	1.45E+09	281	2.97E+04	4211	0.	1671864.8
30	3.16E+09	301	2.66E+04	4508	0.	
						TOTALS
LWC	5.27E-01		5.62E-01		9.78E-02	6.68E-01
MED D	20		115		404	127

SAMPLE: 8B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	9.42E+08	23	6.67E+07	404	7.01E+03	ALT (KM)
4	3.64E+09	43	9.37E+07	647	6.51E+01	4.866
6	9.90E+09	62	3.47E+07	944	0.	
8	1.76E+10	82	1.53E+07	1241	0.	TEMP (C)
10	2.18E+10	102	9.14E+06	1538	0.	-12.5
12	1.75E+10	122	5.25E+06	1835	0.	
14	1.79E+10	142	2.27E+06	2132	0.	FROSTPOINT
16	9.99E+09	161	1.21E+06	2429	0.	-19.1
18	8.73E+09	181	9.99E+05	2726	0.	
20	3.89E+09	201	3.13E+05	3023	0.	TAS (M/S)
22	3.47E+09	221	1.39E+05	3320	0.	124.4
24	2.29E+09	241	3.76E+04	3617	0.	
26	2.74E+09	260	5.37E+04	3914	0.	MT (N/M3)
28	1.15E+09	281	7.50E+04	4211	0.	2367952.2
30	2.83E+09	301	5.19E+04	4508	0.	
						TOTALS
LWC	4.83E-01		7.33E-01		4.89E-02	7.81E-01
MED D	29		119		419	124

SAMPLE: 8B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:40
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	9.39E+08	23	1.32E+08	404	5.75E+03	ALT (KM)
4	3.65E+09	43	8.47E+07	647	3.25E+01	4.866
6	1.68E+10	62	3.69E+07	944	0.	
8	1.67E+10	82	2.04E+07	1241	0.	TEMP (C)
10	1.96E+10	102	1.01E+07	1538	0.	-12.5
12	1.75E+10	122	5.57E+05	1835	0.	
14	1.73E+10	142	2.32E+06	2132	0.	FROSTPOINT
16	9.42E+09	161	1.44E+06	2429	0.	-18.8
18	8.35E+09	181	1.11E+06	2726	0.	
20	3.97E+09	201	6.64E+05	3023	0.	TAS (M/S)
22	3.71E+09	221	4.98E+05	3320	0.	124.7
24	1.92E+09	241	2.21E+05	3617	0.	
26	2.48E+09	260	1.33E+05	3914	0.	MT (N/M3)
28	9.84E+08	281	7.37E+04	4211	0.	3246978.9
30	2.33E+09	301	5.24E+04	4508	0.	
						TOTALS
LWC	4.55E-01		9.20E-01		3.92E-02	9.65E-01
MED D	19		122		408	125

SAMPLE: 8B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	8.77E+08	23	7.92E+07	404	4.20E+03	ALT (KM)
4	3.95E+09	43	7.14E+07	647	1.63E+01	4.864
6	1.19E+10	62	3.96E+07	944	0.	
8	1.74E+10	82	1.99E+07	1241	0.	TEMP (C)
10	2.17E+10	102	1.03E+07	1538	0.	-12.4
12	1.73E+10	122	6.84E+06	1835	0.	
14	1.83E+10	142	3.00E+06	2132	0.	FROSTPOINT
16	9.89E+09	161	1.76E+06	2429	0.	-18.9
18	8.33E+09	181	7.22E+05	2726	0.	
20	3.60E+09	201	7.33E+05	3023	0.	TAS (M/S)
22	3.35E+09	221	3.33E+05	3320	0.	124.2
24	1.97E+09	241	2.22E+05	3617	0.	
26	2.65E+09	260	1.24E+05	3914	0.	MT (N/M3)
28	9.51E+08	280	5.35E+04	4211	0.	3186155.6
30	2.67E+09	301	4.44E+04	4508	0.	
						TOTALS
LWC	4.68E-01		9.96E-01		2.83E-02	9.14E-01
MED D	28		113		407	121

SAMPLE: 8B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:38:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 36 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.34E+09	23	1.13E+08	404	2.75E+03	ALT (KM)
4	5.35E+09	43	7.52E+07	647	1.62E+01	4.867
6	1.33E+10	62	3.59E+07	944	1.78E+01	
8	1.95E+10	82	2.04E+07	1241	0.	TEMP (C)
10	2.02E+10	102	9.74E+06	1538	0.	-12.5
12	1.54E+10	122	4.57E+05	1835	0.	
14	1.45E+10	142	2.99E+06	2132	0.	FROSTPOINT
16	7.17E+09	161	1.28E+06	2429	0.	-18.7
18	6.51E+09	181	8.31E+05	2726	0.	
20	2.98E+09	201	5.13E+05	3023	0.	TAS (M/S)
22	3.08E+09	221	2.38E+05	3320	0.	124.8
24	1.74E+09	241	3.82E+05	3617	0.	
26	2.05E+09	260	1.11E+05	3914	0.	MT (N/M3)
28	8.58E+08	280	3.59E+04	4211	0.	3053469.2
30	2.13E+09	300	2.64E+04	4508	0.	
						TOTALS
LWC	3.85E-01		8.43E-01		2.18E-02	8.64E-01
MED D	19		116		420	119

SAMPLE# 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#38:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.49E+09	23	6.77E+07	404	5.18E+03	ALT (KM)
4	6.23E+09	43	6.55E+07	647	1.62E+01	4.868
6	1.45E+10	62	2.94E+07	944	1.70E+01	
8	1.84E+10	82	1.49E+07	1241	0.	TEMP (C)
10	1.76E+10	102	7.55E+06	1538	0.	-12.5
12	1.18E+10	122	4.29E+06	1835	0.	
14	1.17E+10	142	2.11E+06	2132	0.	FROSTPOINT
16	5.74E+09	161	1.16E+06	2429	0.	-18.7
18	5.33E+09	181	5.32E+05	2726	0.	
20	2.73E+09	201	3.51E+05	3023	0.	TAS (M/S)
22	2.50E+09	221	1.66E+05	3320	0.	125.0
24	1.35E+09	241	3.68E+04	3617	0.	
26	1.63E+09	260	5.94E+04	3914	0.	NT (N/M3)
28	7.17E+08	280	3.53E+04	4211	0.	2528679.8
30	1.65E+09	300	6.02E+04	4508	0.	
						TOTALS
LWC	3.15E-01		8.45E-01		2.79E-02	6.82E-01
MED D	19		114		417	119

SAMPLE# 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#38:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.56E+09	23	1.08E+08	404	9.71E+03	ALT (KM)
4	6.78E+09	43	7.53E+07	647	3.24E+01	4.868
6	1.68E+10	62	4.11E+07	944	0.	
8	1.91E+10	82	1.39E+07	1241	0.	TEMP (C)
10	1.81E+10	102	1.02E+07	1538	0.	-12.4
12	1.25E+10	122	5.87E+06	1835	0.	
14	1.15E+10	142	3.35E+06	2132	0.	FROSTPOINT
16	5.81E+09	161	1.71E+06	2429	0.	-18.9
18	4.63E+09	181	9.35E+05	2726	0.	
20	2.26E+09	201	4.52E+05	3023	0.	TAS (M/S)
22	2.41E+09	221	4.31E+05	3320	0.	124.9
24	1.49E+09	241	7.37E+04	3617	0.	
26	1.55E+09	260	1.14E+05	3914	0.	NT (N/M3)
28	7.77E+08	280	1.76E+05	4211	0.	2147328.0
30	1.55E+09	300	1.11E+05	4508	0.	
						TOTALS
LWC	3.02E-01		9.49E-01		4.52E-02	1.81E+00
MED D	19		124		407	129

SAMPLE# 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#38:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	2.16E+09	23	1.02E+08	404	6.45E+03	ALT (KM)
4	8.76E+09	43	9.23E+07	647	1.62E+01	4.868
6	1.66E+10	62	3.93E+07	944	0.	
8	1.88E+10	82	1.92E+07	1241	0.	TEMP (C)
10	1.64E+10	102	1.13E+07	1538	0.	-12.4
12	1.15E+10	122	4.88E+06	1835	0.	
14	1.01E+10	142	2.54E+06	2132	0.	FROSTPOINT
16	4.56E+09	161	1.38E+06	2429	0.	-18.8
18	4.21E+09	181	6.24E+05	2726	0.	
20	2.87E+09	201	6.02E+05	3023	0.	TAS (M/S)
22	2.83E+09	221	4.54E+05	3320	0.	125.0
24	1.21E+09	241	2.94E+05	3617	0.	
25	1.44E+09	260	1.38E+05	3914	0.	NT (N/M3)
28	7.47E+08	280	1.33E+05	4211	0.	3238369.2
30	1.40E+09	300	8.23E+04	4508	0.	
						TOTALS
LWC	2.75E-01		9.42E-01		4.31E-02	9.85E-01
MED D	19		122		406	127

SAMPLE# 88 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#38:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 36 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.06E+09	23	8.85E+07	404	5.50E+03	ALT (KM)
4	4.82E+09	43	4.52E+07	647	6.50E+01	4.867
6	1.13E+10	62	3.11E+07	944	1.71E+01	
8	1.70E+10	82	1.77E+07	1241	0.	TEMP (C)
10	1.96E+10	102	8.64E+06	1538	0.	-12.4
12	1.56E+10	122	4.32E+06	1835	0.	
14	1.59E+10	142	2.32E+06	2132	0.	FROSTPOINT
16	8.09E+09	161	8.46E+05	2429	0.	-18.9
18	7.23E+09	181	4.92E+05	2726	0.	
20	3.25E+09	201	2.42E+05	3023	0.	TAS (M/S)
22	3.07E+09	221	3.65E+05	3320	0.	124.6
24	1.72E+09	241	1.11E+05	3617	0.	
26	2.34E+09	260	7.64E+04	3914	0.	NT (N/M3)
28	1.01E+09	280	5.27E+04	4211	0.	2642779.6
30	2.28E+09	300	3.68E+04	4508	0.	
						TOTALS
LWC	4.11E-01		7.10E-01		4.11E-02	7.51E-01
MED D	20		118		418	118

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*03:35:24*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	9.76E+07	23	1.55E+07	404	1.52E+04	ALT (KM)
4	3.83E+08	43	1.30E+07	647	0.	4.846
6	1.19E+09	62	5.92E+06	944	0.	
8	2.74E+09	82	2.57E+06	1241	0.	TEMP (C)
10	2.00E+09	102	1.31E+06	1538	0.	-11.8
12	1.46E+09	122	1.05E+06	1835	0.	
14	1.10E+09	142	4.13E+05	2132	0.	FROSTPOINT
16	8.53E+08	161	2.36E+05	2429	0.	-23.6
18	9.83E+08	181	1.38E+05	2726	0.	
20	6.91E+08	201	6.18E+04	3023	0.	TAS (M/S)
22	5.78E+08	221	0.	3320	0.	121.9
24	3.30E+08	241	3.77E+04	3617	0.	
25	1.59E+08	263	3.38E+04	3914	0.	NT (N/M3)
28	7.51E+07	283	3.03E+04	4211	0.	510959.1
30	3.75E+07	309	2.72E+04	4508	0.	
						TOTALS
LWC	4.29E-02		1.46E-01		9.97E-02	2.45E-01
MED D	19		125		404	243

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*03:35:26*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	3.76E+07	23	1.53E+07	404	7.10E+03	ALT (KM)
4	6.25E+07	43	1.15E+07	647	0.	4.849
6	2.86E+08	62	4.99E+06	944	0.	
8	6.02E+08	82	1.13E+06	1241	0.	TEMP (C)
10	3.76E+08	102	3.84E+05	1538	0.	-11.6
12	4.45E+08	122	5.57E+05	1835	0.	
14	2.94E+08	142	2.37E+05	2132	0.	FROSTPOINT
16	2.49E+08	161	2.63E+05	2429	0.	-23.7
18	2.16E+08	181	2.27E+05	2726	0.	
20	2.56E+08	201	1.24E+05	3023	0.	TAS (M/S)
22	1.58E+08	221	6.91E+04	3320	0.	121.5
24	6.02E+07	241	0.	3617	0.	
26	3.76E+07	263	7.10E+03	3914	0.	NT (N/M3)
28	1.51E+07	283	1.42E+04	4211	0.	488995.5
30	3.01E+07	308	1.27E+04	4508	0.	
						TOTALS
LWC	1.17E-02		1.14E-01		4.66E-02	1.68E-01
MED D	19		141		404	181

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*03:35:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	1.58E+07	23	1.42E+07	404	0.	ALT (KM)
4	1.43E+08	43	1.35E+07	647	0.	4.847
6	3.08E+08	62	5.39E+06	944	0.	
8	6.31E+08	82	2.37E+06	1241	0.	TEMP (C)
10	5.64E+08	102	1.47E+06	1538	0.	-11.8
12	4.59E+08	122	9.49E+05	1835	0.	
14	3.71E+08	142	4.46E+05	2132	0.	FROSTPOINT
16	4.13E+08	161	1.34E+05	2429	0.	-23.6
18	3.46E+08	181	5.57E+04	2726	0.	
20	1.73E+08	201	1.24E+05	3023	0.	TAS (M/S)
22	1.89E+08	221	6.53E+04	3320	0.	121.7
24	8.27E+07	241	0.	3617	0.	
26	3.76E+07	269	0.	3914	0.	NT (N/M3)
28	3.76E+07	283	0.	4211	0.	488451.1
30	2.26E+07	308	0.	4508	0.	
						TOTALS
LWC	1.38E-02		1.18E-01		0.	1.18E-01
MED D	19		112		0	112

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:35:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	0.	23	1.20E+07	404	1.42E+04	ALT (KM)
4	7.54E+06	43	9.51E+06	647	0.	4.847
6	2.26E+07	62	4.06E+06	944	0.	
8	1.13E+08	82	1.69E+06	1241	0.	TEMP (C)
10	6.79E+07	102	1.20E+06	1538	0.	-11.4
12	1.13E+08	122	5.64E+05	1835	0.	
14	7.54E+07	142	2.55E+05	2132	0.	FROSTPOINT
16	3.77E+07	161	2.63E+05	2429	0.	-23.7
18	3.77E+07	181	1.14E+05	2726	0.	
20	2.26E+07	201	6.20E+04	3023	0.	TAS (M/S)
22	3.77E+07	221	3.41E+04	3320	0.	121.4
24	7.54E+06	241	7.38E+04	3617	0.	
26	0.	269	4.54E+04	3914	0.	NT (N/M3)
28	0.	289	2.84E+04	4211	0.	357738.8
30	0.	309	8.54E+04	4508	0.	
						TOTALS
LWC	1.72E-03		1.23E-01		9.34E-02	2.16E-01
MED D	18		151		404	268

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*0F:35:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	0.	23	1.18E+07	404	3.	ALT (KM)
4	2.27E+07	43	6.94E+06	647	0.	4.847
6	8.32E+07	62	7.98E+06	944	0.	
8	1.21E+08	82	1.77E+06	1241	0.	TEMP (C)
10	1.36E+08	102	8.24E+05	1538	0.	-11.2
12	6.05E+07	122	3.25E+05	1835	0.	
14	3.78E+07	142	2.88E+05	2132	0.	FROSTPOINT
16	5.29E+07	161	1.16E+05	2429	0.	-23.8
18	6.80E+07	181	8.55E+04	2726	0.	
20	4.54E+07	201	6.22E+04	3023	0.	TAS (M/S)
22	3.02E+07	221	3.42E+04	3320	0.	121.0
24	0.	241	0.	3617	0.	
26	7.56E+06	261	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	264113.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	2.49E-03		6.91E-02		0.	6.81E-02
MED D	18		112		9	112

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*0F:35:38*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	0.	23	1.32E+07	404	3.17E+03	ALT (KM)
4	1.52E+07	43	1.25E+07	647	0.	4.846
6	6.82E+07	62	4.98E+06	944	0.	
8	1.36E+08	82	7.11E+06	1241	0.	TEMP (C)
10	1.52E+08	102	9.86E+05	1538	0.	-11.1
12	1.46E+08	122	6.94E+05	1835	0.	
14	6.07E+07	142	4.17E+05	2132	0.	FROSTPOINT
16	7.53E+07	161	1.45E+05	2429	0.	-23.8
18	6.07E+07	181	2.46E+04	2726	0.	
20	2.27E+07	201	3.12E+04	3023	0.	TAS (M/S)
22	3.78E+07	221	6.56E+04	3320	0.	120.7
24	3.78E+07	241	0.	3617	0.	
26	7.56E+06	260	8.17E+03	3914	0.	NT (N/M3)
28	0.	280	1.63E+04	4211	0.	434465.2
30	0.	300	1.44E+04	4508	0.	
						TOTALS
LWC	2.67E-03		1.33E-01		5.37E-02	1.57E-01
MED D	19		118		404	164

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*0F:35:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	0.	23	7.59E+06	404	0.	ALT (KM)
4	2.27E+07	43	6.36E+06	647	0.	4.849
6	5.29E+07	62	3.63E+06	944	0.	
8	1.74E+08	82	1.36E+06	1241	0.	TEMP (C)
10	1.29E+08	102	1.37E+05	1538	0.	-11.2
12	7.56E+07	122	4.88E+05	1835	0.	
14	5.29E+07	142	1.32E+05	2132	0.	FROSTPOINT
16	4.54E+07	161	7.92E+04	2429	0.	-23.8
18	2.27E+07	181	2.45E+04	2726	0.	
20	6.81E+07	201	6.22E+04	3023	0.	TAS (M/S)
22	3.78E+07	221	0.	3320	0.	121.0
24	3.02E+07	241	3.80E+04	3617	0.	
26	7.56E+06	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	265338.1
30	0.	300	0.	4508	0.	
						TOTALS
LWC	2.49E-03		7.39E-02		0.	7.39E-02
MED D	28		104		0	104

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*0F:35:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	7.81E+07	23	9.33E+06	404	0.	ALT (KM)
4	4.56E+07	43	8.42E+06	647	0.	4.846
6	1.14E+08	62	5.17E+06	944	0.	
8	2.21E+08	82	1.46E+06	1241	0.	TEMP (C)
10	2.13E+08	102	7.17E+05	1538	0.	-11.1
12	1.14E+08	122	7.76E+05	1835	0.	
14	1.44E+08	142	1.33E+05	2132	0.	FROSTPOINT
16	9.87E+07	161	1.06E+05	2429	0.	-23.9
18	8.35E+07	181	1.43E+05	2726	0.	
20	3.04E+07	201	6.25E+04	3023	0.	TAS (M/S)
22	2.28E+07	221	0.	3320	0.	120.5
24	2.28E+07	241	3.82E+04	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	7.59E+06	280	0.	4211	0.	330326.7
30	2.28E+07	300	0.	4508	0.	
						TOTALS
LWC	3.66E-03		8.33E-02		0.	8.33E-02
MED D	18		116		0	116

SAMPLE: 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:35:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	3.85E+07	23	1.11E+07	404	0.	ALT (KM)
4	6.89E+07	43	1.05E+07	647	0.	4.847
6	9.92E+07	62	7.14E+06	944	0.	
8	2.86E+08	82	3.97E+06	1241	0.	TEMP (C)
10	2.53E+08	102	1.77E+06	1538	0.	-11.1
12	1.98E+08	122	9.63E+05	1835	0.	
14	1.45E+08	142	2.59E+05	2132	0.	FROSTPOINT
16	1.07E+08	161	2.93E+05	2429	0.	-23.9
18	1.14E+08	181	1.72E+05	2726	0.	
20	9.9JE+07	201	3.13E+04	3023	0.	TAS (M/S)
22	3.65E+07	221	3.45E+04	3320	0.	126.1
24	4.57E+07	241	0.	3617	0.	
26	2.28E+07	260	0.	3914	0.	NT (N/M3)
28	2.29E+07	280	0.	4211	0.	774439.7
30	0.	300	0.	4508	0.	
						TOTALS
LWC	5.23E-03		1.13E-01		0.	1.03E-01
MED D	19		115		0	115

SAMPLE: 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:35:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	7.56E+07	23	2.78E+07	404	0.	ALT (KM)
4	2.68E+08	43	1.32E+07	647	0.	4.845
6	7.23E+08	62	6.82E+06	944	0.	
8	1.46E+09	82	3.93E+06	1241	0.	TEMP (C)
10	1.31E+09	102	1.45E+06	1538	0.	-11.2
12	1.05E+09	122	7.42E+05	1835	0.	
14	8.58E+08	142	2.68E+05	2132	0.	FROSTPOINT
16	7.23E+08	161	2.41E+05	2429	0.	-23.9
18	6.97E+08	181	9.67E+04	2726	0.	
20	6.44E+08	201	3.45E+04	3023	0.	TAS (M/S)
22	2.91E+08	221	3.47E+04	3320	0.	119.4
24	1.53E+08	241	3.35E+04	3617	0.	
26	1.07E+08	260	0.	3914	0.	NT (N/M3)
28	2.38E+07	280	0.	4211	0.	520878.6
30	2.33E+07	300	0.	4508	0.	
						TOTALS
LWC	2.89E-02		1.20E-01		0.	1.20E-01
MED D	19		190		0	190

SAMPLE: 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:35:73
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	3.63E+07	23	1.55E+07	404	0.	ALT (KM)
4	1.07E+08	43	1.66E+07	647	0.	4.845
6	3.36E+08	62	4.45E+06	944	0.	
8	7.73E+08	82	2.44E+06	1241	0.	TEMP (C)
10	6.71E+08	102	1.77E+06	1538	0.	-11.1
12	5.42E+08	122	4.92E+05	1835	0.	
14	2.75E+08	142	4.32E+05	2132	0.	FROSTPOINT
16	3.81E+08	161	1.80E+05	2429	0.	-23.9
18	4.27E+08	181	1.15E+05	2726	0.	
20	2.75E+08	201	2.92E+05	3023	0.	TAS (M/S)
22	2.46E+08	221	6.30E+04	3320	0.	126.0
24	1.53E+08	241	7.57E+04	3617	0.	
26	4.>9E+07	260	0.	3914	0.	NT (N/M3)
28	3.81E+07	280	0.	4211	0.	537285.9
30	0.	300	0.	4508	0.	
						TOTALS
LWC	1.61E-02		1.12E-01		0.	1.42E-01
MED D	19		131		0	131

SAMPLE: 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:35:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	1.15E+08	23	1.78E+07	404	1.65E+04	ALT (KM)
4	3.15E+08	43	1.41E+07	647	0.	4.845
6	9.21E+08	62	6.61E+06	944	0.	
8	2.48E+09	82	3.53E+06	1241	0.	TEMP (C)
10	1.67E+09	102	1.84E+06	1538	0.	-11.3
12	1.31E+09	122	1.28E+06	1835	0.	
14	9.67E+08	142	5.28E+05	2132	0.	FROSTPOINT
16	9.29E+08	161	2.41E+05	2429	0.	-24.0
18	9.83E+08	181	9.13E+04	2726	0.	
20	7.68E+08	201	6.32E+04	3023	0.	TAS (M/S)
22	5.14E+08	221	2.43E+05	3320	0.	119.2
24	2.92E+08	241	0.	3617	0.	
26	1.23E+08	260	1.55E+04	3914	0.	NT (N/M3)
28	6.91E+07	280	3.31E+04	4211	0.	569560.0
30	5.37E+07	300	2.36E+04	4508	0.	
						TOTALS
LWC	4.09E-02		1.86E-01		1.09E-31	2.99E-01
MED D	19		130		404	217

SAMPLE# 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-63 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 0P 35: 35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	7.69E+07	23	2.46E+07	404	7.24E+03	ALT (KM)
4	3.46E+08	43	1.97E+07	647	0.	4.845
6	8.15E+08	62	3.27E+06	944	0.	
8	1.63E+09	82	2.57E+06	1241	0.	TEMP (C)
10	1.18E+09	102	1.91E+06	1538	0.	-11.4
12	1.23E+09	122	7.44E+05	1835	0.	
14	7.93E+08	142	4.89E+05	2132	0.	FROSTPOINT
16	7.22E+08	161	1.38E+05	2429	0.	-24.9
18	9.37E+08	181	3.32E+05	2726	0.	
20	4.77E+08	201	6.36E+04	3023	0.	TAS (M/S)
22	4.69E+08	221	3.48E+04	3320	0.	119.9
24	2.31E+08	241	0.	3617	0.	
26	6.15E+07	261	7.24E+03	3914	0.	WT (N/M3)
28	3.84E+07	281	1.45E+04	4211	0.	679818.3
30	2.31E+07	301	1.45E+04	4508	0.	
						TOTALS
LWC	3.13E-02		1.47E-01		4.76E-02	1.95E-01
MED D	19		138		404	179

SAMPLE# 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-63 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 0P 35: 35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 900 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	7.71E+07	23	9.36E+07	404	0.	ALT (KM)
4	2.16E+08	43	1.58E+07	647	0.	4.847
6	6.79E+08	62	8.95E+06	944	0.	
8	1.68E+09	82	4.87E+06	1241	0.	TEMP (C)
10	1.36E+09	102	1.85E+06	1538	0.	-11.5
12	1.65E+09	122	1.84E+06	1835	0.	
14	1.08E+09	142	5.23E+05	2132	0.	FROSTPOINT
16	7.71E+08	161	4.31E+05	2429	0.	-24.1
18	6.71E+08	181	1.16E+05	2726	0.	
20	5.17E+08	201	2.22E+05	3023	0.	TAS (M/S)
22	4.63E+08	221	7.69E+04	3320	0.	118.6
24	2.55E+08	241	3.89E+04	3617	0.	
26	1.62E+08	261	0.	3914	0.	WT (N/M3)
28	7.71E+07	281	0.	4211	0.	679891.9
30	6.94E+07	301	0.	4508	0.	
						TOTALS
LWC	3.54E-02		1.79E-01		0.	1.79E-01
MED D	20		117		0	113

SAMPLE# 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-63 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 0P 35: 35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	1.69E+08	23	2.35E+07	404	1.65E+03	ALT (KM)
4	3.33E+08	43	1.97E+07	647	1.73E+01	4.846
6	9.24E+08	62	9.29E+06	944	0.	
8	1.98E+09	82	3.85E+06	1241	0.	TEMP (C)
10	1.53E+09	102	1.43E+06	1538	0.	-11.5
12	1.33E+09	122	1.28E+06	1835	0.	
14	1.13E+09	142	5.22E+05	2132	0.	FROSTPOINT
16	9.94E+08	161	4.57E+05	2429	0.	-24.8
18	9.55E+08	181	2.07E+05	2726	0.	
20	6.79E+08	201	1.27E+05	3023	0.	TAS (M/S)
22	6.19E+08	221	2.79E+05	3320	0.	118.8
24	2.77E+08	241	0.	3617	0.	
26	1.15E+08	261	8.38E+03	3914	0.	WT (N/M3)
28	4.62E+07	281	1.66E+04	4211	0.	717234.5
30	6.16E+07	301	1.15E+04	4508	0.	
						TOTALS
LWC	4.12E-02		1.36E-01		1.15E-02	2.07E-01
MED D	19		126		411	131

SAMPLE# 9

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-63 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 0P 35: 35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 900 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	1.46E+08	23	2.67E+07	404	1.79E+04	ALT (KM)
4	2.57E+08	43	1.78E+07	647	0.	4.847
6	1.12E+09	62	7.31E+06	944	0.	
8	2.41E+09	82	5.82E+06	1241	0.	TEMP (C)
10	2.28E+09	102	2.95E+06	1538	0.	-11.5
12	1.55E+09	122	1.44E+06	1835	0.	
14	1.37E+09	142	5.84E+05	2132	0.	FROSTPOINT
16	1.15E+09	161	3.21E+05	2429	0.	-24.1
18	1.25E+09	181	2.31E+05	2726	0.	
20	8.36E+08	201	1.89E+05	3023	0.	TAS (M/S)
22	6.98E+08	221	3.47E+04	3320	0.	119.9
24	3.53E+08	241	3.85E+04	3617	0.	
26	1.33E+08	261	3.71E+04	3914	0.	WT (N/M3)
28	1.07E+08	281	3.58E+04	4211	0.	681186.9
30	9.28E+07	301	3.28E+04	4508	0.	
						TOTALS
LWC	5.29E-02		2.12E-01		1.18E-01	3.38E-01
MED D	19		124		484	194

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#35141*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	2.3JE+08	23	2.23E+07	434	9.65E+13	ALT (KM)
4	4.92E+08	43	1.92E+07	647	0.	4.847
6	1.4JE+09	62	8.48E+06	944	0.	
8	2.95E+09	82	3.57E+06	1241	0.	TEMP (C)
10	2.7JE+09	102	9.48E+05	1538	0.	-11.6
12	2.15E+09	122	3.92E+05	1835	0.	
14	1.94E+09	142	5.53E+05	2132	0.	FROSTPOINT
16	1.33E+09	161	4.56E+05	2429	0.	-24.2
18	1.60E+09	181	1.45E+05	2726	0.	
20	1.65E+09	201	0.	3023	0.	TAS (M/S)
22	1.06E+09	221	3.46E+04	3320	0.	119.1
24	5.22E+08	241	7.72E+04	3617	0.	
26	3.15E+08	260	3.56E+04	3914	0.	NT (N/M3)
28	1.39E+08	280	1.33E+04	4211	0.	564593.1
30	1.61E+08	300	1.77E+04	4508	0.	
						TOTALS
LWC	7.43E-02		1.63E-01		6.35E-02	2.27E-01
MED D	20		127		404	162

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#35142*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.57E+08	23	1.36E+07	434	0.	ALT (KM)
4	7.31E+08	43	9.33E+06	647	0.	4.846
6	1.98E+09	62	4.60E+06	944	0.	
8	3.64E+09	82	2.58E+06	1241	0.	TEMP (C)
10	3.36E+09	102	8.68E+05	1538	0.	-11.6
12	2.89E+09	122	3.77E+05	1835	0.	
14	2.34E+09	142	4.28E+05	2132	0.	FROSTPOINT
16	2.03E+09	161	2.45E+05	2429	0.	-24.4
18	2.03E+09	181	1.76E+05	2726	0.	
20	1.83E+09	201	3.20E+04	3023	0.	TAS (M/S)
22	1.3+E+09	221	7.84E+04	3320	0.	117.6
24	1.02E+09	241	3.81E+04	3617	0.	
26	4.51E+08	261	0.	3914	0.	NT (N/M3)
28	1.63E+08	281	0.	4211	0.	758954.7
30	1.79E+08	300	0.	4508	0.	
						TOTALS
LWC	1.64E-01		1.43E-01		0.	1.63E-01
MED D	20		129		0	129

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#35141*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.23E+08	23	1.97E+07	434	7.26E+13	ALT (KM)
4	6.32E+08	43	1.24E+07	647	0.	4.846
6	1.76E+09	62	6.08E+06	944	0.	
8	3.46E+09	82	2.72E+06	1241	0.	TEMP (C)
10	3.73E+09	102	1.23E+06	1538	0.	-11.6
12	2.43E+09	122	1.48E+05	1835	0.	
14	2.38E+09	142	2.61E+05	2132	0.	FROSTPOINT
16	1.77E+09	161	1.35E+05	2429	0.	-24.7
18	2.05E+09	181	5.72E+04	2726	0.	
20	1.47E+09	201	6.34E+04	3023	0.	TAS (M/S)
22	1.33E+09	221	0.	3320	0.	118.7
24	7.03E+08	241	7.75E+04	3617	0.	
26	3.76E+08	260	7.35E+04	3914	0.	NT (N/M3)
28	2.23E+08	280	1.45E+04	4211	0.	479765.7
30	1.31E+08	300	1.30E+04	4508	0.	
						TOTALS
LWC	9.28E-02		1.28E-01		4.77E-02	1.76E-01
MED D	20		117		404	155

SAMPLE# 9 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F#35143*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 300 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.34E+08	23	1.25E+07	434	1.67E+13	ALT (KM)
4	8.11E+08	43	6.26E+06	647	1.77E+01	4.845
6	2.32E+09	62	3.32E+06	944	0.	
8	4.23E+09	82	1.83E+06	1241	0.	TEMP (C)
10	4.13E+09	102	6.50E+05	1538	0.	-11.6
12	3.13E+09	122	4.61E+05	1835	0.	
14	2.79E+09	142	1.38E+05	2132	0.	FROSTPOINT
16	2.00E+09	161	1.76E+05	2429	0.	-24.4
18	2.46E+09	181	8.82E+04	2726	0.	
20	1.59E+09	201	7.21E+04	3323	0.	TAS (M/S)
22	1.42E+09	221	3.57E+04	3320	0.	117.3
24	8.50E+08	241	7.94E+04	3617	0.	
26	5.46E+08	260	3.63E+04	3914	0.	NT (N/M3)
28	2.26E+08	280	1.68E+04	4211	0.	279193.5
30	1.79E+08	300	1.16E+04	4508	0.	
						TOTALS
LWC	1.07E-01		9.35E-02		1.17E-02	1.85E-01
MED D	20		140		411	160

SAMPLE: 1CA AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0°F 136:15°
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	1.56E+08	23	1.47E+07	404	1.53E+03	ALT (KM)
4	7.03E+08	43	1.37E+07	647	1.72E+01	4.846
6	1.72E+09	62	4.88E+06	944	0.	
8	3.36E+09	82	2.43E+06	1241	0.	TEMP (C)
10	3.66E+09	102	7.31E+05	1538	0.	-11.7
12	2.47E+09	122	5.02E+05	1835	0.	
14	2.17E+09	142	4.95E+05	2132	0.	FROSTPOINT
16	1.61E+09	161	2.44E+05	2429	0.	-25.6
18	2.21E+09	181	1.17E+05	2726	0.	
20	1.52E+09	201	3.20E+04	3023	0.	TAS (M/S)
22	1.33E+09	221	7.34E+04	3320	0.	117.6
24	8.71E+08	241	0.	3617	0.	
26	4.04E+08	260	7.37E+04	3914	0.	NT (N/M3)
28	1.55E+08	280	1.47E+04	4211	0.	650428.1
30	1.17E+08	300	1.47E+04	4508	0.	
						TOTALS
LWC	9.74E-02		1.31E-01		1.03E-06	1.12E-01
MED D	20		144		411	125

SAMPLE: 1CA AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0°F 136:17°
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	3.57E+08	23	2.03E+07	404	1.87E+01	ALT (KM)
4	6.03E+08	43	1.90E+07	647	1.72E+01	4.845
6	1.71E+09	62	9.61E+06	944	0.	
8	3.56E+09	82	4.40E+06	1241	0.	TEMP (C)
10	3.67E+09	102	1.37E+06	1538	0.	-11.5
12	3.13E+09	122	1.21E+06	1835	0.	
14	2.39E+09	142	9.58E+05	2132	0.	FROSTPOINT
16	1.93E+09	161	1.36E+05	2429	0.	-25.6
18	2.74E+09	181	2.64E+05	2726	0.	
20	1.81E+09	201	1.28E+05	3023	0.	TAS (M/S)
22	1.71E+09	221	3.61E+04	3320	0.	117.9
24	1.03E+09	241	3.91E+04	3617	0.	
26	7.22E+08	261	0.	3914	0.	NT (N/M3)
28	3.11E+08	281	0.	4211	0.	759518.9
30	2.83E+08	301	0.	4508	0.	
						TOTALS
LWC	1.22E-01		1.73E-01		7.93E-06	1.78E-01
MED D	21		139		537	189

SAMPLE: 1CA AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0°F 136:15°
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.99E+08	23	2.03E+07	404	8.79E+02	ALT (KM)
4	7.23E+08	43	1.57E+07	647	0.	4.846
6	1.87E+09	62	9.65E+06	944	0.	
8	3.73E+09	82	3.57E+06	1241	0.	TEMP (C)
10	3.39E+09	102	1.86E+06	1538	0.	-11.4
12	2.74E+09	122	9.63E+05	1835	0.	
14	2.16E+09	142	2.97E+05	2132	0.	FROSTPOINT
16	1.91E+09	161	2.44E+05	2429	0.	-25.6
18	2.10E+09	181	1.47E+05	2726	0.	
20	1.51E+09	201	6.40E+04	3023	0.	TAS (M/S)
22	1.41E+09	221	1.36E+05	3320	0.	117.6
24	8.64E+08	241	0.	3617	0.	
26	5.76E+08	260	8.59E+03	3914	0.	NT (N/M3)
28	1.94E+08	280	1.68E+04	4211	0.	647674.2
30	1.07E+08	300	1.50E+04	4508	0.	
						TOTALS
LWC	1.01E-01		1.55E-01		5.51E-02	2.10E-01
MED D	20		109		404	145

SAMPLE: 1CA AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0°F 136:19°
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 10 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	2.24E+08	23	2.56E+07	404	0.	ALT (KM)
4	7.03E+08	43	2.17E+07	647	0.	4.847
6	1.91E+09	62	1.27E+07	944	0.	
8	3.79E+09	82	5.55E+06	1241	0.	TEMP (C)
10	3.46E+09	102	3.11E+06	1538	0.	-11.7
12	2.89E+09	122	1.34E+06	1835	0.	
14	2.17E+09	142	5.63E+05	2132	0.	FROSTPOINT
16	1.96E+09	161	2.93E+05	2429	0.	-25.6
18	2.24E+09	181	1.76E+05	2726	0.	
20	1.71E+09	201	1.28E+05	3023	0.	TAS (M/S)
22	1.39E+09	221	7.04E+04	3320	0.	117.6
24	1.07E+09	241	0.	3617	0.	
26	5.21E+08	261	0.	3914	0.	NT (N/M3)
28	2.19E+08	281	0.	4211	0.	986838.1
30	1.73E+08	301	0.	4508	0.	
						TOTALS
LWC	1.07E-01		2.19E-01		0.	2.69E-01
MED D	20		102		0	182

SAMPLE# 10A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:36:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	2.35E+08	23	2.71E+07	404	7.33E+03	ALT (KM)
4	7.93E+08	43	2.41E+07	647	0.	4.845
6	2.04E+09	62	1.27E+07	944	0.	
8	4.01E+09	82	6.39E+06	1241	0.	TEMP (C)
10	3.63E+09	102	2.31E+06	1538	0.	-11.8
12	3.13E+09	122	1.80E+06	1835	0.	
14	2.18E+09	142	7.57E+05	2132	0.	FROSTPOINT
16	1.94E+09	161	4.89E+05	2429	0.	-25.6
18	2.29E+09	181	2.35E+05	2726	0.	
20	1.66E+09	201	1.78E+05	3023	0.	TAS (M/S)
22	1.41E+09	221	7.03E+04	3320	0.	117.7
24	8.24E+08	241	3.91E+04	3617	0.	
26	5.83E+08	260	2.39E+04	3914	0.	NT (N/M3)
28	2.55E+08	280	1.47E+04	4211	0.	971447.9
30	2.25E+08	300	1.31E+04	4508	0.	
						TOTALS
LWC	1.07E-01		2.47E-01		4.62E-02	2.95E-01
MED D	20		114		404	128

SAMPLE# 10A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:36:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	3.42E+08	23	1.81E+07	404	3.98E+03	ALT (KM)
4	9.71E+08	43	2.20E+07	647	1.72E+01	4.846
6	1.87E+09	62	1.28E+07	944	0.	
8	3.79E+09	82	5.93E+06	1241	0.	TEMP (C)
10	3.66E+09	102	2.05E+06	1538	0.	-12.0
12	2.93E+09	122	1.71E+06	1835	0.	
14	2.62E+09	142	9.23E+05	2132	0.	FROSTPOINT
16	1.98E+09	161	3.24E+05	2429	0.	-25.2
18	2.43E+09	181	1.46E+05	2726	0.	
20	1.53E+09	201	1.24E+05	3023	0.	TAS (M/S)
22	1.41E+09	221	3.52E+04	3320	0.	117.4
24	1.04E+09	241	7.81E+04	3617	0.	
26	6.45E+08	260	4.89E+04	3914	0.	NT (N/M3)
28	2.10E+08	280	6.17E+04	4211	0.	921949.7
30	1.94E+08	300	3.92E+04	4508	0.	
						TOTALS
LWC	1.11E-01		3.67E-01		2.64E-02	2.96E-01
MED D	20		120		407	128

SAMPLE# 10A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:36:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.98E+08	23	1.36E+07	404	0.	ALT (KM)
4	8.40E+08	43	2.17E+07	647	0.	4.846
6	1.91E+09	62	1.89E+07	944	0.	
8	3.81E+09	82	5.32E+06	1241	0.	TEMP (C)
10	3.44E+09	102	3.89E+06	1538	0.	-11.9
12	2.87E+09	122	1.34E+06	1835	0.	
14	2.25E+09	142	7.25E+05	2132	0.	FROSTPOINT
16	1.90E+09	161	4.89E+05	2429	0.	-25.5
18	2.05E+09	181	1.47E+05	2726	0.	
20	1.57E+09	201	2.98E+05	3023	0.	TAS (M/S)
22	1.35E+09	221	1.36E+05	3320	0.	117.6
24	9.88E+08	241	3.91E+04	3617	0.	
26	5.52E+08	260	0.	3914	0.	NT (N/M3)
28	2.57E+08	280	0.	4211	0.	874384.7
30	2.72E+08	300	0.	4508	0.	
						TOTALS
LWC	1.07E-01		2.45E-01		0.	2.45E-01
MED D	21		116		0	116

SAMPLE# 10A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:36:22*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	3.11E+08	23	1.05E+07	404	0.	ALT (KM)
4	9.32E+08	43	2.44E+07	647	0.	4.846
6	2.02E+09	62	1.34E+07	944	0.	
8	3.54E+09	82	6.14E+06	1241	0.	TEMP (C)
10	3.43E+09	102	2.65E+06	1538	0.	-12.1
12	2.59E+09	122	1.75E+06	1835	0.	
14	2.04E+09	142	6.95E+05	2132	0.	FROSTPOINT
16	1.73E+09	161	2.71E+05	2429	0.	-24.8
18	1.94E+09	181	2.33E+05	2726	0.	
20	1.42E+09	201	1.28E+05	3023	0.	TAS (M/S)
22	1.23E+09	221	1.15E+05	3320	0.	117.8
24	9.40E+08	241	0.	3617	0.	
26	5.36E+08	260	0.	3914	0.	NT (N/M3)
28	2.49E+08	280	0.	4211	0.	926038.2
30	1.61E+08	300	0.	4508	0.	
						TOTALS
LWC	9.79E-02		2.92E-01		0.	2.22E-01
MED D	21		108		0	108

SAMPLE: 10A AFETC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	2.72E+08	23	2.37E+07	404	2.54E+04	ALT (KM)
4	7.33E+08	43	1.42E+07	647	0.	4.847
6	1.68E+09	62	8.53E+06	944	0.	
8	3.42E+09	82	5.37E+06	1241	0.	TEMP (C)
10	3.11E+09	102	1.75E+06	1538	0.	-12.1
12	2.59E+09	122	1.39E+06	1835	0.	
14	2.17E+09	142	9.22E+05	2132	0.	FROSTPOINT
16	1.76E+09	161	2.36E+05	2429	0.	-24.4
18	1.68E+09	181	3.31E+05	2726	0.	
20	1.45E+09	201	9.53E+04	3023	0.	TAS (M/S)
22	1.15E+09	221	1.76E+05	3320	0.	117.8
24	8.54E+08	241	1.56E+05	3617	0.	
26	4.27E+08	260	3.31E+04	3914	0.	NT (N/M3)
28	2.43E+08	281	5.19E+04	4211	0.	693647.6
30	1.71E+08	300	4.36E+04	4508	0.	
						TOTALS
LWC	9.33E-02		2.73E-01		1.57E-01	4.40E-01
MED D	20		145		404	240

SAMPLE: 10A AFETC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.56E+08	23	1.35E+07	404	7.91E+03	ALT (KM)
4	7.32E+08	43	1.39E+07	647	0.	4.846
6	1.47E+09	62	7.79E+06	944	0.	
8	2.95E+09	82	3.98E+06	1241	0.	TEMP (C)
10	2.54E+09	102	1.80E+06	1538	0.	-12.1
12	1.95E+09	122	1.18E+06	1835	0.	
14	1.67E+09	142	4.58E+05	2132	0.	FROSTPOINT
16	1.19E+09	161	2.44E+05	2429	0.	-23.9
18	1.69E+09	181	1.75E+05	2726	0.	
20	9.85E+08	201	9.57E+04	3023	0.	TAS (M/S)
22	9.46E+08	221	0.	3320	0.	118.8
24	6.62E+08	241	0.	3617	0.	
26	3.19E+08	260	7.31E+03	3914	0.	NT (N/M3)
28	1.86E+08	281	1.46E+04	4211	0.	567264.9
30	1.09E+08	300	1.31E+04	4508	0.	
						TOTALS
LWC	7.15E-02		1.50E-01		4.83E-02	1.98E-01
MED D	20		113		404	133

SAMPLE: 10A AFETC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	2.73E+08	23	2.37E+07	404	7.32E+03	ALT (KM)
4	7.06E+08	43	1.36E+07	647	0.	4.847
6	1.48E+09	62	1.13E+07	944	0.	
8	2.93E+09	82	4.14E+06	1241	0.	TEMP (C)
10	2.72E+09	102	1.97E+06	1538	0.	-12.1
12	2.03E+09	122	1.42E+06	1835	0.	
14	1.63E+09	142	6.87E+05	2132	0.	FROSTPOINT
16	1.63E+09	161	6.23E+05	2429	0.	-24.1
18	1.58E+09	181	2.53E+05	2726	0.	
20	1.18E+09	201	1.29E+05	3023	0.	TAS (M/S)
22	1.28E+09	221	1.40E+05	3320	0.	117.9
24	7.14E+08	241	1.17E+05	3617	0.	
26	4.55E+08	260	4.14E+04	3914	0.	NT (N/M3)
28	1.32E+08	281	1.46E+04	4211	0.	512065.2
30	1.71E+08	300	1.31E+04	4508	0.	
						TOTALS
LWC	8.20E-02		2.52E-01		4.81E-02	3.11E-01
MED D	21		133		404	148

SAMPLE: 10A AFETC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:26
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	1.16E+08	23	1.46E+07	404	4.38E+04	ALT (KM)
4	5.65E+08	43	1.34E+07	647	0.	4.845
6	1.02E+09	62	5.03E+06	944	0.	
8	2.04E+09	82	2.65E+06	1241	0.	TEMP (C)
10	2.02E+09	102	1.30E+06	1538	0.	-11.9
12	1.60E+09	122	9.16E+05	1835	0.	
14	1.16E+09	142	5.90E+05	2132	0.	FROSTPOINT
16	1.20E+09	161	3.51E+05	2429	0.	-23.8
18	1.18E+09	181	4.75E+04	2726	0.	
20	7.43E+08	201	1.59E+05	3023	0.	TAS (M/S)
22	7.12E+08	221	3.50E+04	3320	0.	118.2
24	5.73E+08	241	3.89E+04	3617	0.	
26	2.71E+08	260	5.58E+04	3914	0.	NT (N/M3)
28	1.08E+08	281	7.99E+04	4211	0.	546321.1
30	6.97E+07	300	7.15E+04	4508	0.	
						TOTALS
LWC	5.50E-02		1.91E-01		2.63E-01	4.54E-01
MED D	20		148		404	336

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	1.71E+08	23	1.35E+07	404	7.31E+03	ALT (KM)
4	6.36E+08	43	1.30E+07	647	0.	4.843
6	1.18E+09	62	5.70E+06	944	0.	
8	2.33E+09	82	3.31E+06	1241	0.	TEMP (C)
10	2.11E+09	102	1.59E+06	1538	0.	-11.6
12	1.43E+09	122	1.00E+06	1835	0.	
14	1.34E+09	142	3.34E+05	2132	0.	FROSTPOINT
16	9.46E+08	161	4.33E+05	2429	0.	-24.1
18	1.11E+09	181	1.75E+05	2726	0.	
20	8.22E+08	201	1.28E+05	3023	0.	TAS (M/S)
22	6.44E+08	221	7.12E+04	3320	0.	118.0
24	4.11E+08	241	7.90E+04	3617	0.	
26	2.09E+08	261	3.38E+04	3914	0.	NT (N/M3)
28	1.01E+08	280	1.46E+04	4211	0.	527860.7
30	9.31E+07	300	1.31E+04	4508	0.	
						TOTALS
LWC	5.09E-02		1.73E-01		4.81E-02	2.21E-01
MED D	20		130		404	163

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	2.02E+08	23	1.81E+07	404	9.77E+03	ALT (KM)
4	5.13E+08	43	1.78E+07	647	0.	4.842
6	1.32E+09	62	9.07E+06	944	0.	
8	2.39E+09	82	4.24E+06	1241	0.	TEMP (C)
10	2.05E+09	102	2.03E+06	1538	0.	-11.6
12	1.43E+09	122	1.63E+06	1835	0.	
14	1.17E+09	142	4.34E+05	2132	0.	FROSTPOINT
16	8.87E+08	161	3.24E+05	2429	0.	-24.2
18	1.03E+09	181	1.76E+05	2726	0.	
20	9.49E+08	201	6.40E+04	3023	0.	TAS (M/S)
22	7.62E+08	221	1.06E+05	3320	0.	117.6
24	4.82E+08	241	1.17E+05	3617	0.	
26	3.11E+08	261	4.79E+04	3914	0.	NT (N/M3)
28	1.48E+08	280	1.95E+04	4211	0.	718105.4
30	1.43E+08	300	1.75E+04	4508	0.	
						TOTALS
LWC	5.73E-02		2.12E-01		6.43E-02	2.76E-01
MED D	21		123		404	157

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	2.34E+08	23	2.38E+07	404	8.48E+03	ALT (KM)
4	6.16E+08	43	1.92E+07	647	0.	4.843
6	1.32E+09	62	9.43E+06	944	0.	
8	2.85E+09	82	4.91E+06	1241	0.	TEMP (C)
10	2.46E+09	102	2.26E+06	1538	0.	-11.7
12	2.03E+09	122	1.64E+06	1835	0.	
14	1.62E+09	142	7.92E+05	2132	0.	FROSTPOINT
16	1.11E+09	161	4.63E+05	2429	0.	-24.2
18	1.33E+09	181	2.65E+05	2726	0.	
20	1.26E+09	201	1.28E+05	3023	0.	TAS (M/S)
22	1.01E+09	221	0.	3320	0.	117.4
24	6.94E+08	241	1.57E+05	3617	0.	
26	3.12E+08	260	5.13E+04	3914	0.	NT (N/M3)
28	1.17E+08	280	1.68E+04	4211	0.	753734.3
30	1.49E+08	300	1.50E+04	4508	0.	
						TOTALS
LWC	7.06E-02		2.39E-01		6.52E-02	2.94E-01
MED D	20		127		404	148

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	1.95E+08	23	2.26E+07	404	1.09E+01	ALT (KM)
4	5.92E+08	43	1.90E+07	647	1.72E+01	4.843
6	1.35E+09	62	8.79E+06	944	0.	
8	2.67E+09	82	4.37E+06	1241	0.	TEMP (C)
10	2.33E+09	102	2.20E+06	1538	0.	-11.7
12	1.76E+09	122	9.63E+05	1835	0.	
14	1.46E+09	142	6.59E+05	2132	0.	FROSTPOINT
16	1.26E+09	161	4.88E+05	2429	0.	-24.3
18	1.14E+09	181	1.47E+05	2726	0.	
20	1.10E+09	201	1.92E+05	3023	0.	TAS (M/S)
22	8.56E+08	221	7.04E+04	3320	0.	117.6
24	5.76E+08	241	7.83E+04	3617	0.	
26	2.26E+08	260	0.	3914	0.	NT (N/M3)
28	1.56E+08	280	0.	4211	0.	725281.6
30	1.01E+08	300	0.	4508	0.	
						TOTALS
LWC	6.28E-02		1.91E-01		7.93E-04	1.92E-01
MED D	20		118		693	118

SAMPLE: 108 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	1.48E+08	23	1.92E+07	404	2.55E+04	ALT (KM)
4	5.37E+08	43	1.55E+07	647	0.	4.846
6	1.17E+09	62	9.65E+06	944	0.	
8	2.46E+09	82	3.90E+06	1241	0.	TEMP (C)
10	1.91E+09	102	2.77E+06	1538	0.	-11.8
12	1.52E+09	122	1.76E+06	1835	0.	
14	1.13E+09	142	6.92E+05	2132	0.	FROSTPOINT
16	1.08E+09	161	3.99E+05	2429	0.	-24.3
18	1.25E+09	181	1.47E+05	2726	0.	
20	8.94E+08	201	1.28E+05	3023	0.	TAS (M/S)
22	9.53E+08	221	7.84E+04	3320	0.	117.7
24	4.67E+08	241	3.91E+04	3617	0.	
26	2.57E+08	260	4.44E+04	3914	0.	NT (N/M3)
28	1.43E+08	280	5.16E+04	4211	0.	680527.7
30	1.63E+08	300	4.36E+04	4508	0.	
						TOTALS
LWC	5.96E-02		2.29E-01		1.67E-01	3.96E-01
MED D	20		125		404	255

SAMPLE: 108 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	1.24E+08	23	2.68E+07	404	1.52E+03	ALT (KM)
4	4.51E+08	43	1.36E+07	647	1.72E+01	4.847
6	1.45E+09	62	1.17E+07	944	0.	
8	2.28E+09	82	4.48E+06	1241	0.	TEMP (C)
10	1.72E+09	102	2.71E+06	1538	0.	-11.8
12	1.46E+09	122	1.34E+06	1835	0.	
14	1.06E+09	142	5.93E+05	2132	0.	FROSTPOINT
16	9.49E+08	161	4.62E+05	2429	0.	-24.4
18	1.13E+09	181	2.05E+05	2726	0.	
20	8.24E+08	201	2.24E+05	3023	0.	TAS (M/S)
22	7.09E+08	221	0.	3320	0.	117.7
24	5.60E+08	241	3.91E+04	3617	0.	
26	2.10E+08	260	2.99E+04	3914	0.	NT (N/M3)
28	7.78E+07	280	1.47E+04	4211	0.	820747.7
30	1.01E+08	300	1.32E+04	4508	0.	
						TOTALS
LWC	5.23E-02		2.14E-01		1.08E-02	2.29E-01
MED D	20		114		411	118

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	1.41E+08	23	2.14E+07	404	0.	ALT (KM)
4	4.29E+08	43	2.05E+07	647	0.	4.847
6	1.03E+09	62	1.03E+07	944	0.	
8	1.88E+09	82	5.73E+06	1241	0.	TEMP (C)
10	1.57E+09	102	2.49E+06	1538	0.	-11.8
12	1.23E+09	122	1.17E+06	1835	0.	
14	1.05E+09	142	4.94E+05	2132	0.	FROSTPOINT
16	8.08E+08	161	3.53E+05	2429	0.	-24.4
18	1.04E+09	181	1.48E+05	2726	0.	
20	7.54E+08	201	3.20E+04	3023	0.	TAS (M/S)
22	5.91E+08	221	1.15E+05	3320	0.	117.8
24	3.69E+08	241	0.	3617	0.	
26	2.49E+08	260	0.	3914	0.	NT (N/M3)
28	8.55E+07	280	0.	4211	0.	818088.8
30	5.44E+07	300	0.	4508	0.	
						TOTALS
LWC	4.59E-02		1.84E-01		0.	1.84E-01
MED D	20		101		0	101

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	1.17E+08	23	2.47E+07	404	1.71E+14	ALT (KM)
4	4.43E+08	43	1.96E+07	647	0.	4.849
6	9.56E+08	62	1.10E+07	944	0.	
8	1.64E+09	82	5.39E+06	1241	0.	TEMP (C)
10	1.76E+09	102	2.53E+06	1538	0.	-11.8
12	1.12E+09	122	1.25E+06	1835	0.	
14	9.96E+08	142	6.31E+05	2132	0.	FROSTPOINT
16	8.47E+08	161	4.51E+05	2429	0.	-24.4
18	1.03E+09	181	1.17E+05	2726	0.	
20	8.70E+08	201	3.26E+04	3023	0.	TAS (M/S)
22	8.08E+08	221	0.	3320	0.	117.9
24	5.52E+08	241	7.51E+04	3617	0.	
26	2.25E+08	260	5.17E+04	3914	0.	NT (N/M3)
28	1.32E+08	280	3.42E+04	4211	0.	810666.8
30	1.09E+08	300	3.36E+04	4508	0.	
						TOTALS
LWC	5.33E-02		2.17E-01		1.12E-01	3.26E-01
MED D	21		116		404	168

SAMPLE: 189 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	1.63E+08	23	1.81E+07	404	0.
4	4.98E+08	43	2.14E+07	647	0.
6	1.17E+09	62	8.37E+06	944	0.
8	1.84E+09	82	5.55E+06	1241	0.
10	1.57E+09	102	2.26E+06	1538	0.
12	1.29E+09	122	9.63E+05	1835	0.
14	1.15E+09	142	5.53E+05	2132	0.
16	9.26E+08	161	5.16E+05	2429	0.
18	1.03E+09	181	1.76E+05	2726	0.
20	8.48E+08	201	7.24E+04	3023	0.
22	5.53E+08	221	3.52E+04	3320	0.
24	4.20E+08	241	3.91E+04	3617	0.
26	2.41E+08	260	0.	3914	0.
28	1.01E+08	280	0.	4211	0.
30	7.73E+07	300	0.	4508	0.
LWC	4.81E-02		1.92E-01		0.
MED D	20		104		0

P (MB) 551.1
ALT (KM) 4.849
TEMP (C) -11.8
FROSTPOINT -24.4
TAS (M/S) 117.6
NT (N/M3) 792637.9
TOTALS 1.82E-01 194

SAMPLE: 189 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	9.35E+07	23	1.70E+07	404	7.36E+03
4	1.79E+08	43	1.76E+07	647	0.
6	5.39E+08	62	8.34E+06	944	0.
8	1.07E+09	82	4.24E+06	1241	0.
10	1.48E+09	102	2.15E+06	1538	0.
12	6.39E+08	122	7.97E+05	1835	0.
14	5.22E+08	142	4.95E+05	2132	0.
16	5.63E+08	161	1.63E+05	2429	0.
18	5.84E+08	181	7.34E+04	2726	0.
20	3.82E+08	201	9.62E+04	3023	0.
22	3.93E+08	221	7.53E+04	3320	0.
24	2.65E+08	241	7.87E+04	3617	0.
26	1.56E+08	260	3.39E+04	3914	0.
28	1.47E+07	280	1.47E+04	4211	0.
30	3.12E+07	300	1.32E+04	4508	0.
LWC	2.91E-02		1.65E-01		4.83E-02
MED D	21		103		404

P (MB) 551.2
ALT (KM) 4.847
TEMP (C) -11.7
FROSTPOINT -24.5
TAS (M/S) 117.4
NT (N/M3) 587824.1
TOTALS 2.13E-01 135

SAMPLE: 189 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	1.59E+07	23	1.67E+07	404	7.36E+03
4	3.04E+08	43	1.54E+07	647	0.
6	6.79E+08	62	6.44E+06	944	0.
8	1.19E+09	82	4.42E+06	1241	0.
10	9.05E+08	102	2.27E+06	1538	0.
12	7.76E+08	122	1.34E+06	1835	0.
14	5.54E+08	142	6.34E+05	2132	0.
16	3.82E+08	161	1.31E+05	2429	0.
18	5.39E+08	181	2.06E+05	2726	0.
20	2.73E+08	201	9.63E+04	3023	0.
22	3.59E+08	221	1.41E+05	3320	0.
24	3.04E+08	241	3.92E+04	3617	0.
26	9.37E+07	260	2.48E+04	3914	0.
28	9.37E+07	280	1.47E+04	4211	0.
30	1.56E+07	300	1.32E+04	4508	0.
LWC	2.51E-02		1.93E-01		4.84E-02
MED D	21		122		404

P (MB) 551.1
ALT (KM) 4.849
TEMP (C) -11.9
FROSTPOINT -24.4
TAS (M/S) 117.2
NT (N/M3) 640879.7
TOTALS 2.41E-01 142

SAMPLE: 189 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	3.90E+07	23	5.64E+06	404	0.
4	1.56E+08	43	9.53E+06	647	0.
6	3.44E+08	62	4.75E+06	944	0.
8	6.00E+08	82	2.33E+06	1241	0.
10	5.22E+08	102	1.19E+06	1538	0.
12	4.29E+08	122	5.45E+05	1835	0.
14	3.74E+08	142	3.53E+05	2132	0.
16	2.95E+08	161	1.86E+05	2429	0.
18	3.12E+08	181	1.47E+05	2726	0.
20	2.96E+08	201	1.60E+05	3023	0.
22	2.19E+08	221	1.76E+05	3320	0.
24	2.26E+08	241	0.	3617	0.
26	7.80E+07	260	0.	3914	0.
28	7.81E+06	280	0.	4211	0.
30	1.56E+07	300	0.	4508	0.
LWC	1.65E-02		1.23E-01		0.
MED D	20		131		0

P (MB) 551.1
ALT (KM) 4.849
TEMP (C) -11.6
FROSTPOINT -24.5
TAS (M/S) 117.4
NT (N/M3) 396449.5
TOTALS 1.26E-01 171

SAMPLE: 108 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	7.78E+06	23	4.32E+06	404	9.79E+03	ALT (KM)
4	5.45E+07	43	9.32E+06	647	0.	4.850
6	1.48E+08	62	7.77E+06	944	0.	
8	1.63E+08	82	1.93E+06	1241	0.	TEMP (C)
10	1.09E+08	102	1.36E+06	1538	0.	-11.5
12	1.32E+08	122	6.70E+05	1835	0.	
14	9.34E+07	142	3.80E+05	2132	0.	FROSTPOINT
16	9.34E+07	161	2.26E+05	2429	0.	-24.5
18	5.45E+07	181	1.76E+05	2726	0.	
20	7.78E+07	201	1.50E+05	3023	0.	TAS (M/S)
22	7.79E+07	221	7.34E+04	3320	0.	117.6
24	3.89E+07	241	0.	3617	0.	
26	5.45E+07	260	3.78E+04	3914	0.	NT (N/M3)
28	2.33E+07	280	1.96E+04	4211	0.	463275.6
30	0.	300	1.75E+04	4508	0.	
						TOTALS
LWC	5.13E-03		1.25E-01		6.43E-02	1.89E-01
MED D	22		143		404	195

SAMPLE: 108 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	7.83E+07	23	1.48E+07	404	0.	ALT (KM)
4	2.27E+08	43	1.29E+07	647	0.	4.849
6	4.62E+08	62	5.90E+06	944	0.	
8	5.72E+08	82	2.10E+06	1241	0.	TEMP (C)
10	5.64E+08	102	1.31E+06	1538	0.	-11.4
12	4.31E+08	122	8.85E+05	1835	0.	
14	3.21E+08	142	5.64E+05	2132	0.	FROSTPOINT
16	2.58E+08	161	3.81E+05	2429	0.	-24.5
18	3.52E+08	181	1.77E+05	2726	0.	
20	2.43E+08	201	1.29E+05	3023	0.	TAS (M/S)
22	2.44E+08	221	1.06E+05	3320	0.	116.8
24	1.64E+08	241	0.	3617	0.	
26	1.17E+08	260	0.	3914	0.	NT (N/M3)
28	2.75E+07	280	0.	4211	0.	581733.3
30	2.35E+07	300	0.	4508	0.	
						TOTALS
LWC	1.63E-02		1.49E-01		0.	1.42E-01
MED D	21		124		0	124

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	5.45E+07	23	1.07E+07	404	1.71E+04	ALT (KM)
4	7.73E+07	43	9.23E+06	647	0.	4.849
6	1.56E+08	62	5.37E+06	944	0.	
8	3.74E+08	82	3.83E+06	1241	0.	TEMP (C)
10	3.04E+08	102	1.36E+06	1538	0.	-11.4
12	1.99E+08	122	5.45E+05	1835	0.	
14	1.25E+08	142	3.63E+05	2132	0.	FROSTPOINT
16	1.32E+08	161	1.90E+05	2429	0.	-24.5
18	1.32E+08	181	9.08E+04	2726	0.	
20	8.57E+07	201	9.52E+04	3023	0.	TAS (M/S)
22	5.45E+07	221	0.	3320	0.	117.4
24	4.68E+07	241	3.32E+04	3617	0.	
26	2.34E+07	260	3.66E+04	3914	0.	NT (N/M3)
28	2.34E+07	280	3.43E+04	4211	0.	422692.8
30	7.79E+06	300	3.37E+04	4508	0.	
						TOTALS
LWC	5.97E-03		1.38E-01		1.13E-01	2.43E-01
MED D	19		122		404	298

SAMPLE: 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:36:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 19 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	6.24E+07	23	2.26E+07	404	0.	ALT (KM)
4	2.34E+08	43	1.34E+07	647	0.	4.849
6	5.38E+08	62	8.39E+06	944	0.	
8	9.67E+08	82	4.50E+06	1241	0.	TEMP (C)
10	9.59E+08	102	2.26E+06	1538	0.	-11.4
12	6.84E+08	122	1.47E+06	1835	0.	
14	4.83E+08	142	6.60E+05	2132	0.	FROSTPOINT
16	4.91E+08	161	3.55E+05	2429	0.	-24.5
18	3.59E+08	181	2.35E+05	2726	0.	
20	4.21E+08	201	1.92E+05	3023	0.	TAS (M/S)
22	3.12E+08	221	1.16E+05	3320	0.	117.4
24	1.79E+08	241	3.32E+04	3617	0.	
26	9.35E+07	260	0.	3914	0.	NT (N/M3)
28	3.90E+07	280	0.	4211	0.	684975.6
30	1.56E+07	300	0.	4508	0.	
						TOTALS
LWC	2.15E-02		2.82E-01		0.	2.82E-01
MED D	20		128		0	128

SAMPLE# 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F136149*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 19 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	1.25E+08	23	1.25E+07	404	0.
4	3.03E+08	43	2.19E+07	647	0.
6	7.99E+08	62	1.22E+07	944	0.
8	1.59E+09	82	4.43E+06	1241	0.
10	1.42E+09	102	2.39E+06	1538	0.
12	1.69E+09	122	1.26E+06	1835	0.
14	7.98E+08	142	8.98E+05	2132	0.
16	7.55E+08	161	3.42E+05	2429	0.
18	6.65E+08	181	1.14E+05	2726	0.
20	6.96E+08	201	9.65E+04	3023	0.
22	5.01E+08	221	7.08E+04	3320	0.
24	4.54E+08	241	1.37E+05	3617	0.
26	2.11E+08	260	0.	3914	0.
28	7.44E+07	280	0.	4211	0.
30	5.47E+07	300	0.	4508	0.
LWC	3.99E-02		2.11E-01		0.
MED D	20		114		0

	P (MB)
	551.1
ALT (KM)	4.849
TEMP (C)	-11.5
FROSTPOINT	-24.5
TAS (M/S)	117.0
NT (N/M3)	845832.9
TOTALS	2.11E-01
	114

SAMPLE# 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F136149*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	1.74E+08	23	1.26E+07	404	7.44E+03
4	6.13E+08	43	1.59E+07	647	0.
6	1.17E+09	62	5.65E+06	944	0.
8	2.24E+09	82	4.05E+06	1241	0.
10	2.20E+09	102	2.12E+06	1538	0.
12	1.34E+09	122	1.07E+06	1835	0.
14	1.23E+09	142	8.59E+05	2132	0.
16	1.03E+09	161	2.49E+05	2429	0.
18	1.32E+09	181	1.19E+05	2726	0.
20	1.07E+09	201	1.22E+05	3023	0.
22	8.52E+08	221	1.47E+05	3320	0.
24	6.09E+08	241	7.97E+04	3617	0.
26	3.65E+08	260	7.44E+04	3914	0.
28	2.63E+08	280	1.49E+04	4211	0.
30	1.81E+08	300	1.33E+04	4508	0.
LWC	6.84E-02		1.36E-01		4.99E-12
MED D	21		130		404

	P (MB)
	551.8
ALT (KM)	4.850
TEMP (C)	-11.7
FROSTPOINT	-24.5
TAS (M/S)	116.9
NT (N/M3)	542476.4
TOTALS	2.45E-01
	149

SAMPLE# 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F136149*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	1.97E+08	23	2.52E+07	404	1.47E+03
4	5.83E+08	43	1.93E+07	647	1.74E+01
6	1.15E+09	62	1.03E+07	944	0.
8	2.37E+09	82	4.14E+06	1241	0.
10	2.03E+09	102	2.38E+06	1538	0.
12	1.63E+09	122	1.53E+06	1835	0.
14	1.43E+09	142	7.65E+05	2132	0.
16	1.45E+09	161	5.34E+05	2429	0.
18	1.44E+09	181	2.38E+05	2726	0.
20	9.47E+08	201	2.59E+05	3023	0.
22	8.83E+08	221	3.57E+04	3320	0.
24	5.99E+08	241	7.97E+04	3617	0.
26	3.47E+08	260	3.96E+04	3914	0.
28	1.73E+08	280	1.98E+04	4211	0.
30	9.67E+07	300	1.36E+04	4508	0.
LWC	6.22E-02		2.52E-01		1.33E-12
MED D	21		126		410

	P (MB)
	551.1
ALT (KM)	4.849
TEMP (C)	-11.6
FROSTPOINT	-24.5
TAS (M/S)	116.0
NT (N/M3)	807867.8
TOTALS	2.65E-01
	171

SAMPLE# 109 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0F136149*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 300 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE
2	2.65E+08	23	9.71E+06	404	7.42E+03
4	7.81E+08	43	9.43E+06	647	0.
6	1.31E+09	62	4.34E+06	944	0.
8	2.69E+09	82	3.34E+06	1241	0.
10	2.47E+09	102	1.77E+06	1538	0.
12	1.97E+09	122	9.13E+05	1835	0.
14	1.31E+09	142	7.57E+05	2132	0.
16	1.24E+09	161	1.37E+05	2429	0.
18	1.33E+09	181	1.78E+05	2726	0.
20	1.18E+09	201	6.48E+04	3023	0.
22	9.78E+08	221	2.14E+05	3320	0.
24	6.35E+08	241	7.92E+04	3617	0.
26	4.57E+08	260	3.43E+04	3914	0.
28	2.97E+08	280	2.49E+04	4211	0.
30	1.26E+08	300	1.93E+04	4508	0.
LWC	7.23E-02		1.46E-01		4.89E-12
MED D	21		143		404

	P (MB)
	551.1
ALT (KM)	4.849
TEMP (C)	-11.7
FROSTPOINT	-24.5
TAS (M/S)	116.2
NT (N/M3)	583454.5
TOTALS	1.95E-01
	211

SAMPLE# 11 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00:38:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	7.61E+08	23	4.65E+07	404	3.62E+04	ALT (KM)
4	1.14E+09	43	3.24E+07	647	0.	4.842
6	3.13E+09	62	1.72E+07	944	0.	
8	5.76E+09	82	6.76E+06	1241	0.	TEMP (C)
10	5.15E+09	102	3.92E+06	1538	0.	-12.2
12	4.04E+09	122	2.81E+06	1835	0.	
14	3.43E+09	142	9.69E+05	2132	0.	FROSTPOINT
16	2.62E+09	161	5.33E+05	2429	0.	-26.4
18	2.05E+09	181	2.16E+05	2726	0.	
20	1.98E+09	201	2.21E+05	3023	0.	TAS (M/S)
22	1.94E+09	221	1.73E+05	3320	0.	119.9
24	1.22E+09	241	7.57E+04	3617	0.	
26	6.33E+08	260	2.43E+04	3914	0.	NT (N/M3)
28	1.91E+08	280	7.19E+04	4211	0.	1279972.4
30	2.37E+08	300	6.44E+04	4508	0.	
						TOTALS
LWC	1.36E-01		3.50E-01		2.36E-01	6.62E-01
MED D	28		125		404	225

SAMPLE# 11 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00:38:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	4.27E+08	23	6.87E+07	404	3.35E+04	ALT (KM)
4	1.23E+09	43	5.20E+07	647	0.	4.843
6	2.93E+09	62	2.45E+07	944	0.	
8	5.47E+09	82	1.16E+07	1241	0.	TEMP (C)
10	5.37E+09	102	7.25E+06	1538	0.	-12.6
12	4.52E+09	122	3.86E+06	1835	0.	
14	3.75E+09	142	2.03E+06	2132	0.	FROSTPOINT
16	2.63E+09	161	9.85E+05	2429	0.	-26.1
18	3.06E+09	181	3.74E+05	2726	0.	
20	2.73E+09	201	2.51E+05	3023	0.	TAS (M/S)
22	2.13E+09	221	1.38E+05	3320	0.	120.0
24	1.40E+09	241	7.57E+04	3617	0.	
26	9.66E+08	260	2.17E+04	3914	0.	NT (N/M3)
28	4.27E+08	280	6.71E+04	4211	0.	2366306.8
30	5.03E+08	300	6.81E+04	4508	0.	
						TOTALS
LWC	1.67E-01		5.51E-01		2.23E-01	7.81E-01
MED D	21		116		404	148

SAMPLE# 11 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00:38:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	4.95E+08	23	4.66E+07	404	2.59E+04	ALT (KM)
4	1.18E+09	43	4.51E+07	647	0.	4.845
6	3.27E+09	62	2.22E+07	944	0.	
8	5.85E+09	82	1.84E+07	1241	0.	TEMP (C)
10	5.94E+09	102	5.36E+06	1538	0.	-12.4
12	4.47E+09	122	2.57E+06	1835	0.	
14	3.82E+09	142	1.29E+06	2132	0.	FROSTPOINT
16	2.88E+09	161	9.33E+05	2429	0.	-26.4
18	3.19E+09	181	2.30E+05	2726	0.	
20	2.63E+09	201	3.45E+05	3023	0.	TAS (M/S)
22	2.21E+09	221	2.07E+05	3320	0.	119.9
24	1.34E+09	241	1.32E+05	3617	0.	
26	8.17E+08	260	9.73E+04	3914	0.	NT (N/M3)
28	4.43E+08	280	5.30E+04	4211	0.	1949054.4
30	4.65E+08	300	4.46E+04	4508	0.	
						TOTALS
LWC	1.68E-01		5.09E-01		1.64E-01	6.77E-01
MED D	21		117		404	154

SAMPLE# 11 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00:38:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	4.58E+08	23	7.55E+07	404	4.42E+04	ALT (KM)
4	1.23E+09	43	5.35E+07	647	0.	4.845
6	3.05E+09	62	2.57E+07	944	0.	
8	5.98E+09	82	1.31E+07	1241	0.	TEMP (C)
10	5.58E+09	102	5.71E+06	1538	0.	-12.6
12	4.15E+09	122	3.12E+06	1835	0.	
14	3.40E+09	142	1.71E+06	2132	0.	FROSTPOINT
16	3.14E+09	161	1.11E+05	2429	0.	-26.1
18	3.27E+09	181	4.13E+05	2726	0.	
20	2.13E+09	201	1.88E+05	3023	0.	TAS (M/S)
22	2.03E+09	221	2.42E+05	3320	0.	119.9
24	1.44E+09	241	1.15E+05	3617	0.	
26	8.49E+08	260	1.41E+05	3914	0.	NT (N/M3)
28	3.74E+08	280	8.96E+04	4211	0.	2849155.4
30	4.43E+08	300	7.91E+04	4508	0.	
						TOTALS
LWC	1.61E-01		5.54E-01		2.91E-01	8.55E-01
MED D	21		115		404	179

SAMPLE: 11 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-83 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:38:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 26 GPM DISTANCE: 388 FT CAL FACTOR: 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	2.97E+08	23	6.19E+07	484	5.37E+04	ALT (KM)
4	1.21E+09	43	5.74E+07	647	0.	4.845
6	3.87E+09	62	3.14E+07	944	0.	
8	5.89E+09	82	1.41E+07	1241	0.	TEMP (C)
10	5.81E+09	102	6.36E+06	1538	0.	-12.6
12	5.67E+09	122	2.91E+06	1835	0.	
14	3.14E+09	142	1.38E+06	2132	0.	FROSTPOINT
16	2.64E+09	161	9.31E+05	2429	0.	-25.6
18	2.27E+09	181	5.17E+05	2726	0.	
20	2.13E+09	201	4.39E+05	3023	0.	TAS (M/S)
22	1.65E+09	221	4.14E+05	3320	0.	128.1
24	1.20E+09	241	2.56E+05	3617	0.	
26	5.41E+08	261	9.37E+04	3914	0.	NT (N/M3)
28	2.67E+08	281	1.37E+05	4211	0.	2214471.5
30	1.52E+08	301	9.51E+04	4508	0.	
						TOTALS
LWC	1.29E-01		6.31E-01		3.57E-31	9.61E-01
MED D	28		120		484	284

SAMPLE: 11 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-83 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:38:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 26 GPM DISTANCE: 388 FT CAL FACTOR: 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.8
2	1.98E+08	23	5.88E+07	484	2.55E+33	ALT (KM)
4	5.17E+08	43	3.19E+07	647	1.68E+31	4.846
6	1.91E+09	62	1.85E+07	944	0.	
8	2.94E+09	82	6.74E+06	1241	0.	TEMP (C)
10	2.68E+09	102	3.86E+06	1538	0.	-12.5
12	1.97E+09	122	2.17E+06	1835	0.	
14	1.69E+09	142	7.38E+05	2132	0.	FROSTPOINT
16	1.46E+09	161	3.18E+05	2429	0.	-24.4
18	1.68E+09	181	1.43E+05	2726	0.	
20	1.12E+09	201	2.19E+05	3023	0.	TAS (M/S)
22	8.89E+08	221	6.88E+04	3320	0.	128.4
24	6.61E+08	241	3.92E+04	3617	0.	
26	2.43E+08	261	3.54E+04	3914	0.	NT (N/M3)
28	1.75E+08	281	3.27E+04	4211	0.	1284151.9
30	1.22E+08	301	2.18E+04	4508	0.	
						TOTALS
LWC	7.13E-02		3.32E-01		1.78E-32	3.19E-01
MED D	28		105		408	118

SAMPLE: 11 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-83 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:38:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 26 GPM DISTANCE: 388 FT CAL FACTOR: 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	2.66E+08	23	6.89E+07	484	2.63E+34	ALT (KM)
4	7.39E+08	43	3.58E+07	647	0.	4.845
6	2.27E+09	62	2.22E+07	944	0.	
8	4.22E+09	82	1.19E+07	1241	0.	TEMP (C)
10	3.55E+09	102	4.76E+06	1538	0.	-12.5
12	2.64E+09	122	2.78E+06	1835	0.	
14	2.02E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	1.79E+09	161	5.58E+05	2429	0.	-25.8
18	1.95E+09	181	1.73E+05	2726	0.	
20	1.37E+09	201	3.13E+05	3023	0.	TAS (M/S)
22	1.26E+09	221	1.72E+05	3320	0.	128.7
24	8.52E+08	241	0.	3617	0.	
26	4.07E+08	260	2.53E+04	3914	0.	NT (N/M3)
28	1.81E+08	280	5.26E+04	4211	0.	1579549.2
30	1.94E+08	300	4.71E+04	4508	0.	
						TOTALS
LWC	9.51E-02		4.43E-01		1.73E-31	6.16E-01
MED D	28		116		484	148

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-83 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 08:40:30
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 388 FT CAL FACTOR: 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	1.89E+08	23	4.79E+07	484	5.68E+13	ALT (KM)
4	4.38E+08	43	3.07E+07	647	5.82E+31	4.846
6	1.22E+09	62	1.35E+07	944	0.	
8	2.24E+09	82	1.05E+07	1241	0.	TEMP (C)
10	1.92E+09	102	4.77E+06	1538	0.	-11.8
12	1.25E+09	122	3.37E+06	1835	0.	
14	1.07E+09	142	1.38E+06	2132	0.	FROSTPOINT
16	6.95E+08	161	8.97E+05	2429	0.	-23.4
18	9.14E+08	181	6.27E+05	2726	0.	
20	8.16E+08	201	3.11E+05	3023	0.	TAS (M/S)
22	7.56E+08	221	2.74E+05	3320	0.	121.1
24	4.88E+08	241	1.98E+05	3617	0.	
26	3.17E+08	260	1.39E+05	3914	0.	NT (N/M3)
28	1.74E+08	280	6.81E+04	4211	0.	1608820.7
30	1.28E+08	300	6.88E+04	4508	0.	
						TOTALS
LWC	5.29E-02		5.19E-01		3.95E-32	5.99E-01
MED D	21		123		418	137

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:40:10
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	2.49E+08	23	4.59E+07	484	6.54E+03	ALT (KM)
4	8.46E+08	43	4.16E+07	647	1.67E+01	4.849
6	1.93E+09	62	2.48E+07	944	0.	
8	3.56E+09	82	1.29E+07	1241	0.	TEMP (C)
10	2.96E+09	102	6.31E+06	1538	0.	-12.1
12	1.97E+09	122	3.61E+06	1835	0.	
14	1.49E+09	142	2.18E+06	2132	0.	FROSTPOINT
16	1.37E+09	161	8.71E+05	2429	0.	-23.4
18	1.39E+09	181	6.55E+05	2726	0.	
20	1.87E+09	201	2.18E+05	3023	0.	TAS (M/S)
22	8.33E+08	221	5.13E+05	3320	0.	121.1
24	6.84E+08	241	2.28E+05	3617	0.	
26	4.23E+08	260	1.75E+05	3914	0.	NT (N/M3)
28	1.28E+08	280	1.34E+05	4211	0.	1446101.0
30	1.74E+08	300	8.30E+04	4508	0.	
						TOTALS
LWC	7.04E-02		6.34E-01		4.27E-02	6.97E-01
MED D	20		136		486	142

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:40:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	4.38E+08	23	4.94E+07	484	6.39E+03	ALT (KM)
4	1.58E+09	43	4.10E+07	647	1.67E+01	4.859
6	3.41E+09	62	2.11E+07	944	0.	
8	5.43E+09	82	1.29E+07	1241	0.	TEMP (C)
10	4.84E+09	102	6.84E+06	1538	0.	-12.1
12	2.78E+09	122	3.58E+06	1835	0.	
14	2.31E+09	142	1.57E+06	2132	0.	FROSTPOINT
16	1.63E+09	161	1.03E+06	2429	0.	-23.5
18	1.91E+09	181	6.84E+05	2726	0.	
20	1.43E+09	201	2.73E+05	3023	0.	TAS (M/S)
22	1.29E+09	221	1.37E+05	3320	0.	121.1
24	9.98E+08	241	1.52E+05	3617	0.	
26	6.12E+08	260	1.48E+05	3914	0.	NT (N/M3)
28	2.47E+08	280	1.37E+05	4211	0.	1763648.0
30	1.97E+08	300	8.32E+04	4508	0.	
						TOTALS
LWC	1.03E-01		5.89E-01		4.27E-02	6.32E-01
MED D	21		129		486	136

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:40:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	3.48E+08	23	5.37E+07	484	6.95E+03	ALT (KM)
4	1.16E+09	43	4.28E+07	647	3.	4.847
6	3.28E+09	62	2.58E+07	944	0.	
8	4.56E+09	82	1.62E+07	1241	0.	TEMP (C)
10	3.79E+09	102	6.89E+06	1538	0.	-12.2
12	2.56E+09	122	3.39E+06	1835	0.	
14	1.96E+09	142	2.24E+06	2132	0.	FROSTPOINT
16	1.37E+09	161	1.21E+06	2429	0.	-23.4
18	1.85E+09	181	1.03E+06	2726	0.	
20	1.32E+09	201	4.98E+05	3023	0.	TAS (M/S)
22	1.22E+09	221	2.74E+05	3320	0.	121.0
24	7.71E+08	241	1.52E+05	3617	0.	
26	5.29E+08	260	1.23E+05	3914	0.	NT (N/M3)
28	2.27E+08	280	9.91E+04	4211	0.	1981923.4
30	2.42E+08	300	8.97E+04	4508	0.	
						TOTALS
LWC	9.41E-02		6.91E-01		3.26E-01	1.02E+00
MED D	21		133		484	186

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 09:40:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	4.99E+08	23	5.38E+07	484	6.49E+03	ALT (KM)
4	1.55E+09	43	5.49E+07	647	3.34E+01	4.847
6	3.82E+09	62	2.58E+07	944	0.	
8	7.14E+09	82	1.65E+07	1241	0.	TEMP (C)
10	5.33E+09	102	7.88E+06	1538	0.	-12.4
12	3.82E+09	122	4.31E+06	1835	0.	
14	3.88E+09	142	2.14E+06	2132	0.	FROSTPOINT
16	2.14E+09	161	1.13E+06	2429	0.	-23.5
18	2.36E+09	181	8.53E+05	2726	0.	
20	1.91E+09	201	6.53E+05	3023	0.	TAS (M/S)
22	1.81E+09	221	4.45E+05	3320	0.	121.1
24	1.11E+09	241	7.50E+04	3617	0.	
26	6.73E+08	260	8.47E+04	3914	0.	NT (N/M3)
28	4.01E+08	280	9.43E+04	4211	0.	2225603.6
30	4.23E+08	300	6.16E+04	4508	0.	
						TOTALS
LWC	1.38E-01		7.87E-01		4.48E-02	7.91E-01
MED D	21		129		488	134

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	6.84E+08	23	5.37E+07	404	1.16E+04	ALT (KM)
4	1.99E+09	43	4.71E+07	647	5.02E+01	4.849
6	4.95E+09	62	2.96E+07	944	0.	
8	7.51E+09	82	1.45E+07	1241	0.	TEMP (C)
10	6.31E+09	102	6.82E+06	1538	0.	-12.5
12	4.72E+09	122	4.19E+06	1835	0.	
14	3.88E+09	142	2.43E+06	2132	0.	FROSTPOINT
16	2.94E+09	161	1.43E+06	2429	0.	-23.5
18	3.11E+09	181	9.13E+05	2726	0.	
20	2.21E+09	201	5.29E+05	3023	0.	TAS (M/S)
22	2.11E+09	221	5.92E+05	3320	0.	121.0
24	1.54E+09	241	1.30E+05	3617	0.	
25	1.81E+09	260	1.97E+05	3914	0.	NT (N/M3)
28	5.67E+08	280	1.35E+05	4211	0.	2953349.7
30	5.29E+08	300	1.19E+05	4508	0.	
						TOTALS
LWC	1.76E-01		7.37E-01		7.82E-12	8.65E-01
MED D	21		144		407	156

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	7.34E+08	23	5.15E+07	404	9.19E+03	ALT (KM)
4	2.12E+09	43	3.76E+07	647	5.02E+01	4.849
6	5.69E+09	62	1.75E+07	944	0.	
8	8.37E+09	82	1.02E+07	1241	0.	TEMP (C)
10	6.18E+09	102	5.27E+06	1538	0.	-12.6
12	4.12E+09	122	3.01E+06	1835	0.	
14	3.42E+09	142	1.96E+06	2132	0.	FROSTPOINT
16	2.25E+09	161	1.14E+06	2429	0.	-23.3
18	2.69E+09	181	7.70E+05	2726	0.	
20	2.14E+09	201	6.29E+05	3023	0.	TAS (M/S)
22	1.78E+09	221	3.38E+05	3320	0.	121.8
24	1.23E+09	241	1.14E+05	3617	0.	
26	8.77E+08	261	1.22E+05	3914	0.	NT (N/M3)
28	4.92E+08	280	1.39E+05	4211	0.	1559881.9
30	5.82E+08	301	8.54E+04	4508	0.	
						TOTALS
LWC	1.59E-01		5.34E-01		6.25E-12	6.56E-01
MED D	21		145		408	157

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	6.51E+08	23	5.28E+07	404	3.39E+03	ALT (KM)
4	2.05E+09	43	3.41E+07	647	1.67E+01	4.850
6	4.81E+09	62	1.95E+07	944	0.	
8	7.78E+09	82	1.12E+07	1241	0.	TEMP (C)
10	6.03E+09	102	7.59E+06	1538	0.	-12.6
12	4.24E+09	122	2.77E+06	1835	0.	
14	3.14E+09	142	2.53E+06	2132	0.	FROSTPOINT
16	2.32E+09	161	1.36E+06	2429	0.	-23.5
18	3.02E+09	181	5.55E+05	2726	0.	
20	2.23E+09	201	3.42E+05	3023	0.	TAS (M/S)
22	1.78E+09	221	5.14E+05	3320	0.	120.9
24	1.57E+09	241	3.84E+05	3617	0.	
26	8.93E+08	260	1.23E+05	3914	0.	NT (N/M3)
28	5.98E+08	280	4.36E+04	4211	0.	1609092.4
30	5.07E+08	300	3.23E+04	4508	0.	
						TOTALS
LWC	1.65E-01		6.44E-01		2.31E-12	6.67E-01
MED D	21		140		409	143

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	8.38E+08	23	5.29E+07	404	1.85E+03	ALT (KM)
4	2.26E+09	43	3.89E+07	647	3.34E+01	4.849
6	5.38E+09	62	1.91E+07	944	0.	
8	7.78E+09	82	9.03E+06	1241	0.	TEMP (C)
10	6.45E+09	102	5.26E+06	1538	0.	-12.6
12	3.81E+09	122	2.32E+06	1835	0.	
14	3.13E+09	142	1.63E+06	2132	0.	FROSTPOINT
16	2.41E+09	161	1.35E+06	2429	0.	-22.9
18	2.63E+09	181	3.39E+05	2726	0.	
20	1.78E+09	201	4.24E+05	3023	0.	TAS (M/S)
22	1.68E+09	221	6.83E+04	3326	0.	121.2
24	1.83E+09	241	3.42E+05	3617	0.	
26	7.78E+08	260	6.97E+04	3914	0.	NT (N/M3)
28	4.08E+08	280	1.62E+04	4211	0.	1489145.4
30	4.08E+08	300	1.03E+04	4508	0.	
						TOTALS
LWC	1.49E-01		4.77E-01		1.36E-12	4.91E-01
MED D	21		129		415	131

SAMPLE: 12

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:18
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	7.79E+08	23	5.26E+07	404	6.17E+03	ALT (KM)
4	2.44E+09	43	4.83E+07	647	3.94E+01	4.849
6	5.33E+09	62	2.19E+07	944	0.	
8	8.27E+09	82	1.12E+07	1241	0.	TEMP (C)
10	5.61E+09	102	4.59E+06	1538	0.	-12.5
12	3.73E+09	122	1.96E+06	1835	0.	
14	2.74E+09	142	1.60E+06	2132	0.	FROSTPOINT
16	2.02E+09	161	7.91E+05	2429	0.	-22.5
18	2.25E+09	181	4.55E+05	2726	0.	
20	1.73E+09	201	4.37E+05	3023	0.	TAS (M/S)
22	1.69E+09	221	3.42E+05	3320	0.	121.2
24	1.15E+09	241	3.04E+05	3617	0.	
26	7.85E+08	260	1.53E+05	3914	0.	NT (N/M3)
28	3.55E+08	280	5.74E+04	4211	0.	1608445.9
30	4.15E+08	300	5.77E+04	4508	0.	
						TOTALS
LWC	1.76E-01		6.16E-01		4.19E-02	6.58E-01
MED D	21		130		408	178

SAMPLE: 12

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:28
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	9.16E+08	23	5.17E+07	404	1.35E+04	ALT (KM)
4	3.03E+09	43	3.70E+07	647	1.34E+02	4.849
6	7.32E+09	62	1.99E+07	944	0.	
8	1.46E+10	82	1.05E+07	1241	0.	TEMP (C)
10	7.39E+09	102	5.77E+06	1538	0.	-12.5
12	4.15E+09	122	3.34E+06	1835	0.	
14	3.31E+09	142	2.24E+06	2132	0.	FROSTPOINT
16	2.77E+09	161	1.08E+06	2429	0.	-21.6
18	2.94E+09	181	5.42E+05	2726	0.	
20	1.99E+09	201	2.90E+05	3023	0.	TAS (M/S)
22	1.82E+09	221	2.05E+05	3320	0.	120.9
24	1.51E+09	241	1.30E+05	3617	0.	
26	1.04E+09	260	1.54E+03	3914	0.	NT (N/M3)
28	6.05E+08	280	1.42E+05	4211	0.	1595537.9
30	7.42E+08	300	9.76E+04	4508	0.	
						TOTALS
LWC	1.78E-01		5.90E-01		9.44E-02	6.84E-01
MED D	21		137		411	151

SAMPLE: 12

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	6.66E+08	23	3.74E+07	404	1.34E+04	ALT (KM)
4	2.49E+09	43	4.11E+07	647	5.02E+01	4.849
6	5.41E+09	62	2.14E+07	944	0.	
8	8.49E+09	82	1.13E+07	1241	0.	TEMP (C)
10	5.85E+09	102	5.38E+06	1538	0.	-12.5
12	4.31E+09	122	2.93E+06	1835	0.	
14	2.94E+09	142	1.73E+06	2132	0.	FROSTPOINT
16	2.11E+09	161	1.27E+06	2429	0.	-22.1
18	2.51E+09	181	4.85E+05	2726	0.	
20	1.94E+09	201	3.73E+05	3023	0.	TAS (M/S)
22	1.76E+09	221	4.11E+05	3320	0.	120.9
24	1.25E+09	241	1.14E+05	3617	0.	
26	8.85E+08	260	1.36E+05	3914	0.	NT (N/M3)
28	4.39E+08	280	1.61E+05	4211	0.	1682167.1
30	4.99E+08	300	1.34E+05	4508	0.	
						TOTALS
LWC	1.48E-01		5.32E-01		7.16E-02	6.64E-01
MED D	21		142		407	156

SAMPLE: 12

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	9.29E+08	23	4.37E+07	404	8.95E+03	ALT (KM)
4	3.26E+09	43	3.46E+07	647	6.68E+01	4.858
6	7.95E+09	62	2.15E+07	944	0.	
8	1.13E+10	82	1.17E+07	1241	0.	TEMP (C)
10	7.11E+09	102	5.55E+06	1538	0.	-12.6
12	4.43E+09	122	3.05E+06	1835	0.	
14	3.76E+09	142	1.98E+06	2132	0.	FROSTPOINT
16	2.68E+09	161	8.7+E+05	2429	0.	-21.2
18	3.61E+09	181	7.12E+05	2726	0.	
20	2.33E+09	201	3.11E+05	3023	0.	TAS (M/S)
22	1.95E+09	221	2.73E+05	3320	0.	121.1
24	1.04E+09	241	2.66E+05	3617	0.	
26	1.13E+09	260	1.78E+05	3914	0.	NT (N/M3)
28	5.97E+08	280	1.88E+05	4211	0.	1593289.5
30	6.65E+08	300	7.29E+04	4508	0.	
						TOTALS
LWC	1.68E-01		5.38E-01		6.17E-02	6.52E-01
MED D	21		138		409	149

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	8.39E+08	23	7.25E+07	404	6.93E+03	ALT (KM)
4	3.14E+09	43	4.62E+07	647	3.35E+01	4.849
6	7.85E+09	62	2.14E+07	944	0.	
8	1.05E+10	82	1.28E+07	1241	0.	TEMP (C)
10	7.03E+09	102	5.49E+06	1538	0.	-12.6
12	4.67E+09	122	3.39E+06	1835	0.	
14	3.77E+09	142	1.99E+06	2132	0.	FROSTPOINT
16	2.62E+09	161	1.40E+06	2429	0.	-20.9
18	2.83E+09	181	6.56E+05	2726	0.	
20	2.14E+09	201	5.29E+05	3023	0.	TAS (M/S)
22	2.18E+09	221	2.05E+05	3320	0.	121.9
24	1.78E+09	241	1.14E+05	3617	0.	
26	9.03E+08	260	1.03E+05	3914	0.	NT (N/M3)
28	6.89E+08	280	9.23E+04	4211	0.	1968600.5
30	6.65E+08	300	6.73E+04	4508	0.	
						TOTALS
LWC	1.73E-01		5.15E-01		4.74E-02	6.59E-01
MED D	21		131		409	198

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	1.28E+09	23	5.06E+07	404	7.67E+03	ALT (KM)
4	3.85E+09	43	4.53E+07	647	5.82E+01	4.850
6	9.43E+09	62	2.52E+07	944	0.	
8	1.22E+10	82	1.25E+07	1241	0.	TEMP (C)
10	7.97E+09	102	6.81E+06	1538	0.	-12.6
12	4.89E+09	122	3.79E+06	1835	0.	
14	4.19E+09	142	1.99E+06	2132	0.	FROSTPOINT
16	2.73E+09	161	1.19E+06	2429	0.	-20.4
18	2.94E+09	181	7.13E+05	2726	0.	
20	2.37E+09	201	5.31E+05	3023	0.	TAS (M/S)
22	2.07E+09	221	4.79E+05	3320	0.	120.9
24	1.76E+09	241	1.34E+05	3617	0.	
26	1.13E+09	260	1.37E+05	3914	0.	NT (N/M3)
28	5.83E+08	280	9.32E+04	4211	0.	1937245.6
30	6.96E+08	300	6.59E+04	4508	0.	
						TOTALS
LWC	1.94E-01		6.35E-01		5.25E-02	7.30E-01
MED D	21		136		408	145

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	9.59E+08	23	5.15E+07	404	6.57E+03	ALT (KM)
4	3.52E+09	43	4.24E+07	647	1.67E+01	4.849
6	8.96E+09	62	2.17E+07	944	0.	
8	1.24E+10	82	1.16E+07	1241	0.	TEMP (C)
10	7.76E+09	102	6.36E+06	1538	0.	-12.6
12	4.49E+09	122	3.33E+06	1835	0.	
14	3.87E+09	142	1.70E+06	2132	0.	FROSTPOINT
16	2.93E+09	161	1.35E+06	2429	0.	-20.6
18	3.35E+09	181	6.94E+05	2726	0.	
20	2.39E+09	201	4.66E+05	3023	0.	TAS (M/S)
22	1.98E+09	221	3.18E+05	3320	0.	121.1
24	1.56E+09	241	1.52E+05	3617	0.	
26	1.08E+09	260	1.09E+05	3914	0.	NT (N/M3)
28	4.99E+08	280	7.30E+04	4211	0.	1785172.5
30	6.27E+08	300	4.96E+04	4508	0.	
						TOTALS
LWC	1.85E-01		5.30E-01		3.87E-02	6.28E-01
MED D	21		138		407	135

SAMPLE: 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:40:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	1.43E+09	23	4.61E+07	404	8.78E+03	ALT (KM)
4	4.73E+09	43	4.16E+07	647	8.35E+01	4.849
6	1.14E+10	62	2.49E+07	944	0.	
8	1.47E+10	82	1.26E+07	1241	0.	TEMP (C)
10	8.85E+09	102	6.80E+06	1538	1.95E+01	-12.6
12	5.34E+09	122	3.61E+06	1835	0.	
14	4.41E+09	142	2.11E+06	2132	0.	FROSTPOINT
16	2.92E+09	161	1.42E+06	2429	0.	-20.2
18	3.43E+09	181	7.68E+05	2726	0.	
20	2.38E+09	201	6.83E+05	3023	0.	TAS (M/S)
22	2.58E+09	221	2.73E+05	3320	0.	121.2
24	2.89E+09	241	1.98E+05	3617	0.	
26	1.38E+09	260	1.34E+05	3914	0.	NT (N/M3)
28	7.82E+08	280	9.42E+04	4211	0.	1874824.4
30	7.32E+08	300	6.45E+04	4508	0.	
						TOTALS
LWC	2.29E-01		6.78E-01		7.23E-02	7.98E-01
MED D	21		137		420	148

SAMPLE# 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 1/40:26*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	1.57E+09	23	7.59E+07	404	3.37E+03	ALT (KM)
4	5.55E+08	43	4.35E+07	647	9.37E+01	4.859
6	1.31E+10	62	2.58E+07	944	0.	
8	1.63E+10	82	1.87E+07	1241	0.	TEMP (C)
10	9.75E+09	102	8.17E+06	1538	0.	-12.6
12	5.93E+09	122	3.39E+06	1835	0.	
14	5.22E+09	142	2.24E+06	2132	0.	FROSTPOINT
16	2.93E+09	161	1.19E+06	2429	0.	-20.1
18	3.64E+09	181	7.42E+05	2726	0.	
20	2.35E+09	201	4.36E+05	3023	0.	TAS (M/S)
22	2.41E+09	221	4.45E+05	3320	0.	120.9
24	2.04E+09	241	3.34E+05	3617	0.	
26	1.52E+09	260	1.56E+05	3914	0.	NT (N/M3)
28	6.36E+08	280	1.14E+05	4211	0.	2115884.6
30	9.69E+08	300	7.74E+04	4508	0.	
						TOTALS
LWC	2.33E-01		7.45E-01		6.91E-02	8.14E-01
MED D	21		134		410	144

SAMPLE# 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 1/40:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	1.76E+09	23	4.34E+07	404	7.02E+03	ALT (KM)
4	5.34E+08	43	3.34E+07	647	1.01E+02	4.850
6	1.39E+10	62	1.97E+07	944	0.	
8	1.65E+10	82	9.87E+06	1241	0.	TEMP (C)
10	1.14E+10	102	4.62E+06	1538	0.	-12.6
12	6.64E+09	122	2.77E+06	1835	0.	
14	5.16E+09	142	2.21E+06	2132	0.	FROSTPOINT
16	3.82E+09	161	8.46E+05	2429	0.	-26.1
18	3.62E+09	181	4.28E+05	2726	0.	
20	2.59E+09	201	3.43E+05	3023	0.	TAS (M/S)
22	2.64E+09	221	4.11E+05	3320	0.	120.8
24	1.81E+09	241	7.52E+04	3617	0.	
26	1.67E+09	260	6.83E+04	3914	0.	NT (N/M3)
28	6.71E+08	280	6.12E+04	4211	0.	1681621.7
30	1.05E+09	300	4.83E+04	4508	0.	
						TOTALS
LWC	2.51E-01		5.38E-01		5.84E-02	5.59E-01
MED D	21		132		413	140

SAMPLE# 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 1/40:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	1.65E+09	23	6.77E+07	404	5.67E+03	ALT (KM)
4	5.88E+08	43	3.85E+07	647	6.70E+01	4.849
6	1.37E+10	62	2.19E+07	944	0.	
8	1.84E+10	82	9.35E+06	1241	0.	TEMP (C)
10	1.15E+10	102	6.44E+06	1538	0.	-12.7
12	5.95E+09	122	3.18E+06	1835	0.	
14	5.62E+09	142	1.54E+06	2132	0.	FROSTPOINT
16	3.13E+09	161	1.11E+06	2429	0.	-20.1
18	3.70E+09	181	5.43E+05	2726	0.	
20	2.61E+09	201	3.43E+05	3023	0.	TAS (M/S)
22	2.33E+09	221	4.11E+05	3320	0.	120.8
24	1.97E+09	241	7.52E+04	3617	0.	
26	1.45E+09	260	6.44E+04	3914	0.	NT (N/M3)
28	6.33E+08	280	5.44E+04	4211	0.	1668929.3
30	1.18E+09	300	3.79E+04	4508	0.	
						TOTALS
LWC	2.49E-01		5.41E-01		4.01E-02	5.82E-01
MED D	21		126		412	133

SAMPLE# 12 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 0/ 1/40:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	1.93E+09	23	5.50E+07	404	5.75E+03	ALT (KM)
4	5.85E+08	43	4.49E+07	647	8.39E+01	4.850
6	1.40E+10	62	2.13E+07	944	0.	
8	1.97E+10	82	1.19E+07	1241	0.	TEMP (C)
10	1.23E+10	102	6.89E+06	1538	0.	-12.6
12	6.90E+09	122	3.51E+06	1835	0.	
14	5.79E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	3.09E+09	161	9.83E+05	2429	0.	-20.0
18	3.37E+09	181	6.86E+05	2726	0.	
20	2.53E+09	201	5.32E+05	3023	0.	TAS (M/S)
22	2.62E+09	221	1.77E+05	3320	0.	120.7
24	2.05E+09	241	7.62E+04	3617	0.	
26	1.61E+09	260	6.15E+04	3914	0.	NT (N/M3)
28	8.36E+08	280	4.37E+04	4211	0.	1831508.3
30	1.09E+09	300	3.52E+04	4508	0.	
						TOTALS
LWC	2.54E-01		5.53E-01		4.14E-02	5.95E-01
MED D	21		122		413	129

SAMPLE# 13 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START=08:48:28
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	3.73E+08	23	1.55E+07	404	1.05E+01	ALT (KM)
4	1.32E+09	43	9.44E+06	647	1.68E+01	4.845
6	4.06E+09	62	4.09E+06	944	0.	
8	5.31E+09	82	2.68E+06	1241	0.	TEMP (C)
10	4.41E+09	102	1.22E+06	1538	0.	-11.7
12	3.26E+09	122	5.65E+05	1835	0.	
14	2.34E+09	142	3.07E+05	2132	0.	FROSTPOINT
16	1.48E+09	161	2.13E+05	2429	0.	-22.6
18	1.93E+09	181	2.58E+05	2726	0.	
20	1.12E+09	201	1.23E+05	3023	0.	TAS (M/S)
22	8.83E+08	221	3.44E+04	3320	0.	120.2
24	4.95E+08	241	0.	3617	0.	
26	2.44E+08	260	0.	3914	0.	NT (N/M3)
28	1.58E+08	280	0.	4211	0.	458419.1
30	1.14E+08	300	0.	4508	0.	
						TOTALS
LWC	7.85E-02		1.13E-01		7.82E-04	1.14E-01
MED D	18		124		633	124

SAMPLE# 13 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START=08:48:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	2.89E+08	23	1.65E+07	404	..	ALT (KM)
4	9.90E+08	43	1.21E+07	647	0.	4.845
6	2.98E+09	62	5.83E+06	944	0.	
8	4.77E+09	82	2.75E+06	1241	0.	TEMP (C)
10	3.24E+09	102	1.81E+06	1538	0.	-11.9
12	2.40E+09	122	7.73E+05	1835	0.	
14	1.78E+09	142	3.26E+05	2132	0.	FROSTPOINT
16	1.43E+09	161	1.06E+05	2429	0.	-22.6
18	1.35E+09	181	5.76E+04	2726	0.	
20	8.54E+08	201	3.22E+04	3023	0.	TAS (M/S)
22	7.86E+08	221	3.84E+04	3320	0.	121.8
24	4.54E+08	241	1.14E+05	3617	0.	
26	2.55E+08	260	..	3914	..	NT (N/M3)
28	9.83E+07	280	0.	4211	0.	475818.8
30	1.13E+08	300	0.	4508	0.	
						TOTALS
LWC	6.58E-02		1.26E-01		..	1.26E-01
MED D	19		111		0	111

SAMPLE# 13 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START=08:48:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.97E+08	23	1.44E+07	404	7.16E+03	ALT (KM)
4	1.13E+09	43	1.01E+07	647	0.	4.846
6	3.29E+09	62	5.67E+06	944	0.	
8	5.13E+09	82	3.42E+06	1241	0.	TEMP (C)
10	3.90E+09	102	1.77E+06	1538	..	-11.8
12	2.77E+09	122	7.78E+05	1835	0.	
14	2.01E+09	142	4.51E+05	2132	0.	FROSTPOINT
16	1.50E+09	161	1.51E+05	2429	0.	-22.6
18	1.51E+09	181	1.13E+05	2726	0.	
20	9.37E+08	201	1.23E+05	3023	0.	TAS (M/S)
22	8.22E+08	221	3.99E+04	3320	0.	120.2
24	5.18E+08	241	0.	3617	0.	
26	2.36E+08	260	7.18E+03	3914	0.	NT (N/M3)
28	1.22E+08	280	1.44E+04	4211	0.	473561.8
30	8.37E+07	300	1.29E+04	4508	0.	
						TOTALS
LWC	7.07E-02		1.35E-01		4.72E-02	1.83E-01
MED D	19		114		484	147

SAMPLE# 13 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START=08:48:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	2.97E+08	23	1.77E+07	404	0.	ALT (KM)
4	1.13E+09	43	1.46E+07	647	0.	4.845
6	3.71E+09	62	4.77E+06	944	0.	
8	5.19E+09	82	2.68E+06	1241	0.	TEMP (C)
10	3.89E+09	102	1.55E+06	1538	0.	-11.9
12	2.43E+09	122	3.41E+05	1835	0.	
14	1.93E+09	142	4.93E+05	2132	0.	FROSTPOINT
16	1.35E+09	161	1.86E+05	2429	0.	-22.6
18	1.54E+09	181	2.58E+05	2726	0.	
20	1.13E+09	201	9.39E+04	3023	0.	TAS (M/S)
22	7.83E+08	221	1.03E+05	3320	0.	120.3
24	5.86E+08	241	..	3617	0.	
26	2.91E+08	260	0.	3914	0.	NT (N/M3)
28	7.61E+07	280	0.	4211	0.	449452.2
30	1.22E+08	300	0.	4508	0.	
						TOTALS
LWC	7.19E-02		1.34E-01		0.	1.34E-01
MED D	19		122		0	122

SAMPLE# 13 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00148124*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 13 PSI H20 FLOW RATE# 15 GPM DISTANCE# 400 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	6.73E+08	23	1.85E+07	404	8.	ALT (KM)
4	9.54E+08	43	1.44E+07	647	0.	4.845
6	2.59E+09	82	5.47E+06	944	0.	
8	3.64E+09	82	2.44E+06	1241	0.	TEMP (C)
10	2.75E+09	102	1.62E+06	1538	0.	-11.9
12	1.76E+09	122	5.55E+05	1835	0.	
14	1.37E+09	142	2.81E+05	2132	0.	FROSTPOINT
16	1.13E+09	161	2.07E+05	2429	0.	-22.6
18	1.45E+09	181	5.73E+04	2726	0.	
20	8.11E+08	201	5.27E+04	3023	0.	TAS (M/S)
22	5.37E+08	221	3.45E+04	3320	0.	128.8
24	3.97E+08	241	3.83E+04	3617	0.	
26	1.63E+08	261	0.	3914	0.	NT (N/M3)
28	1.22E+08	281	0.	4211	0.	486268.5
30	8.39E+07	301	0.	4508	0.	
						TOTALS
LWC	5.15E-02		1.16E-01		0.	1.06E-01
MED D	19		103		0	106

SAMPLE# 13 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00148125*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 15 GPM DISTANCE# 400 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	1.69E+08	23	1.99E+07	404	7.13E+03	ALT (KM)
4	7.77E+08	43	1.28E+07	647	0.	4.843
6	2.01E+09	82	5.01E+06	944	0.	
8	3.59E+09	82	2.52E+06	1241	0.	TEMP (C)
10	3.08E+09	102	1.05E+06	1538	0.	-11.8
12	2.06E+09	122	9.42E+05	1835	0.	
14	1.52E+09	142	5.77E+05	2132	0.	FROSTPOINT
16	1.23E+09	161	1.5.E+05	2429	0.	-22.7
18	1.48E+09	181	1.15E+05	2726	0.	
20	9.36E+08	201	1.57E+05	3023	0.	TAS (M/S)
22	6.85E+08	221	0.	3320	0.	128.2
24	4.11E+08	241	3.83E+04	3617	0.	
26	2.36E+08	260	2.36E+04	3914	0.	NT (N/M3)
28	1.22E+08	280	1.44E+04	4211	0.	486944.9
30	1.14E+08	300	1.29E+04	4508	0.	
						TOTALS
LWC	6.12E-02		1.38E-01		4.72E-02	1.85E-01
MED D	19		127		404	151

SAMPLE# 13 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00148126*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 13 PSI 420 FLOW RATE# 15 GPM DISTANCE# 400 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	1.97E+08	23	2.42E+07	404	1.05E+01	ALT (KM)
4	9.55E+08	43	1.59E+07	647	1.68E+01	4.845
6	2.32E+09	62	7.99E+06	944	0.	
8	4.23E+09	82	4.37E+06	1241	0.	TEMP (C)
10	3.55E+09	102	2.04E+06	1538	0.	-11.9
12	2.33E+09	122	1.14E+06	1835	0.	
14	1.88E+09	142	3.53E+05	2132	0.	FROSTPOINT
16	1.18E+09	161	2.91E+05	2429	0.	-22.7
18	1.38E+09	181	2.03E+05	2726	0.	
20	1.14E+09	201	3.12E+04	3023	0.	TAS (M/S)
22	6.54E+08	221	1.23E+05	3320	0.	128.7
24	5.76E+08	241	0.	3617	0.	
26	2.58E+08	261	0.	3914	0.	NT (N/M3)
28	1.44E+08	281	0.	4211	0.	648758.8
30	7.58E+07	300	0.	4508	0.	
						TOTALS
LWC	6.90E-02		1.37E-01		7.79E-04	1.58E-01
MED D	19		106		637	106

SAMPLE# 13 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 00148127*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 13 PSI 420 FLOW RATE# 15 GPM DISTANCE# 400 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	1.82E+08	23	1.65E+07	404	0.	ALT (KM)
4	9.33E+08	43	1.54E+07	647	0.	4.846
6	2.78E+09	62	5.73E+06	944	0.	
8	4.73E+09	82	3.73E+06	1241	0.	TEMP (C)
10	3.44E+09	102	1.92E+06	1538	0.	-11.9
12	2.76E+09	122	7.34E+05	1835	0.	
14	1.91E+09	142	5.14E+05	2132	0.	FROSTPOINT
16	1.58E+09	161	2.38E+05	2429	0.	-22.7
18	1.76E+09	181	2.85E+05	2726	0.	
20	1.18E+09	201	3.12E+04	3023	0.	TAS (M/S)
22	8.38E+08	221	3.43E+04	3320	0.	128.7
24	5.51E+08	241	0.	3617	0.	
26	2.81E+08	260	0.	3914	0.	NT (N/M3)
28	1.29E+08	280	0.	4211	0.	549927.0
30	1.14E+08	300	0.	4508	0.	
						TOTALS
LWC	7.53E-02		1.34E-01		0.	1.34E-01
MED D	19		109		0	109

SAMPLE# 14 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0815:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.33E+08	23	1.53E+07	404	8.35E+03	ALT (KM)
4	1.18E+09	43	1.38E+07	647	0.	4.846
5	2.78E+09	62	5.82E+06	944	0.	
8	5.13E+09	82	3.44E+06	1241	0.	TEMP (C)
10	4.22E+09	102	1.74E+06	1538	0.	-11.3
12	3.32E+09	122	1.07E+06	1835	0.	
14	2.66E+09	142	5.46E+05	2132	0.	FROSTPOINT
16	2.31E+09	161	7.65E+04	2429	0.	-22.8
18	2.43E+09	181	2.80E+04	2726	0.	
20	1.65E+09	201	0.	3023	0.	TAS (M/S)
22	1.32E+09	221	3.79E+04	3320	0.	122.0
24	6.78E+08	241	0.	3617	0.	
26	3.33E+08	261	0.55E+03	3914	0.	NT (N/M3)
28	1.43E+08	280	1.62E+04	4211	0.	516221.6
30	1.50E+09	300	1.49E+04	4508	0.	
						TOTALS
LWC	1.05E-01		1.16E-01		8.31E-02	1.69E-01
MED D	19		104		404	135

SAMPLE# 14 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0815:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	2.77E+08	23	2.51E+07	404	2.35E+04	ALT (KM)
4	1.85E+09	43	2.35E+07	647	0.	4.847
5	2.98E+09	62	1.29E+07	944	0.	
8	5.39E+09	82	5.44E+06	1241	0.	TEMP (C)
10	4.36E+09	102	3.05E+06	1538	0.	-11.8
12	3.24E+09	122	1.65E+06	1835	0.	
14	2.72E+09	142	5.35E+05	2132	0.	FROSTPOINT
16	2.24E+09	161	4.45E+05	2429	0.	-22.8
18	2.31E+09	181	1.69E+05	2726	0.	
20	1.73E+09	201	1.23E+05	3023	0.	TAS (M/S)
22	1.35E+09	221	1.36E+05	3320	0.	122.1
24	1.08E+09	241	7.53E+04	3617	0.	
26	3.57E+08	260	5.35E+04	3914	0.	NT (N/M3)
28	1.12E+08	280	4.71E+04	4211	0.	359985.4
30	1.53E+08	300	4.22E+04	4508	0.	
						TOTALS
LWC	1.07E-01		2.74E-01		1.55E-01	4.28E-01
MED D	19		121		404	212

SAMPLE# 14 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0850:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	2.52E+08	23	1.93E+07	404	0.	ALT (KM)
4	1.06E+09	43	2.44E+07	647	0.	4.846
5	3.64E+09	62	1.84E+07	944	0.	
8	5.11E+09	82	5.28E+06	1241	0.	TEMP (C)
10	5.46E+09	102	2.40E+06	1538	0.	-11.6
12	3.88E+09	122	1.33E+06	1835	0.	
14	3.84E+09	142	5.88E+05	2132	0.	FROSTPOINT
16	2.17E+09	161	2.89E+05	2429	0.	-22.8
18	2.26E+09	181	1.41E+05	2726	0.	
20	1.70E+09	201	9.25E+04	3023	0.	TAS (M/S)
22	1.49E+09	221	1.02E+05	3320	0.	122.0
24	6.95E+08	241	3.77E+04	3617	0.	
26	4.72E+08	256	0.	3914	0.	NT (N/M3)
28	3.38E+08	280	0.	4211	0.	388088.3
30	3.15E+08	300	0.	4508	0.	
						TOTALS
LWC	1.19E-01		1.94E-01		0.	1.94E-01
MED D	20		104		0	104

SAMPLE# 14 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0850:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	3.07E+08	23	3.14E+07	404	1.65E+04	ALT (KM)
4	9.29E+08	43	2.17E+07	647	0.	4.843
5	2.56E+09	62	1.32E+07	944	0.	
8	5.08E+09	82	5.76E+06	1241	0.	TEMP (C)
10	4.16E+09	102	2.77E+06	1538	0.	-12.0
12	2.75E+09	122	1.53E+06	1835	0.	
14	2.61E+09	142	6.97E+05	2132	0.	FROSTPOINT
16	1.84E+09	161	4.44E+05	2429	0.	-22.8
18	2.14E+09	181	1.13E+05	2726	0.	
20	1.59E+09	201	2.77E+05	3023	0.	TAS (M/S)
22	1.17E+09	221	1.35E+05	3320	0.	122.3
24	7.78E+08	241	3.76E+04	3617	0.	
26	3.52E+08	260	3.52E+04	3914	0.	NT (N/M3)
28	2.62E+08	280	3.29E+04	4211	0.	378349.3
30	1.57E+08	300	2.95E+04	4508	0.	
						TOTALS
LWC	9.52E-02		2.57E-01		1.08E-01	3.68E-01
MED D	19		122		404	171

SAMPLE# 14 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:50:16*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 13 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	2.68E+08	23	7.17E+07	484	3.11E+03	ALT (KM)
4	1.10E+09	43	2.35E+07	647	0.	4.843
6	2.75E+09	62	9.31E+06	944	0.	
8	4.58E+09	82	3.39E+06	1241	0.	TEMP (C)
10	3.54E+09	102	2.95E+06	1538	0.	-12.1
12	2.91E+09	122	1.54E+06	1835	0.	
14	2.21E+09	142	8.37E+05	2132	0.	FROSTPOINT
16	1.79E+09	161	4.47E+05	2429	0.	-22.9
18	2.00E+09	181	1.39E+05	2726	0.	
20	1.42E+09	201	1.66E+05	3023	0.	TAS (M/S)
22	1.12E+09	221	5.81E+04	3320	0.	121.6
24	8.35E+08	241	0.	3617	0.	
26	2.94E+08	261	3.21E+03	3914	0.	NT (N/M3)
28	1.29E+08	281	1.52E+04	4211	0.	879750.8
30	1.23E+09	301	1.45E+04	4508	0.	
						TOTALS
LWC	8.85E-02		2.26E-01		5.33E-02	2.79E-01
MED D	19		112		484	130

SAMPLE# 14 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:50:18*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 13 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	2.82E+08	23	2.23E+07	484	0.	ALT (KM)
4	7.55E+08	43	2.43E+07	647	0.	4.842
6	2.02E+09	62	1.07E+07	944	0.	
8	3.94E+09	82	5.59E+06	1241	0.	TEMP (C)
10	3.21E+09	102	2.12E+06	1538	0.	-12.1
12	2.06E+09	122	1.49E+06	1835	0.	
14	1.73E+09	142	3.87E+05	2132	0.	FROSTPOINT
16	1.43E+09	161	4.44E+05	2429	0.	-22.9
18	1.62E+09	181	1.41E+05	2726	0.	
20	1.21E+09	201	1.23E+05	3023	0.	TAS (M/S)
22	1.07E+09	221	1.35E+05	3320	0.	122.3
24	6.31E+08	241	0.	3617	0.	
26	3.22E+08	261	0.	3914	0.	NT (N/M3)
28	1.65E+08	281	0.	4211	0.	908122.2
30	1.21E+08	301	0.	4508	0.	
						TOTALS
LWC	7.88E-02		2.11E-01		0.	2.81E-01
MED D	20		106		0	106

SAMPLE# 14 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:50:17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 13 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	1.80E+08	23	2.41E+07	484	0.	ALT (KM)
4	6.58E+08	43	3.21E+07	647	0.	4.843
6	2.54E+09	62	9.43E+06	944	0.	
8	3.89E+09	82	5.10E+06	1241	0.	TEMP (C)
10	2.30E+09	102	1.91E+06	1538	0.	-12.1
12	2.24E+09	122	1.21E+06	1835	0.	
14	1.75E+09	142	5.41E+05	2132	0.	FROSTPOINT
16	1.43E+09	161	4.72E+05	2429	0.	-22.9
18	1.66E+09	181	1.13E+05	2726	0.	
20	9.46E+08	201	9.27E+04	3023	0.	TAS (M/S)
22	9.39E+08	221	1.02E+05	3320	0.	121.8
24	5.53E+08	241	7.55E+04	3617	0.	
26	3.08E+08	261	0.	3914	0.	NT (N/M3)
28	1.43E+08	281	0.	4211	0.	834563.4
30	1.13E+08	301	0.	4508	0.	
						TOTALS
LWC	7.15E-02		2.01E-01		0.	2.81E-01
MED D	19		113		0	109

SAMPLE# 14 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:50:19*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 13 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	2.55E+08	23	2.94E+07	484	7.06E+03	ALT (KM)
4	8.54E+08	43	2.81E+07	647	0.	4.842
6	2.22E+09	62	1.01E+07	944	0.	
8	3.88E+09	82	5.12E+06	1241	0.	TEMP (C)
10	2.75E+09	102	2.72E+06	1538	0.	-12.1
12	2.16E+09	122	2.15E+06	1835	0.	
14	1.59E+09	142	9.25E+05	2132	0.	FROSTPOINT
16	1.45E+09	161	3.66E+05	2429	0.	-22.9
18	1.34E+09	181	1.33E+05	2726	0.	
20	1.41E+09	201	3.88E+04	3023	0.	TAS (M/S)
22	1.06E+09	221	3.39E+04	3320	0.	122.2
24	5.69E+08	241	3.77E+04	3617	0.	
26	2.14E+08	261	2.31E+04	3914	0.	NT (N/M3)
28	1.23E+08	281	1.41E+04	4211	0.	943152.5
30	1.35E+08	301	1.26E+04	4508	0.	
						TOTALS
LWC	6.88E-02		2.27E-01		4.64E-02	2.76E-01
MED D	20		113		484	124

SAMPLE# 14 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:58:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	2.26E+08	23	2.31E+07	484	0.	ALT (KM)
4	8.20E+08	43	1.39E+07	647	0.	4.842
6	2.24E+09	82	9.55E+06	944	0.	
8	4.21E+09	82	5.23E+06	1241	0.	TEMP (C)
10	3.34E+09	112	2.19E+06	1538	0.	-12.2
12	2.39E+09	122	3.31E+05	1835	0.	
14	2.46E+09	142	7.21E+05	2132	0.	FROSTPOINT
16	1.72E+09	161	4.21E+05	2429	0.	-23.0
18	1.89E+09	181	1.70E+05	2726	0.	
20	1.64E+09	201	1.35E+05	3023	0.	TAS (M/S)
22	1.08E+09	221	5.81E+04	3320	0.	121.5
24	6.52E+08	241	0.	3617	0.	
26	3.24E+08	26.	0.	3914	0.	NT (N/M3)
28	1.73E+08	280	0.	4211	0.	782669.7
30	9.79E+07	30.	0.	4508	0.	
						TOTALS
LWC	8.63E-02		1.19E-01		0.	1.89E-01
MED D	19		107		0	107

SAMPLE# 15A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:57:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	3.59E+08	23	5.32E+07	484	7.85E+03	ALT (KM)
4	1.26E+09	43	3.17E+07	647	0.	4.854
6	2.85E+09	62	1.66E+07	944	0.	
8	6.41E+09	82	8.97E+06	1241	0.	TEMP (C)
10	5.76E+09	102	3.48E+06	1538	0.	-11.9
12	4.55E+09	122	1.77E+06	1835	0.	
14	3.70E+09	142	1.38E+06	2132	0.	FROSTPOINT
16	3.47E+09	161	4.18E+05	2429	0.	-25.6
18	3.45E+09	181	3.03E+05	2726	0.	
20	2.67E+09	201	1.85E+05	3023	0.	TAS (M/S)
22	2.31E+09	221	5.77E+04	3320	0.	122.4
24	1.61E+09	241	3.76E+04	3617	0.	
26	1.17E+09	261	2.70E+04	3914	0.	NT (N/M3)
28	6.56E+08	280	1.41E+04	4211	0.	1271465.1
30	4.25E+08	30.	1.25E+04	4508	0.	
						TOTALS
LWC	1.85E-01		3.49E-01		4.63E-02	3.65E-01
MED D	21		110		404	123

SAMPLE# 14 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:58:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 19 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	3.89E+08	23	1.86E+07	484	0.	ALT (KM)
4	1.21E+09	43	1.24E+07	647	0.	4.848
6	3.13E+09	62	7.57E+06	944	0.	
8	4.35E+09	82	3.54E+06	1241	0.	TEMP (C)
10	3.65E+09	102	1.53E+06	1538	0.	-12.2
12	2.76E+09	122	5.49E+05	1835	0.	
14	1.93E+09	142	4.47E+05	2132	0.	FROSTPOINT
16	1.64E+09	161	3.42E+05	2429	0.	-23.0
18	1.84E+09	181	1.70E+05	2726	0.	
20	1.48E+09	201	1.24E+05	3023	0.	TAS (M/S)
22	1.19E+09	221	3.41E+04	3320	0.	121.4
24	7.31E+08	241	3.79E+04	3617	0.	
26	2.86E+08	25.	0.	3914	0.	NT (N/M3)
28	1.58E+08	280	0.	4211	0.	531194.1
30	1.36E+08	30.	0.	4508	0.	
						TOTALS
LWC	8.58E-02		1.42E-01		0.	1.42E-01
MED D	20		113		0	113

SAMPLE# 15A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:57:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	4.53E+08	23	5.95E+07	484	8.16E+03	ALT (KM)
4	1.38E+09	43	3.78E+07	647	0.	4.853
6	3.32E+09	62	1.72E+07	944	0.	
8	6.31E+09	82	9.75E+06	1241	0.	TEMP (C)
10	6.86E+09	102	5.01E+06	1538	0.	-12.1
12	4.87E+09	122	2.25E+06	1835	0.	
14	3.85E+09	142	1.17E+06	2132	0.	FROSTPOINT
16	2.95E+09	161	5.43E+05	2429	0.	-25.7
18	3.54E+09	181	3.67E+05	2726	0.	
20	2.63E+09	201	1.23E+05	3023	0.	TAS (M/S)
22	2.39E+09	221	1.63E+05	3320	0.	122.3
24	1.75E+09	241	3.76E+04	3617	0.	
26	1.35E+09	260	2.46E+04	3914	0.	NT (N/M3)
28	5.46E+08	280	1.61E+04	4211	0.	1475833.2
30	4.71E+08	30.	1.44E+04	4508	0.	
						TOTALS
LWC	1.84E-01		3.71E-01		5.38E-02	4.26E-01
MED D	21		107		404	118

SAMPLE# 15A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:57:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.9
2	3.59E+10	23	7.30E+07	484	1.51E+04	ALT (KM)
4	1.15E+09	43	4.50E+07	647	0.	4.852
6	3.16E+09	62	2.52E+07	944	0.	
8	5.50E+09	82	1.39E+07	1241	0.	TEMP (C)
10	4.33E+09	102	5.37E+06	1538	0.	-12.3
12	4.17E+09	122	2.74E+06	1835	0.	
14	3.02E+09	142	1.65E+06	2132	0.	FROSTPOINT
16	2.58E+09	161	9.97E+05	2429	0.	-25.6
18	2.32E+09	181	6.52E+05	2726	0.	
20	2.61E+09	201	2.16E+05	3023	0.	TAS (M/S)
22	1.91E+09	221	5.78E+04	3320	0.	122.0
24	1.33E+09	241	1.13E+05	3617	0.	
26	7.95E+08	260	5.85E+04	3914	0.	NT (N/M3)
28	3.50E+08	280	3.13E+04	4211	0.	1370562.9
30	2.92E+08	300	2.72E+04	4508	0.	
						TOTALS
LWC	1.44E-01		4.71E-01		9.95E-02	5.69E-01
MED D	21		109		404	125

SAMPLE# 15A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:57:48*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	2.25E+09	23	5.55E+07	484	7.03E+03	ALT (KM)
4	1.18E+09	43	3.49E+07	647	0.	4.853
6	2.54E+09	62	2.12E+07	944	0.	
8	4.85E+09	82	1.13E+07	1241	0.	TEMP (C)
10	4.28E+09	102	5.85E+06	1538	0.	-12.4
12	3.06E+09	122	2.55E+06	1835	0.	
14	2.75E+09	142	1.37E+06	2132	0.	FROSTPOINT
16	2.19E+09	161	1.02E+06	2429	0.	-25.5
18	2.25E+09	181	5.23E+05	2726	0.	
20	1.75E+09	201	2.47E+05	3023	0.	TAS (M/S)
22	1.48E+09	221	2.34E+05	3320	0.	121.8
24	1.04E+09	241	3.78E+04	3617	0.	
26	4.28E+08	260	2.31E+04	3914	0.	NT (N/M3)
28	3.81E+08	280	1.42E+04	4211	0.	1654687.9
30	2.33E+08	300	1.27E+04	4508	0.	
						TOTALS
LWC	1.14E-01		4.59E-01		4.66E-02	5.05E-01
MED D	28		114		404	123

SAMPLE# 15A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:57:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.6
2	1.65E+08	23	3.65E+07	484	5.18E+03	ALT (KM)
4	4.81E+08	43	3.42E+07	647	0.	4.854
6	1.12E+09	62	1.46E+07	944	0.	
8	2.48E+09	82	7.23E+06	1241	0.	TEMP (C)
10	1.99E+09	102	3.99E+06	1538	0.	-12.3
12	1.76E+09	122	2.17E+06	1835	0.	
14	9.62E+08	142	1.27E+06	2132	0.	FROSTPOINT
16	1.04E+09	161	5.14E+05	2429	0.	-25.2
18	1.02E+09	181	3.12E+05	2726	0.	
20	9.62E+08	201	1.24E+05	3023	0.	TAS (M/S)
22	7.57E+08	221	5.81E+04	3320	0.	121.7
24	5.34E+08	241	7.55E+04	3617	0.	
26	2.56E+08	260	3.50E+04	3914	0.	NT (N/M3)
28	1.50E+08	280	1.52E+04	4211	0.	1283965.2
30	9.77E+07	300	1.45E+04	4508	0.	
						TOTALS
LWC	5.73E-02		3.29E-01		5.32E-02	3.82E-01
MED D	21		115		404	127

SAMPLE# 15A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:57:48*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	1.50E+07	23	2.81E+07	484	4.11E+04	ALT (KM)
4	8.25E+07	43	1.59E+07	647	0.	4.853
6	3.08E+08	62	9.23E+06	944	0.	
8	7.46E+08	82	4.73E+06	1241	0.	TEMP (C)
10	5.71E+08	102	1.85E+06	1538	0.	-12.1
12	4.36E+08	122	1.01E+06	1835	0.	
14	4.13E+08	142	4.43E+05	2132	0.	FROSTPOINT
16	3.15E+08	161	1.84E+05	2429	0.	-25.8
18	4.58E+08	181	2.55E+05	2726	0.	
20	2.63E+08	201	1.54E+05	3023	0.	TAS (M/S)
22	3.23E+08	221	1.36E+05	3320	0.	121.8
24	1.73E+08	241	7.55E+04	3617	0.	
26	6.76E+07	260	7.88E+04	3914	0.	NT (N/M3)
28	2.25E+07	280	9.23E+04	4211	0.	701046.1
30	3.08E+07	300	7.37E+04	4508	0.	
						TOTALS
LWC	1.95E-02		2.39E-01		6.78E-01	5.09E-01
MED D	28		149		404	321

SAMPLE# 15A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0000571500
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.6
2	0.	23	1.54E+07	404	7.10E+03	ALT (KM)
4	0.	43	1.24E+07	647	0.	4.854
6	3.76E+07	62	5.62E+06	944	0.	
8	4.52E+07	82	2.81E+06	1241	0.	TEMP (C)
10	6.02E+07	102	1.59E+06	1538	0.	-11.9
12	6.02E+07	122	7.29E+05	1835	0.	
14	3.01E+07	142	4.46E+05	2132	0.	FROSTPOINT
16	2.26E+07	161	1.84E+05	2429	0.	-24.9
18	2.26E+07	81	1.39E+05	2726	0.	
20	1.51E+07	201	1.24E+05	3023	0.	TAS (M/S)
22	7.53E+06	201	3.41E+04	3320	0.	121.5
24	7.53E+06	241	3.79E+04	3617	0.	
26	1.51E+07	260	2.32E+04	3914	0.	WT (N/M3)
28	0.	280	1.42E+04	4211	0.	508246.5
30	0.	300	1.27E+04	4508	0.	
						TOTALS
LWC	1.15E-03		1.43E-01		4.67E-02	1.89E-01
MED D	19		122		404	160

SAMPLE# 15B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0000571530
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.9
2	0.	23	5.68E+07	404	2.41E+04	ALT (KM)
4	1.22E+08	43	2.25E+07	647	0.	4.852
6	4.86E+08	62	1.06E+07	944	0.	
8	7.33E+08	82	4.25E+06	1241	0.	TEMP (C)
10	6.81E+08	102	1.78E+06	1538	0.	-11.6
12	3.67E+08	122	1.48E+06	1835	0.	
14	3.52E+08	142	6.48E+05	2132	0.	FROSTPOINT
16	3.22E+08	161	3.45E+05	2429	0.	-25.4
18	3.73E+08	181	2.31E+05	2726	0.	
20	3.86E+08	201	1.89E+05	3023	0.	TAS (M/S)
22	2.30E+08	221	1.73E+05	3320	0.	119.5
24	1.22E+08	241	0.	3617	0.	
26	9.35E+07	260	2.41E+04	3914	0.	WT (N/M3)
28	4.53E+07	280	4.81E+04	4211	0.	842576.7
30	2.33E+07	300	4.31E+04	4508	0.	
						TOTALS
LWC	1.73E-02		2.36E-01		1.53E-01	3.94E-01
MED D	20		128		484	228

SAMPLE# 15B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0000571557
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	0.	23	2.78E+07	404	1.68E+04	ALT (KM)
4	5.36E+07	43	1.87E+07	647	0.	4.853
6	8.42E+07	62	7.55E+06	944	0.	
8	1.15E+08	82	4.17E+06	1241	0.	TEMP (C)
10	1.38E+08	102	2.61E+06	1538	0.	-11.4
12	1.53E+08	122	1.07E+06	1835	0.	
14	6.53E+07	142	6.86E+05	2132	0.	FROSTPOINT
16	2.30E+07	161	2.40E+05	2429	0.	-25.4
18	4.59E+07	181	2.31E+05	2726	0.	
20	7.65E+07	201	9.44E+04	3023	0.	TAS (M/S)
22	6.39E+07	221	1.14E+05	3320	0.	119.6
24	7.65E+06	241	3.85E+04	3617	0.	
26	7.65E+06	260	3.61E+04	3914	0.	WT (N/M3)
28	2.30E+07	280	3.37E+04	4211	0.	784218.9
30	0.	300	3.71E+04	4508	0.	
						TOTALS
LWC	3.31E-03		2.81E-01		1.11E-01	3.11E-01
MED D	20		119		404	199

SAMPLE# 15C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#0000571553
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	6.15E+07	23	2.12E+07	404	1.93E+04	ALT (KM)
4	3.23E+08	43	1.94E+07	647	0.	4.849
6	5.15E+08	62	1.02E+07	944	0.	
8	1.33E+08	82	5.73E+06	1241	0.	TEMP (C)
10	1.12E+08	102	3.35E+06	1538	0.	-11.7
12	7.76E+08	122	1.57E+06	1835	0.	
14	8.30E+08	142	5.21E+05	2132	0.	FROSTPOINT
16	4.77E+08	161	3.76E+05	2429	0.	-25.5
18	6.38E+08	181	3.48E+05	2726	0.	
20	4.69E+08	201	1.58E+05	3023	0.	TAS (M/S)
22	3.84E+08	221	5.96E+04	3320	0.	119.0
24	3.80E+08	241	9.86E+04	3617	0.	
26	1.61E+08	260	3.86E+04	3914	0.	WT (N/M3)
28	7.69E+07	280	3.86E+04	4211	0.	852908.7
30	3.84E+07	300	3.46E+04	4508	0.	
						TOTALS
LWC	3.88E-02		2.59E-01		1.27E-01	3.86E-01
MED D	20		117		404	179

SAMPLE# 158 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:00*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.54E+08	23	3.35E+07	404	2.17E+04	ALT (KM)
4	4.31E+08	43	1.62E+07	647	0.	4.852
6	1.21E+09	62	1.61E+07	944	0.	
8	2.07E+09	82	5.75E+06	1241	0.	TEMP (C)
10	1.73E+09	102	3.13E+06	1538	0.	-11.8
12	1.46E+09	122	1.29E+06	1835	0.	
14	9.07E+08	142	5.14E+05	2132	0.	FROSTPOINT
16	1.05E+09	161	5.17E+05	2429	0.	-25.5
18	1.21E+09	181	1.45E+05	2726	0.	
20	7.15E+08	201	1.58E+05	3023	0.	TAS (M/S)
22	6.23E+08	221	1.74E+05	3320	0.	119.0
24	4.61E+08	241	3.86E+04	3617	0.	
26	2.34E+08	261	4.10E+04	3914	0.	NT (N/M3)
28	1.31E+08	280	4.35E+04	4211	0.	763381.1
30	1.46E+08	300	3.84E+04	4508	0.	
						TOTALS
LWC	5.33E-02		2.65E-01		1.43E-01	4.03E-01
MED D	20		125		404	204

SAMPLE# 158 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:02*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.46E+08	23	3.13E+07	404	1.63E+04	ALT (KM)
4	5.00E+08	43	2.59E+07	647	0.	4.852
6	1.43E+09	62	1.24E+07	944	0.	
8	2.53E+09	82	5.42E+06	1241	0.	TEMP (C)
10	2.15E+09	102	2.57E+06	1538	0.	-12.8
12	1.55E+09	122	1.49E+06	1835	0.	
14	1.19E+09	142	5.80E+05	2132	0.	FROSTPOINT
16	1.11E+09	161	4.33E+05	2429	0.	-25.64
18	1.12E+09	181	3.77E+05	2726	0.	
20	1.00E+09	201	2.22E+05	3023	0.	TAS (M/S)
22	8.33E+08	221	5.96E+04	3320	0.	118.9
24	6.08E+08	241	0.	3617	0.	
26	3.06E+08	260	1.53E+04	3914	0.	NT (N/M3)
28	1.23E+08	280	3.78E+04	4211	0.	990218.0
30	1.46E+08	300	3.43E+04	4508	0.	
						TOTALS
LWC	6.16E-02		2.62E-01		1.11E-01	3.73E-01
MED D	21		121		404	165

SAMPLE# 158 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:01*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.76E+08	23	3.71E+07	404	9.64E+03	ALT (KM)
4	5.45E+08	43	2.18E+07	647	0.	4.852
6	1.53E+09	62	1.21E+07	944	0.	
8	2.49E+09	82	5.98E+06	1241	0.	TEMP (C)
10	1.96E+09	102	3.01E+06	1538	0.	-12.0
12	1.53E+09	122	1.49E+06	1835	0.	
14	1.13E+09	142	4.55E+05	2132	0.	FROSTPOINT
16	9.21E+08	161	4.29E+05	2429	0.	-25.6
18	1.12E+09	181	3.47E+05	2726	0.	
20	8.44E+08	201	3.47E+04	3023	0.	TAS (M/S)
22	7.52E+08	221	2.18E+05	3320	0.	119.3
24	5.14E+08	241	0.	3617	0.	
26	3.15E+08	260	9.64E+03	3914	0.	NT (N/M3)
28	1.15E+08	280	1.93E+04	4211	0.	806144.6
30	1.30E+08	300	1.73E+04	4508	0.	
						TOTALS
LWC	5.66E-02		2.40E-01		6.34E-02	3.12E-01
MED D	21		112		+04	138

SAMPLE# 158 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	2.31E+08	23	3.13E+07	404	1.45E+04	ALT (KM)
4	6.59E+08	43	2.64E+07	647	0.	4.852
6	1.74E+09	62	1.43E+07	944	0.	
8	2.87E+09	82	7.55E+06	1241	0.	TEMP (C)
10	2.60E+09	102	4.19E+06	1538	0.	-12.1
12	1.93E+09	122	1.91E+06	1835	0.	
14	1.42E+09	142	1.20E+06	2132	0.	FROSTPOINT
16	1.35E+09	161	5.37E+05	2429	0.	-25.7
18	1.51E+09	181	4.06E+05	2726	0.	
20	1.09E+09	201	3.48E+05	3023	0.	TAS (M/S)
22	8.51E+08	221	2.09E+05	3320	0.	119.0
24	7.23E+08	241	3.86E+04	3617	0.	
26	4.15E+08	260	3.75E+04	3914	0.	NT (N/M3)
28	1.85E+08	280	2.90E+04	4211	0.	1136538.6
30	9.99E+07	300	2.64E+04	4508	0.	
						TOTALS
LWC	7.26E-02		3.55E-01		9.53E-02	4.90E-01
MED D	20		124		404	191

SAMPLE# 158 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:04*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 26 GPM DISTANCE# 480 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	2.30E+09	23	4.43E+07	484	1.55E+04	ALT (KM)
4	7.78E+08	43	3.47E+07	647	0.	4.853
6	2.33E+09	62	1.40E+07	944	0.	
8	3.93E+09	82	3.05E+06	1241	0.	TEMP (C)
10	3.46E+09	102	3.55E+06	1538	0.	-12.2
12	2.49E+09	122	2.61E+06	1835	0.	
14	2.19E+09	142	1.24E+06	2132	0.	FROSTPOINT
16	1.56E+09	161	3.50E+05	2429	0.	-25.7
18	1.78E+09	181	2.13E+05	2726	0.	
20	1.36E+09	201	1.98E+05	3023	0.	TAS (M/S)
22	1.26E+09	221	5.97E+04	3320	0.	118.8
24	9.34E+08	241	1.05E+05	3617	0.	
26	4.31E+08	260	6.34E+04	3914	0.	NT (N/M3)
28	2.23E+09	280	3.11E+04	4211	0.	1389150.1
30	2.80E+08	300	2.79E+04	4508	0.	
						TOTALS
LWC	9.49E-02		3.49E-01		1.02E-01	4.52E-01
MED D	21		119		404	140

SAMPLE# 158 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 26 GPM DISTANCE# 480 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	3.32E+08	23	3.36E+07	484	3.23E+03	ALT (KM)
4	8.13E+08	43	2.57E+07	647	1.71E+01	4.853
6	2.38E+09	62	1.39E+07	944	0.	
8	4.03E+09	82	5.51E+06	1241	0.	TEMP (C)
10	3.93E+09	102	3.59E+06	1538	0.	-12.4
12	3.08E+09	122	2.24E+06	1835	0.	
14	2.25E+09	142	1.01E+06	2132	0.	FROSTPOINT
16	1.72E+09	161	7.27E+05	2429	0.	-25.7
18	2.23E+09	181	2.62E+05	2726	0.	
20	1.70E+09	201	1.27E+05	3023	0.	TAS (M/S)
22	1.42E+09	221	2.09E+05	3320	0.	118.6
24	1.19E+09	241	7.76E+04	3617	0.	
26	6.71E+08	256	5.95E+04	3914	0.	NT (N/M3)
28	3.32E+08	280	4.37E+04	4211	0.	1077383.1
30	2.85E+08	300	3.18E+04	4508	0.	
						TOTALS
LWC	1.17E-01		3.37E-01		2.19E-02	3.99E-01
MED D	21		125		468	138

SAMPLE# 159 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 26 GPM DISTANCE# 480 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	2.55E+08	23	4.43E+07	484	0.	ALT (KM)
4	9.95E+08	43	3.33E+07	647	0.	4.852
6	2.34E+09	62	1.31E+07	944	0.	
8	4.11E+09	82	5.31E+06	1241	1.89E+01	TEMP (C)
10	4.08E+09	102	4.15E+06	1538	0.	-12.3
12	2.86E+09	122	2.16E+06	1835	0.	
14	2.69E+09	142	9.87E+05	2132	0.	FROSTPOINT
16	1.97E+09	161	3.88E+05	2429	0.	-25.7
18	1.38E+09	181	3.78E+05	2726	0.	
20	1.91E+09	201	3.43E+05	3323	0.	TAS (M/S)
22	1.58E+09	221	1.75E+05	3320	0.	118.6
24	1.08E+09	241	0.	3617	0.	
26	7.25E+08	260	0.	3914	0.	NT (N/M3)
28	3.24E+08	280	0.	4211	0.	1274619.4
30	3.32E+08	300	0.	4508	0.	
						TOTALS
LWC	1.22E-01		3.45E-01		5.62E-13	3.51E-01
MED D	21		115		1241	116

SAMPLE# 159 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#00:58:07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 26 GPM DISTANCE# 480 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	4.81E+08	23	3.47E+07	484	1.88E+04	ALT (KM)
4	9.71E+08	43	2.58E+07	647	0.	4.853
6	2.57E+09	62	1.31E+07	944	0.	
8	4.75E+09	82	5.42E+06	1241	0.	TEMP (C)
10	4.35E+09	102	2.91E+06	1538	0.	-12.5
12	3.13E+09	122	1.45E+06	1835	0.	
14	2.56E+09	142	8.81E+05	2132	0.	FROSTPOINT
16	2.00E+09	161	2.95E+05	2429	0.	-25.7
18	2.23E+09	181	2.13E+05	2726	0.	
20	1.63E+09	201	1.91E+05	3023	0.	TAS (M/S)
22	1.57E+09	221	1.85E+05	3320	0.	118.7
24	1.12E+09	241	3.87E+04	3617	0.	
26	5.78E+08	260	3.73E+04	3914	0.	NT (N/M3)
28	2.47E+08	280	3.63E+04	4211	0.	1043790.4
30	2.80E+08	300	3.22E+04	4508	0.	
						TOTALS
LWC	1.14E-01		2.69E-01		1.18E-01	3.97E-01
MED D	20		114		484	104

SAMPLE# 158 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:58:08*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	2.77E+08	23	3.13E+07	404	1.55E+04	ALT (KM)
4	8.77E+08	43	2.12E+07	647	0.	4.853
6	2.38E+09	62	1.08E+07	944	0.	
8	4.23E+09	82	6.01E+06	1241	0.	TEMP (C)
10	3.52E+09	102	2.46E+06	1538	0.	-12.5
12	2.79E+09	122	9.94E+05	1835	0.	
14	2.03E+09	142	5.84E+05	2132	0.	FROSTPOINT
16	1.71E+09	161	4.84E+05	2429	0.	-25.6
18	1.89E+09	181	3.32E+05	2726	0.	
20	1.60E+09	201	2.53E+05	3023	0.	TAS (M/S)
22	1.43E+09	221	2.30E+04	3320	0.	118.9
24	9.71E+08	241	7.71E+04	3617	0.	
26	6.16E+08	260	4.91E+04	3914	0.	NT (N/M3)
28	2.85E+08	280	3.11E+04	4211	0.	560528.2
30	2.54E+08	300	2.78E+04	4508	0.	
						TOTALS
LWC	1.07E-01		2.92E-01		1.12E-01	3.55E-01
MED D	21		126		404	177

SAMPLE# 159 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:58:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	2.92E+08	23	1.90E+07	404	2.33E+04	ALT (KM)
4	1.14E+09	43	1.85E+07	647	0.	4.853
6	2.31E+09	62	7.32E+06	944	0.	
8	4.13E+09	82	3.95E+06	1241	0.	TEMP (C)
10	3.91E+09	102	1.68E+06	1538	0.	-12.4
12	3.16E+09	122	1.23E+06	1835	0.	
14	2.21E+09	142	3.54E+05	2132	0.	FROSTPOINT
16	1.76E+09	161	1.38E+05	2429	0.	-25.4
18	1.95E+09	181	5.86E+04	2726	0.	
20	1.55E+09	201	3.17E+04	3023	0.	TAS (M/S)
22	1.36E+09	221	6.35E+04	3320	0.	118.9
24	1.13E+09	241	0.	3617	0.	
26	6.80E+08	260	2.38E+04	3914	0.	NT (N/M3)
28	3.16E+08	280	4.77E+04	4211	0.	569979.8
30	3.39E+08	300	4.27E+04	4508	0.	
						TOTALS
LWC	1.11E-01		1.55E-01		1.57E-01	3.21E-01
MED D	21		115		404	304

SAMPLE# 15C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:58:14*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	2.30E+08	23	3.11E+07	404	7.26E+04	ALT (KM)
4	1.08E+09	43	2.54E+07	647	0.	4.850
6	2.83E+09	62	1.28E+07	944	0.	
8	4.54E+09	82	5.78E+06	1241	0.	TEMP (C)
10	4.29E+09	102	3.16E+06	1538	0.	-12.0
12	3.35E+09	122	1.48E+06	1835	0.	
14	2.54E+09	142	6.13E+05	2132	0.	FROSTPOINT
16	2.04E+09	161	4.52E+05	2429	0.	-24.9
18	2.26E+09	181	3.16E+05	2726	0.	
20	1.88E+09	201	1.57E+05	3023	0.	TAS (M/S)
22	1.65E+09	221	1.72E+05	3320	0.	120.0
24	1.07E+09	241	3.87E+04	3617	0.	
26	7.55E+08	260	4.15E+04	3914	0.	NT (N/M3)
28	3.43E+08	280	4.52E+04	4211	0.	1081671.5
30	2.86E+08	300	4.04E+04	4508	0.	
						TOTALS
LWC	1.22E-01		2.75E-01		1.48E-01	4.23E-01
MED D	21		119		404	198

SAMPLE# 15C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:58:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	4.18E+08	23	3.75E+07	404	2.25E+04	ALT (KM)
4	1.11E+09	43	3.20E+07	647	0.	4.853
6	2.86E+09	62	1.62E+07	944	0.	
8	4.78E+09	82	5.91E+06	1241	0.	TEMP (C)
10	4.91E+09	102	2.98E+06	1538	0.	-12.1
12	3.35E+09	122	1.96E+06	1835	0.	
14	2.64E+09	142	5.77E+05	2132	0.	FROSTPOINT
16	2.44E+09	161	3.72E+05	2429	0.	-24.9
18	2.59E+09	181	2.29E+05	2726	0.	
20	2.28E+09	201	2.19E+05	3023	0.	TAS (M/S)
22	1.93E+09	221	3.44E+04	3320	0.	120.3
24	1.26E+09	241	7.65E+04	3617	0.	
26	8.67E+08	260	3.87E+04	3914	0.	NT (N/M3)
28	3.35E+08	280	4.51E+04	4211	0.	1228397.4
30	3.35E+08	300	4.04E+04	4508	0.	
						TOTALS
LWC	1.42E-01		3.65E-01		1.48E-01	6.53E-01
MED D	21		113		404	174

SAMPLE# 15C AFFRI ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:58:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	2.31E+08	23	4.74E+07	404	1.53E+04	ALT (KM)
4	1.18E+08	43	3.85E+07	647	0.	4.853
6	2.84E+09	82	1.45E+07	944	0.	
8	4.49E+08	92	9.48E+06	1241	0.	TEMP (C)
10	4.35E+09	132	4.08E+06	1538	0.	-12.3
12	3.56E+09	142	2.54E+06	1835	0.	
14	3.00E+09	152	9.32E+05	2132	0.	FROSTPOINT
16	2.34E+09	161	5.89E+05	2429	0.	-24.9
18	2.47E+09	181	2.60E+05	2726	0.	
20	2.12E+09	201	2.19E+05	3023	0.	TAS (M/S)
22	1.36E+09	221	1.03E+05	3320	0.	120.6
24	1.31E+09	241	0.	3617	0.	
25	8.56E+08	260	1.53E+04	3914	0.	NT (N/M3)
28	3.49E+08	280	3.07E+04	4211	0.	1493089.9
30	3.19E+08	300	2.75E+04	4508	0.	
						TOTALS
LWC	1.40E-01		3.58E-01		1.31E-01	4.59E-01
MED D	21		103		404	128

SAMPLE# 15C AFFRI ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:58:19*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	2.53E+08	23	5.25E+07	404	2.48E+04	ALT (KM)
4	9.31E+08	43	3.44E+07	647	0.	4.854
6	2.19E+09	82	1.76E+07	944	0.	
8	3.94E+08	92	7.61E+06	1241	0.	TEMP (C)
10	3.60E+09	132	4.23E+06	1538	0.	-12.5
12	2.57E+09	122	2.16E+06	1835	0.	
14	2.28E+09	142	1.35E+06	2132	0.	FROSTPOINT
16	1.59E+09	161	3.17E+05	2429	0.	-24.8
18	1.79E+09	181	2.60E+05	2726	0.	
20	1.45E+09	201	1.56E+05	3023	0.	TAS (M/S)
22	1.26E+09	221	5.55E+04	3320	0.	120.9
24	9.39E+08	241	3.89E+04	3617	0.	
25	5.93E+08	260	4.34E+04	3914	0.	NT (N/M3)
28	2.35E+08	280	4.96E+04	4211	0.	1760264.9
30	1.7+E+08	300	4.44E+04	4508	0.	
						TOTALS
LWC	9.81E-02		3.41E-01		1.63E-01	5.04E-01
MED D	21		110		404	150

SAMPLE# 15C AFFRI ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:58:17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	3.49E+08	23	4.42E+07	404	0.	ALT (KM)
4	1.45E+09	43	3.77E+07	647	0.	4.852
6	2.51E+09	82	1.71E+07	944	0.	
8	4.41E+09	92	1.11E+07	1241	0.	TEMP (C)
10	4.24E+09	132	4.51E+06	1538	0.	-12.4
12	3.26E+09	122	2.41E+06	1835	0.	
14	2.73E+09	142	1.16E+06	2132	0.	FROSTPOINT
16	2.32E+09	161	5.47E+05	2429	0.	-24.9
18	2.61E+09	181	3.43E+05	2726	0.	
20	1.92E+09	201	2.49E+05	3023	0.	TAS (M/S)
22	1.32E+09	221	1.37E+05	3320	0.	120.7
24	1.23E+09	241	3.91E+04	3617	0.	
25	9.32E+08	260	0.	3914	0.	NT (N/M3)
28	4.17E+08	280	0.	4211	0.	1495931.9
30	3.86E+08	300	0.	4508	0.	
						TOTALS
LWC	1.42E-01		3.78E-01		0.	5.20E-01
MED D	21		103		0	109

SAMPLE# 15C AFFRI ICING SPRAY TEST BY AFGL
FLIGHT E79-13 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:58:19*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.37E+08	23	6.15E+07	404	9.50E+03	ALT (KM)
4	9.47E+08	43	3.87E+07	647	0.	4.853
6	2.31E+09	82	1.85E+07	944	0.	
8	3.73E+09	92	1.09E+07	1241	0.	TEMP (C)
10	3.39E+09	132	4.89E+06	1538	0.	-12.5
12	2.59E+09	122	2.81E+06	1835	0.	
14	1.76E+09	142	1.60E+06	2132	0.	FROSTPOINT
16	1.61E+09	161	7.66E+05	2429	0.	-24.8
18	1.66E+09	181	4.28E+05	2726	0.	
20	1.35E+09	201	1.55E+05	3023	0.	TAS (M/S)
22	1.20E+09	221	2.05E+05	3320	0.	121.0
24	8.26E+08	241	7.60E+04	3617	0.	
26	5.29E+08	260	3.80E+04	3914	0.	NT (N/M3)
28	2.12E+08	280	1.99E+04	4211	0.	1575385.2
30	1.21E+08	300	1.70E+04	4508	0.	
						TOTALS
LWC	8.92E-02		4.33E-01		6.25E-32	4.96E-01
MED D	20		115		404	127

SAMPLE# 15C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI 420 FLOW RATE: 26 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	2.57E+08	23	5.92E+07	404	0.	ALT (KM)
4	9.83E+08	43	3.68E+07	647	0.	4.854
6	2.22E+09	62	2.18E+07	944	0.	
8	4.13E+09	82	9.62E+06	1241	0.	TEMP (C)
10	3.36E+09	102	5.06E+06	1538	0.	-12.5
12	2.53E+09	122	1.79E+06	1835	0.	
14	1.72E+09	142	1.54E+06	2132	0.	FROSTPOINT
16	1.47E+09	161	6.09E+05	2429	0.	-24.6
18	1.45E+09	181	3.71E+05	2726	0.	
20	1.28E+09	201	1.24E+05	3023	0.	TAS (M/S)
22	1.10E+09	221	1.71E+05	3320	0.	120.9
24	9.15E+08	241	3.81E+04	3617	0.	
26	3.56E+08	261	0.	3914	0.	NT (N/M3)
28	2.42E+08	280	0.	4211	0.	1582149.3
30	1.66E+08	300	0.	4508	0.	
						TOTALS
LWC	8.52E-02		3.75E-01		0.	3.75E-01
MED D	21		104		0	104

SAMPLE# 15C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:22*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI 420 FLOW RATE: 26 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	2.49E+08	23	5.43E+07	404	4.04E+04	ALT (KM)
4	9.45E+08	43	3.38E+07	647	0.	4.853
6	2.49E+09	62	1.57E+07	944	0.	
8	3.86E+09	82	9.72E+06	1241	0.	TEMP (C)
10	3.67E+09	102	4.90E+06	1538	0.	-12.5
12	2.93E+09	122	2.20E+06	1835	0.	
14	2.20E+09	142	1.48E+06	2132	0.	FROSTPOINT
16	1.90E+09	161	5.28E+05	2429	0.	-24.5
18	2.12E+09	181	2.28E+05	2726	0.	
20	1.56E+09	201	1.24E+05	3023	0.	TAS (M/S)
22	1.44E+09	221	1.71E+05	3320	0.	121.1
24	1.11E+09	241	1.14E+05	3617	0.	
26	6.58E+08	261	9.53E+04	3914	0.	NT (N/M3)
28	3.10E+08	280	9.07E+04	4211	0.	1346488.3
30	2.49E+08	300	7.23E+04	4508	0.	
						TOTALS
LWC	1.13E-01		3.98E-01		2.65E-11	6.64E-01
MED D	21		122		404	239

SAMPLE# 15C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI 420 FLOW RATE: 26 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	2.57E+08	23	4.76E+07	404	2.14E+04	ALT (KM)
4	9.53E+08	43	3.76E+07	647	0.	4.854
6	2.30E+09	62	1.52E+07	944	0.	
8	4.05E+09	82	9.29E+06	1241	0.	TEMP (C)
10	3.65E+09	102	5.38E+06	1538	0.	-12.5
12	2.87E+09	122	2.77E+06	1835	0.	
14	2.05E+09	142	1.31E+06	2132	0.	FROSTPOINT
16	1.57E+09	161	3.81E+05	2429	0.	-24.6
18	1.72E+09	181	2.57E+05	2726	0.	
20	1.60E+09	201	3.42E+05	3023	0.	TAS (M/S)
22	1.29E+09	221	2.05E+05	3320	0.	121.8
24	9.58E+08	241	1.14E+05	3617	0.	
26	5.67E+08	260	5.98E+04	3914	0.	NT (N/M3)
28	3.10E+08	280	4.28E+04	4211	0.	1452731.8
30	2.42E+08	300	3.83E+04	4508	0.	
						TOTALS
LWC	1.03E-01		4.28E-01		1.41E-11	5.68E-01
MED D	21		120		404	152

SAMPLE# 15C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI 420 FLOW RATE: 26 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	2.64E+08	23	3.43E+07	404	1.76E+04	ALT (KM)
4	1.06E+09	43	2.97E+07	647	0.	4.854
6	2.45E+09	62	1.61E+07	944	0.	
8	4.58E+09	82	8.21E+06	1241	0.	TEMP (C)
10	4.49E+09	102	3.67E+06	1538	0.	-12.5
12	3.68E+09	122	2.03E+06	1835	0.	
14	2.42E+09	142	1.02E+06	2132	0.	FROSTPOINT
16	2.28E+09	161	5.27E+05	2429	0.	-24.4
18	2.53E+09	181	2.85E+05	2726	0.	
20	1.83E+09	201	5.21E+04	3023	0.	TAS (M/S)
22	1.77E+09	221	1.13E+05	3320	0.	121.2
24	1.19E+09	241	7.59E+04	3617	0.	
26	6.27E+08	260	5.17E+04	3914	0.	NT (N/M3)
28	3.48E+08	280	3.53E+04	4211	0.	1198532.3
30	3.47E+08	300	3.16E+04	4508	0.	
						TOTALS
LWC	1.30E-01		3.13E-01		1.16E-01	4.29E-01
MED D	21		116		404	140

SAMPLE# 15C AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 08:58:26
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 26 GPM DISTANCE# 400 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.7
2	3.42E+08	23	3.18E+07	404	9.48E+03	ALT (KM)
4	1.16E+09	43	2.39E+07	647	0.	4.853
6	2.81E+09	62	1.23E+07	944	0.	
8	4.57E+09	82	5.24E+06	1241	0.	TEMP (C)
10	4.33E+09	102	2.74E+06	1538	0.	-12.5
12	3.27E+09	122	1.14E+06	1835	0.	
14	2.74E+09	142	9.59E+05	2132	0.	FROSTPOINT
16	2.45E+09	161	4.22E+05	2429	0.	-24.3
18	2.24E+09	181	2.28E+05	2726	0.	
20	1.52E+09	201	9.31E+04	3023	0.	TAS (M/S)
22	1.64E+09	221	3.41E+04	3320	0.	121.2
24	1.16E+09	241	3.79E+04	3617	0.	
26	5.21E+08	260	2.58E+04	3914	0.	NT (N/M3)
28	3.24E+08	280	1.30E+04	4211	0.	936566.4
30	2.57E+08	300	1.70E+04	4508	0.	
						TOTALS
LWC	1.21E-01		2.32E-01		6.23E-02	2.94E-01
MED D	21		111		404	137

SAMPLE# 16 AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 08:58:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 951.1
2	4.57E+08	23	3.70E+07	404	3.87E+04	ALT (KM)
4	1.35E+09	43	2.60E+07	647	0.	4.849
6	3.46E+09	62	1.56E+07	944	0.	
8	4.96E+09	82	1.09E+07	1241	0.	TEMP (C)
10	3.64E+09	102	5.42E+06	1538	0.	-11.7
12	2.51E+09	122	2.92E+06	1835	0.	
14	1.82E+09	142	2.03E+06	2132	0.	FROSTPOINT
16	1.27E+09	161	1.05E+06	2429	0.	-24.1
18	1.23E+09	181	7.02E+05	2726	0.	
20	1.01E+09	201	3.08E+05	3023	0.	TAS (M/S)
22	1.30E+09	221	2.37E+05	3320	0.	122.2
24	6.22E+08	241	1.51E+05	3617	0.	
26	4.34E+08	260	1.06E+05	3914	0.	NT (N/M3)
28	2.23E+08	280	7.93E+04	4211	0.	1325915.4
30	3.15E+08	300	7.19E+04	4508	0.	
						TOTALS
LWC	8.31E-02		5.44E-01		2.61E-11	8.05E-01
MED D	21		136		404	188

SAMPLE# 16 AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 08:58:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 951.8
2	3.33E+08	23	2.54E+07	404	1.51E+04	ALT (KM)
4	1.12E+09	43	2.54E+07	647	0.	4.850
6	2.99E+09	62	1.33E+07	944	0.	
8	4.11E+09	82	6.48E+06	1241	0.	TEMP (C)
10	3.45E+09	102	4.68E+06	1538	0.	-11.6
12	2.21E+09	122	1.77E+06	1835	0.	
14	1.61E+09	142	1.33E+06	2132	0.	FROSTPOINT
16	1.12E+09	161	4.71E+05	2429	0.	-24.1
18	1.27E+09	181	2.83E+05	2726	0.	
20	8.34E+08	201	3.38E+05	3023	0.	TAS (M/S)
22	9.97E+08	221	1.76E+05	3320	0.	122.1
24	6.59E+08	241	3.77E+04	3617	0.	
26	4.85E+08	260	3.38E+04	3914	0.	NT (N/M3)
28	1.95E+08	280	3.23E+04	4211	0.	1138374.6
30	2.17E+08	300	2.71E+04	4508	0.	
						TOTALS
LWC	7.54E-02		3.23E-01		9.95E-12	4.22E-01
MED D	21		123		404	149

SAMPLE# 16 AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START# 08:58:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 951.8
2	4.57E+08	23	4.73E+07	404	2.36E+04	ALT (KM)
4	1.54E+09	43	3.47E+07	647	0.	4.850
6	4.30E+09	62	2.84E+07	944	0.	
8	4.83E+09	82	1.72E+07	1241	0.	TEMP (C)
10	4.87E+09	102	9.50E+06	1538	0.	-11.8
12	2.52E+09	122	3.63E+06	1835	0.	
14	2.07E+09	142	1.65E+06	2132	0.	FROSTPOINT
16	1.25E+09	161	9.95E+05	2429	0.	-24.1
18	1.25E+09	181	3.96E+05	2726	0.	
20	9.52E+08	201	2.47E+05	3023	0.	TAS (M/S)
22	9.45E+08	221	3.73E+05	3320	0.	122.0
24	7.87E+08	241	2.25E+05	3617	0.	
26	4.28E+08	260	1.03E+05	3914	0.	NT (N/M3)
28	2.25E+08	280	4.71E+04	4211	0.	1595421.5
30	1.80E+08	300	4.22E+04	4508	0.	
						TOTALS
LWC	8.11E-02		5.45E-01		1.55E-11	7.08E-01
MED D	21		127		404	157

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	4.58E+08	23	3.7xE+07	404	4.68E+04	ALT (KM)
4	1.51E+09	43	3.5xE+07	647	0.	4.849
6	3.53E+09	62	2.30E+07	944	0.	
8	5.36E+09	82	9.81E+06	1241	0.	TEMP (C)
10	3.32E+09	102	5.05E+06	1538	0.	-12.0
12	2.81E+09	122	3.19E+06	1835	0.	
14	1.67E+09	142	2.1xE+06	2132	0.	FROSTPOINT
16	1.16E+09	161	1.23E+06	2429	0.	-24.1
18	1.61E+08	181	5.94E+05	2726	0.	
20	1.16E+08	201	3.79E+05	3023	0.	TAS (M/S)
22	1.15E+08	221	2.41E+05	3320	0.	122.0
24	8.93E+08	241	2.26E+05	3617	0.	
26	5.83E+08	260	1.46E+05	3914	0.	NT (N/M3)
28	3.39E+08	281	9.36E+04	4211	0.	1618148.2
30	2.40E+08	300	5.78E+04	4508	0.	
						TOTALS
LWC	9.35E-02		5.11E-01		7.18E-01	9.19E-01
MED D	21		142		404	212

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	2.55E+08	23	3.05E+07	404	3.96E+04	ALT (KM)
4	1.15E+09	43	3.47E+07	647	0.	4.852
6	2.37E+09	62	1.68E+07	944	0.	
8	4.32E+09	82	8.5xE+06	1241	0.	TEMP (C)
10	2.91E+09	102	5.62E+06	1538	0.	-12.0
12	2.06E+09	122	3.23E+06	1835	0.	
14	1.40E+09	142	1.30E+06	2132	0.	FROSTPOINT
16	1.11E+09	161	7.50E+05	2429	0.	-23.8
18	1.15E+08	181	5.51E+05	2726	0.	
20	8.66E+08	201	4.01E+05	3023	0.	TAS (M/S)
22	9.23E+08	221	2.39E+05	3320	0.	121.9
24	6.68E+08	241	1.13E+05	3617	0.	
26	3.88E+08	260	9.69E+04	3914	0.	NT (N/M3)
28	2.83E+08	280	7.35E+04	4211	0.	1445232.8
30	1.43E+08	300	7.12E+04	4508	0.	
						TOTALS
LWC	6.87E-02		4.97E-01		2.61E-01	7.50E-01
MED D	21		131		404	208

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	4.55E+08	23	4.30E+07	404	1.65E+04	ALT (KM)
4	1.37E+09	43	3.56E+07	647	0.	4.850
6	3.44E+09	62	1.76E+07	944	0.	
8	4.89E+09	82	9.78E+06	1241	0.	TEMP (C)
10	3.41E+09	102	5.51E+06	1538	0.	-12.0
12	2.31E+09	122	3.07E+06	1835	0.	
14	1.68E+09	142	1.79E+06	2132	0.	FROSTPOINT
16	1.17E+09	161	9.55E+05	2429	0.	-24.0
18	1.13E+09	181	7.92E+05	2726	0.	
20	9.31E+08	201	3.70E+05	3023	0.	TAS (M/S)
22	8.68E+08	221	2.72E+05	3320	0.	121.9
24	7.13E+08	241	1.83E+05	3617	0.	
26	3.90E+08	260	7.83E+04	3914	0.	NT (N/M3)
28	2.18E+08	280	3.39E+04	4211	0.	1507397.4
30	2.33E+08	300	2.96E+04	4508	0.	
						TOTALS
LWC	7.56E-02		5.2.E-01		1.39E-01	6.28E-01
MED D	21		132		404	153

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:47*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	3.83E+08	23	1.64E+07	404	1.52E+04	ALT (KM)
4	1.27E+09	43	2.30E+07	647	0.	4.847
6	3.69E+09	62	1.37E+07	944	0.	
8	4.22E+09	82	9.82E+06	1241	0.	TEMP (C)
10	3.28E+09	102	4.83E+06	1538	0.	-12.0
12	2.86E+09	122	1.78E+06	1835	0.	
14	1.49E+09	142	1.05E+06	2132	0.	FROSTPOINT
16	1.18E+09	161	5.29E+05	2429	0.	-23.6
18	1.07E+09	181	4.81E+05	2726	0.	
20	1.05E+09	201	3.89E+05	3023	0.	TAS (M/S)
22	8.93E+08	221	3.06E+05	3320	0.	121.9
24	6.31E+08	241	1.51E+05	3617	0.	
26	4.50E+08	260	6.77E+04	3914	0.	NT (N/M3)
28	1.73E+08	280	3.33E+04	4211	0.	1839748.3
30	1.73E+08	300	2.72E+04	4508	0.	
						TOTALS
LWC	7.24E-02		3.75E-01		9.97E-02	4.79E-01
MED D	21		139		404	173

SAMPLE# 16 AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*08:58:48*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	3.63E+08	23	2.18E+07	484	3.03E+04	ALT (KM)
4	1.25E+09	43	1.44E+07	647	0.	4.849
6	2.74E+09	62	9.62E+06	944	0.	
8	3.25E+09	82	4.89E+06	1241	0.	TEMP (C)
10	2.46E+09	102	2.84E+06	1538	0.	-11.9
12	1.83E+09	122	1.42E+06	1835	0.	
14	1.35E+09	142	8.59E+05	2132	0.	FROSTPOINT
16	8.73E+08	161	2.62E+05	2429	0.	-23.4
18	9.81E+08	181	5.38E+05	2726	0.	
20	6.24E+08	201	4.12E+05	3023	0.	TAS (M/S)
22	5.71E+08	221	1.78E+05	3320	0.	121.8
24	3.71E+08	241	3.78E+04	3617	0.	
26	2.63E+08	260	4.73E+04	3914	0.	NT (N/M3)
28	1.63E+08	280	6.07E+04	4211	0.	593998.6
30	1.35E+08	300	5.43E+04	4508	0.	
						TOTALS
LWC	5.44E-02		2.90E-01		2.03E-01	4.96E-01
MED D	20		147		404	226

SAMPLE# 16 AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*08:58:50*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	3.30E+08	23	1.52E+07	484	2.22E+04	ALT (KM)
4	1.26E+09	43	1.66E+07	647	0.	4.847
6	2.97E+09	62	9.28E+06	944	0.	
8	3.79E+09	82	5.37E+06	1241	0.	TEMP (C)
10	2.53E+09	102	2.94E+06	1538	0.	-11.7
12	2.05E+09	122	1.45E+06	1835	0.	
14	1.35E+09	142	9.54E+05	2132	0.	FROSTPOINT
16	1.00E+09	161	3.53E+05	2429	0.	-23.1
18	1.03E+09	181	3.39E+05	2726	0.	
20	7.57E+08	201	2.16E+05	3023	0.	TAS (M/S)
22	6.92E+08	221	3.39E+05	3320	0.	122.0
24	5.55E+08	241	3.77E+04	3617	0.	
26	3.60E+08	260	4.13E+04	3914	0.	NT (N/M3)
28	1.95E+08	280	4.44E+04	4211	0.	763748.8
30	2.47E+08	300	3.98E+04	4508	0.	
						TOTALS
LWC	6.54E-02		3.02E-01		1.48E-01	4.48E-01
MED D	21		145		404	285

SAMPLE# 16 AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*08:58:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	2.85E+08	23	1.44E+07	484	3.17E+04	ALT (KM)
4	1.26E+09	43	1.52E+07	647	0.	4.847
6	2.68E+09	62	7.67E+06	944	0.	
8	3.64E+09	82	3.21E+06	1241	0.	TEMP (C)
10	2.67E+09	102	2.29E+06	1538	0.	-11.8
12	1.52E+09	122	1.37E+06	1835	0.	
14	1.20E+09	142	3.54E+05	2132	0.	FROSTPOINT
16	8.78E+08	161	3.57E+05	2429	0.	-23.2
18	9.91E+08	181	3.68E+05	2726	0.	
20	6.53E+08	201	2.78E+05	3023	0.	TAS (M/S)
22	7.13E+08	221	5.79E+04	3320	0.	121.9
24	4.28E+08	241	0.	3617	0.	
26	3.38E+08	260	3.17E+04	3914	0.	NT (N/M3)
28	2.25E+08	280	6.34E+04	4211	0.	630487.8
30	1.88E+08	300	5.67E+04	4508	0.	
						TOTALS
LWC	5.09E-02		2.48E-01		2.88E-01	4.48E-01
MED D	21		142		404	298

SAMPLE# 16 AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*08:58:51*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	4.34E+08	23	2.07E+07	484	3.88E+03	ALT (KM)
4	1.74E+09	43	1.97E+07	647	1.66E+01	4.849
6	3.97E+09	62	3.80E+06	944	0.	
8	5.66E+09	82	6.24E+06	1241	0.	TEMP (C)
10	3.77E+09	102	2.53E+06	1538	0.	-11.8
12	2.64E+09	122	2.38E+06	1835	0.	
14	1.82E+09	142	1.05E+06	2132	0.	FROSTPOINT
16	1.24E+09	161	4.97E+05	2429	0.	-23.8
18	1.39E+09	181	4.52E+05	2726	0.	
20	1.07E+09	201	2.46E+05	3023	0.	TAS (M/S)
22	9.51E+08	221	1.35E+05	3320	0.	122.2
24	7.96E+08	241	7.53E+04	3617	0.	
26	5.82E+08	260	6.73E+04	3914	0.	NT (N/M3)
28	2.17E+08	280	6.12E+04	4211	0.	548283.9
30	2.59E+08	300	3.94E+04	4508	0.	
						TOTALS
LWC	8.66E-02		3.22E-01		2.62E-02	3.48E-01
MED D	21		135		487	148

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:58:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H20 FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 551.1
2	5.38E+08	23	2.23E+07	484	2.45E+04	ALT (KM)
4	1.45E+09	43	2.49E+07	647	0.	4.849
6	3.66E+09	62	1.53E+07	964	0.	
8	5.95E+09	82	7.11E+06	1241	0.	TEMP (C)
10	4.21E+09	102	4.23E+06	1538	0.	-11.9
12	3.31E+09	122	2.61E+06	1835	0.	
14	2.10E+09	142	1.22E+06	2132	0.	FROSTPOINT
16	1.71E+09	161	7.45E+05	2429	0.	-23.8
18	1.73E+09	181	3.95E+05	2726	0.	
20	1.23E+09	201	3.18E+05	3023	0.	TAS (M/S)
22	1.16E+09	221	4.40E+05	3326	..	122.4
24	3.57E+08	241	1.68E+05	3617	0.	
26	5.98E+08	260	9.07E+04	3914	0.	WT (N/M3)
29	2.24E+08	291	4.95E+04	4211	..	1144920.6
38	2.69E+08	388	4.35E+04	4588	0.	
						TOTALS
LWC	9.91E-02		4.39E-01		1.61E-01	6.79E-01
MED D	20		141		494	195

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:58:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H20 FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 551.0
2	4.19E+08	23	4.73E+07	484	4.88E+03	ALT (KM)
4	1.73E+09	43	3.83E+07	647	1.63E+01	4.850
6	4.86E+09	62	2.37E+07	964	0.	
8	6.33E+09	82	1.02E+07	1241	0.	TEMP (C)
10	4.30E+09	102	5.95E+06	1538	0.	-12.1
12	3.71E+09	122	3.78E+06	1835	0.	
14	2.43E+09	142	1.52E+06	2132	0.	FROSTPOINT
16	1.84E+09	161	1.25E+06	2429	0.	-23.8
18	2.18E+09	181	3.38E+05	2726	0.	
20	1.35E+09	201	3.38E+05	3023	0.	TAS (M/S)
22	1.68E+09	221	2.71E+05	3326	0.	122.4
24	1.15E+09	241	1.68E+05	3617	0.	
26	5.28E+08	260	1.26E+05	3914	0.	WT (N/M3)
29	3.66E+08	298	8.46E+04	4211	0.	1737576.0
38	3.35E+08	388	5.35E+04	4588	0.	
						TOTALS
LWC	1.24E-01		5.76E-01		3.23E-02	6.88E-01
MED D	21		123		487	138

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:58:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H20 FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 551.1
2	4.34E+08	23	4.45E+07	484	3.16E+04	ALT (KM)
4	1.73E+09	43	2.83E+07	647	0.	4.849
6	4.40E+09	62	1.77E+07	964	0.	
8	6.33E+09	82	9.91E+06	1241	0.	TEMP (C)
10	4.31E+09	102	5.19E+06	1538	0.	-12.8
12	3.51E+09	122	2.96E+06	1835	0.	
14	2.51E+09	142	1.33E+06	2132	0.	FROSTPOINT
16	1.91E+09	161	7.83E+05	2429	0.	-23.8
18	2.33E+09	181	7.33E+05	2726	0.	
20	1.65E+09	201	2.46E+05	3023	0.	TAS (M/S)
22	1.15E+09	221	1.35E+05	3326	0.	122.3
24	9.72E+08	241	7.52E+04	3617	0.	
26	5.46E+08	260	5.33E+04	3914	0.	WT (N/M3)
29	2.94E+08	298	5.31E+04	4211	..	1360128.1
38	2.94E+08	388	3.65E+04	4588	0.	
						TOTALS
LWC	1.11E-01		4.67E-01		2.07E-01	6.74E-01
MED D	20		123		484	174

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 00:58:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H20 FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 550.9
2	5.45E+08	23	4.98E+07	484	3.86E+04	ALT (KM)
4	2.14E+09	43	4.85E+07	647	0.	4.852
6	4.49E+09	62	2.67E+07	964	0.	
8	6.99E+09	82	1.48E+07	1241	0.	TEMP (C)
10	5.18E+09	102	7.65E+06	1538	0.	-12.3
12	3.44E+09	122	4.66E+06	1835	0.	
14	2.81E+09	142	2.57E+06	2132	0.	FROSTPOINT
16	1.99E+09	161	8.35E+05	2429	0.	-22.9
18	2.34E+09	181	7.26E+05	2726	0.	
20	1.54E+09	201	3.38E+05	3023	0.	TAS (M/S)
22	1.56E+09	221	3.72E+05	3326	0.	122.5
24	1.35E+09	241	3.76E+04	3617	0.	
26	6.72E+08	260	3.38E+04	3914	0.	WT (N/M3)
29	3.66E+08	298	7.71E+04	4211	0.	1973877.7
38	4.93E+08	388	6.91E+04	4588	0.	
						TOTALS
LWC	1.35E-01		5.58E-01		2.53E-01	9.03E-01
MED D	21		122		484	195

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.7
2	3.21E+08	23	4.55E+07	404	1.41E+04	ALT (KM)
4	1.38E+08	43	4.26E+07	647	0.	4.853
6	3.41E+09	62	2.36E+07	944	0.	
8	5.48E+09	82	1.29E+07	1241	0.	TEMP (C)
10	4.36E+09	102	5.73E+06	1538	0.	-12.3
12	2.62E+09	122	3.34E+06	1835	0.	
14	2.10E+09	142	2.03E+06	2132	0.	FROSTPOINT
16	1.53E+09	161	1.12E+06	2429	0.	-22.8
18	1.04E+09	181	5.35E+05	2726	0.	
20	1.14E+09	201	4.68E+05	3023	0.	TAS (M/S)
22	1.37E+09	221	1.69E+05	3320	0.	122.5
24	9.84E+08	241	2.25E+05	3617	0.	
26	5.53E+08	260	7.97E+04	3914	0.	NT (N/M3)
28	2.62E+08	281	2.82E+04	4211	0.	1568842.3
30	2.99E+08	300	2.52E+04	4508	0.	
						TOTALS
LWC	9.59E-02		5.77E-01		9.26E-12	6.69E-01
MED D	21		123		404	177

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:57*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.9
2	3.36E+08	23	4.56E+07	404	3.34E+03	ALT (KM)
4	1.17E+08	43	4.44E+07	647	1.65E+01	4.852
6	3.11E+09	62	2.28E+07	944	0.	
8	4.42E+09	82	1.32E+07	1241	0.	TEMP (C)
10	2.99E+09	102	5.78E+06	1538	0.	-12.2
12	1.94E+09	122	3.17E+06	1835	0.	
14	1.49E+09	142	2.18E+06	2132	0.	FROSTPOINT
16	1.05E+09	161	1.23E+06	2429	0.	-22.6
18	1.21E+09	181	7.14E+05	2726	0.	
20	8.44E+08	201	5.84E+05	3023	0.	TAS (M/S)
22	1.09E+09	221	3.72E+05	3320	0.	122.5
24	6.42E+08	241	1.13E+05	3617	0.	
26	3.73E+08	260	7.42E+04	3914	0.	NT (N/M3)
28	2.54E+08	280	4.89E+04	4211	0.	1823783.5
30	2.32E+08	300	3.19E+04	4508	0.	
						TOTALS
LWC	7.47E-02		5.58E-01		2.27E-02	6.31E-01
MED D	21		132		404	135

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:50*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 951.8
2	2.82E+08	23	3.96E+07	404	3.15E+04	ALT (KM)
4	8.73E+08	43	3.88E+07	647	0.	4.858
6	1.86E+09	62	1.86E+07	944	0.	
8	2.72E+09	82	1.14E+07	1241	0.	TEMP (C)
10	2.44E+09	102	5.42E+06	1538	0.	-12.1
12	1.68E+09	122	2.77E+06	1835	0.	
14	1.43E+09	142	1.92E+06	2132	0.	FROSTPOINT
16	9.33E+08	161	8.85E+05	2429	0.	-22.4
18	7.54E+08	181	5.91E+05	2726	0.	
20	5.23E+08	201	5.03E+05	3023	0.	TAS (M/S)
22	5.67E+08	221	1.35E+05	3320	0.	122.6
24	4.26E+08	241	1.13E+05	3617	0.	
26	1.87E+08	260	9.42E+04	3914	0.	NT (N/M3)
28	8.36E+07	286	6.38E+04	4211	0.	1593643.1
30	8.21E+07	301	5.64E+04	4508	0.	
						TOTALS
LWC	4.37E-02		3.14E-01		2.07E-01	7.21E-01
MED D	28		129		404	177

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START:*08:58:59*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 34 GPM DISTANCE: 400 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.9
2	1.79E+08	23	2.93E+07	404	3.13E+03	ALT (KM)
4	7.63E+08	43	2.57E+07	647	1.65E+01	4.852
6	1.88E+09	62	1.42E+07	944	0.	
8	2.18E+09	82	1.04E+07	1241	0.	TEMP (C)
10	1.69E+09	102	5.37E+06	1538	0.	-11.9
12	1.14E+09	122	2.89E+06	1835	0.	
14	6.79E+08	142	1.88E+06	2132	0.	FROSTPOINT
16	5.67E+08	161	5.52E+05	2429	0.	-22.2
18	6.87E+08	181	4.22E+05	2726	0.	
20	5.45E+08	201	2.15E+05	3023	0.	TAS (M/S)
22	4.48E+08	221	2.03E+05	3320	0.	122.6
24	3.86E+08	241	1.13E+05	3617	0.	
26	1.87E+08	260	7.86E+04	3914	0.	NT (N/M3)
28	7.46E+07	280	6.42E+04	4211	0.	1220869.3
30	5.97E+07	300	2.98E+04	4508	0.	
						TOTALS
LWC	3.54E-02		4.36E-01		2.12E-02	6.57E-01
MED D	28		124		404	128

SAMPLE# 15 AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:00*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.49E+08	23	3.13E+07	404	6.61E+04	ALT (KM)
4	4.66E+08	43	2.76E+07	647	0.	4.852
6	9.81E+08	62	1.77E+07	944	0.	
8	1.69E+09	82	9.31E+06	1241	0.	TEMP (C)
10	1.28E+09	102	4.10E+06	1538	0.	-11.8
12	8.48E+08	122	3.56E+06	1835	0.	
14	5.53E+08	142	1.48E+06	2132	0.	FROSTPOINT
16	6.10E+08	161	7.13E+05	2429	0.	-22.2
18	6.91E+08	181	4.20E+05	2726	0.	
20	4.61E+08	201	2.45E+05	3023	0.	TAS (M/S)
22	5.29E+08	221	2.35E+05	3320	0.	123.1
24	2.68E+08	241	1.12E+05	3617	0.	
26	9.67E+07	260	1.39E+05	3914	0.	NT (N/M3)
28	8.32E+07	280	1.72E+05	4211	0.	1318881.9
30	2.97E+07	300	1.54E+05	4508	0.	
						TOTALS
LWC	3.11E-02		5.13E-01		5.66E-01	1.68E+00
MED D	20		140		404	319

SAMPLE# 15 AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:02*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	3.72E+07	23	3.56E+07	404	8.81E+03	ALT (KM)
4	2.23E+08	43	2.27E+07	647	0.	4.853
6	4.16E+08	62	1.32E+07	944	0.	
8	7.28E+08	82	8.41E+06	1241	0.	TEMP (C)
10	5.43E+08	102	3.39E+06	1538	0.	-11.6
12	3.20E+08	122	1.68E+06	1835	0.	
14	3.27E+08	142	1.35E+06	2132	0.	FROSTPOINT
16	3.20E+08	161	8.04E+05	2429	0.	-22.2
18	2.75E+08	181	2.80E+05	2726	0.	
20	2.38E+08	201	4.89E+05	3023	0.	TAS (M/S)
22	1.33E+08	221	1.68E+05	3320	0.	123.1
24	1.49E+08	241	1.87E+05	3617	0.	
26	3.72E+07	260	5.47E+04	3914	0.	NT (N/M3)
28	4.46E+07	280	1.60E+04	4211	0.	1054635.7
30	3.72E+07	300	1.43E+04	4508	0.	
						TOTALS
LWC	1.49E-02		3.81E-01		5.26E-02	4.33E-01
MED D	20		136		404	149

SAMPLE# 15 AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:01*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	3.56E+07	23	2.91E+07	404	1.63E+04	ALT (KM)
4	3.64E+08	43	2.16E+07	647	0.	4.853
6	8.84E+08	62	1.13E+07	944	0.	
8	1.67E+09	82	5.19E+06	1241	0.	TEMP (C)
10	7.88E+08	102	3.53E+06	1538	0.	-11.7
12	6.22E+08	122	2.08E+06	1835	0.	
14	4.24E+08	142	1.15E+06	2132	0.	FROSTPOINT
16	3.13E+08	161	5.71E+05	2429	0.	-22.2
18	3.57E+08	181	4.48E+05	2726	0.	
20	3.12E+08	201	2.14E+05	3023	0.	TAS (M/S)
22	3.49E+08	221	1.31E+05	3320	0.	123.1
24	1.86E+08	241	1.49E+05	3617	0.	
26	1.11E+08	258	5.93E+04	3914	0.	NT (N/M3)
28	1.84E+08	280	3.27E+04	4211	0.	949354.2
30	8.17E+07	300	2.93E+04	4508	0.	
						TOTALS
LWC	2.41E-02		3.38E-01		1.07E-01	4.45E-01
MED D	21		131		404	166

SAMPLE# 15 AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	1.34E+08	23	4.18E+07	404	1.53E+04	ALT (KM)
4	6.88E+08	43	3.87E+07	647	0.	4.852
6	1.26E+09	62	1.79E+07	944	0.	
8	1.42E+09	82	5.74E+06	1241	0.	TEMP (C)
10	1.26E+09	102	4.53E+06	1538	0.	-11.5
12	7.58E+08	122	1.95E+06	1835	0.	
14	6.24E+08	142	1.13E+06	2132	0.	FROSTPOINT
16	4.46E+08	161	7.52E+05	2429	0.	-22.2
18	4.75E+08	181	4.76E+05	2726	0.	
20	4.46E+08	201	2.75E+05	3023	0.	TAS (M/S)
22	3.96E+08	221	2.82E+05	3320	0.	123.2
24	2.53E+08	241	1.12E+05	3617	0.	
26	1.41E+08	260	5.83E+04	3914	0.	NT (N/M3)
28	8.17E+07	280	3.30E+04	4211	0.	1186362.8
30	8.17E+07	300	2.69E+04	4508	0.	
						TOTALS
LWC	2.01E-02		3.76E-01		9.86E-02	4.75E-01
MED D	21		138		404	190

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:04*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	2.57E+08	23	4.21E+07	404	1.87E+04	ALT (KM)
4	9.91E+08	43	3.47E+07	647	0.	4.853
6	2.54E+09	62	1.63E+07	944	0.	
8	3.36E+09	82	1.16E+07	1241	0.	TEMP (C)
10	2.35E+09	102	5.71E+06	1538	0.	-11.6
12	1.26E+09	122	3.80E+06	1835	0.	
14	1.19E+09	142	1.92E+06	2132	0.	FROSTPOINT
16	6.54E+08	161	1.76E+06	2429	0.	-22.2
18	7.21E+08	181	9.68E+05	2726	0.	
20	7.73E+08	201	3.67E+05	3023	0.	TAS (M/S)
22	5.35E+08	221	2.02E+05	3320	0.	123.1
24	3.94E+08	241	2.51E+05	3617	0.	
26	2.53E+08	260	9.68E+04	3914	0.	NT (N/M3)
28	1.34E+08	280	3.74E+04	4211	0.	1583821.7
30	7.43E+07	300	3.34E+04	4508	0.	
						TOTALS
LWC	4.62E-02		5.62E-01		1.23E-01	6.85E-01
MED D	20		123		404	148

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:06*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	7.15E+08	23	5.19E+07	404	4.76E+03	ALT (KM)
4	2.21E+09	43	4.92E+07	647	1.65E+01	4.852
6	5.64E+09	62	2.18E+07	944	0.	
8	6.87E+09	82	1.34E+07	1241	0.	TEMP (C)
10	5.54E+09	102	5.54E+06	1538	0.	-11.7
12	3.16E+09	122	3.25E+06	1835	0.	
14	2.23E+09	142	2.21E+06	2132	0.	FROSTPOINT
16	1.65E+09	161	1.30E+06	2429	0.	-22.2
18	1.69E+09	181	5.74E+05	2726	0.	
20	1.34E+09	201	3.37E+05	3023	0.	TAS (M/S)
22	1.14E+09	221	2.36E+05	3320	0.	122.9
24	8.79E+08	241	7.49E+04	3617	0.	
26	4.47E+08	260	7.91E+04	3914	0.	NT (N/M3)
28	3.57E+08	280	8.36E+04	4211	0.	1966846.1
30	2.89E+08	300	5.29E+04	4508	0.	
						TOTALS
LWC	1.04E-01		5.98E-01		3.20E-02	6.30E-01
MED D	20		125		407	131

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	4.33E+08	23	3.89E+07	404	7.12E+04	ALT (KM)
4	1.48E+09	43	4.10E+07	647	0.	4.853
6	4.20E+09	62	2.34E+07	944	0.	
8	4.91E+09	82	1.13E+07	1241	0.	TEMP (C)
10	3.46E+09	102	7.03E+06	1538	0.	-11.6
12	2.35E+09	122	2.80E+06	1835	0.	
14	1.88E+09	142	2.43E+06	2132	0.	FROSTPOINT
16	1.21E+09	161	9.36E+05	2429	0.	-22.2
18	1.25E+09	181	7.30E+05	2726	0.	
20	9.97E+08	201	3.98E+05	3023	0.	TAS (M/S)
22	8.19E+08	221	3.37E+05	3320	0.	122.9
24	7.33E+08	241	1.12E+05	3617	0.	
25	3.57E+08	260	1.26E+05	3914	0.	NT (N/M3)
28	2.46E+08	280	1.42E+05	4211	0.	1811866.8
30	2.23E+08	300	1.27E+05	4508	0.	
						TOTALS
LWC	7.84E-02		6.37E-01		4.68E-01	1.11E+00
MED D	21		137		404	257

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*00:59:07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	7.75E+08	23	3.46E+07	404	2.81E+04	ALT (KM)
4	2.77E+09	43	3.30E+07	647	0.	4.853
6	6.47E+09	62	2.39E+07	944	0.	
8	8.93E+09	82	1.23E+07	1241	0.	TEMP (C)
10	6.33E+09	102	5.71E+06	1538	0.	-11.8
12	4.38E+09	122	4.13E+06	1835	0.	
14	2.99E+09	142	2.34E+06	2132	0.	FROSTPOINT
16	2.11E+09	161	9.07E+05	2429	0.	-22.2
18	2.33E+09	181	7.59E+05	2726	0.	
20	1.87E+09	201	4.29E+05	3023	0.	TAS (M/S)
22	1.77E+09	221	2.70E+05	3320	0.	122.8
24	1.45E+09	241	3.37E+05	3617	0.	
26	7.75E+08	260	1.38E+05	3914	0.	NT (N/M3)
28	3.28E+08	280	5.62E+04	4211	0.	1913511.3
30	5.81E+08	300	5.03E+04	4508	0.	
						TOTALS
LWC	1.49E-01		5.46E-01		1.85E-01	8.31E-01
MED D	21		131		404	163

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:08*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	3.51E+09	23	3.31E+07	404	0.	ALT (KM)
4	3.39E+09	43	3.25E+07	647	0.	4.854
6	7.46E+09	62	2.10E+07	944	0.	
8	1.08E+10	82	1.10E+07	1241	0.	TEMP (C)
10	7.56E+09	102	5.13E+06	1538	0.	-12.0
12	4.58E+09	122	3.33E+06	1835	0.	
14	3.53E+09	142	1.77E+06	2132	0.	FROSTPOINT
16	2.32E+09	161	8.86E+05	2429	0.	-22.2
18	2.72E+09	181	5.19E+05	2726	0.	
20	1.68E+09	201	4.41E+05	3023	0.	TAS (M/S)
22	1.57E+09	221	1.11E+05	3320	0.	122.6
24	1.23E+09	241	7.31E+04	3617	0.	
26	8.14E+08	25.	0.	3914	0.	NT (N/M3)
28	5.37E+08	280	0.	4211	0.	1542934.7
30	4.70E+08	300	0.	4508	0.	
						TOTALS
LWC	1.60E-01		4.77E-01		0.	4.77E-01
MED D	21		117		0	117

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:10*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	1.04E+09	23	4.23E+07	404	5.84E+33	ALT (KM)
4	3.42E+09	43	3.36E+07	647	3.33E+01	4.854
6	8.08E+09	62	1.36E+07	944	0.	
8	1.15E+10	82	9.32E+06	1241	0.	TEMP (C)
10	8.64E+09	102	3.95E+06	1538	0.	-12.1
12	5.21E+09	122	2.97E+06	1835	0.	
14	4.19E+09	142	1.39E+06	2132	0.	FROSTPOINT
16	2.77E+09	161	9.59E+05	2429	0.	-22.8
18	2.54E+09	181	4.51E+05	2726	0.	
20	2.13E+09	201	3.99E+05	3023	0.	TAS (M/S)
22	2.16E+09	221	2.12E+05	3320	0.	122.7
24	1.46E+09	241	1.12E+05	3617	0.	
26	1.09E+09	260	3.55E+04	3914	0.	NT (N/M3)
28	5.67E+08	280	5.43E+04	4211	0.	1316731.7
30	5.07E+08	300	4.32E+04	4508	0.	
						TOTALS
LWC	1.84E-01		4.45E-01		3.46E-32	4.80E-01
MED D	21		132		408	148

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	8.65E+08	23	4.44E+07	404	3.75E+34	ALT (KM)
4	2.95E+09	43	3.33E+07	647	0.	4.853
6	7.04E+09	62	1.52E+07	944	0.	
8	1.01E+10	82	8.54E+06	1241	0.	TEMP (C)
10	7.65E+09	102	4.98E+06	1538	0.	-12.0
12	5.27E+09	122	2.69E+06	1835	0.	
14	4.33E+09	142	1.71E+06	2132	0.	FROSTPOINT
16	2.65E+09	161	7.55E+05	2429	0.	-22.1
18	3.89E+09	181	8.43E+05	2726	0.	
20	2.87E+09	201	2.76E+05	3023	0.	TAS (M/S)
22	2.42E+09	221	2.36E+05	3320	0.	122.7
24	1.41E+09	241	7.51E+04	3617	0.	
25	1.29E+09	260	7.51E+04	3914	0.	NT (N/M3)
28	6.33E+08	280	7.50E+04	4211	0.	1339657.5
30	6.93E+08	300	5.71E+04	4508	0.	
						TOTALS
LWC	1.93E-01		4.79E-01		2.46E-31	7.26E-01
MED D	21		135		404	189

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:11*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 19 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.02E+09	23	3.04E+07	404	3.25E+34	ALT (KM)
4	3.33E+09	43	3.54E+07	647	0.	4.853
6	8.26E+09	62	1.74E+07	944	0.	
8	1.15E+10	82	9.74E+06	1241	0.	TEMP (C)
10	8.39E+09	102	5.49E+06	1538	0.	-12.0
12	5.64E+09	122	2.61E+06	1835	0.	
14	4.42E+09	142	1.42E+06	2132	0.	FROSTPOINT
16	3.30E+09	161	8.39E+05	2429	0.	-21.8
18	3.26E+09	181	3.86E+05	2726	0.	
20	2.47E+09	201	4.48E+05	3023	0.	TAS (M/S)
22	2.24E+09	221	2.70E+05	3320	0.	122.5
24	1.67E+09	241	1.88E+05	3617	0.	
26	1.26E+09	260	1.11E+05	3914	0.	NT (N/M3)
28	6.50E+08	280	6.51E+04	4211	0.	1480998.4
30	8.89E+08	300	5.83E+04	4508	0.	
						TOTALS
LWC	2.10E-01		4.97E-01		2.14E-31	7.11E-01
MED D	21		132		404	192

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H20 FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.7
2	8.81E+08	23	6.53E+07	484	6.49E+03	ALT (KM)
4	3.91E+08	43	4.51E+07	647	1.65E+01	4.853
6	7.66E+09	62	2.43E+07	944	0.	
8	1.14E+10	82	1.42E+07	1241	0.	TEMP (C)
10	8.53E+09	102	7.72E+06	1538	0.	-12.8
12	5.67E+09	122	4.51E+06	1835	0.	
14	4.29E+09	142	2.53E+06	2132	0.	FROSTPOINT
16	2.76E+09	161	1.49E+06	2429	0.	-21.6
18	2.98E+09	181	1.14E+06	2726	0.	
20	2.22E+09	201	2.76E+05	3023	0.	TAS (M/S)
22	2.04E+09	221	4.29E+05	3320	0.	122.6
24	1.61E+09	241	4.51E+05	3617	0.	
26	1.08E+09	260	2.45E+05	3914	0.	NT (N/M3)
29	5.97E+08	290	1.33E+05	4211	0.	2032140.9
33	6.49E+08	380	9.63E+04	4598	0.	
						TOTALS
LWC	1.93E-01		7.93E-01		4.73E-02	8.38E-01
MED D	21		148		496	146

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H20 FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.6
2	1.87E+09	23	4.33E+07	484	4.46E+04	ALT (KM)
4	3.34E+08	43	4.94E+07	647	0.	4.854
6	8.15E+09	62	2.62E+07	944	0.	
8	1.23E+10	82	1.59E+07	1241	0.	TEMP (C)
10	9.08E+09	102	7.65E+06	1538	0.	-12.1
12	5.35E+09	122	4.54E+06	1835	0.	
14	4.32E+09	142	2.59E+06	2132	0.	FROSTPOINT
16	2.61E+09	161	1.12E+06	2429	0.	-21.1
18	3.11E+09	181	9.29E+05	2726	0.	
20	2.13E+09	201	3.72E+05	3023	0.	TAS (M/S)
22	2.47E+09	221	4.73E+05	3320	0.	122.5
24	1.55E+09	241	7.51E+04	3617	0.	
26	1.12E+09	260	5.18E+04	3914	0.	NT (N/M3)
29	5.88E+08	290	5.92E+04	4211	0.	2165115.9
33	7.17E+08	380	7.98E+04	4598	0.	
						TOTALS
LWC	1.98E-01		5.99E-01		2.33E-02	9.92E-01
MED D	21		125		484	172

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H20 FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.7
2	1.11E+09	23	5.54E+07	484	5.65E+03	ALT (KM)
4	3.62E+08	43	3.54E+07	647	1.65E+01	4.853
6	8.53E+09	62	2.76E+07	944	0.	
8	1.14E+10	82	1.53E+07	1241	0.	TEMP (C)
10	8.42E+09	102	7.92E+06	1538	0.	-12.1
12	5.68E+09	122	4.70E+06	1835	0.	
14	4.18E+09	142	2.53E+06	2132	0.	FROSTPOINT
16	2.62E+09	161	1.33E+06	2429	0.	-21.3
18	2.93E+09	181	7.10E+05	2726	0.	
20	2.11E+09	201	3.46E+05	3023	0.	TAS (M/S)
22	2.08E+09	221	3.35E+05	3320	0.	122.4
24	1.58E+09	241	2.53E+05	3617	0.	
26	1.05E+09	260	1.69E+05	3914	0.	NT (N/M3)
29	5.16E+08	290	1.08E+05	4211	0.	2331686.4
33	7.78E+08	380	5.72E+04	4598	0.	
						TOTALS
LWC	1.89E-01		7.81E-01		3.78E-02	8.19E-01
MED D	21		138		486	135

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H20 FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 959.9
2	1.14E+09	23	7.91E+07	484	6.68E+04	ALT (KM)
4	3.99E+08	43	4.70E+07	647	0.	4.852
6	9.48E+09	62	2.63E+07	944	0.	
8	1.18E+10	82	1.44E+07	1241	0.	TEMP (C)
10	8.89E+09	102	9.72E+06	1538	0.	-12.1
12	5.44E+09	122	4.33E+06	1835	0.	
14	4.13E+09	142	2.41E+06	2132	0.	FROSTPOINT
16	2.47E+09	161	9.77E+05	2429	0.	-20.7
18	2.68E+09	181	1.13E+06	2726	0.	
20	2.20E+09	201	3.93E+05	3023	0.	TAS (M/S)
22	1.98E+09	221	3.71E+05	3320	0.	122.7
24	1.33E+09	241	2.25E+05	3617	0.	
26	9.59E+08	260	1.45E+05	3914	0.	NT (N/M3)
29	6.19E+08	290	9.97E+04	4211	0.	2119705.7
33	6.86E+08	380	4.39E+04	4598	0.	
						TOTALS
LWC	1.82E-01		7.37E-01		3.88E-02	1.04E+00
MED D	21		129		484	181

SAMPLE# 16 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.6
2	1.15E+09	23	5.73E+07	404	2.57E+03	ALT (KM)
4	3.39E+09	43	5.21E+07	647	1.65E+01	4.854
6	8.79E+09	62	2.73E+07	944	0.	
8	1.15E+10	82	1.55E+07	1241	0.	TEMP (C)
10	7.57E+09	102	7.17E+06	1538	0.	-12.1
12	5.14E+09	122	4.42E+06	1835	0.	
14	3.55E+09	142	2.34E+06	2132	0.	FROSTPOINT
16	2.46E+09	161	1.28E+06	2429	0.	-20.3
18	2.68E+09	181	7.51E+05	2726	0.	
20	2.18E+09	201	4.64E+05	3023	0.	TAS (M/S)
22	2.03E+09	221	2.71E+05	3320	0.	122.4
24	1.43E+09	241	2.26E+05	3617	0.	
26	8.52E+08	260	9.51E+04	3914	0.	NT (N/M3)
28	5.46E+08	281	3.29E+04	4211	0.	2246053.9
30	3.23E+08	300	2.19E+04	4508	0.	
						TOTALS
LWC	1.78E-01		6.32E-01		1.75E-02	7.10E-01
MED D	21		122		408	124

SAMPLE# 16 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:18*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.7
2	1.20E+09	23	7.49E+07	404	5.05E+03	ALT (KM)
4	4.04E+09	43	5.83E+07	647	3.31E+01	4.853
6	9.84E+09	62	2.67E+07	944	0.	
8	1.35E+10	82	1.72E+07	1241	0.	TEMP (C)
10	9.64E+09	102	8.74E+06	1538	0.	-12.1
12	5.97E+09	122	4.38E+06	1835	0.	
14	4.31E+09	142	2.37E+06	2132	0.	FROSTPOINT
16	2.73E+09	161	1.28E+06	2429	0.	-19.6
18	2.58E+09	181	1.13E+06	2726	0.	
20	2.81E+09	201	4.92E+05	3023	0.	TAS (M/S)
22	1.95E+09	221	3.04E+05	3320	0.	122.4
24	1.48E+09	241	1.50E+05	3617	0.	
26	1.06E+09	260	1.14E+05	3914	0.	NT (N/M3)
28	6.28E+08	280	8.12E+04	4211	0.	2482516.4
30	6.65E+08	300	5.34E+04	4508	0.	
						TOTALS
LWC	1.88E-01		7.67E-01		1.99E-02	8.67E-01
MED D	21		124		408	128

SAMPLE# 16 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.7
2	1.08E+09	23	5.47E+07	404	4.44E+03	ALT (KM)
4	3.62E+09	43	5.65E+07	647	1.65E+01	4.853
6	8.84E+09	62	2.81E+07	944	0.	
8	1.19E+10	82	1.52E+07	1241	0.	TEMP (C)
10	8.58E+09	102	8.41E+06	1538	0.	-12.1
12	5.14E+09	122	4.78E+06	1835	0.	
14	3.99E+09	142	2.88E+06	2132	0.	FROSTPOINT
16	2.42E+09	161	1.41E+06	2429	0.	-19.9
18	2.58E+09	181	9.81E+05	2726	0.	
20	1.96E+09	201	5.14E+05	3023	0.	TAS (M/S)
22	1.89E+09	221	5.17E+05	3320	0.	122.5
24	1.31E+09	241	7.51E+04	3617	0.	
26	1.17E+09	260	7.51E+04	3914	0.	NT (N/M3)
28	5.38E+08	281	7.51E+04	4211	0.	2388685.5
30	6.85E+08	300	4.70E+04	4508	0.	
						TOTALS
LWC	1.73E-01		7.73E-01		2.33E-02	8.83E-01
MED D	21		128		407	131

SAMPLE# 16 AFFDL ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:19*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.7
2	1.35E+09	23	5.95E+07	404	2.92E+04	ALT (KM)
4	4.34E+09	43	5.98E+07	647	0.	4.853
6	1.10E+10	62	2.99E+07	944	0.	
8	1.32E+10	82	1.68E+07	1241	0.	TEMP (C)
10	9.54E+09	102	9.14E+06	1538	0.	-12.1
12	5.87E+09	122	4.43E+06	1835	0.	
14	4.49E+09	142	2.76E+06	2132	0.	FROSTPOINT
16	2.42E+09	161	1.20E+06	2429	0.	-19.4
18	2.34E+09	181	5.36E+05	2726	0.	
20	1.37E+09	201	3.78E+05	3023	0.	TAS (M/S)
22	2.31E+09	221	2.71E+05	3320	0.	122.2
24	1.35E+09	241	1.88E+05	3617	0.	
26	1.17E+09	260	1.65E+05	3914	0.	NT (N/M3)
28	5.99E+08	280	5.95E+04	4211	0.	2493554.4
30	8.68E+08	300	5.24E+04	4508	0.	
						TOTALS
LWC	1.94E-01		7.26E-01		1.92E-01	9.19E-01
MED D	21		118		404	141

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 00:59:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 408 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	1.37E+03	23	7.40E+07	484	5.41E+04	ALT (KM)
4	3.67E+03	43	5.55E+07	647	0.	4.854
6	9.26E+09	62	2.72E+07	964	0.	
8	1.20E+10	82	1.91E+07	1241	0.	TEMP (C)
10	8.54E+09	102	1.10E+07	1538	0.	-12.1
12	4.35E+09	122	5.35E+06	1835	0.	
14	3.74E+09	142	2.93E+06	2132	0.	FROSTPOINT
16	2.40E+09	161	1.57E+06	2429	0.	-19.2
18	2.61E+09	181	1.01E+06	2726	0.	
20	1.64E+09	201	5.24E+05	3023	0.	TAS (M/S)
22	1.73E+09	221	1.89E+05	3320	0.	122.2
24	1.11E+09	241	1.31E+05	3617	0.	
26	8.31E+08	260	1.23E+05	3914	0.	NT (N/M3)
28	3.89E+08	280	1.08E+05	4211	0.	2472197.0
30	5.17E+08	300	9.39E+04	4508	0.	
						TOTALS
LWC	1.57E-01		9.46E-01		3.58E-11	1.24E+00
MED D	20		169		+04	167

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 00:59:22*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 408 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	7.61E+08	23	7.31E+07	484	2.46E+04	ALT (KM)
4	3.83E+03	43	5.68E+07	647	0.	4.854
6	7.16E+09	62	2.62E+07	964	0.	
8	9.70E+09	82	1.70E+07	1241	0.	TEMP (C)
10	5.95E+09	102	9.27E+06	1538	0.	-12.0
12	3.33E+09	122	4.64E+06	1835	0.	
14	2.66E+09	142	2.45E+06	2132	0.	FROSTPOINT
16	1.72E+09	161	1.49E+06	2429	0.	-19.2
18	1.89E+09	181	5.66E+05	2726	0.	
20	1.57E+09	201	4.41E+05	3023	0.	TAS (M/S)
22	1.31E+09	221	2.38E+05	3320	0.	121.9
24	9.38E+08	241	1.53E+05	3617	0.	
26	5.71E+08	260	9.54E+04	3914	0.	NT (N/M3)
28	2.78E+08	280	4.32E+04	4211	0.	2429638.9
30	2.53E+08	300	4.41E+04	4508	0.	
						TOTALS
LWC	1.14E-01		7.69E-01		1.62E-11	8.91E-01
MED D	20		118		4+4	137

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 01:59:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 408 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.13E+03	23	5.89E+07	484	7.07E+03	ALT (KM)
4	3.68E+09	43	5.74E+07	647	0.	4.856
6	9.55E+09	62	3.17E+07	964	0.	
8	9.92E+09	82	1.96E+07	1241	0.	TEMP (C)
10	7.03E+09	102	9.83E+06	1538	0.	-12.1
12	4.22E+09	122	5.57E+06	1835	0.	
14	3.38E+09	142	2.35E+06	2132	0.	FROSTPOINT
16	2.13E+09	161	9.17E+05	2429	0.	-19.2
18	2.13E+09	181	5.66E+05	2726	0.	
20	1.72E+09	201	3.46E+05	3023	0.	TAS (M/S)
22	1.40E+09	221	3.41E+05	3320	0.	121.9
24	1.07E+09	241	1.83E+05	3617	0.	
26	8.40E+08	260	5.17E+04	3914	0.	NT (N/M3)
28	3.83E+08	280	1.41E+04	4211	0.	2578772.8
30	4.73E+08	300	1.97E+04	4508	0.	
						TOTALS
LWC	1.41E-01		7.11E-01		4.65E-02	7.57E-01
MED D	21		113		404	118

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 00:59:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 34 GPM DISTANCE: 408 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	9.19E+08	23	7.21E+07	484	5.78E+04	ALT (KM)
4	3.65E+09	43	5.54E+07	647	0.	4.857
6	8.28E+09	62	3.14E+07	964	0.	
8	1.16E+10	82	1.74E+07	1241	0.	TEMP (C)
10	7.93E+09	102	8.47E+06	1538	0.	-12.0
12	4.05E+09	122	4.98E+06	1835	0.	
14	2.75E+09	142	2.33E+06	2132	0.	FROSTPOINT
16	1.75E+09	161	1.25E+06	2429	0.	-19.2
18	2.14E+09	181	1.02E+06	2726	0.	
20	1.63E+09	201	4.95E+05	3023	0.	TAS (M/S)
22	1.15E+09	221	2.74E+05	3320	0.	121.6
24	1.02E+09	241	7.57E+04	3617	0.	
26	5.72E+08	260	9.35E+04	3914	0.	NT (N/M3)
28	2.78E+08	280	1.16E+05	4211	0.	2446882.6
30	4.21E+08	300	1.03E+05	4508	0.	
						TOTALS
LWC	1.24E-01		7.52E-01		3.88E-01	1.13E+00
MED D	20		121		404	179

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#80:59:26
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.14E+03	23	3.95E+07	404	5.73E+03	ALT (KM)
4	3.84E+03	43	7.65E+07	647	1.86E+01	4.856
6	9.59E+09	62	3.57E+07	944	0.	
9	1.21E+10	92	2.10E+07	1241	0.	TEMP (C)
10	8.31E+09	102	1.09E+07	1538	0.	-12.1
12	4.63E+09	122	5.10E+06	1835	0.	
14	3.54E+09	142	3.09E+06	2132	0.	FROSTPOINT
16	2.24E+09	161	1.73E+06	2429	0.	-19.2
13	2.28E+09	191	1.25E+06	2726	0.	
20	1.72E+09	201	5.35E+05	3023	0.	TAS (M/S)
22	1.64E+09	221	3.73E+05	3320	0.	121.6
24	1.16E+09	241	1.13E+05	3617	0.	
26	8.35E+08	260	1.12E+05	3914	0.	NT (N/M3)
28	3.54E+08	280	1.41E+05	4211	0.	3107753.0
30	4.51E+08	304	5.97E+04	4508	0.	
						TOTALS
LWC	1.43E-01		9.36E-01		3.94E-02	9.94E-01
MED D	20		126		406	130

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#80:59:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.21E+03	23	7.56E+07	404	4.84E+04	ALT (KM)
4	4.83E+09	43	6.63E+07	647	0.	4.857
6	9.71E+09	62	3.26E+07	944	0.	
9	1.19E+10	92	1.96E+07	1241	0.	TEMP (C)
10	8.58E+09	102	1.07E+07	1538	0.	-12.3
12	5.17E+09	122	5.89E+06	1835	0.	
14	3.94E+09	142	3.17E+06	2132	0.	FROSTPOINT
16	2.33E+09	161	1.55E+06	2429	0.	-19.3
18	2.62E+09	181	1.34E+06	2726	0.	
20	1.89E+09	201	4.85E+05	3023	0.	TAS (M/S)
22	1.91E+09	221	4.44E+05	3320	0.	121.3
24	1.48E+09	241	3.03E+05	3617	0.	
26	9.59E+08	260	1.71E+05	3914	0.	NT (N/M3)
28	3.92E+08	280	9.68E+04	4211	0.	2961898.0
30	5.43E+08	304	9.57E+04	4508	0.	
						TOTALS
LWC	1.63E-01		9.68E-01		3.18E-01	1.29E+00
MED D	20		127		404	163

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#80:59:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.14E+03	23	7.22E+07	404	5.24E+03	ALT (KM)
4	3.48E+09	43	6.68E+07	647	1.67E+01	4.856
6	8.62E+09	62	3.54E+07	944	0.	
9	1.11E+10	92	1.91E+07	1241	0.	TEMP (C)
10	7.22E+09	102	1.19E+07	1538	0.	-12.2
12	4.29E+09	122	5.81E+06	1835	0.	
14	3.32E+09	142	3.25E+06	2132	0.	FROSTPOINT
16	2.13E+09	161	1.54E+06	2429	0.	-19.3
18	2.09E+09	191	9.79E+05	2726	0.	
20	1.62E+09	201	7.15E+05	3023	0.	TAS (M/S)
22	1.58E+09	221	3.75E+05	3320	0.	121.5
24	1.07E+09	241	2.27E+05	3617	0.	
26	6.73E+08	260	1.48E+05	3914	0.	NT (N/M3)
28	3.46E+08	280	9.62E+04	4211	0.	2933886.9
30	5.69E+08	304	8.04E+04	4508	0.	
						TOTALS
LWC	1.48E-01		9.33E-01		3.51E-02	9.65E-01
MED D	20		123		406	126

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#80:59:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.35E+03	23	3.53E+07	404	7.16E+03	ALT (KM)
4	4.62E+09	43	5.55E+07	647	1.67E+01	4.856
6	1.34E+10	62	3.47E+07	944	0.	
9	1.40E+10	92	1.77E+07	1241	0.	TEMP (C)
10	9.76E+09	102	1.18E+07	1538	0.	-12.4
12	5.94E+09	122	5.35E+06	1835	0.	
14	4.43E+09	142	3.19E+06	2132	0.	FROSTPOINT
16	2.58E+09	161	1.47E+06	2429	0.	-19.4
18	3.10E+09	191	7.95E+05	2726	0.	
20	2.33E+09	201	5.51E+05	3023	0.	TAS (M/S)
22	2.34E+09	221	4.77E+05	3320	0.	121.5
24	1.53E+09	241	2.65E+05	3617	0.	
26	9.71E+08	260	2.03E+05	3914	0.	NT (N/M3)
28	5.59E+08	280	1.55E+05	4211	0.	2887841.1
30	7.45E+08	300	9.49E+04	4508	0.	
						TOTALS
LWC	1.92E-01		9.45E-01		4.79E-02	9.93E-01
MED D	21		129		406	134

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.59E+03	23	7.03E+07	404	8.79E+33	ALT (KM)
4	5.22E+09	43	5.77E+07	647	1.66E+01	4.857
6	1.83E+10	62	3.48E+07	944	0.	
9	1.32E+10	82	1.34E+07	1241	0.	TEMP (C)
10	1.11E+10	102	8.57E+06	1538	0.	-12.4
12	6.93E+09	122	5.34E+06	1835	0.	
14	4.34E+09	142	2.58E+06	2132	0.	FROSTPOINT
16	2.93E+09	161	1.44E+06	2429	0.	-19.4
18	3.25E+09	181	7.65E+05	2726	0.	
20	2.15E+09	201	5.87E+05	3023	0.	TAS (M/S)
22	2.11E+09	221	4.42E+05	3320	0.	121.8
24	1.52E+09	241	1.51E+05	3617	0.	
26	1.16E+09	260	1.78E+05	3914	0.	NT (N/M3)
28	6.59E+08	280	2.11E+05	4211	0.	2685347.7
30	9.32E+08	300	1.27E+05	4508	0.	
						TOTALS
LWC	2.14E-01		9.84E-01		5.85E-02	9.42E-01
MED D	21		123		406	135

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:30*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	1.53E+09	23	1.41E+08	404	8.26E+04	ALT (KM)
4	5.18E+09	43	5.77E+07	647	0.	4.854
6	1.20E+10	62	3.04E+07	944	0.	
9	1.54E+10	82	1.82E+07	1241	0.	TEMP (C)
10	1.13E+10	102	1.04E+07	1538	0.	-12.3
12	6.61E+09	122	5.48E+06	1835	0.	
14	5.33E+09	142	3.07E+06	2132	0.	FROSTPOINT
16	2.92E+09	161	9.48E+05	2429	0.	-19.4
18	3.06E+09	181	5.25E+05	2726	0.	
20	2.17E+09	201	3.20E+05	3023	0.	TAS (M/S)
22	2.07E+09	221	4.19E+05	3320	0.	121.3
24	1.59E+09	241	1.52E+05	3617	0.	
26	1.07E+09	260	1.58E+05	3914	0.	NT (N/M3)
28	7.09E+08	280	1.65E+05	4211	0.	2738188.6
30	8.58E+08	300	1.48E+05	4508	0.	
						TOTALS
LWC	2.11E-01		9.97E-01		5.43E-01	1.44E+00
MED D	21		124		404	211

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	1.72E+09	23	3.42E+07	404	5.64E+34	ALT (KM)
4	5.21E+09	43	5.42E+07	647	0.	4.859
6	1.16E+10	62	3.04E+07	944	0.	
9	1.51E+10	82	1.51E+07	1241	0.	TEMP (C)
10	9.79E+09	102	1.05E+07	1538	0.	-12.4
12	5.96E+09	122	5.26E+06	1835	0.	
14	4.21E+09	142	2.9.E+06	2132	0.	FROSTPOINT
16	2.62E+09	161	1.55E+06	2429	0.	-19.4
18	2.77E+09	181	7.66E+05	2726	0.	
20	1.92E+09	201	4.62E+05	3023	0.	TAS (M/S)
22	1.89E+09	221	2.14E+05	3320	0.	121.6
24	1.39E+09	241	1.83E+05	3617	0.	
26	9.11E+08	260	1.46E+05	3914	0.	NT (N/M3)
28	6.19E+08	280	1.13E+05	4211	0.	2619680.3
30	6.17E+08	300	1.01E+05	4508	0.	
						TOTALS
LWC	1.82E-01		9.19E-01		3.71E-01	1.19E+00
MED D	20		124		404	168

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#08:59:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 34 GPM DISTANCE# 400 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.51E+09	23	5.63E+07	404	3.87E+04	ALT (KM)
4	5.24E+09	43	5.41E+07	647	0.	4.853
6	1.19E+10	62	2.63E+07	944	0.	
9	1.61E+10	82	1.38E+07	1241	0.	TEMP (C)
10	1.14E+10	102	5.79E+06	1538	0.	-12.2
12	6.51E+09	122	4.70E+06	1835	0.	
14	5.28E+09	142	2.58E+06	2132	0.	FROSTPOINT
16	3.19E+09	161	1.17E+06	2429	0.	-19.5
18	3.36E+09	181	5.88E+05	2726	0.	
20	2.15E+09	201	4.87E+05	3023	0.	TAS (M/S)
22	2.38E+09	221	3.76E+05	3320	0.	120.2
24	1.62E+09	241	1.53E+05	3617	0.	
26	1.13E+09	260	9.63E+04	3914	0.	NT (N/M3)
28	5.47E+08	280	5.14E+04	4211	0.	2280886.4
30	8.52E+08	300	5.58E+04	4508	0.	
						TOTALS
LWC	2.11E-01		5.87E-01		2.62E-31	8.09E-01
MED D	20		126		404	191

SAMPLE# 16 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#*08:59:32*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 30 GPM DISTANCE# 400 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	1.19E+03	23	1.57E+07	484	2.35E+03	ALT (KM)
4	4.38E+09	43	2.85E+07	647	1.67E+01	4.847
6	1.06E+10	62	1.32E+07	944	0.	
8	1.33E+10	82	7.44E+06	1241	0.	TEMP (C)
10	9.28E+09	102	4.23E+06	1538	0.	-12.2
12	5.31E+09	122	2.16E+06	1835	0.	
14	4.30E+09	142	1.19E+06	2132	0.	FROSTPOINT
16	2.45E+09	161	7.88E+05	2429	0.	-19.5
18	2.28E+09	181	5.28E+05	2726	0.	
20	1.37E+09	201	1.87E+05	3023	0.	TAS (M/S)
22	1.52E+09	221	2.74E+05	3320	0.	128.9
24	1.17E+09	241	1.44E+05	3617	0.	
26	8.48E+08	260	3.71E+04	3914	0.	NT (N/M3)
28	3.71E+08	280	2.35E+04	4211	0.	1166619.9
30	6.51E+08	300	1.92E+04	4508	0.	
						TOTALS
LWC	1.60E-01		3.87E-01		1.62E-02	4.03E-01
MED D	20		132		409	137

SAMPLE# 17A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:17:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 15 GPM DISTANCE# 100 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 951.1
2	2.71E+08	23	1.51E+07	484	6.99E+03	ALT (KM)
4	1.31E+09	43	1.79E+07	647	0.	4.049
6	4.11E+09	62	9.94E+06	944	0.	
8	4.83E+09	82	4.28E+06	1241	0.	TEMP (C)
10	2.55E+09	102	2.22E+06	1538	0.	-27.8
12	2.26E+09	122	1.15E+06	1835	0.	
14	1.78E+09	142	5.18E+05	2132	0.	FROSTPOINT
16	1.33E+09	161	2.67E+05	2429	0.	-31.2
18	1.24E+09	181	1.31E+05	2726	0.	
20	9.73E+08	201	2.86E+04	3023	0.	TAS (M/S)
22	8.69E+08	221	0.	3320	0.	131.8
24	4.51E+08	241	0.	3617	0.	
26	3.47E+08	260	5.59E+03	3914	0.	NT (N/M3)
28	1.46E+08	280	1.31E+04	4211	0.	708914.4
30	1.91E+08	300	1.17E+04	4508	0.	
						TOTALS
LWC	6.93E-02		1.58E-01		4.38E-02	2.81E-01
MED D	20		103		404	122

SAMPLE# 17A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:17:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 15 GPM DISTANCE# 100 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	5.79E+08	23	1.52E+07	484	7.53E+03	ALT (KM)
4	2.33E+09	43	1.28E+07	647	0.	4.846
6	6.32E+09	62	5.32E+06	944	0.	
8	9.53E+09	82	2.58E+06	1241	0.	TEMP (C)
10	7.47E+09	102	1.62E+06	1538	0.	-27.7
12	5.35E+09	122	6.60E+05	1835	0.	
14	4.54E+09	142	1.77E+05	2132	0.	FROSTPOINT
16	3.41E+09	161	1.22E+05	2429	0.	-31.2
18	3.09E+09	181	1.15E+05	2726	0.	
20	2.42E+09	201	2.87E+04	3023	0.	TAS (M/S)
22	2.18E+09	221	7.15E+04	3320	0.	131.3
24	1.14E+09	241	3.58E+04	3617	0.	
26	9.48E+08	260	2.29E+04	3914	0.	NT (N/M3)
28	4.33E+08	280	1.50E+04	4211	0.	479568.5
30	4.95E+08	300	1.34E+04	4508	0.	
						TOTALS
LWC	1.76E-01		1.14E-01		4.93E-02	1.63E-01
MED D	20		106		404	159

SAMPLE# 17A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:17:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 15 GPM DISTANCE# 100 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.8
2	2.99E+08	23	4.85E+07	484	0.	ALT (KM)
4	1.83E+09	43	3.37E+07	647	0.	4.850
6	3.87E+09	62	1.73E+07	944	0.	
8	3.38E+09	82	7.35E+06	1241	0.	TEMP (C)
10	2.88E+09	102	3.13E+06	1538	0.	-27.8
12	2.34E+09	122	1.64E+06	1835	0.	
14	1.74E+09	142	7.16E+05	2132	0.	FROSTPOINT
16	1.24E+09	161	2.43E+05	2429	0.	-31.1
18	1.28E+09	181	5.24E+04	2726	0.	
20	9.45E+08	201	8.57E+04	3023	0.	TAS (M/S)
22	7.93E+08	221	3.14E+04	3320	0.	131.7
24	4.31E+08	241	0.	3617	0.	
26	2.32E+08	260	0.	3914	0.	NT (N/M3)
28	1.32E+08	280	0.	4211	0.	1273859.2
30	1.46E+08	300	0.	4508	0.	
						TOTALS
LWC	6.49E-02		2.35E-01		0.	2.99E-01
MED D	20		98		0	98

SAMPLE: 17A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	5.23E+08	23	5.98E+07	484	1.31E+04	ALT (KM)
4	2.84E+09	43	4.85E+07	647	0.	4.847
6	6.38E+09	62	1.39E+07	944	0.	
8	7.38E+09	82	5.15E+06	1241	0.	TEMP (C)
10	6.83E+09	102	3.34E+06	1538	0.	-27.8
12	4.64E+09	122	1.43E+06	1835	0.	
14	3.52E+09	142	7.58E+05	2132	0.	FROSTPOINT
16	2.75E+09	161	4.38E+05	2429	0.	-31.1
18	3.16E+09	181	1.94E+05	2726	0.	
20	1.97E+09	201	1.43E+05	3023	0.	TAS (M/S)
22	1.34E+09	221	1.26E+05	3320	0.	131.2
24	1.35E+09	241	0.	3617	0.	
26	8.39E+08	260	1.31E+04	3914	0.	NT (N/M3)
28	3.38E+08	280	2.53E+04	4211	0.	1466771.1
30	4.12E+08	300	2.35E+04	4508	0.	
						TOTALS
LWC	1.55E-01		2.98E-01		8.64E-02	3.64E-01
MED D	28		98		484	124

SAMPLE: 17A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	6.37E+08	23	4.37E+07	484	7.54E+03	ALT (KM)
4	2.17E+09	43	3.11E+07	647	0.	4.845
6	6.76E+09	62	1.51E+07	944	0.	
8	6.59E+09	82	5.81E+06	1241	0.	TEMP (C)
10	6.75E+09	102	3.34E+06	1538	0.	-27.8
12	5.25E+09	122	1.36E+06	1835	0.	
14	4.31E+09	142	7.71E+05	2132	0.	FROSTPOINT
16	2.89E+09	161	4.89E+05	2429	0.	-31.1
18	3.28E+09	181	7.92E+04	2726	0.	
20	2.35E+09	201	8.64E+04	3023	0.	TAS (M/S)
22	2.13E+09	221	3.17E+04	3320	0.	130.7
24	1.89E+09	241	0.	3617	0.	
26	9.59E+08	260	7.54E+03	3914	0.	NT (N/M3)
28	4.34E+08	280	1.51E+04	4211	0.	1284158.9
30	3.92E+08	300	1.35E+04	4508	0.	
						TOTALS
LWC	1.69E-01		2.57E-01		4.96E-02	3.87E-01
MED D	28		108		484	113

SAMPLE: 17A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	3.38E+08	23	1.87E+07	484	7.52E+03	ALT (KM)
4	1.63E+09	43	1.64E+07	647	0.	4.846
6	5.83E+09	62	4.88E+06	944	0.	
8	5.55E+09	82	2.16E+06	1241	0.	TEMP (C)
10	4.14E+09	102	1.11E+06	1538	0.	-28.8
12	3.26E+09	122	5.25E+05	1835	0.	
14	2.65E+09	142	1.18E+05	2132	0.	FROSTPOINT
16	1.79E+09	161	7.31E+04	2429	0.	-31.1
18	2.04E+09	181	3.20E+04	2726	0.	
20	1.38E+09	201	0.	3023	0.	TAS (M/S)
22	1.17E+09	221	0.	3320	0.	131.2
24	6.36E+08	241	7.61E+04	3617	0.	
26	4.95E+08	260	3.25E+04	3914	0.	NT (N/M3)
28	2.38E+08	280	1.58E+04	4211	0.	386651.5
30	2.16E+08	300	1.35E+04	4508	0.	
						TOTALS
LWC	9.93E-02		3.24E-02		4.94E-02	1.42E-01
MED D	28		108		484	235

SAMPLE: 17B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	4.43E+08	23	4.72E+07	484	0.	ALT (KM)
4	1.27E+09	43	2.88E+07	647	0.	4.863
6	3.91E+09	62	1.22E+07	944	0.	
8	5.88E+09	82	3.01E+06	1241	0.	TEMP (C)
10	4.43E+09	102	2.36E+06	1538	0.	-28.3
12	3.21E+09	122	1.12E+06	1835	0.	
14	2.84E+09	142	4.18E+05	2132	0.	FROSTPOINT
16	1.51E+09	161	2.42E+05	2429	0.	-30.9
18	1.96E+09	181	5.22E+04	2726	0.	
20	1.48E+09	201	2.85E+04	3023	0.	TAS (M/S)
22	1.16E+09	221	3.13E+04	3320	0.	132.3
24	7.86E+08	241	0.	3617	0.	
26	6.89E+08	260	0.	3914	0.	NT (N/M3)
28	2.56E+08	280	0.	4211	0.	1886491.4
30	2.35E+08	300	0.	4508	0.	
						TOTALS
LWC	1.82E-01		1.75E-01		0.	1.75E-01
MED D	28		88		0	88

SAMPLE: 178 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	9.48E+08	23	4.89E+07	404	6.48E+03	ALT (KM)
4	2.78E+09	43	2.37E+07	647	0.	4.856
6	7.76E+09	62	1.52E+07	944	1.60E+01	
8	1.09E+10	82	5.72E+06	1241	0.	TEMP (C)
10	9.74E+09	102	2.60E+06	1538	0.	-28.2
12	6.91E+09	122	1.15E+06	1835	0.	
14	6.16E+09	142	4.95E+05	2132	0.	FROSTPOINT
16	4.25E+09	161	1.68E+05	2429	0.	-30.9
18	4.32E+09	181	7.77E+04	2726	0.	
20	2.89E+09	201	3.65E+04	3023	0.	TAS (M/S)
22	2.36E+09	221	0.	3320	0.	133.2
24	1.65E+09	241	3.45E+04	3617	0.	
26	1.25E+09	260	2.12E+04	3914	0.	NT (N/M3)
28	5.53E+08	280	1.39E+04	4211	0.	1093791.8
30	7.78E+08	300	1.16E+04	4508	0.	
						TOTALS
LWC	2.32E-01		2.42E-01		4.47E-02	2.47E-01
MED D	20		90		409	105

SAMPLE: 178 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.43E+08	23	4.52E+07	404	0.	ALT (KM)
4	1.31E+09	43	2.19E+07	647	0.	4.852
6	4.28E+09	62	1.15E+07	944	0.	
8	5.42E+09	82	5.76E+06	1241	1.69E+01	TEMP (C)
10	4.84E+09	102	3.21E+06	1538	0.	-28.2
12	3.55E+09	122	1.15E+06	1835	0.	
14	2.88E+09	142	3.27E+05	2132	0.	FROSTPOINT
16	1.71E+09	161	2.41E+05	2429	0.	-30.8
18	1.97E+09	181	7.81E+04	2726	0.	
20	1.42E+09	201	1.42E+05	3023	0.	TAS (M/S)
22	1.08E+09	221	9.38E+04	3320	0.	132.4
24	6.15E+08	241	0.	3617	0.	
26	4.84E+08	260	0.	3914	0.	NT (N/M3)
28	2.17E+08	280	0.	4211	0.	1061679.8
30	3.52E+08	300	0.	4508	0.	
						TOTALS
LWC	1.01E-01		2.07E-01		5.83E-03	2.12E-01
MED D	20		97		1241	98

SAMPLE: 178 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	2.62E+08	23	3.81E+07	404	0.	ALT (KM)
4	6.35E+08	43	3.83E+07	647	0.	4.856
6	1.73E+09	62	1.60E+07	944	0.	
8	2.57E+09	82	5.56E+06	1241	0.	TEMP (C)
10	2.13E+09	102	2.46E+06	1538	0.	-28.2
12	1.85E+09	122	1.11E+06	1835	0.	
14	1.42E+09	142	5.73E+05	2132	0.	FROSTPOINT
16	9.18E+08	161	2.17E+05	2429	0.	-30.8
18	9.25E+08	181	1.82E+05	2726	0.	
20	6.35E+08	201	2.84E+04	3023	0.	TAS (M/S)
22	5.66E+08	221	5.25E+04	3320	0.	132.5
24	2.83E+08	241	3.47E+04	3617	0.	
26	2.42E+08	260	0.	3914	0.	NT (N/M3)
28	8.98E+07	280	0.	4211	0.	1298577.7
30	1.66E+08	300	0.	4508	0.	
						TOTALS
LWC	4.91E-02		2.21E-01		0.	2.21E-01
MED D	20		89		0	89

SAMPLE: 178 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:17:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 100 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	2.14E+08	23	2.61E+07	404	0.	ALT (KM)
4	5.94E+08	43	1.56E+07	647	0.	4.852
6	2.28E+09	62	9.67E+06	944	0.	
8	2.35E+09	82	3.54E+06	1241	0.	TEMP (C)
10	1.30E+09	102	1.81E+06	1538	0.	-28.3
12	1.26E+09	122	7.44E+05	1835	0.	
14	1.01E+09	142	3.81E+05	2132	0.	FROSTPOINT
16	7.05E+08	161	1.21E+05	2429	0.	-30.8
18	7.74E+08	181	5.21E+04	2726	0.	
20	5.34E+08	201	0.	3023	0.	TAS (M/S)
22	4.22E+08	221	6.26E+04	3320	0.	132.4
24	1.59E+08	241	0.	3617	0.	
26	1.11E+08	260	0.	3914	0.	NT (N/M3)
28	5.53E+07	280	0.	4211	0.	633825.9
30	4.84E+07	300	0.	4508	0.	
						TOTALS
LWC	3.43E-02		1.24E-01		0.	1.24E-01
MED D	19		92		0	92

SAMPLE# 184 AFFTC ICING SPRAY TEST BY AFGL

FLIGHT 579-04 ON 24 JAN 79 1 SECOND AVERAGING

INTERVAL START# 2P 55103*

PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)

TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 150 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.37E+07	33	6.37E+07	404	1.34E+04	ALT (KM)
4	6.17E+07	43	4.40E+07	647	0.	4.870
5	2.12E+08	62	2.42E+07	944	0.	TEMP (C)
8	2.74E+08	82	1.10E+07	1241	0.	-15.6
11	1.44E+08	102	6.12E+06	1538	0.	
12	1.23E+08	122	1.73E+06	1835	0.	
14	1.16E+08	142	1.16E+06	2132	0.	FROSTPOINT
16	6.17E+07	161	5.50E+05	2429	0.	-17.9
18	9.59E+07	181	3.10E+05	2726	0.	
20	4.80E+07	201	2.82E+05	3023	0.	TAS (M/S)
22	1.37E+07	221	1.24E+05	3320	0.	133.5
24	0.	241	3.44E+04	3617	0.	
26	6.85E+06	260	3.09E+04	3914	0.	NT (N/M3)
28	1.37E+07	280	2.77E+04	4211	0.	1776285.9
30	0.	300	2.48E+04	4508	0.	
						TOTALS
LWC	2.84E-03		4.14E-01		9.18E-22	5.05E-01
MED D	17		102		404	119

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-64 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2155:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 13 PSI H2O FLOW RATE: 73 GPM DISTANCE: 198 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.45E+08	23	5.36E+07	404	2.13E+04	ALT (KM)
4	5.89E+07	43	6.15E+07	647	1.	4.858
6	1.7+E+07	62	7.35E+07	964	0.	
8	1.59E+07	82	4.38E+07	1241	1.	TEMP (C)
10	1.41E+07	102	4.85E+06	1574	1.	-15.6
12	8.61E+06	123	2.27E+06	1935	0.	
14	4.91E+06	142	1.13E+06	2192	0.	FROSTPOINT
16	2.17E+06	161	5.15E+05	2429	0.	-17.9
18	6.17E+05	181	2.46E+05	2726	0.	
20	3.23E+05	201	1.71E+05	3023	0.	TAS (M/S)
22	1.65E+05	221	6.14E+04	3320	0.	132.8
24	1.71E+04	241	4.93E+04	3617	0.	
26	8.95E+03	261	5.07E+04	3914	0.	WT (N/M2)
28	4.17E+03	284	4.26E+04	4211	0.	1565695.4
30	4.13E+03	303	7.32E+04	4518	0.	
						TOTALS
LWC	2.63E-02		3.91E-01		1.41E-01	5.31E-01
MED D	19		111		434	148

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-64 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2155:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 28 GPM DISTANCE: 198 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	6.28E+08	23	9.02E+07	404	2.26E+04	ALT (KM)
4	1.66E+08	43	5.33E+07	647	0.	4.868
6	5.63E+08	62	2.39E+07	964	0.	
8	6.82E+08	82	1.17E+07	1241	0.	TEMP (C)
10	5.48E+08	102	6.46E+06	1538	0.	-15.8
12	3.83E+08	122	2.15E+06	1835	0.	
14	3.35E+08	142	1.14E+06	2132	0.	FROSTPOINT
16	2.77E+08	161	5.54E+05	2429	0.	-17.9
18	1.74E+08	181	2.68E+05	2726	0.	
20	1.03E+08	202	1.43E+05	3023	0.	TAS (M/S)
22	1.14E+08	221	9.75E+04	3320	0.	132.7
24	1.14E+08	241	9.75E+04	3617	0.	
26	5.03E+08	261	5.03E+04	3914	0.	WT (N/M2)
28	2.83E+08	281	4.32E+04	4211	0.	2165468.1
30	2.97E+08	303	4.15E+04	4518	0.	
						TOTALS
LWC	1.21E-01		4.18E-01		1.43E-01	5.67E-01
MED D	19		101		444	134

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-64 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2155:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 198 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	4.27E+08	23	9.31E+07	404	0.	ALT (KM)
4	1.18E+08	43	5.13E+07	647	0.	4.859
6	4.25E+08	62	2.77E+07	964	0.	
8	4.46E+08	82	1.13E+07	1241	0.	TEMP (C)
10	7.53E+08	102	6.35E+06	1538	0.	-15.9
12	2.53E+08	122	2.13E+06	1835	0.	
14	2.14E+08	142	1.11E+06	2132	0.	FROSTPOINT
16	1.53E+08	161	5.15E+05	2429	0.	-17.9
18	1.61E+08	181	2.38E+05	2726	0.	
20	9.73E+07	201	1.51E+05	3023	0.	TAS (M/S)
22	7.73E+08	221	1.25E+05	3320	0.	132.7
24	3.85E+08	241	6.93E+04	3617	0.	
26	2.14E+08	261	0.	3914	0.	WT (N/M2)
28	1.26E+08	288	0.	4211	0.	1964639.8
30	1.38E+08	303	0.	4518	0.	
						TOTALS
LWC	6.95E-02		1.37E-01		0.	3.97E-01
MED D	18		94		0	94

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-64 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2155:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 17 PSI H2O FLOW RATE: 23 GPM DISTANCE: 198 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.55E+08	23	7.14E+07	404	3.79E+04	ALT (KM)
4	2.26E+08	43	5.34E+07	647	0.	4.866
6	6.91E+08	62	2.93E+07	964	0.	
8	9.83E+08	82	1.24E+07	1241	0.	TEMP (C)
10	8.56E+08	102	5.53E+06	1578	0.	-15.9
12	6.51E+08	122	3.39E+06	1885	0.	
14	5.28E+08	142	1.51E+06	2132	0.	FROSTPOINT
16	4.87E+08	161	7.31E+05	2429	0.	-17.9
18	4.34E+08	181	2.87E+05	2726	0.	
20	3.68E+08	201	1.14E+05	3023	0.	TAS (M/S)
22	1.97E+08	221	1.57E+05	3320	0.	132.1
24	1.27E+08	241	1.34E+05	3617	0.	
26	7.48E+08	261	8.79E+04	3914	0.	WT (N/M2)
28	4.58E+08	288	7.59E+04	4211	0.	2204392.7
30	6.99E+08	303	6.79E+04	4518	0.	
						TOTALS
LWC	2.01E-01		5.14E-01		2.49E-01	7.65E-01
MED D	19		110		404	159

SAMPLE# 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2815515*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	5.53E+08	23	5.32E+07	484	1.30E+04	ALT (KM)
4	1.58E+09	43	4.39E+07	647	0.	4.867
6	5.13E+08	62	2.83E+07	944	0.	
8	5.79E+08	82	1.11E+07	1241	0.	TEMP (C)
10	4.53E+08	102	4.92E+06	1538	0.	-15.9
12	3.88E+08	122	2.37E+06	1835	0.	
14	2.73E+08	142	1.15E+06	2132	0.	FROSTPOINT
16	1.93E+08	161	3.96E+05	2429	0.	-17.9
18	2.13E+08	181	3.55E+05	2726	0.	
20	1.23E+08	201	1.73E+05	3023	0.	TAS (M/S)
22	9.12E+08	221	6.25E+04	3320	0.	132.4
24	5.11E+08	241	0.	3617	0.	
26	3.73E+08	260	1.98E+04	3914	0.	NT (N/M3)
28	1.84E+08	280	2.50E+04	4211	0.	1463392.8
30	2.28E+08	300	2.33E+04	4508	0.	
						TOTALS
LWC	8.91E-02		3.83E-01		8.56E-02	4.69E-01
MED D	19		97		484	113

SAMPLE# 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2815515*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	9.65E+07	23	5.31E+07	484	2.84E+04	ALT (KM)
4	2.76E+08	43	3.48E+07	647	0.	4.878
6	1.85E+08	62	1.91E+07	944	0.	
8	1.81E+08	82	7.73E+06	1241	0.	TEMP (C)
10	7.45E+08	102	3.71E+06	1538	0.	-15.8
12	6.87E+08	122	1.78E+06	1835	0.	
14	4.62E+08	142	1.82E+06	2132	0.	FROSTPOINT
16	3.24E+08	161	3.85E+05	2429	0.	-17.9
18	3.24E+08	181	3.12E+05	2726	0.	
20	1.65E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	1.03E+08	221	1.25E+05	3320	0.	132.7
24	7.28E+07	241	0.	3617	0.	
26	2.67E+07	260	2.84E+04	3914	0.	NT (N/M3)
28	1.39E+07	280	4.39E+04	4211	0.	1437837.5
30	2.87E+07	300	3.66E+04	4508	0.	
						TOTALS
LWC	1.27E-02		7.19E-01		1.34E-01	4.52E-01
MED D	17		107		484	146

SAMPLE# 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2815515*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	2.48E+08	23	6.96E+07	484	1.31E+04	ALT (KM)
4	7.37E+08	43	4.32E+07	647	0.	4.878
6	2.73E+08	62	2.19E+07	944	0.	
8	2.64E+08	82	1.03E+07	1241	0.	TEMP (C)
10	1.94E+08	102	4.15E+06	1538	0.	-15.9
12	1.36E+08	122	1.78E+06	1835	0.	
14	1.22E+08	142	9.84E+05	2132	0.	FROSTPOINT
16	8.54E+08	161	7.95E+05	2429	0.	-17.9
18	7.92E+08	181	3.37E+05	2726	0.	
20	4.27E+08	201	9.56E+04	3023	0.	TAS (M/S)
22	2.62E+08	221	6.23E+04	3320	0.	132.9
24	2.41E+08	241	0.	3617	0.	
26	1.24E+08	260	1.30E+04	3914	0.	NT (N/M3)
28	4.13E+07	280	2.50E+04	4211	0.	1446886.5
30	8.26E+07	300	2.32E+04	4508	0.	
						TOTALS
LWC	3.53E-02		3.64E-01		8.53E-02	4.20E-01
MED D	18		95		484	113

SAMPLE# 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*2815517*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	6.91E+06	23	7.51E+07	484	7.44E+03	ALT (KM)
4	6.91E+07	43	2.24E+07	647	0.	4.878
6	1.73E+08	62	8.58E+06	944	0.	
8	3.32E+08	82	5.46E+06	1241	0.	TEMP (C)
10	1.45E+08	102	1.60E+06	1538	0.	-15.7
12	2.35E+08	122	9.56E+05	1835	0.	
14	1.45E+08	142	4.37E+05	2132	0.	FROSTPOINT
16	1.31E+08	161	1.53E+05	2429	0.	-17.9
18	1.52E+08	181	2.68E+04	2726	0.	
20	4.84E+07	201	8.52E+04	3023	0.	TAS (M/S)
22	4.14E+07	221	6.25E+04	3320	0.	132.4
24	4.14E+07	241	0.	3617	0.	
26	6.91E+06	260	7.44E+03	3914	0.	NT (N/M3)
28	2.76E+07	280	1.49E+04	4211	0.	792419.8
30	2.87E+07	300	1.33E+04	4508	0.	
						TOTALS
LWC	5.64E-03		1.58E-01		4.89E-02	2.67E-01
MED D	19		94		484	123

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2E:55:19*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	2.76E+07	23	4.12E+07	404	8.63E+03	ALT (KM)
4	8.29E+07	43	3.36E+07	647	0.	4.878
6	4.13E+08	62	1.65E+07	944	0.	
9	4.28E+08	82	7.58E+06	1241	0.	TEMP (C)
10	3.04E+08	102	2.61E+06	1538	0.	-15.7
12	2.63E+08	122	1.96E+06	1835	0.	
14	2.29E+08	142	7.30E+05	2132	0.	FROSTPOINT
16	1.39E+08	161	2.30E+05	2429	0.	-17.9
18	1.84E+09	181	1.92E+05	2726	0.	
20	3.46E+07	201	1.71E+05	3023	0.	TAS (M/S)
22	4.15E+07	221	6.29E+04	3320	0.	132.4
24	3.46E+07	241	1.34E+05	3617	0.	
26	6.91E+06	260	4.26E+04	3914	0.	NT (N/M3)
28	1.38E+07	280	1.74E+04	4211	0.	1266023.4
30	6.91E+06	300	1.36E+04	4508	0.	
						TOTALS
LWC	5.84E-03		3.36E-01		5.71E-02	3.44E-01
MED D	17		107		404	124

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2E:55:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	7.61E+07	23	4.62E+07	404	6.52E+03	ALT (KM)
4	2.63E+08	43	3.12E+07	647	0.	4.868
6	7.44E+08	62	1.79E+07	944	0.	
9	8.57E+08	82	7.58E+06	1241	0.	TEMP (C)
10	6.78E+08	102	4.12E+06	1538	0.	-15.7
12	4.22E+08	122	1.64E+06	1835	0.	
14	4.43E+08	142	8.28E+05	2132	0.	FROSTPOINT
16	2.63E+08	161	2.65E+05	2429	0.	-17.9
18	2.63E+08	181	1.82E+05	2726	0.	
20	2.31E+08	201	1.14E+05	3023	0.	TAS (M/S)
22	1.31E+08	221	4.36E+04	3320	0.	132.3
24	6.91E+07	241	6.95E+04	3617	0.	
26	2.07E+07	260	3.91E+04	3914	0.	NT (N/M3)
28	0.	280	1.39E+04	4211	0.	1269953.6
30	6.91E+06	300	1.17E+04	4508	0.	
						TOTALS
LWC	1.17E-02		2.90E-01		4.28E-02	3.33E-01
MED D	18		102		404	111

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2E:55:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	4.14E+07	23	6.02E+07	404	1.39E+04	ALT (KM)
4	1.66E+08	43	3.48E+07	647	0.	4.871
6	4.56E+08	62	1.94E+07	944	0.	
8	5.94E+08	82	9.53E+06	1241	0.	TEMP (C)
10	3.53E+08	102	3.41E+06	1538	0.	-15.7
12	3.31E+08	122	1.43E+06	1835	0.	
14	1.38E+08	142	9.36E+05	2132	0.	FROSTPOINT
16	1.73E+08	161	3.36E+05	2429	0.	-17.9
18	1.52E+08	181	1.78E+05	2726	0.	
20	8.98E+07	201	1.14E+05	3023	0.	TAS (M/S)
22	6.21E+07	221	0.	3320	0.	132.5
24	4.83E+07	241	3.47E+04	3617	0.	
26	6.90E+06	260	3.11E+04	3914	0.	NT (N/M3)
28	6.90E+06	280	2.79E+04	4211	0.	1362328.8
30	0.	300	2.50E+04	4508	0.	
						TOTALS
LWC	6.68E-03		3.81E-01		9.17E-02	3.93E-01
MED D	17		108		404	128

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 2E:55:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	6.92E+07	23	5.83E+07	404	3.14E+04	ALT (KM)
4	3.12E+08	43	4.02E+07	647	0.	4.867
6	6.52E+08	62	1.74E+07	944	0.	
9	1.12E+09	82	8.38E+06	1241	0.	TEMP (C)
10	8.18E+08	102	3.72E+06	1538	0.	-15.7
12	5.54E+08	122	2.35E+05	1835	0.	
14	5.68E+08	142	5.37E+05	2132	0.	FROSTPOINT
16	4.15E+08	161	1.45E+05	2429	0.	-17.9
18	3.39E+08	181	5.32E+05	2726	0.	
20	1.66E+08	201	5.70E+04	3023	0.	TAS (M/S)
22	6.92E+07	221	1.88E+05	3320	0.	132.1
24	5.54E+07	241	0.	3617	0.	
26	6.92E+07	260	3.14E+04	3914	0.	NT (N/M3)
28	2.08E+07	280	6.28E+04	4211	0.	1460336.4
30	3.46E+07	300	5.52E+04	4508	0.	
						TOTALS
LWC	1.42E-02		3.26E-01		2.86E-01	5.32E-01
MED D	17		105		404	208

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:22*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	5.55E+07	23	5.94E+07	484	0.	ALT (KM)
4	6.93E+07	43	4.16E+07	647	0.	4.857
6	3.74E+08	62	2.36E+07	944	0.	
8	2.29E+08	82	9.53E+06	1241	0.	TEMP (C)
10	1.39E+08	102	3.12E+06	1538	0.	-15.6
12	1.11E+08	122	1.38E+06	1835	0.	
14	7.33E+07	142	7.05E+05	2132	0.	FROSTPOINT
16	6.24E+07	161	3.53E+05	2429	0.	-17.9
18	6.93E+07	181	3.40E+05	2726	0.	
20	2.08E+07	201	3.14E+05	3023	0.	TAS (M/S)
22	6.93E+06	221	6.27E+04	3320	0.	132.9
24	6.93E+06	241	0.	3617	0.	
26	6.93E+06	260	0.	3914	0.	NT (N/M3)
28	0.	280	0.	4211	0.	1516954.5
30	0.	300	0.	4508	0.	
						TOTALS
LWC	2.02E-03		9.23E-01		0.	3.23E-01
MED D	16		93		0	93

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	6.26E+07	23	7.37E+07	484	2.06E+04	ALT (KM)
4	2.57E+08	43	4.54E+07	647	0.	4.868
6	9.13E+08	62	2.14E+07	944	0.	
8	8.75E+08	82	1.14E+07	1241	0.	TEMP (C)
10	7.65E+08	102	4.34E+06	1538	0.	-15.6
12	6.60E+08	122	2.33E+06	1835	0.	
14	4.52E+08	142	1.21E+06	2132	0.	FROSTPOINT
16	2.43E+08	161	4.61E+05	2429	0.	-17.9
18	3.82E+08	181	3.52E+05	2726	0.	
20	2.43E+08	201	1.14E+05	3023	0.	TAS (M/S)
22	1.18E+08	221	1.26E+05	3320	0.	131.6
24	6.95E+07	241	1.05E+05	3617	0.	
26	4.17E+07	260	6.57E+04	3914	0.	NT (N/M3)
28	3.64E+07	280	4.12E+04	4211	0.	1735669.2
30	2.79E+07	300	3.59E+04	4508	0.	
						TOTALS
LWC	1.44E-02		4.11E-01		1.75E-11	5.46E-01
MED D	18		105		484	135

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:24*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	5.86E+08	23	6.65E+07	484	1.71E+13	ALT (KM)
4	1.46E+09	43	4.11E+07	647	3.87E+11	4.873
6	4.89E+09	62	2.04E+07	944	0.	
8	5.93E+09	82	8.67E+05	1241	0.	TEMP (C)
10	4.48E+09	102	4.99E+05	1538	0.	-15.6
12	3.21E+09	122	2.20E+05	1835	0.	
14	2.58E+09	142	1.15E+05	2132	0.	FROSTPOINT
16	1.99E+09	161	7.53E+05	2429	0.	-17.9
18	1.96E+09	181	2.94E+05	2726	0.	
20	1.26E+09	201	8.36E+04	3023	0.	TAS (M/S)
22	9.36E+08	221	6.28E+04	3320	0.	131.9
24	6.45E+08	241	3.49E+04	3617	0.	
26	2.58E+08	260	2.14E+04	3914	0.	NT (N/M3)
28	1.32E+08	280	1.31E+04	4211	0.	1572233.7
30	2.36E+08	300	9.45E+03	4508	0.	
						TOTALS
LWC	9.05E-02		3.42E-01		1.25E-02	5.54E-01
MED D	19		101		415	183

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	3.19E+08	23	5.53E+07	484	6.53E+13	ALT (KM)
4	1.30E+09	43	4.14E+07	647	0.	4.878
6	4.15E+09	62	1.75E+07	944	0.	
8	5.66E+09	82	8.88E+06	1241	0.	TEMP (C)
10	3.92E+09	102	4.53E+06	1538	0.	-15.7
12	2.84E+09	122	2.42E+06	1835	0.	
14	2.53E+09	142	1.23E+06	2132	0.	FROSTPOINT
16	1.86E+09	161	4.34E+05	2429	0.	-17.9
18	1.73E+09	181	2.55E+05	2726	0.	
20	1.08E+09	201	1.14E+05	3023	0.	TAS (M/S)
22	7.98E+08	221	6.27E+04	3320	0.	132.1
24	4.92E+08	241	3.48E+04	3617	0.	
26	2.94E+08	260	2.13E+04	3914	0.	NT (N/M3)
28	1.59E+08	280	1.31E+04	4211	0.	1517924.1
30	2.15E+08	300	1.17E+04	4508	0.	
						TOTALS
LWC	8.08E-02		3.41E-01		4.29E-02	5.04E-01
MED D	19		104		484	113

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:55:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	4.94E+08	23	6.53E+07	404	1.40E+04	ALT (KM)
4	1.42E+09	43	3.86E+07	647	0.	4.870
6	4.65E+09	62	2.29E+07	944	0.	
8	5.59E+09	82	1.09E+07	1241	0.	TEMP (C)
10	3.96E+09	102	4.57E+06	1538	0.	-15.8
12	2.66E+09	122	2.12E+06	1835	0.	
14	2.25E+09	142	9.08E+05	2132	0.	FROSTPOINT
16	1.83E+09	161	2.99E+05	2429	0.	-17.9
18	1.58E+09	181	2.35E+05	2726	0.	
20	1.13E+09	201	8.54E+04	3023	0.	TAS (M/S)
22	8.72E+08	221	3.17E+04	3320	0.	132.2
24	4.61E+08	241	1.39E+05	3617	0.	
26	2.42E+08	260	6.24E+04	3914	0.	NT (N/M3)
28	1.66E+08	280	2.50E+04	4211	0.	1277155.7
30	1.73E+08	300	2.50E+04	4508	0.	
						TOTALS
LWC	7.71E-02		7.59E-01		9.19E-02	4.51E-01
MED D	19		100		404	121

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:55:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.45E+08	23	6.77E+07	404	2.27E+04	ALT (KM)
4	7.40E+08	43	3.34E+07	647	0.	4.870
6	2.76E+09	62	1.78E+07	944	0.	
8	2.44E+09	82	1.10E+07	1241	0.	TEMP (C)
10	1.88E+09	102	3.11E+06	1538	0.	-15.8
12	1.12E+09	122	2.23E+06	1835	0.	
14	8.43E+08	142	7.13E+05	2132	0.	FROSTPOINT
16	7.81E+08	161	3.85E+05	2429	0.	-17.9
18	6.64E+08	181	1.56E+05	2726	0.	
20	4.56E+08	201	2.56E+04	3023	0.	TAS (M/S)
22	2.31E+08	221	3.19E+05	3320	0.	132.4
24	1.52E+08	241	3.48E+04	3617	0.	
26	6.91E+07	260	3.37E+04	3914	0.	NT (N/M3)
28	2.75E+07	280	4.57E+04	4211	0.	1381117.8
30	2.76E+07	300	4.34E+04	4508	0.	
						TOTALS
LWC	2.84E-02		3.47E-01		1.49E-01	4.96E-01
MED D	18		110		404	161

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:55:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	3.12E+08	23	5.73E+07	404	8.78E+03	ALT (KM)
4	1.23E+09	43	2.89E+07	647	0.	4.869
6	3.81E+09	62	1.43E+07	944	0.	
8	4.39E+09	82	6.55E+06	1241	0.	TEMP (C)
10	3.23E+09	102	2.21E+06	1538	0.	-15.8
12	2.32E+09	122	1.09E+06	1835	0.	
14	1.74E+09	142	7.52E+05	2132	0.	FROSTPOINT
16	1.36E+09	161	3.27E+05	2429	0.	-17.9
18	1.54E+09	181	2.09E+05	2726	0.	
20	8.93E+08	201	1.14E+05	3023	0.	TAS (M/S)
22	6.44E+08	221	6.26E+04	3320	0.	132.2
24	3.68E+08	241	3.48E+04	3617	0.	
26	1.84E+08	260	2.46E+04	3914	0.	NT (N/M3)
28	9.69E+07	280	1.74E+04	4211	0.	1195572.7
30	1.11E+08	300	1.56E+04	4508	0.	
						TOTALS
LWC	6.12E-02		2.42E-01		5.72E-02	2.99E-01
MED D	18		102		404	127

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *20:55:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	6.49E+08	23	9.11E+07	404	6.31E+03	ALT (KM)
4	1.95E+09	43	5.14E+07	647	3.85E+01	4.873
6	6.37E+09	62	2.93E+07	944	0.	
8	8.08E+09	82	1.38E+07	1241	0.	TEMP (C)
10	6.34E+09	102	6.01E+06	1538	0.	-15.7
12	4.49E+09	122	2.32E+06	1835	0.	
14	3.93E+09	142	1.25E+06	2132	0.	FROSTPOINT
16	2.68E+09	161	6.26E+05	2429	0.	-17.8
18	2.85E+09	181	3.64E+05	2726	0.	
20	1.96E+09	201	1.13E+05	3023	0.	TAS (M/S)
22	1.46E+09	221	1.25E+05	3320	0.	132.8
24	7.24E+08	241	6.93E+04	3617	0.	
26	5.58E+08	260	8.10E+04	3914	0.	NT (N/M3)
28	2.41E+08	280	9.67E+04	4211	0.	2842353.9
30	2.62E+08	300	6.15E+04	4508	0.	
						TOTALS
LWC	1.38E-01		4.31E-01		4.27E-02	5.84E-01
MED D	19		107		407	114

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:30
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	6.96E+08	23	8.31E+07	404	7.42E+13	ALT (KM)
4	2.34E+09	43	6.35E+07	647	0.	4.873
6	7.92E+09	62	2.87E+07	944	0.	
8	1.09E+10	82	1.44E+07	1241	0.	TEMP (C)
10	7.99E+09	102	6.36E+06	1538	0.	-15.8
12	5.93E+09	122	3.45E+06	1835	0.	
14	5.18E+09	142	1.33E+06	2132	0.	FROSTPOINT
16	3.63E+09	161	7.22E+05	2429	0.	-17.9
18	3.72E+09	181	3.12E+05	2726	0.	
20	2.54E+09	201	1.70E+05	3023	0.	TAS (M/S)
22	2.13E+09	221	2.15E+05	3320	0.	132.8
24	1.32E+09	241	6.97E+04	3617	0.	
26	8.34E+08	261	3.21E+04	3914	0.	NT (N/M3)
28	4.13E+08	281	1.48E+04	4211	0.	2379692.6
30	2.96E+08	300	1.33E+04	4508	0.	
						TOTALS
LWC	1.99E-01		5.27E-01		4.83E-02	5.76E-01
MED D	20		102		404	109

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	6.42E+08	23	7.12E+07	404	4.41E+13	ALT (KM)
4	2.22E+09	43	5.49E+07	647	6.11E+11	4.875
6	7.34E+09	62	2.34E+07	944	0.	
8	9.29E+09	82	1.14E+07	1241	0.	TEMP (C)
10	6.68E+09	102	5.26E+06	1538	0.	-16.8
12	4.91E+09	122	2.26E+06	1835	0.	
14	4.33E+09	142	1.07E+06	2132	0.	FROSTPOINT
16	2.99E+09	161	5.34E+05	2429	0.	-17.8
18	3.22E+09	181	2.12E+05	2726	0.	
20	1.99E+09	201	1.14E+05	3023	0.	TAS (M/S)
22	1.73E+09	221	1.37E+04	3320	0.	132.6
24	9.05E+08	241	0.	3617	0.	
26	5.11E+08	260	1.35E+04	3914	0.	NT (N/M3)
28	2.90E+08	280	3.30E+04	4211	0.	1974419.4
30	3.52E+08	300	2.76E+04	4508	0.	
						TOTALS
LWC	1.47E-01		4.10E-01		3.16E-02	4.42E-01
MED D	19		100		413	105

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	8.13E+08	23	7.41E+07	404	4.75E+13	ALT (KM)
4	2.24E+09	43	5.48E+07	647	1.53E+11	4.873
6	7.15E+09	62	2.66E+07	944	0.	
8	1.05E+10	82	1.27E+07	1241	0.	TEMP (C)
10	8.24E+09	102	5.66E+06	1538	0.	-16.9
12	6.69E+09	122	2.48E+06	1835	0.	
14	5.13E+09	142	1.35E+06	2132	0.	FROSTPOINT
16	3.78E+09	161	7.96E+05	2429	0.	-17.9
18	4.12E+09	181	2.50E+05	2726	0.	
20	2.51E+09	201	2.35E+05	3023	0.	TAS (M/S)
22	1.94E+09	221	3.12E+04	3320	0.	132.7
24	1.25E+09	241	0.	3617	0.	
26	1.01E+09	260	4.83E+04	3914	0.	NT (N/M3)
28	4.76E+08	280	8.66E+04	4211	0.	2085451.2
30	6.69E+08	300	5.45E+04	4508	0.	
						TOTALS
LWC	1.97E-01		4.74E-01		3.19E-02	5.06E-01
MED D	20		104		406	109

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	5.81E+08	23	7.52E+07	404	2.97E+13	ALT (KM)
4	2.26E+09	43	5.15E+07	647	3.86E+11	4.878
6	7.35E+09	62	2.34E+07	944	0.	
8	1.01E+10	82	1.19E+07	1241	0.	TEMP (C)
10	7.89E+09	102	5.12E+06	1538	0.	-16.8
12	5.38E+09	122	2.34E+06	1835	0.	
14	4.85E+09	142	8.77E+05	2132	0.	FROSTPOINT
16	3.77E+09	161	2.41E+05	2429	0.	-17.8
18	3.44E+09	181	3.38E+05	2726	0.	
20	2.58E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	1.79E+09	221	1.87E+05	3320	0.	132.5
24	9.94E+08	241	3.47E+04	3617	0.	
26	7.18E+08	260	3.25E+04	3914	0.	NT (N/M3)
28	3.84E+08	280	3.34E+04	4211	0.	1986245.8
30	3.52E+08	300	2.10E+04	4508	0.	
						TOTALS
LWC	1.66E-01		4.66E-01		2.88E-02	4.26E-01
MED D	19		93		411	102

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	4.39E+08	23	5.12E+07	404	3.69E+04	ALT (KM)
4	1.44E+09	43	4.36E+07	647	0.	4.871
6	4.82E+09	62	1.79E+07	944	0.	
8	5.43E+09	82	1.11E+07	1241	0.	TEMP (C)
10	4.32E+09	102	4.92E+06	1538	0.	-16.9
12	2.72E+09	122	2.37E+06	1835	0.	
14	2.56E+09	142	1.45E+06	2132	0.	FROSTPOINT
16	1.91E+09	161	7.78E+05	2429	0.	-17.9
18	1.89E+09	181	2.09E+05	2726	0.	
20	1.23E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	9.68E+08	221	9.39E+04	3320	0.	132.4
24	4.56E+08	241	5.35E+04	3617	0.	
26	2.61E+08	261	7.15E+04	3914	0.	NT (N/M3)
28	9.63E+07	281	7.3AE+04	4211	0.	17*3694.1
30	1.66E+08	300	6.51E+04	4508	0.	
						TOTALS
LWC	8.23E-02		4.09E-01		2.43E-01	6.51E-01
MED D	19		108		404	195

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.59E+08	23	4.31E+07	404	2.26E+04	ALT (KM)
4	7.72E+08	43	4.72E+07	647	0.	4.874
6	2.29E+09	62	1.84E+07	944	0.	
8	2.62E+09	82	9.87E+06	1241	0.	TEMP (C)
10	1.74E+09	102	4.41E+06	1538	0.	-15.8
12	1.19E+09	122	1.52E+06	1835	0.	
14	9.65E+08	142	9.64E+05	2132	0.	FROSTPOINT
16	6.14E+08	161	5.17E+05	2429	0.	-17.7
18	6.96E+08	181	2.53E+05	2726	0.	
20	5.03E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	4.41E+08	221	9.36E+04	3320	0.	132.7
24	1.39E+08	241	3.47E+04	3617	0.	
26	1.31E+08	260	3.36E+04	3914	0.	NT (N/M3)
28	4.14E+07	280	4.52E+04	4211	0.	1*52699.9
30	9.65E+07	300	4.15E+04	4508	0.	
						TOTALS
LWC	3.43E-02		3.84E-01		1.43E-01	4.82E-01
MED D	19		100		404	143

SAMPLE: 18A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:55:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	1.93E+08	23	6.41E+07	404	2.78E+04	ALT (KM)
4	8.33E+08	43	4.11E+07	647	0.	4.873
6	2.71E+09	62	2.11E+07	944	0.	
8	2.46E+09	82	9.72E+06	1241	0.	TEMP (C)
10	1.48E+09	102	4.31E+06	1538	0.	-15.9
12	1.24E+09	122	1.92E+06	1835	0.	
14	1.01E+09	142	9.34E+05	2132	0.	FROSTPOINT
16	6.83E+08	161	3.13E+05	2429	0.	-17.8
18	7.11E+08	181	3.38E+05	2726	0.	
20	4.14E+08	201	1.38E+05	3023	0.	TAS (M/S)
22	2.96E+08	221	9.36E+04	3320	0.	132.7
24	1.59E+08	241	6.93E+04	3617	0.	
26	1.52E+08	260	6.21E+04	3914	0.	NT (N/M3)
28	5.52E+07	280	5.57E+04	4211	0.	1683329.8
30	1.18E+08	300	4.99E+04	4508	0.	
						TOTALS
LWC	3.38E-02		3.92E-01		1.83E-01	5.65E-01
MED D	19		105		404	168

SAMPLE: 18B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	8.97E+07	23	6.11E+07	404	2.63E+04	ALT (KM)
4	2.28E+08	43	4.59E+07	647	0.	4.877
6	9.79E+08	62	2.15E+07	944	0.	
8	1.03E+09	82	1.10E+07	1241	0.	TEMP (C)
10	7.71E+08	102	3.31E+06	1538	0.	-15.8
12	4.83E+08	122	2.23E+06	1835	0.	
14	3.31E+08	142	9.85E+05	2132	0.	FROSTPOINT
16	2.21E+08	161	7.13E+05	2429	0.	-16.5
18	2.62E+08	181	1.56E+05	2726	0.	
20	1.93E+08	201	8.51E+04	3023	0.	TAS (M/S)
22	1.93E+08	221	1.25E+05	3320	0.	132.7
24	1.31E+08	241	0.	3617	0.	
26	2.76E+07	261	2.58E+04	3914	0.	NT (N/M3)
28	2.76E+07	280	5.20E+04	4211	0.	1692345.6
30	1.38E+07	300	4.66E+04	4508	0.	
						TOTALS
LWC	1.35E-02		3.32E-01		1.71E-01	5.23E-01
MED D	19		98		404	148

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	6.76E+08	23	1.10E+09	484	4.67E+03	ALT (KM)
4	2.84E+09	43	7.37E+07	647	3.85E+01	4.873
6	6.58E+09	62	3.13E+07	944	0.	
8	8.61E+09	82	1.43E+07	1241	0.	TEMP (C)
10	6.67E+09	102	6.56E+05	1538	0.	-15.8
12	4.81E+09	122	3.57E+06	1835	0.	
14	4.08E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	3.41E+09	161	9.19E+05	2429	0.	-16.5
18	2.92E+09	181	5.46E+05	2726	0.	
20	2.15E+09	201	2.55E+05	3023	0.	TAS (M/S)
22	1.72E+09	221	2.91E+05	3320	0.	132.6
24	1.05E+09	241	1.39E+05	3617	0.	
26	7.24E+08	261	3.13E+04	3914	0.	NT (N/M3)
28	3.73E+08	281	4.11E+04	4211	0.	2643288.5
30	4.97E+08	300	4.10E+04	4508	0.	
						TOTALS
LWC	1.56E-01		5.30E-01		3.23E-12	6.62E-01
MED D	20		112		448	116

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	8.53E+08	23	1.18E+08	484	5.47E+03	ALT (KM)
4	2.37E+09	43	6.42E+07	647	4.60E+01	4.871
6	6.35E+09	62	3.26E+07	944	1.61E+01	
8	1.05E+10	82	1.30E+07	1241	0.	TEMP (C)
10	9.77E+09	102	6.70E+06	1538	0.	-15.2
12	8.14E+09	122	3.16E+06	1835	0.	
14	6.96E+09	142	1.38E+06	2132	0.	FROSTPOINT
16	5.10E+09	161	7.27E+05	2429	0.	-16.5
18	5.96E+09	181	3.14E+05	2726	0.	
20	3.63E+09	201	2.00E+05	3023	0.	TAS (M/S)
22	3.32E+09	221	3.14E+04	3320	0.	131.9
24	2.25E+09	241	3.49E+04	3617	0.	
26	1.51E+09	261	4.56E+04	3914	0.	NT (N/M3)
28	7.63E+08	280	6.23E+04	4211	0.	2424258.7
30	1.02E+09	301	4.23E+04	4508	0.	
						TOTALS
LWC	2.89E-01		5.16E-01		4.01E-12	5.56E-01
MED D	21		100		415	105

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 140 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	7.13E+08	23	7.44E+07	484	4.49E+03	ALT (KM)
4	2.46E+09	43	6.40E+07	647	3.86E+01	4.873
6	7.08E+09	62	2.69E+07	944	0.	
8	1.13E+10	82	1.37E+07	1241	0.	TEMP (C)
10	9.44E+09	102	7.34E+05	1538	0.	-15.1
12	7.51E+09	122	2.30E+05	1835	0.	
14	6.72E+09	142	1.73E+06	2132	0.	FROSTPOINT
16	4.64E+09	161	7.49E+05	2429	0.	-16.5
18	5.86E+09	181	3.13E+05	2726	0.	
20	3.58E+09	201	1.14E+05	3023	0.	TAS (M/S)
22	3.08E+09	221	2.19E+05	3320	0.	132.3
24	1.94E+09	241	1.84E+05	3617	0.	
26	1.24E+09	260	7.58E+04	3914	0.	NT (N/M3)
28	5.53E+08	280	5.55E+04	4211	0.	2393303.9
30	8.51E+08	300	3.77E+04	4508	0.	
						TOTALS
LWC	2.56E-01		5.51E-01		3.89E-12	5.92E-01
MED D	29		104		409	108

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 180 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	7.85E+08	23	9.59E+07	484	4.85E+03	ALT (KM)
4	2.75E+09	43	5.74E+07	647	4.61E+01	4.871
6	6.76E+09	62	2.34E+07	944	0.	
8	1.18E+10	82	1.57E+07	1241	0.	TEMP (C)
10	9.54E+09	102	7.92E+06	1538	0.	-15.3
12	7.46E+09	122	2.77E+05	1835	0.	
14	5.95E+09	142	1.47E+06	2132	0.	FROSTPOINT
16	4.83E+09	161	9.71E+05	2429	0.	-16.4
18	5.29E+09	181	4.19E+05	2726	0.	
20	3.57E+09	201	3.14E+05	3023	0.	TAS (M/S)
22	2.86E+09	221	1.99E+05	3320	0.	131.7
24	1.61E+09	241	3.49E+04	3617	0.	
26	1.11E+09	260	5.52E+04	3914	0.	NT (N/M3)
28	4.86E+08	280	5.73E+04	4211	0.	2388752.2
30	7.50E+08	300	5.32E+04	4508	0.	
						TOTALS
LWC	2.44E-01		5.75E-01		4.78E-12	6.22E-01
MED D	20		105		409	111

SAMPLE# 189 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#20:56:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	6.89E+08	23	9.19E+07	404	7.59E+04	ALT (KM)
4	1.86E+09	43	5.66E+07	647	0.	4.871
6	6.76E+09	62	7.61E+07	944	0.	
8	8.99E+09	82	1.34E+07	1241	0.	TEMP (C)
10	6.57E+09	102	5.41E+06	1538	0.	-15.7
12	4.71E+09	122	3.17E+06	1835	0.	
14	4.16E+09	142	1.53E+06	2132	0.	FROSTPOINT
16	2.98E+09	161	6.77E+05	2429	0.	-16.4
18	3.27E+09	181	3.41E+05	2726	0.	
20	2.21E+09	201	1.54E+05	3023	0.	TAS (M/S)
22	1.75E+09	221	2.22E+05	3320	0.	131.5
24	1.14E+09	241	6.39E+04	3617	0.	
26	6.69E+08	261	7.49E+04	3914	0.	NT (N/M3)
28	2.93E+08	281	7.18E+04	4211	0.	2137661.4
30	4.65E+08	301	6.43E+04	4508	0.	
						TOTALS
LWC	1.57E-01		5.38E-01		2.36E-01	7.44E-01
MED D	20		104		404	153

SAMPLE# 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#20:56:38*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	6.69E+07	23	4.35E+07	404	1.31E+04	ALT (KM)
4	1.25E+08	43	3.30E+07	647	0.	4.873
6	2.64E+08	62	2.42E+07	944	0.	
8	3.55E+08	82	8.32E+06	1241	0.	TEMP (C)
10	2.85E+08	102	4.96E+06	1538	0.	-15.1
12	1.67E+08	122	2.17E+06	1835	0.	
14	1.46E+08	142	9.13E+05	2132	0.	FROSTPOINT
16	6.26E+07	161	4.51E+05	2429	0.	-16.7
18	6.26E+07	181	1.83E+05	2726	0.	
20	5.56E+07	201	8.58E+04	3023	0.	TAS (M/S)
22	2.79E+07	221	6.29E+04	3320	0.	131.6
24	2.78E+07	241	3.49E+04	3617	0.	
26	0.	261	3.13E+04	3914	0.	NT (N/M3)
28	0.	281	2.32E+04	4211	0.	1795423.9
30	0.	301	2.35E+04	4508	0.	
						TOTALS
LWC	3.21E-03		3.28E-01		8.62E-12	4.14E-01
MED D	16		103		404	128

SAMPLE# 183 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#20:56:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	2.92E+09	23	7.36E+07	404	2.61E+04	ALT (KM)
4	9.72E+08	43	7.34E+07	647	1.54E+01	4.873
6	3.66E+09	62	2.44E+07	944	0.	
8	3.99E+09	82	9.54E+06	1241	0.	TEMP (C)
10	3.01E+09	102	4.69E+06	1538	0.	-15.2
12	2.03E+09	122	2.45E+06	1835	0.	
14	1.74E+09	142	1.21E+06	2132	0.	FROSTPOINT
16	1.25E+09	161	4.35E+05	2429	0.	-16.4
18	1.35E+09	181	2.09E+05	2726	0.	
20	9.18E+08	201	2.57E+05	3023	0.	TAS (M/S)
22	6.53E+08	221	9.43E+04	3320	0.	131.8
24	3.33E+08	241	1.41E+05	3617	0.	
26	2.22E+08	261	6.99E+04	3914	0.	NT (N/M3)
28	1.18E+08	281	3.49E+04	4211	0.	1537784.4
30	1.67E+08	301	2.71E+04	4508	0.	
						TOTALS
LWC	6.11E-02		4.15E-01		1.78E-02	4.33E-01
MED D	19		103		408	113

SAMPLE# 189 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#20:56:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	2.79E+07	23	6.17E+07	404	6.57E+03	ALT (KM)
4	1.53E+08	43	4.53E+07	647	0.	4.874
6	4.25E+08	62	2.42E+07	944	0.	
8	4.94E+08	82	8.78E+06	1241	0.	TEMP (C)
10	3.23E+08	102	5.16E+06	1538	0.	-15.8
12	3.86E+08	122	2.10E+06	1835	0.	
14	2.37E+08	142	9.64E+05	2132	0.	FROSTPOINT
16	1.74E+08	161	4.52E+05	2429	0.	-16.3
18	1.46E+08	181	2.63E+05	2726	0.	
20	9.75E+07	201	1.43E+05	3023	0.	TAS (M/S)
22	6.27E+07	221	9.45E+04	3320	0.	131.4
24	1.39E+07	241	3.58E+04	3617	0.	
26	1.39E+07	261	2.14E+04	3914	0.	NT (N/M3)
28	6.96E+06	281	1.71E+04	4211	0.	1734035.1
30	6.96E+06	301	1.18E+04	4508	0.	
						TOTALS
LWC	6.09E-03		3.51E-01		4.32E-02	6.84E-01
MED D	17		99		404	186

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	1.04E+08	23	6.26E+07	404	2.28E+04	ALT (KM)
4	5.49E+08	43	4.56E+07	647	0.	4.873
6	1.49E+09	62	2.47E+07	944	0.	
8	1.36E+09	82	1.13E+07	1241	0.	TEMP (C)
10	9.10E+08	102	5.20E+06	1538	0.	-15.0
12	7.65E+08	122	2.59E+06	1835	0.	
14	5.35E+08	142	1.12E+06	2132	0.	FROSTPOINT
16	3.48E+08	161	5.52E+05	2429	0.	-16.3
18	4.45E+08	181	1.57E+05	2726	0.	
20	2.15E+08	201	1.14E+05	3023	0.	TAS (M/S)
22	1.32E+08	221	0.	3320	0.	131.6
24	1.32E+08	241	3.49E+04	3617	0.	
26	8.34E+07	260	3.39E+04	3914	0.	NT (N/M3)
28	6.26E+07	280	4.55E+04	4211	0.	1677528.2
30	7.65E+07	300	4.19E+04	4508	0.	
						TOTALS
LWC	2.08E-02		4.02E-01		1.50E-01	5.51E-01
MED D	19		100		404	127

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	7.46E+08	23	6.28E+07	404	2.87E+04	ALT (KM)
4	2.13E+09	43	3.52E+07	647	0.	4.873
6	6.72E+09	62	1.76E+07	944	0.	
8	9.90E+09	82	8.41E+06	1241	0.	TEMP (C)
10	8.74E+09	102	4.91E+06	1538	0.	-15.1
12	6.45E+09	122	2.14E+06	1835	0.	
14	5.79E+09	142	1.21E+06	2132	0.	FROSTPOINT
16	4.33E+09	161	3.90E+05	2429	0.	-16.3
18	5.17E+09	181	2.37E+05	2726	0.	
20	3.05E+09	201	1.43E+05	3023	0.	TAS (M/S)
22	2.52E+09	221	1.28E+05	3320	0.	131.2
24	1.44E+09	241	0.	3617	0.	
26	1.08E+09	260	2.87E+04	3914	0.	NT (N/M3)
28	5.79E+08	280	4.13E+04	4211	0.	1399402.6
30	6.34E+08	300	3.70E+04	4508	0.	
						TOTALS
LWC	2.24E-01		7.47E-01		1.36E-01	4.82E-01
MED D	20		107		404	139

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	1.32E+08	23	6.57E+07	404	1.37E+13	ALT (KM)
4	5.85E+08	43	5.96E+07	647	1.54E+11	4.873
6	1.70E+09	62	3.33E+07	944	0.	
8	2.12E+09	82	1.32E+07	1241	0.	TEMP (C)
10	2.00E+09	102	6.22E+06	1538	0.	-15.0
12	1.03E+09	122	3.53E+06	1835	0.	
14	9.81E+08	142	1.30E+06	2132	0.	FROSTPOINT
16	6.54E+08	161	7.29E+05	2429	0.	-16.3
18	9.68E+08	181	2.10E+05	2726	0.	
20	5.43E+08	201	1.72E+05	3023	0.	TAS (M/S)
22	3.27E+08	221	1.37E+05	3320	0.	131.5
24	1.95E+08	241	1.15E+05	3617	0.	
26	1.11E+08	260	3.71E+04	3914	0.	NT (N/M3)
28	4.87E+07	280	1.31E+04	4211	0.	2294143.8
30	1.18E+08	300	9.15E+03	4508	0.	
						TOTALS
LWC	3.55E-02		5.03E-01		9.64E-03	5.13E-01
MED D	19		103		411	104

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	5.71E+08	23	3.23E+07	404	1.49E+13	ALT (KM)
4	1.45E+09	43	1.84E+07	647	1.54E+11	4.868
6	4.55E+09	62	8.98E+06	944	0.	
8	6.73E+09	82	4.98E+06	1241	0.	TEMP (C)
10	5.87E+09	102	1.72E+06	1538	0.	-15.2
12	4.54E+09	122	1.16E+06	1835	0.	
14	4.04E+09	142	7.37E+05	2132	0.	FROSTPOINT
16	2.80E+09	161	1.46E+05	2429	0.	-16.2
18	3.17E+09	181	2.10E+05	2726	0.	
20	2.25E+09	201	8.59E+04	3023	0.	TAS (M/S)
22	1.88E+09	221	6.38E+04	3320	0.	131.5
24	1.12E+09	241	0.	3617	0.	
26	6.61E+08	260	7.50E+03	3914	0.	NT (N/M3)
28	4.24E+08	280	1.50E+04	4211	0.	722312.2
30	4.38E+08	300	1.04E+04	4508	0.	
						TOTALS
LWC	1.55E-01		1.77E-01		1.85E-02	1.08E-01
MED D	20		109		411	114

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	7.27E+08	23	4.77E+07	404	2.93E+03	ALT (KM)
4	2.86E+09	43	3.45E+07	647	1.55E+01	4.867
6	6.18E+09	62	1.77E+07	944	0.	
8	8.71E+09	82	6.79E+06	1241	0.	TEMP (C)
10	8.17E+09	102	4.72E+06	1538	0.	-15.2
12	6.31E+09	122	2.22E+06	1835	0.	
14	5.14E+09	142	1.27E+06	2132	0.	FROSTPOINT
16	4.17E+09	161	4.15E+05	2429	0.	-16.2
18	4.46E+09	181	3.16E+05	2726	0.	
20	3.88E+09	201	3.62E+04	3023	0.	TAS (M/S)
22	2.55E+09	221	9.48E+04	3320	0.	131.0
24	1.47E+09	241	7.17E+04	3617	0.	
25	1.03E+09	251	5.39E+04	3914	0.	NT (N/M3)
28	4.54E+08	283	4.14E+04	4211	0.	1351395.9
30	6.92E+08	300	2.71E+04	4508	0.	TOTALS
LWC	2.1+E-01		3.+7E-01		1.99E-02	3.67E-01
MED D	20		112		408	117

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	8.37E+08	23	8.31E+07	404	1.72E+03	ALT (KM)
4	2.28E+09	43	5.44E+07	647	3.09E+01	4.864
6	6.66E+09	62	3.18E+07	944	0.	
8	1.12E+10	82	1.58E+07	1241	0.	TEMP (C)
10	1.07E+10	102	7.14E+06	1538	0.	-15.4
12	7.48E+09	122	3.57E+06	1835	0.	
14	6.48E+09	142	1.45E+06	2132	0.	FROSTPOINT
16	4.95E+09	161	6.33E+05	2429	0.	-16.1
18	5.16E+09	181	7.10E+05	2726	0.	
20	3.98E+09	201	2.31E+05	3023	0.	TAS (M/S)
22	2.87E+09	221	1.55E+05	3320	0.	131.2
24	1.95E+09	241	3.51E+04	3617	0.	
26	1.13E+09	263	7.15E+04	3914	0.	NT (N/M3)
28	5.65E+08	283	1.32E+04	4211	0.	2313255.2
30	7.33E+08	300	9.51E+03	4508	0.	TOTALS
LWC	2.52E-01		5.52E-01		1.26E-02	5.64E-01
MED D	20		102		415	103

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.13E+08	23	5.17E+07	404	1.37E+03	ALT (KM)
4	2.12E+09	43	4.24E+07	647	1.54E+01	4.864
6	5.64E+09	62	2.47E+07	944	0.	
8	1.01E+10	82	1.22E+07	1241	0.	TEMP (C)
10	1.09E+10	102	5.57E+06	1538	0.	-15.3
12	8.41E+09	122	2.70E+06	1835	0.	
14	7.68E+09	142	1.31E+06	2132	0.	FROSTPOINT
16	5.91E+09	161	7.56E+05	2429	0.	-16.2
18	6.49E+09	181	3.42E+05	2726	0.	
20	4.48E+09	201	3.16E+05	3023	0.	TAS (M/S)
22	3.68E+09	221	1.93E+05	3320	0.	131.0
24	2.46E+09	241	7.42E+04	3617	0.	
26	1.65E+09	263	3.14E+04	3914	0.	NT (N/M3)
28	7.48E+08	280	1.32E+04	4211	0.	1796696.7
30	1.05E+09	300	9.18E+03	4508	0.	TOTALS
LWC	3.16E-01		+.58E-01		9.67E-03	4.70E-01
MED D	20		109		411	110

SAMPLE: 188 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 20:56:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	4.77E+08	23	7.22E+07	404	3.77E+03	ALT (KM)
4	1.67E+09	43	2.75E+07	647	1.57E+01	4.866
6	4.89E+09	62	1.14E+07	944	0.	
8	7.63E+09	82	5.47E+06	1241	0.	TEMP (C)
10	6.11E+09	102	3.22E+06	1538	0.	-15.5
12	4.69E+09	122	1.71E+06	1835	0.	
14	3.78E+09	142	6.74E+05	2132	0.	FROSTPOINT
16	3.06E+09	161	3.38E+05	2429	0.	-16.1
18	3.09E+09	181	2.35E+05	2726	0.	
20	2.13E+09	201	5.59E+04	3023	0.	TAS (M/S)
22	1.72E+09	221	1.25E+05	3320	0.	132.3
24	1.13E+09	241	3.48E+04	3617	0.	
25	6.64E+08	269	4.5+E+04	3914	0.	NT (N/M3)
28	2.56E+08	280	6.19E+04	4211	0.	1088816.1
30	3.74E+08	300	3.91E+04	4508	0.	TOTALS
LWC	1.48E-01		2.55E-01		2.54E-02	2.98E-01
MED D	20		115		407	124

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:19:31@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	1.01E+09	23	4.47E+07	404	0.	ALT (KM)
4	3.38E+09	43	3.11E+07	647	0.	4.843
6	7.66E+09	62	1.13E+07	944	0.	
8	1.22E+10	82	5.24E+06	1241	0.	TEMP (C)
10	1.03E+10	102	2.18E+06	1538	0.	-27.9
12	8.51E+09	122	1.22E+06	1835	0.	
14	7.77E+09	142	8.26E+05	2132	0.	FROSTPOINT
16	4.95E+09	161	5.17E+05	2429	0.	-32.3
18	5.36E+09	181	2.48E+05	2726	0.	
20	4.12E+09	201	1.21E+04	3023	0.	TAS (M/S)
22	3.91E+09	221	1.21E+04	3320	0.	125.0
24	2.38E+09	241	3.68E+04	3617	0.	
26	2.12E+09	260	0.	3914	0.	NT (N/M3)
29	1.32E+09	290	0.	4211	0.	1038331.6
30	1.24E+09	300	0.	4508	0.	
						TOTALS
LWC	3.31E-01		2.14E-01		0.	2.04E-01
MED D	21		100		0	100

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:19:32@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	6.58E+08	23	5.83E+07	404	3.18E+01	ALT (KM)
4	1.98E+09	43	3.57E+07	647	1.62E+01	4.843
6	6.02E+09	62	1.86E+07	944	0.	
8	9.53E+09	82	8.11E+06	1241	0.	TEMP (C)
10	8.94E+09	102	4.19E+06	1538	0.	-27.9
12	7.13E+09	122	2.44E+06	1835	0.	
14	6.38E+09	142	7.42E+05	2132	0.	FROSTPOINT
16	4.35E+09	161	5.76E+05	2429	0.	-32.4
18	4.35E+09	181	2.20E+05	2726	0.	
20	3.14E+09	201	5.21E+04	3023	0.	TAS (M/S)
22	3.05E+09	221	1.32E+05	3320	0.	125.3
24	2.11E+09	241	7.24E+04	3617	0.	
25	1.58E+09	251	5.90E+04	3914	0.	NT (N/M3)
29	8.25E+08	280	4.59E+04	4211	0.	1485718.7
30	9.86E+08	300	7.00E+04	4508	0.	
						TOTALS
LWC	2.67E-01		3.47E-01		2.16E-32	3.68E-01
MED D	21		109		489	114

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:19:31@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	7.89E+08	23	5.79E+07	404	1.01E+01	ALT (KM)
4	2.14E+09	43	3.63E+07	647	1.62E+01	4.842
6	6.01E+09	62	2.02E+07	944	0.	
8	1.04E+10	82	9.12E+06	1241	0.	TEMP (C)
10	1.07E+10	102	4.72E+06	1538	0.	-27.9
12	8.67E+09	122	2.28E+06	1835	0.	
14	7.52E+09	142	9.59E+05	2132	0.	FROSTPOINT
15	5.30E+09	161	5.06E+05	2429	0.	-32.3
18	6.03E+09	181	2.75E+05	2726	0.	
20	4.24E+09	201	9.02E+04	3023	0.	TAS (M/S)
22	4.14E+09	221	1.98E+05	3320	0.	125.2
24	2.86E+09	241	0.	3617	0.	
25	2.39E+09	261	0.	3914	0.	NT (N/M3)
28	1.27E+09	280	0.	4211	0.	1453942.3
30	1.41E+09	300	0.	4508	0.	
						TOTALS
LWC	3.56E-01		3.25E-01		7.50E-04	3.26E-01
MED D	22		101		633	101

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:19:33@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	3.58E+08	23	5.62E+07	404	1.79E+33	ALT (KM)
4	1.40E+09	43	3.59E+07	647	3.23E+01	4.845
6	4.86E+09	62	1.90E+07	944	0.	
8	5.90E+09	82	7.02E+06	1241	0.	TEMP (C)
10	3.93E+09	102	5.20E+06	1538	0.	-27.9
12	2.94E+09	122	2.32E+06	1835	0.	
14	2.47E+09	142	3.59E+05	2132	0.	FROSTPOINT
16	1.77E+09	161	4.84E+05	2429	0.	-32.4
18	1.99E+09	181	3.03E+05	2726	0.	
20	1.55E+09	201	1.20E+05	3023	0.	TAS (M/S)
22	1.12E+09	221	3.32E+04	3320	0.	125.3
24	7.16E+08	241	3.67E+04	3617	0.	
26	5.18E+08	260	2.25E+04	3914	0.	NT (N/M3)
29	2.56E+08	290	1.38E+04	4211	0.	1454085.9
30	2.41E+08	300	4.95E+03	4508	0.	
						TOTALS
LWC	1.81E-01		3.78E-01		1.32E-02	3.43E-01
MED D	20		104		415	106

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:34*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	3.14E+09	23	4.99E+07	404	1.61E+04	ALT (KM)
4	1.22E+09	43	1.38E+07	647	0.	4.845
6	4.55E+08	62	2.10E+07	944	0.	
8	5.73E+08	82	1.02E+07	1241	0.	TEMP (C)
10	4.45E+08	102	4.57E+06	1538	0.	-27.8
12	3.30E+08	122	2.67E+06	1835	0.	
14	2.60E+08	142	9.37E+05	2132	0.	FROSTPOINT
16	1.66E+08	161	4.85E+05	2429	0.	-32.4
18	1.37E+08	181	2.76E+05	2726	0.	
20	1.43E+08	201	1.20E+05	3023	0.	TAS (M/S)
22	1.32E+08	221	1.32E+05	3320	0.	125.2
24	7.60E+08	241	7.75E+04	3617	0.	
26	5.32E+08	260	4.88E+04	3914	0.	NT (N/M3)
28	2.78E+08	280	3.22E+04	4211	0.	1613032.0
30	2.34E+08	300	2.88E+04	4508	0.	
						TOTALS
LWC	1.35E-01		3.32E-01		1.06E-01	4.88E-01
MED D	20		106		404	127

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:36*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	6.61E+08	23	1.28E+08	404	3.62E+03	ALT (KM)
4	1.95E+09	43	5.52E+07	647	1.61E+01	4.843
6	6.13E+09	62	3.36E+07	944	0.	
8	3.40E+09	82	1.57E+07	1241	0.	TEMP (C)
10	7.36E+09	102	5.96E+06	1538	0.	-28.8
12	5.77E+09	122	4.02E+06	1835	0.	
14	5.02E+09	142	2.05E+06	2132	0.	FROSTPOINT
16	3.47E+09	161	9.64E+05	2429	0.	-32.5
18	2.36E+09	181	5.70E+05	2726	0.	
20	2.77E+09	201	2.99E+05	3023	0.	TAS (M/S)
22	2.51E+09	221	3.29E+05	3320	0.	126.0
24	1.52E+09	241	1.65E+04	3617	0.	
26	1.33E+09	260	4.70E+04	3914	0.	NT (N/M3)
28	8.05E+08	280	5.06E+04	4211	0.	2572378.0
30	5.37E+08	300	3.90E+04	4508	0.	
						TOTALS
LWC	2.13E-01		5.48E-01		2.50E-02	6.73E-01
MED D	21		111		407	114

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.3
2	5.78E+08	23	9.24E+07	404	1.48E+04	ALT (KM)
4	1.85E+09	43	7.19E+07	647	0.	4.846
6	5.59E+09	62	3.27E+07	944	0.	
8	7.51E+08	82	1.72E+07	1241	0.	TEMP (C)
10	5.81E+09	102	7.76E+06	1538	0.	-27.9
12	4.25E+09	122	3.11E+06	1835	0.	
14	3.77E+09	142	1.77E+06	2132	0.	FROSTPOINT
16	2.57E+09	161	5.96E+05	2429	0.	-32.4
18	2.58E+09	181	3.24E+05	2726	0.	
20	2.09E+09	201	1.31E+05	3023	0.	TAS (M/S)
22	1.92E+09	221	1.45E+05	3320	0.	125.1
24	1.23E+09	241	7.35E+04	3617	0.	
26	9.80E+08	260	4.66E+04	3914	0.	NT (N/M3)
28	3.95E+08	280	2.95E+04	4211	0.	2699886.8
30	4.13E+08	300	2.65E+04	4508	0.	
						TOTALS
LWC	1.55E-01		5.08E-01		9.71E-02	6.97E-01
MED D	21		102		404	113

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:37*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	3.32E+08	23	1.03E+08	404	4.57E+03	ALT (KM)
4	1.80E+09	43	5.41E+07	647	1.61E+01	4.843
6	5.75E+09	62	3.73E+07	944	0.	
8	8.30E+08	82	1.59E+07	1241	0.	TEMP (C)
10	6.33E+09	102	5.17E+06	1538	0.	-28.8
12	5.17E+09	122	2.73E+06	1835	0.	
14	4.42E+09	142	1.75E+06	2132	0.	FROSTPOINT
16	3.30E+09	161	5.57E+05	2429	0.	-32.5
18	3.24E+09	181	4.92E+05	2726	0.	
20	2.45E+09	201	1.19E+05	3023	0.	TAS (M/S)
22	2.10E+09	221	2.63E+05	3320	0.	126.1
24	1.46E+09	241	7.30E+04	3617	0.	
26	1.12E+09	260	7.61E+04	3914	0.	NT (N/M3)
28	5.37E+08	280	7.95E+04	4211	0.	2172304.2
30	5.08E+08	300	5.04E+04	4508	0.	
						TOTALS
LWC	1.84E-01		5.48E-01		3.87E-02	5.79E-01
MED D	21		107		407	111

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:38*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	3.16E+08	23	9.68E+07	404	4.23E+03	ALT (KM)
4	1.61E+09	43	7.07E+07	647	3.23E+01	4.842
6	5.50E+09	62	2.38E+07	944	0.	
8	6.36E+09	82	1.28E+07	1241	0.	TEMP (C)
10	4.58E+09	102	7.46E+06	1536	0.	-27.9
12	3.56E+09	122	3.49E+06	1835	0.	
14	2.99E+09	142	1.54E+06	2132	0.	FROSTPOINT
16	1.32E+09	161	5.11E+05	2429	0.	-32.5
18	2.19E+09	181	4.39E+05	2726	0.	
20	1.54E+09	201	2.70E+05	3023	0.	TAS (M/S)
22	1.34E+09	221	1.32E+05	3320	0.	125.6
24	1.01E+09	241	7.32E+04	3617	0.	
26	5.37E+08	260	5.07E+04	3914	0.	NT (N/M3)
28	2.26E+08	280	5.04E+04	4211	0.	2527609.0
30	1.97E+08	300	3.79E+04	4508	0.	
						TOTALS
LWC	1.13E-01		5.57E-01		2.92E-02	5.86E-01
MED D	20		105		409	109

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	4.44E+08	23	8.47E+07	404	2.26E+03	ALT (KM)
4	1.59E+09	43	5.09E+07	647	1.61E+01	4.845
6	4.67E+09	62	3.46E+07	944	0.	
8	7.03E+09	82	1.52E+07	1241	0.	TEMP (C)
10	5.26E+09	102	7.40E+06	1538	0.	-28.0
12	4.27E+09	122	3.32E+06	1835	0.	
14	3.36E+09	142	2.28E+06	2132	0.	FROSTPOINT
16	2.50E+09	161	7.88E+05	2429	0.	-32.5
18	2.48E+09	181	6.04E+05	2726	0.	
20	1.94E+09	201	4.49E+05	3023	0.	TAS (M/S)
22	1.63E+09	221	1.98E+05	3320	0.	125.7
24	1.03E+09	241	1.10E+05	3617	0.	
26	7.72E+08	260	5.49E+04	3914	0.	NT (N/M3)
28	3.49E+08	280	2.75E+04	4211	0.	2486174.2
30	3.49E+08	300	1.84E+04	4508	0.	
						TOTALS
LWC	1.38E-01		6.17E-01		1.55E-02	6.32E-01
MED D	20		108		409	110

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:39*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	6.21E+08	23	9.23E+07	404	6.88E+03	ALT (KM)
4	1.90E+09	43	5.14E+07	647	0.	4.843
6	6.14E+09	62	3.37E+07	944	0.	
8	9.47E+09	82	1.24E+07	1241	0.	TEMP (C)
10	7.07E+09	102	7.55E+06	1538	0.	-28.0
12	5.79E+09	122	3.31E+06	1835	0.	
14	4.53E+09	142	1.89E+06	2132	0.	FROSTPOINT
16	3.17E+09	161	6.99E+05	2429	0.	-32.5
18	3.53E+09	181	3.58E+05	2726	0.	
20	2.52E+09	201	2.40E+05	3023	0.	TAS (M/S)
22	2.53E+09	221	2.31E+05	3320	0.	125.3
24	1.46E+09	241	1.10E+05	3617	0.	
26	1.19E+09	260	3.99E+04	3914	0.	NT (N/M3)
28	6.21E+08	280	1.38E+04	4211	0.	2431065.0
30	5.77E+08	300	1.23E+04	4508	0.	
						TOTALS
LWC	1.99E-01		5.69E-01		4.53E-02	6.15E-01
MED D	21		106		404	111

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	4.56E+08	23	9.30E+07	404	3.66E+04	ALT (KM)
4	1.66E+09	43	5.95E+07	647	0.	4.843
6	6.23E+09	62	3.61E+07	944	0.	
8	7.85E+09	82	1.46E+07	1241	0.	TEMP (C)
10	5.81E+09	102	7.29E+06	1538	0.	-28.0
12	4.18E+09	122	3.72E+06	1835	0.	
14	3.17E+09	142	1.59E+06	2132	0.	FROSTPOINT
16	2.25E+09	161	7.37E+05	2429	0.	-32.5
18	2.62E+09	181	3.29E+05	2726	0.	
20	2.18E+09	201	3.59E+05	3023	0.	TAS (M/S)
22	1.69E+09	221	3.88E+04	3320	0.	125.8
24	1.10E+09	241	1.10E+05	3617	0.	
26	8.08E+08	260	5.36E+04	3914	0.	NT (N/M3)
28	3.93E+08	280	7.32E+04	4211	0.	2359839.3
30	3.36E+08	300	5.55E+04	4508	0.	
						TOTALS
LWC	1.42E-01		5.91E-01		2.48E-01	8.32E-01
MED D	20		109		404	146

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 28 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.4
2	2.33E+08	23	5.85E+07	434	4.57E+03	ALT (KM)
4	1.35E+03	43	3.58E+07	647	3.21E+01	4.845
6	3.57E+03	62	2.25E+07	944	0.	
8	4.48E+03	82	7.83E+06	1241	0.	TEMP (C)
10	3.54E+03	102	4.27E+06	1538	0.	-28.0
12	2.58E+03	122	2.73E+06	1835	0.	
14	2.29E+03	142	1.53E+06	2132	0.	FROSTPOINT
16	1.63E+03	161	5.93E+05	2429	0.	-32.5
18	1.65E+03	181	2.19E+05	2726	0.	
20	1.24E+03	201	1.96E+05	3023	0.	TAS (M/S)
22	1.15E+03	221	1.64E+05	3320	0.	126.0
24	8.93E+03	241	7.72E+04	3617	0.	
26	5.68E+08	261	5.47E+04	3914	0.	NT (N/M3)
28	2.83E+03	280	3.67E+04	4211	0.	1494115.7
30	2.51E+03	300	3.06E+04	4508	0.	
						TOTALS
LWC	9.65E-02		3.82E-01		3.14E-02	4.13E-01
MED D	21		112		409	118

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 28 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	4.21E+08	23	1.02E+08	434	7.82E+03	ALT (KM)
4	1.68E+03	43	3.72E+07	647	0.	4.843
6	5.47E+03	62	3.58E+07	944	0.	
8	6.53E+03	82	1.46E+07	1241	0.	TEMP (C)
10	4.08E+03	102	7.81E+06	1538	0.	-27.9
12	3.73E+03	122	3.49E+06	1835	0.	
14	3.17E+03	142	1.41E+06	2132	0.	FROSTPOINT
16	2.21E+03	161	5.59E+05	2429	0.	-32.4
18	2.45E+03	181	4.78E+05	2726	0.	
20	1.68E+03	201	3.29E+05	3023	0.	TAS (M/S)
22	1.42E+03	221	1.97E+05	3320	0.	126.8
24	9.88E+08	241	7.63E+04	3617	0.	
26	6.13E+08	260	3.78E+04	3914	0.	NT (N/M3)
28	3.73E+08	280	1.56E+04	4211	0.	2485342.3
30	2.54E+08	300	1.40E+04	4508	0.	
						TOTALS
LWC	1.24E-01		5.63E-01		5.14E-02	6.14E-01
MED D	20		102		404	108

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 28 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	1.81E+08	23	8.83E+07	434	6.83E+03	ALT (KM)
4	8.91E+03	43	5.21E+07	647	0.	4.843
6	2.57E+03	62	2.65E+07	944	0.	
8	2.32E+03	82	1.11E+07	1241	0.	TEMP (C)
10	2.25E+03	102	5.68E+06	1538	0.	-27.9
12	1.41E+03	122	2.81E+06	1835	0.	
14	1.24E+03	142	1.96E+06	2132	0.	FROSTPOINT
16	1.87E+03	161	5.58E+05	2429	0.	-32.4
18	8.78E+08	181	3.28E+05	2726	0.	
20	7.39E+08	201	1.49E+05	3023	0.	TAS (M/S)
22	6.32E+08	221	1.64E+05	3320	0.	126.3
24	2.93E+08	241	1.09E+05	3617	0.	
26	2.25E+08	261	3.86E+04	3914	0.	NT (N/M3)
28	1.19E+08	280	1.37E+04	4211	0.	2316739.2
30	9.42E+07	300	1.22E+04	4508	0.	
						TOTALS
LWC	4.83E-02		4.75E-01		4.49E-02	5.28E-01
MED D	20		105		404	113

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 28 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.7
2	4.38E+08	23	1.04E+08	434	2.48E+04	ALT (KM)
4	1.72E+03	43	3.81E+07	647	0.	4.840
6	5.51E+03	62	2.34E+07	944	0.	
8	6.34E+03	82	1.25E+07	1241	0.	TEMP (C)
10	6.11E+03	102	7.13E+06	1538	0.	-27.9
12	4.51E+03	122	3.45E+06	1835	0.	
14	3.47E+03	142	1.82E+06	2132	0.	FROSTPOINT
16	2.47E+03	161	8.39E+05	2429	0.	-32.4
18	2.64E+03	181	4.34E+05	2726	0.	
20	2.18E+03	201	1.58E+05	3023	0.	TAS (M/S)
22	1.31E+03	221	1.98E+05	3320	0.	125.7
24	1.32E+03	241	7.32E+04	3617	0.	
26	8.66E+08	261	5.13E+04	3914	0.	NT (N/M3)
28	4.73E+08	280	4.97E+04	4211	0.	2385774.8
30	3.57E+08	300	4.45E+04	4508	0.	
						TOTALS
LWC	1.54E-01		5.61E-01		1.63E-01	7.24E-01
MED D	21		109		404	133

SAMPLE# 18C AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:19:46*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	2.99E+08	23	9.50E+07	484	2.28E+04	ALT (KM)
4	1.35E+09	43	5.31E+07	647	0.	4.847
6	5.44E+09	62	2.71E+07	944	0.	
8	6.64E+09	82	1.24E+07	1241	0.	TEMP (C)
10	5.23E+09	102	5.36E+06	1538	0.	-27.9
12	3.57E+09	122	2.93E+06	1835	0.	
14	3.51E+09	142	1.88E+06	2132	0.	FROSTPOINT
16	2.45E+09	161	4.56E+05	2429	0.	-32.4
18	2.37E+09	181	4.66E+05	2726	0.	
20	1.36E+09	201	3.36E+04	3023	0.	TAS (M/S)
22	1.73E+09	221	1.31E+05	3320	0.	126.8
24	1.08E+09	241	7.3E+04	3617	0.	
26	7.12E+08	261	5.77E+04	3914	0.	NT (N/M3)
28	4.5E+08	280	4.33E+04	4211	0.	2156889.9
30	3.43E+08	300	4.19E+04	4508	0.	
						TOTALS
LWC	1.39E-01		5.07E-01		1.50E-01	6.57E-01
MED D	28		185		404	129

SAMPLE# 18C AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:19:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 130 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	3.62E+08	23	7.11E+07	484	4.18E+03	ALT (KM)
4	1.37E+09	43	5.21E+07	647	3.19E+01	4.849
6	5.08E+09	62	2.33E+07	944	0.	
8	5.58E+09	82	1.11E+07	1241	0.	TEMP (C)
10	4.15E+09	102	4.68E+06	1538	0.	-28.0
12	2.91E+09	122	2.76E+06	1835	0.	
14	2.51E+09	142	1.56E+06	2132	0.	FROSTPOINT
16	1.88E+09	161	5.79E+05	2429	0.	-32.3
18	2.35E+09	181	2.17E+05	2726	0.	
20	1.68E+09	201	2.37E+05	3023	0.	TAS (M/S)
22	1.24E+09	221	3.79E+04	3320	0.	127.1
24	6.19E+08	241	7.24E+04	3617	0.	
26	4.39E+08	260	5.0E+04	3914	0.	NT (N/M3)
28	1.87E+08	280	4.98E+04	4211	0.	1928419.7
30	1.73E+08	300	3.75E+04	4508	0.	
						TOTALS
LWC	9.59E-02		4.32E-01		2.08E-02	4.61E-01
MED D	19		107		439	112

SAMPLE# 18C AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:19:47*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 130 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	3.33E+08	23	6.52E+07	484	2.88E+01	ALT (KM)
4	1.33E+09	43	4.12E+07	647	3.23E+01	4.847
6	5.65E+09	62	1.83E+07	944	0.	
8	5.99E+09	82	9.61E+06	1241	0.	TEMP (C)
10	4.14E+09	102	4.61E+06	1538	0.	-28.0
12	2.91E+09	122	2.57E+06	1835	0.	
14	2.29E+09	142	1.41E+06	2132	0.	FROSTPOINT
16	1.75E+09	161	5.21E+05	2429	0.	-32.3
18	1.91E+09	181	2.18E+05	2726	0.	
20	1.28E+09	201	2.78E+05	3023	0.	TAS (M/S)
22	1.22E+09	221	3.82E+04	3320	0.	126.5
24	7.31E+08	241	3.64E+04	3617	0.	
26	5.35E+08	260	0.	3914	0.	NT (N/M3)
28	2.17E+08	280	0.	4211	0.	1502369.9
30	2.17E+08	300	0.	4508	0.	
						TOTALS
LWC	9.78E-02		3.54E-01		1.49E-03	3.65E-01
MED D	28		185		533	186

SAMPLE# 18C AFFIS ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START@21:19:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.76E+08	23	9.17E+07	484	1.42E+03	ALT (KM)
4	1.59E+09	43	5.87E+07	647	1.63E+01	4.852
6	5.44E+09	62	2.77E+07	944	0.	
8	7.46E+09	82	1.33E+07	1241	0.	TEMP (C)
10	5.36E+09	102	5.75E+06	1538	0.	-28.0
12	4.57E+09	122	2.87E+06	1835	0.	
14	4.81E+09	142	1.25E+06	2132	0.	FROSTPOINT
16	2.75E+09	161	5.29E+05	2429	0.	-32.2
18	2.98E+09	181	4.10E+05	2726	0.	
20	2.86E+09	201	1.48E+05	3023	0.	TAS (M/S)
22	2.07E+09	221	1.31E+05	3320	0.	126.9
24	1.25E+09	241	3.63E+04	3617	0.	
26	9.91E+08	260	2.22E+04	3914	0.	NT (N/M3)
28	4.59E+08	280	1.36E+04	4211	0.	1951820.4
30	4.11E+08	300	9.48E+03	4508	0.	
						TOTALS
LWC	1.63E-01		4.36E-01		9.98E-03	4.46E-01
MED D	21		100		411	102

SAMPLE: 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:50
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	6.52E+08	23	9.47E+07	404	2.24E+03	ALT (KM)
4	1.63E+09	43	4.54E+07	647	1.59E+01	4.852
6	6.48E+08	62	1.36E+07	944	0.	
8	9.18E+08	82	1.14E+07	1241	0.	TEMP (C)
10	8.09E+08	102	4.65E+06	1538	0.	-28.1
12	6.38E+08	122	2.71E+06	1835	0.	
14	5.31E+08	142	9.14E+05	2132	0.	FROSTPOINT
16	3.99E+08	161	4.27E+05	2429	0.	-32.2
18	4.33E+08	181	2.38E+05	2726	0.	
20	2.95E+08	201	1.78E+05	3023	0.	TAS (M/S)
22	2.59E+08	221	9.77E+04	3320	0.	127.2
24	1.58E+08	241	1.45E+05	3617	0.	
26	1.37E+08	260	5.27E+04	3914	0.	NT (N/M3)
28	6.59E+08	280	2.71E+04	4211	0.	1701241.7
30	5.97E+08	300	1.82E+04	4508	0.	
						TOTALS
LWC	2.24E-01		4.15E-01		1.54E-02	4.21E-01
MED D	28		106		409	109

SAMPLE: 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	7.88E+08	23	9.78E+07	404	4.75E+03	ALT (KM)
4	2.28E+09	43	5.53E+07	647	3.17E+01	4.847
6	6.94E+08	62	2.57E+07	944	0.	
8	1.05E+10	82	1.83E+07	1241	0.	TEMP (C)
10	9.43E+09	102	6.04E+06	1538	0.	-28.2
12	7.51E+09	122	2.91E+06	1835	0.	
14	6.34E+09	142	1.30E+06	2132	0.	FROSTPOINT
16	4.55E+09	161	5.01E+05	2429	0.	-32.1
18	5.58E+09	181	2.70E+05	2726	0.	
20	3.63E+09	201	2.95E+05	3023	0.	TAS (M/S)
22	3.31E+09	221	1.95E+05	3320	0.	127.7
24	2.39E+09	241	1.85E+05	3617	0.	
26	1.86E+09	260	1.24E+05	3914	0.	NT (N/M3)
28	9.10E+08	280	5.85E+04	4211	0.	2144116.7
30	1.11E+09	300	4.27E+04	4508	0.	
						TOTALS
LWC	2.96E-01		5.27E-01		3.26E-02	5.60E-01
MED D	21		112		409	118

SAMPLE: 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	8.24E+08	23	9.12E+07	404	7.72E+03	ALT (KM)
4	2.27E+09	43	5.12E+07	647	0.	4.849
6	6.68E+08	62	2.34E+07	944	0.	
8	1.04E+10	82	1.65E+06	1241	0.	TEMP (C)
10	9.36E+09	102	5.05E+06	1538	0.	-28.1
12	8.35E+09	122	2.35E+06	1835	0.	
14	6.38E+09	142	1.18E+06	2132	0.	FROSTPOINT
16	4.88E+09	161	5.51E+05	2429	0.	-32.2
18	5.83E+09	181	3.24E+05	2726	0.	
20	3.71E+09	201	2.36E+05	3023	0.	TAS (M/S)
22	3.39E+09	221	1.	3320	0.	127.6
24	2.22E+09	241	3.60E+04	3617	0.	
26	2.81E+09	260	2.36E+04	3914	0.	NT (N/M3)
28	9.83E+08	280	1.54E+04	4211	0.	1876151.2
30	9.18E+08	300	1.38E+04	4508	0.	
						TOTALS
LWC	2.93E-01		4.03E-01		5.08E-02	4.54E-01
MED D	21		103		404	112

SAMPLE: 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 20 GPM DISTANCE: 100 FT CAL FACTOR: 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	3.55E+08	23	5.91E+07	404	2.45E+03	ALT (KM)
4	1.69E+09	43	4.47E+07	647	1.57E+01	4.854
6	5.33E+08	62	2.08E+07	944	0.	
8	6.86E+09	82	1.68E+07	1241	0.	TEMP (C)
10	5.73E+09	102	4.90E+06	1538	0.	-28.2
12	4.69E+09	122	2.22E+06	1835	0.	
14	3.59E+09	142	9.33E+05	2132	0.	FROSTPOINT
16	2.64E+09	161	5.21E+05	2429	0.	-32.8
18	2.83E+09	181	2.68E+05	2726	0.	
20	1.93E+09	201	1.75E+05	3023	0.	TAS (M/S)
22	1.85E+09	221	2.25E+05	3320	0.	128.8
24	1.26E+09	241	3.57E+04	3617	0.	
26	8.88E+08	260	3.34E+04	3914	0.	NT (N/M3)
28	4.83E+08	280	3.13E+04	4211	0.	1579437.3
30	4.69E+08	300	2.08E+04	4508	0.	
						TOTALS
LWC	1.56E-01		3.78E-01		1.67E-02	3.95E-01
MED D	21		107		408	110

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:54*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	2.33E+08	23	1.11E+08	404	4.59E+03	ALT (KM)
4	1.23E+09	43	5.73E+07	647	1.56E+01	4.857
6	4.11E+09	62	3.57E+07	964	0.	
8	4.35E+09	82	1.74E+07	1241	0.	TEMP (C)
10	3.51E+09	102	5.83E+06	1538	0.	-28.2
12	2.53E+09	122	2.57E+06	1835	0.	
14	1.99E+09	142	1.80E+06	2132	0.	FROSTPOINT
16	1.46E+09	161	9.36E+05	2429	0.	-32.0
18	1.36E+09	181	5.13E+05	2726	0.	
20	1.17E+09	201	3.29E+05	3023	0.	TAS (M/S)
22	8.64E+08	221	1.92E+05	3320	0.	129.4
24	5.23E+08	241	1.42E+05	3617	0.	
26	4.14E+08	260	1.07E+05	3914	0.	NT (N/M3)
28	1.84E+08	280	9.12E+04	4211	0.	2715671.3
30	1.56E+08	301	7.14E+04	4508	0.	
						TOTALS
LWC	7.78E-02		5.69E-01		3.09E-02	7.19E-01
MED D	20		108		407	111

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:55*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	7.02E+08	23	1.12E+08	484	5.62E+03	ALT (KM)
4	1.92E+09	43	5.74E+07	647	3.11E+01	4.856
6	6.12E+09	62	3.58E+07	964	0.	
8	9.70E+09	82	1.55E+07	1241	0.	TEMP (C)
10	8.91E+09	102	7.23E+06	1538	0.	-28.2
12	6.27E+09	122	4.03E+06	1835	0.	
14	5.87E+09	142	2.55E+06	2132	0.	FROSTPOINT
16	4.18E+09	161	9.56E+05	2429	0.	-31.8
18	4.80E+09	181	4.53E+05	2726	0.	
20	3.33E+09	201	1.44E+05	3023	0.	TAS (M/S)
22	3.22E+09	221	2.54E+05	3320	0.	130.3
24	1.32E+09	241	1.16E+05	3617	0.	
26	1.74E+09	260	9.14E+04	3914	0.	NT (N/M3)
28	7.09E+08	280	7.68E+04	4211	0.	2470233.4
30	7.51E+08	300	5.17E+04	4508	0.	
						TOTALS
LWC	2.57E-01		5.59E-01		3.83E-02	6.78E-01
MED D	21		114		405	119

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:56*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	6.99E+08	23	1.03E+08	484	7.22E+03	ALT (KM)
4	2.27E+09	43	5.63E+07	647	3.12E+01	4.856
6	6.67E+09	62	3.51E+07	964	1.64E+01	
8	8.35E+09	82	1.94E+07	1241	0.	TEMP (C)
10	7.59E+09	102	8.20E+06	1538	0.	-28.2
12	5.91E+09	122	4.37E+06	1835	0.	
14	4.76E+09	142	2.21E+06	2132	0.	FROSTPOINT
16	3.22E+09	161	1.08E+06	2429	0.	-31.9
18	3.79E+09	181	7.72E+05	2726	0.	
20	2.57E+09	201	3.77E+05	3023	0.	TAS (M/S)
22	2.62E+09	221	2.24E+05	3320	0.	129.6
24	1.71E+09	241	7.10E+04	3617	0.	
26	1.31E+09	260	9.02E+04	3914	0.	NT (N/M3)
28	6.14E+08	280	1.15E+05	4211	0.	3368387.9
30	6.43E+08	300	7.38E+04	4508	0.	
						TOTALS
LWC	2.12E-01		7.99E-01		5.09E-02	8.50E-01
MED D	21		109		411	115

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:57*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	7.32E+08	23	9.58E+07	484	9.94E+03	ALT (KM)
4	1.95E+09	43	5.53E+07	647	4.66E+01	4.853
6	5.52E+09	62	3.01E+07	964	0.	
8	8.12E+09	82	1.40E+07	1241	0.	TEMP (C)
10	8.39E+09	102	5.66E+06	1538	0.	-28.2
12	6.83E+09	122	3.91E+06	1835	0.	
14	5.94E+09	142	1.93E+06	2132	0.	FROSTPOINT
16	4.45E+09	161	9.17E+05	2429	0.	-31.8
18	5.14E+09	181	4.34E+05	2726	0.	
20	3.53E+09	201	3.75E+05	3023	0.	TAS (M/S)
22	3.58E+09	221	1.91E+05	3320	0.	130.4
24	2.41E+09	241	1.06E+05	3617	0.	
26	1.84E+09	260	1.17E+05	3914	0.	NT (N/M3)
28	1.08E+09	280	1.30E+05	4211	0.	2241454.8
30	9.82E+08	300	8.47E+04	4508	0.	
						TOTALS
LWC	2.91E-01		5.25E-01		6.07E-02	8.86E-01
MED D	21		120		408	128

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:58*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	4.79E+08	23	1.15E+08	404	3.68E+03	ALT (KM)
4	1.84E+09	43	6.43E+07	647	6.23E+01	4.856
6	6.79E+09	62	2.38E+07	944	0.	
8	9.84E+09	82	1.42E+07	1241	0.	TEMP (C)
10	7.38E+09	102	5.30E+06	1538	0.	-28.1
12	5.93E+09	122	2.39E+06	1835	0.	
14	4.89E+09	142	1.58E+06	2132	0.	FROSTPOINT
16	3.55E+09	161	5.16E+05	2429	0.	-31.7
18	3.94E+09	181	1.86E+05	2726	0.	
20	2.77E+09	201	3.47E+05	3023	0.	TAS (M/S)
22	2.53E+09	221	1.59E+05	3320	0.	130.0
24	1.76E+09	241	7.48E+04	3617	0.	
26	1.25E+09	260	4.49E+04	3914	0.	NT (N/M3)
28	5.28E+08	280	2.84E+04	4211	0.	2782892.0
30	5.34E+08	300	2.05E+04	4508	0.	
						TOTALS
LWC	2.41E-01		5.19E-01		2.63E-02	5.46E-01
MED D	21		101		415	104

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:19:59*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	6.78E+08	23	9.54E+07	404	5.85E+04	ALT (KM)
4	1.95E+09	43	6.64E+07	647	0.	4.854
6	6.44E+09	62	3.13E+07	944	0.	
8	9.51E+09	82	1.53E+07	1241	0.	TEMP (C)
10	8.38E+09	102	7.59E+06	1538	0.	-28.1
12	6.45E+09	122	4.22E+06	1835	0.	
14	5.66E+09	142	1.41E+06	2132	0.	FROSTPOINT
16	4.25E+09	161	8.14E+05	2429	0.	-31.6
18	4.72E+09	181	3.19E+05	2726	0.	
20	3.32E+09	201	3.19E+05	3023	0.	TAS (M/S)
22	3.37E+09	221	1.60E+05	3320	0.	129.6
24	2.11E+09	241	1.06E+05	3617	0.	
26	1.63E+09	260	1.21E+05	3914	0.	NT (N/M3)
28	7.98E+08	280	1.37E+05	4211	0.	2565721.9
30	9.74E+08	300	1.23E+05	4508	0.	
						TOTALS
LWC	2.69E-01		5.33E-01		4.58E-01	1.18E+00
MED D	21		112		404	234

SAMPLE# 18C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:20:03*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 20 GPM DISTANCE# 100 FT CAL FACTOR# 8.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	7.57E+08	23	9.28E+07	404	6.47E+03	ALT (KM)
4	2.15E+09	43	5.94E+07	647	3.11E+01	4.853
6	6.34E+09	62	2.81E+07	944	0.	
8	9.52E+09	82	1.39E+07	1241	0.	TEMP (C)
10	8.48E+09	102	7.76E+06	1538	0.	-28.2
12	7.49E+09	122	4.09E+06	1835	0.	
14	5.79E+09	142	1.52E+06	2132	0.	FROSTPOINT
16	4.31E+09	161	8.35E+05	2429	0.	-31.5
18	4.74E+09	181	3.84E+05	2726	0.	
20	3.31E+09	201	3.76E+05	3023	0.	TAS (M/S)
22	3.31E+09	221	3.18E+05	3320	0.	130.8
24	2.27E+09	241	1.42E+05	3617	0.	
26	1.73E+09	260	1.17E+05	3914	0.	NT (N/M3)
28	7.60E+08	280	3.77E+04	4211	0.	2317766.8
30	8.97E+08	300	5.31E+04	4508	0.	
						TOTALS
LWC	2.69E-01		5.44E-01		4.38E-02	8.98E-01
MED D	21		118		407	124

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	9.91E+08	23	6.65E+07	404	1.62E+04	ALT (KM)
4	2.78E+09	43	6.31E+07	647	0.	4.863
6	7.86E+09	62	2.98E+07	944	0.	
8	1.17E+10	82	1.31E+07	1241	0.	TEMP (C)
10	1.22E+10	102	7.25E+06	1538	0.	-16.8
12	9.49E+09	122	3.24E+06	1835	0.	
14	6.34E+09	142	1.57E+06	2132	0.	FROSTPOINT
16	6.54E+09	161	8.36E+05	2429	0.	-18.5
18	7.78E+09	181	6.21E+05	2726	0.	
20	4.73E+09	201	1.71E+05	3023	0.	TAS (M/S)
22	4.37E+09	221	1.25E+05	3320	0.	132.0
24	2.85E+09	241	3.48E+04	3617	0.	
26	2.27E+09	260	3.36E+04	3914	0.	NT (N/M3)
28	9.53E+08	280	3.24E+04	4211	0.	2383379.2
30	1.53E+09	300	2.38E+04	4508	0.	
						TOTALS
LWC	3.76E-01		5.36E-01		1.06E-01	6.42E-01
MED D	21		106		494	121

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.02E+09	23	9.17E+07	404	3.89E+03	ALT (KM)
4	3.26E+09	43	5.59E+07	647	3.37E+01	4.867
6	8.95E+09	62	3.81E+07	944	0.	
8	1.25E+10	82	1.16E+07	1241	0.	TEMP (C)
10	1.14E+10	102	5.89E+06	1538	0.	-17.1
12	8.96E+09	122	2.72E+06	1835	0.	
14	7.59E+09	142	1.26E+06	2132	0.	FROSTPOINT
16	5.68E+09	161	6.36E+05	2429	0.	-18.3
18	6.11E+09	181	2.89E+05	2726	0.	
20	3.83E+09	201	1.71E+05	3023	0.	TAS (M/S)
22	3.13E+09	221	1.37E+05	3320	0.	131.9
24	1.93E+09	241	6.37E+04	3617	0.	
26	1.51E+09	260	5.63E+04	3914	0.	NT (N/M3)
28	7.28E+08	280	4.55E+04	4211	0.	2156238.9
30	1.03E+09	300	3.17E+04	4508	0.	
						TOTALS
LWC	2.94E-01		4.72E-01		2.69E-02	4.99E-01
MED D	20		101		409	105

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	1.22E+09	23	7.36E+07	404	5.51E+03	ALT (KM)
4	3.30E+09	43	4.96E+07	647	4.61E+01	4.863
6	7.47E+09	62	1.92E+07	944	0.	
8	1.25E+10	82	1.12E+07	1241	0.	TEMP (C)
10	1.19E+10	102	4.94E+06	1538	0.	-16.9
12	9.46E+09	122	2.24E+06	1835	0.	
14	7.92E+09	142	1.23E+06	2132	0.	FROSTPOINT
16	5.87E+09	161	6.80E+05	2429	0.	-18.4
18	6.99E+09	181	5.23E+05	2726	0.	
20	4.55E+09	201	1.63E+05	3023	0.	TAS (M/S)
22	4.25E+09	221	1.37E+05	3320	0.	131.9
24	2.25E+09	241	1.48E+05	3617	0.	
26	1.97E+09	260	9.37E+04	3914	0.	NT (N/M3)
28	1.03E+09	280	6.29E+04	4211	0.	1585065.7
30	1.29E+09	300	4.27E+04	4508	0.	
						TOTALS
LWC	3.49E-01		4.41E-01		3.62E-02	4.79E-01
MED D	21		119		418	127

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.29E+09	23	6.94E+07	404	3.22E+03	ALT (KM)
4	3.37E+09	43	5.59E+07	647	4.59E+01	4.866
6	8.68E+09	62	2.33E+07	944	0.	
8	1.25E+10	82	1.18E+07	1241	0.	TEMP (C)
10	1.19E+10	102	5.78E+06	1538	0.	-17.4
12	8.85E+09	122	2.75E+06	1835	0.	
14	7.47E+09	142	1.29E+06	2132	0.	FROSTPOINT
16	5.54E+09	161	5.26E+05	2429	0.	-18.2
18	6.83E+09	181	3.39E+05	2726	0.	
20	4.05E+09	201	1.71E+05	3023	0.	TAS (M/S)
22	3.71E+09	221	1.25E+05	3320	0.	132.2
24	2.62E+09	241	0.	3617	0.	
26	1.88E+09	260	1.40E+04	3914	0.	NT (N/M3)
28	9.34E+08	280	2.80E+04	4211	0.	2027421.1
30	1.31E+09	300	1.90E+04	4508	0.	
						TOTALS
LWC	3.32E-01		4.38E-01		2.31E-02	4.53E-01
MED D	21		102		413	106

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.44E+09	23	5.32E+07	484	6.43E+03	ALT (KM)
4	3.66E+09	43	4.17E+07	647	3.06E+01	4.867
6	9.82E+09	62	2.37E+07	964	0.	
8	1.32E+10	82	9.59E+06	1241	0.	TEMP (C)
10	1.25E+10	102	4.82E+06	1538	0.	-17.6
12	9.57E+09	122	2.12E+06	1835	0.	
14	8.92E+09	142	9.37E+05	2132	0.	FROSTPOINT
16	6.37E+09	161	5.79E+05	2429	0.	-19.2
18	6.84E+09	181	5.21E+05	2726	0.	
20	4.67E+09	201	1.62E+05	3023	0.	TAS (M/S)
22	4.05E+09	221	1.25E+05	3320	0.	132.5
24	2.76E+09	241	3.47E+04	3617	0.	
26	2.29E+09	260	5.51E+04	3914	0.	NT (N/M3)
28	3.32E+08	288	9.77E+04	4211	0.	1619821.5
30	1.62E+09	330	4.31E+04	4508	0.	
						TOTALS
LWC	3.69E-01		4.15E-01		4.36E-02	4.59E-01
MED D	21		112		467	123

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.22E+09	23	6.34E+07	484	3.26E+03	ALT (KM)
4	3.33E+09	43	5.29E+07	647	1.22E+02	4.868
6	8.45E+09	62	2.63E+07	964	0.	
8	1.83E+10	82	1.23E+07	1241	0.	TEMP (C)
10	1.38E+10	102	6.43E+06	1538	0.	-17.7
12	1.07E+10	122	2.49E+06	1835	0.	
14	9.14E+09	142	1.54E+06	2132	0.	FROSTPOINT
16	6.2eE+09	161	6.52E+05	2429	0.	-18.8
18	7.43E+09	181	3.91E+05	2726	0.	
20	5.81E+09	201	2.29E+05	3023	0.	TAS (M/S)
22	4.27E+09	221	1.25E+05	3320	0.	132.3
24	2.72E+09	241	3.46E+04	3617	0.	
26	2.11E+09	260	2.46E+04	3914	0.	NT (N/M3)
28	1.02E+09	288	1.74E+04	4211	0.	2818189.5
30	1.53E+09	330	1.53E+04	4508	0.	
						TOTALS
LWC	3.81E-01		4.63E-01		2.66E-02	4.09E-01
MED D	21		103		427	107

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.25E+09	23	4.72E+07	484	2.81E+03	ALT (KM)
4	3.54E+09	43	4.21E+07	647	1.53E+01	4.866
6	7.65E+09	62	1.86E+07	964	0.	
8	1.31E+10	82	1.04E+07	1241	0.	TEMP (C)
10	1.37E+10	102	4.32E+06	1538	0.	-17.7
12	1.15E+10	122	2.34E+06	1835	0.	
14	1.09E+10	142	1.11E+06	2132	0.	FROSTPOINT
16	7.73E+09	161	3.14E+05	2429	0.	-19.1
18	8.42E+09	181	3.99E+05	2726	0.	
20	5.36E+09	201	1.13E+05	3023	0.	TAS (M/S)
22	5.16E+09	221	1.25E+05	3320	0.	132.4
24	3.61E+09	241	3.47E+04	3617	0.	
26	2.72E+09	260	3.58E+04	3914	0.	NT (N/M3)
28	1.29E+09	288	3.91E+04	4211	0.	1557689.7
30	2.02E+09	330	2.57E+04	4508	0.	
						TOTALS
LWC	4.99E-01		3.94E-01		1.91E-02	4.84E-01
MED D	21		103		408	111

SAMPLE: 19A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.17E+09	23	5.21E+07	484	4.97E+03	ALT (KM)
4	3.67E+09	43	3.38E+07	647	4.58E+01	4.870
6	8.69E+09	62	1.69E+07	964	0.	
8	1.38E+10	82	7.23E+06	1241	0.	TEMP (C)
10	1.34E+10	102	3.36E+06	1538	0.	-17.8
12	1.09E+10	122	1.93E+06	1835	0.	
14	9.35E+09	142	7.58E+05	2132	0.	FROSTPOINT
16	6.61E+09	161	3.37E+05	2429	0.	-17.8
18	7.24E+09	181	3.54E+05	2726	0.	
20	4.68E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	4.18E+09	221	2.19E+05	3320	0.	132.6
24	2.88E+09	241	3.47E+04	3617	0.	
26	2.29E+09	260	4.83E+04	3914	0.	NT (N/M3)
28	1.18E+09	288	5.39E+04	4211	0.	1239738.6
30	1.64E+09	330	3.59E+04	4508	0.	
						TOTALS
LWC	3.89E-01		3.27E-01		3.46E-02	3.61E-01
MED D	21		118		418	127

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	9.55E+08	23	5.73E+07	404	6.23E+33	ALT (KM)
4	3.22E+09	43	5.95E+07	647	4.59E+31	4.875
6	9.22E+09	62	2.57E+07	944	0.	
8	1.16E+10	82	1.21E+07	1241	0.	TEMP (C)
10	9.75E+09	102	5.12E+06	1538	0.	-17.8
12	7.23E+09	122	2.97E+06	1835	0.	
14	6.45E+09	142	1.32E+06	2132	0.	FROSTPOINT
16	4.43E+09	161	6.76E+05	2429	0.	-17.4
18	4.75E+09	181	3.65E+05	2726	0.	
20	3.15E+09	201	8.54E+04	3023	0.	TAS (M/S)
22	2.74E+09	221	9.39E+04	3320	0.	132.3
24	1.55E+09	241	1.04E+05	3617	0.	
26	1.32E+09	260	3.89E+04	3914	0.	NT (N/M3)
28	4.77E+08	280	7.56E+04	4211	0.	2160348.8
30	8.16E+08	300	5.19E+04	4508	0.	
						TOTALS
LWC	2.43E-01		4.82E-01		4.23E-02	5.24E-01
MED D	23		107		409	115

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	1.43E+09	23	8.54E+07	404	1.32E+34	ALT (KM)
4	3.77E+09	43	7.13E+07	647	7.65E+31	4.875
6	9.31E+09	62	2.34E+07	944	0.	
8	1.39E+10	82	1.49E+07	1241	0.	TEMP (C)
10	1.26E+10	102	5.84E+06	1538	0.	-17.9
12	9.91E+09	122	3.57E+06	1835	0.	
14	8.67E+09	142	1.39E+06	2132	0.	FROSTPOINT
16	5.90E+09	161	7.37E+05	2429	0.	-17.3
18	7.06E+09	181	5.48E+05	2726	0.	
20	4.26E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	3.95E+09	221	1.25E+05	3320	0.	132.3
24	2.23E+09	241	1.39E+05	3617	0.	
26	2.08E+09	260	1.31E+05	3914	0.	NT (N/M3)
28	9.27E+08	280	1.24E+05	4211	0.	2>22048.8
30	1.37E+09	300	8.38E+04	4508	0.	
						TOTALS
LWC	3.52E-01		6.21E-01		7.33E-02	6.91E-01
MED D	21		116		409	126

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:26
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	1.28E+09	23	6.54E+07	404	1.96E+34	ALT (KM)
4	3.25E+09	43	5.98E+07	647	0.	4.875
6	8.86E+09	62	2.74E+07	944	0.	
8	1.21E+10	82	1.39E+07	1241	0.	TEMP (C)
10	1.07E+10	102	5.53E+06	1538	0.	-17.8
12	7.53E+09	122	2.72E+06	1835	0.	
14	7.86E+09	142	1.26E+06	2132	0.	FROSTPOINT
16	4.43E+09	161	9.70E+05	2429	0.	-17.3
18	4.96E+09	181	4.44E+05	2726	0.	
20	3.48E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	2.92E+09	221	6.26E+04	3320	0.	132.2
24	1.97E+09	241	1.04E+05	3617	0.	
26	1.48E+09	260	6.39E+04	3914	0.	NT (N/M3)
28	6.51E+08	280	3.91E+04	4211	0.	2157916.6
30	1.05E+09	300	3.51E+04	4508	0.	
						TOTALS
LWC	2.72E-01		4.32E-01		1.29E-01	6.11E-01
MED D	20		107		404	131

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.77E+09	23	9.65E+07	404	4.46E+33	ALT (KM)
4	3.61E+09	43	6.58E+07	647	3.97E+31	4.874
6	8.91E+09	62	3.42E+07	944	0.	
8	1.34E+10	82	1.51E+07	1241	0.	TEMP (C)
10	1.34E+10	102	7.20E+06	1538	0.	-17.9
12	1.07E+10	122	3.13E+06	1835	0.	
14	9.67E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	7.11E+09	161	6.53E+05	2429	0.	-17.2
18	7.68E+09	181	4.44E+05	2726	0.	
20	4.81E+09	201	2.57E+05	3023	0.	TAS (M/S)
22	4.68E+09	221	2.26E+05	3320	0.	132.0
24	2.85E+09	241	1.15E+05	3617	0.	
26	2.58E+09	260	7.65E+04	3914	0.	NT (N/M3)
28	1.18E+09	280	5.50E+04	4211	0.	2515418.7
30	1.79E+09	300	3.74E+04	4508	0.	
						TOTALS
LWC	4.11E-01		5.76E-01		3.86E-02	6.86E-01
MED D	21		106		409	109

SAMPLE# 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:18:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.31E+09	23	6.67E+07	484	3.91E+03	ALT (KM)
4	3.39E+09	43	5.73E+07	647	5.14E+01	4.874
6	8.58E+09	62	2.58E+07	944	0.	
8	1.31E+10	82	1.19E+07	1241	0.	TEMP (C)
10	1.24E+10	102	5.35E+06	1538	0.	-17.9
12	1.02E+10	122	3.02E+06	1835	0.	
14	8.69E+09	142	1.53E+06	2132	0.	FROSTPOINT
16	6.45E+09	161	4.35E+05	2429	0.	-17.2
18	6.62E+09	181	3.66E+05	2726	0.	
20	4.37E+09	201	1.14E+05	3023	0.	TAS (M/S)
22	7.83E+09	221	9.42E+04	3320	0.	131.8
24	2.40E+09	241	3.49E+04	3617	0.	
26	2.02E+09	260	3.36E+04	3914	0.	NT (N/M3)
28	1.08E+09	280	3.24E+04	4211	0.	2169692.8
30	1.53E+09	300	2.31E+04	4508	0.	
						TOTALS
LWC	3.59E-01		4.50E-01		2.83E-02	4.88E-01
MED D	21		100		414	104

SAMPLE# 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:18:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.32E+09	23	7.35E+07	484	3.78E+03	ALT (KM)
4	3.66E+09	43	5.28E+07	647	3.87E+01	4.874
6	8.96E+09	62	2.46E+07	944	0.	
8	1.35E+10	82	1.19E+07	1241	0.	TEMP (C)
10	1.22E+10	102	5.44E+06	1538	0.	-17.9
12	1.03E+10	122	2.31E+06	1835	0.	
14	9.03E+09	142	1.12E+06	2132	0.	FROSTPOINT
16	6.22E+09	161	7.39E+05	2429	0.	-17.1
18	6.85E+09	181	3.14E+05	2726	0.	
20	4.45E+09	201	2.83E+05	3023	0.	TAS (M/S)
22	4.17E+09	221	1.88E+05	3320	0.	131.9
24	2.71E+09	241	6.97E+04	3617	0.	
26	2.16E+09	260	5.51E+04	3914	0.	NT (N/M3)
28	8.46E+08	280	4.36E+04	4211	0.	1957878.5
30	1.53E+09	300	2.95E+04	4508	0.	
						TOTALS
LWC	3.67E-01		4.52E-01		2.62E-02	4.78E-01
MED D	21		105		409	111

SAMPLE# 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:18:30*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.12E+09	23	5.54E+07	484	1.71E+03	ALT (KM)
4	3.45E+09	43	5.31E+07	647	3.97E+01	4.874
6	9.02E+09	62	2.33E+07	944	0.	
8	1.21E+10	82	1.09E+07	1241	0.	TEMP (C)
10	1.09E+10	102	5.39E+06	1538	0.	-17.9
12	8.23E+09	122	2.15E+06	1835	0.	
14	6.96E+09	142	1.53E+06	2132	0.	FROSTPOINT
16	4.99E+09	161	5.37E+05	2429	0.	-17.1
18	5.13E+09	181	1.93E+05	2726	0.	
20	3.61E+09	201	8.36E+04	3023	0.	TAS (M/S)
22	3.88E+09	221	1.26E+05	3320	0.	131.9
24	1.91E+09	241	3.49E+04	3617	0.	
26	1.42E+09	260	2.14E+04	3914	0.	NT (N/M3)
28	6.52E+08	280	1.31E+04	4211	0.	1809737.8
30	1.06E+09	300	9.45E+03	4508	0.	
						TOTALS
LWC	2.75E-01		3.35E-01		1.25E-02	3.97E-01
MED D	20		101		415	103

SAMPLE# 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:18:32*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 23 GPM DISTANCE# 100 FT CAL FACTOR# 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.23E+09	23	7.65E+07	484	3.67E+03	ALT (KM)
4	3.78E+09	43	5.38E+07	647	1.53E+01	4.874
6	9.08E+09	62	2.34E+07	944	0.	
8	1.35E+10	82	1.17E+07	1241	0.	TEMP (C)
10	1.34E+10	102	5.79E+06	1538	0.	-17.9
12	1.07E+10	122	2.72E+06	1835	0.	
14	9.52E+09	142	1.53E+06	2132	0.	FROSTPOINT
16	6.30E+09	161	5.82E+05	2429	0.	-17.8
18	6.93E+09	181	3.13E+05	2726	0.	
20	4.77E+09	201	1.71E+05	3023	0.	TAS (M/S)
22	4.15E+09	221	6.27E+04	3320	0.	132.1
24	2.63E+09	241	3.48E+04	3617	0.	
26	1.99E+09	260	4.51E+04	3914	0.	NT (N/M3)
28	1.11E+09	280	5.85E+04	4211	0.	2183334.5
30	1.58E+09	300	3.76E+04	4508	0.	
						TOTALS
LWC	3.75E-01		4.54E-01		2.48E-02	4.89E-01
MED D	21		102		407	106

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	1.47E+03	23	8.35E+07	404	2.46E+03	ALT (KM)
4	3.57E+09	43	5.11E+07	647	3.06E+01	4.871
6	9.39E+09	62	2.48E+07	944	0.	
8	1.41E+10	82	1.80E+07	1241	0.	TEMP (C)
10	1.32E+10	102	6.29E+06	1538	0.	-17.9
12	1.41E+10	122	2.76E+06	1835	0.	
14	8.83E+09	142	1.11E+06	2132	0.	FROSTPOINT
16	6.23E+09	161	5.36E+05	2429	0.	-17.0
18	6.66E+09	181	4.18E+05	2726	0.	
20	4.38E+09	201	1.42E+05	3023	0.	TAS (M/S)
22	3.75E+09	221	1.88E+05	3320	0.	132.1
24	2.43E+09	241	0.	3617	0.	
26	1.84E+09	260	3.74E+04	3914	0.	NT (N/M3)
28	9.14E+08	280	1.74E+04	4211	0.	1989425.3
30	1.32E+09	301	1.24E+04	4508	0.	
						TOTALS
LWC	3.48E-01		4.44E-01		1.48E-32	4.59E-01
MED D	20		130		414	182

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	8.03E+08	23	7.34E+07	404	4.18E+03	ALT (KM)
4	2.47E+09	43	5.37E+07	647	1.53E+01	4.873
6	7.94E+09	62	2.52E+07	944	0.	
8	6.78E+09	82	1.35E+07	1241	0.	TEMP (C)
10	7.27E+09	102	6.59E+06	1538	0.	-17.7
12	5.39E+09	122	3.17E+06	1835	0.	
14	4.61E+09	142	1.58E+06	2132	0.	FROSTPOINT
16	3.33E+09	161	8.34E+05	2429	0.	-16.9
18	3.54E+09	181	2.35E+05	2726	0.	
20	2.37E+09	201	2.56E+05	3023	0.	TAS (M/S)
22	1.88E+09	221	1.25E+05	3320	0.	132.2
24	1.11E+09	241	7.48E+04	3617	0.	
26	8.72E+08	260	4.90E+04	3914	0.	NT (N/M3)
28	3.81E+08	280	6.30E+04	4211	0.	2115239.2
30	6.37E+08	301	4.40E+04	4508	0.	
						TOTALS
LWC	1.76E-01		5.20E-01		2.76E-32	5.47E-01
MED D	20		187		407	118

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 11 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	9.57E+08	23	6.65E+07	404	4.13E+03	ALT (KM)
4	2.88E+09	43	4.72E+07	647	3.07E+01	4.873
6	7.97E+09	62	2.21E+07	944	0.	
8	1.07E+10	82	1.13E+07	1241	0.	TEMP (C)
10	9.86E+09	102	4.73E+06	1538	0.	-17.9
12	6.61E+09	122	2.57E+06	1835	0.	
14	5.81E+09	142	1.23E+06	2132	0.	FROSTPOINT
16	4.16E+09	161	6.35E+05	2429	0.	-16.9
18	4.28E+09	181	4.18E+05	2726	0.	
20	2.89E+09	201	1.43E+05	3023	0.	TAS (M/S)
22	2.55E+09	221	9.41E+04	3320	0.	131.9
24	1.44E+09	241	6.37E+04	3617	0.	
26	1.67E+09	260	5.89E+04	3914	0.	NT (N/M3)
28	5.69E+08	280	4.38E+04	4211	0.	1794462.8
30	8.16E+08	301	3.35E+04	4508	0.	
						TOTALS
LWC	2.24E-01		4.28E-01		2.85E-32	4.56E-01
MED D	20		188		409	113

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	1.47E+09	23	6.14E+07	404	1.88E+04	ALT (KM)
4	3.47E+09	43	7.17E+07	647	1.38E+02	4.873
6	9.00E+09	62	3.00E+07	944	0.	
8	1.35E+10	82	1.45E+07	1241	0.	TEMP (C)
10	1.27E+10	102	6.78E+06	1538	0.	-17.8
12	1.00E+10	122	3.43E+06	1835	0.	
14	8.76E+09	142	1.51E+06	2132	0.	FROSTPOINT
16	5.39E+09	161	7.49E+05	2429	0.	-16.8
18	6.59E+09	181	5.48E+05	2726	0.	
20	4.12E+09	201	2.56E+05	3023	0.	TAS (M/S)
22	3.72E+09	221	1.57E+05	3320	0.	132.2
24	2.68E+09	241	1.39E+05	3617	0.	
26	2.15E+09	260	1.18E+05	3914	0.	NT (N/M3)
28	9.55E+08	280	9.34E+04	4211	0.	2579234.9
30	1.49E+09	300	6.87E+04	4508	0.	
						TOTALS
LWC	3.57E-01		6.14E-01		7.65E-32	6.98E-01
MED D	21		111		412	123

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	1.32E+09	23	1.08E+08	404	5.61E+03	ALT (KM)
4	3.81E+09	43	7.20E+07	647	6.13E+01	4.871
6	8.47E+09	62	3.60E+07	944	0.	
8	1.29E+10	82	1.74E+07	1241	0.	TEMP (C)
10	1.23E+10	102	9.65E+06	1538	0.	-17.8
12	9.66E+09	122	4.16E+06	1835	0.	
14	8.72E+09	142	1.79E+06	2132	0.	FROSTPOINT
16	6.27E+09	161	1.02E+06	2429	0.	-16.7
18	6.71E+09	181	7.15E+05	2726	0.	
20	4.53E+09	201	3.13E+05	3023	0.	TAS (M/S)
22	4.65E+09	221	1.98E+05	3320	0.	132.2
24	2.57E+09	241	3.48E+04	3617	0.	
26	2.39E+09	260	4.41E+04	3914	0.	NT (N/M3)
28	1.41E+09	281	5.59E+04	4211	0.	2*20258.1
30	1.37E+09	300	3.98E+04	4508	0.	
						TOTALS
LWC	3.68E-01		6.59E-01		3.95E-02	7.09E-01
MED D	21		105		411	109

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.41E+09	23	6.64E+07	404	7.76E+04	ALT (KM)
4	2.99E+09	43	3.20E+07	647	0.	4.868
6	8.41E+09	62	2.14E+07	944	0.	
8	1.81E+10	82	1.34E+07	1241	0.	TEMP (C)
10	7.92E+09	102	4.38E+06	1538	0.	-17.8
12	5.93E+09	122	2.46E+06	1835	0.	
14	4.93E+09	142	1.14E+06	2132	0.	FROSTPOINT
16	3.51E+09	161	4.11E+05	2429	0.	-16.6
18	3.71E+09	181	1.57E+05	2726	0.	
20	2.52E+09	201	1.42E+05	3023	0.	TAS (M/S)
22	2.13E+09	221	6.27E+04	3320	0.	132.1
24	1.14E+09	241	5.96E+04	3617	0.	
26	9.63E+08	260	5.34E+04	3914	0.	NT (N/M3)
28	3.83E+08	280	6.71E+04	4211	0.	1451157.6
30	5.75E+08	300	6.71E+04	4508	0.	
						TOTALS
LWC	1.86E-01		3.96E-01		2.21E-11	6.87E-01
MED D	20		108		404	174

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.26E+09	23	9.24E+07	404	5.54E+03	ALT (KM)
4	3.53E+09	43	7.19E+07	647	3.06E+01	4.870
6	9.41E+09	62	3.29E+07	944	0.	
8	1.42E+10	82	1.56E+07	1241	0.	TEMP (C)
10	1.23E+10	102	8.64E+06	1538	0.	-17.8
12	9.79E+09	122	3.55E+06	1835	0.	
14	8.36E+09	142	1.30E+06	2132	0.	FROSTPOINT
16	5.71E+09	161	1.31E+06	2429	0.	-16.7
18	6.12E+09	181	4.69E+05	2726	0.	
20	4.89E+09	201	2.56E+05	3023	0.	TAS (M/S)
22	3.48E+09	221	1.36E+05	3320	0.	132.3
24	2.25E+09	241	0.	3617	0.	
26	1.81E+09	260	3.99E+04	3914	0.	NT (N/M3)
28	9.61E+08	280	7.76E+04	4211	0.	2*86708.1
30	1.28E+09	300	5.18E+04	4508	0.	
						TOTALS
LWC	3.28E-01		6.31E-01		3.77E-12	6.68E-01
MED D	20		105		408	109

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	5.68E+08	23	7.95E+07	404	4.18E+03	ALT (KM)
4	2.17E+09	43	5.21E+07	647	1.53E+01	4.871
6	6.13E+09	62	2.59E+07	944	0.	
8	6.75E+09	82	1.24E+07	1241	0.	TEMP (C)
10	5.81E+09	102	6.39E+06	1538	0.	-17.7
12	3.69E+09	122	2.12E+06	1835	0.	
14	3.14E+09	142	1.55E+06	2132	0.	FROSTPOINT
16	2.06E+09	161	5.32E+05	2429	0.	-16.6
18	2.54E+09	181	6.70E+05	2726	0.	
20	1.58E+09	201	5.78E+04	3023	0.	TAS (M/S)
22	1.25E+09	221	1.57E+05	3320	0.	132.1
24	9.42E+08	241	1.74E+05	3617	0.	
26	5.12E+08	260	1.10E+05	3914	0.	NT (N/M3)
28	2.63E+08	280	6.30E+04	4211	0.	2837738.6
30	3.53E+08	300	4.44E+04	4508	0.	
						TOTALS
LWC	1.19E-01		5.18E-01		2.76E-02	5.37E-01
MED D	20		109		407	113

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21118141*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	1.13E+09	23	9.14E+07	404	1.06E+04	ALT (KM)
4	3.67E+09	43	7.51E+07	647	7.65E+01	4.873
6	9.01E+09	62	3.92E+07	944	0.	
8	1.21E+10	82	1.37E+07	1241	0.	TEMP (C)
10	1.03E+10	102	9.34E+06	1538	0.	-17.7
12	7.65E+09	122	4.61E+06	1835	0.	
14	6.47E+09	142	2.11E+06	2132	0.	FROSTPOINT
16	4.69E+09	161	7.37E+05	2429	0.	-16.5
18	4.92E+09	181	4.59E+05	2726	0.	
20	3.66E+09	201	2.85E+05	3023	0.	TAS (M/S)
22	2.87E+09	221	1.58E+05	3320	0.	132.3
24	1.77E+09	241	8.85E+04	3617	0.	
26	1.35E+09	260	9.70E+04	3914	0.	NT (N/M3)
28	6.29E+08	280	1.35E+05	4211	0.	2969586.1
30	9.75E+08	300	9.15E+04	4508	0.	
						TOTALS
LWC	2.53E-01		7.21E-01		7.45E-02	7.96E-01
MED D	20		109		409	117

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21118142*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	1.22E+09	23	8.24E+07	404	5.00E+03	ALT (KM)
4	3.64E+09	43	6.38E+07	647	1.53E+01	4.871
6	9.18E+09	62	3.54E+07	944	0.	
8	1.48E+10	82	1.55E+07	1241	0.	TEMP (C)
10	1.19E+10	102	8.14E+06	1538	0.	-17.6
12	8.46E+09	122	3.89E+06	1835	0.	
14	7.87E+09	142	2.34E+06	2132	0.	FROSTPOINT
16	5.71E+09	161	1.26E+05	2429	0.	-16.5
18	6.26E+09	181	5.22E+05	2726	0.	
20	3.91E+09	201	2.35E+05	3023	0.	TAS (M/S)
22	3.80E+09	221	3.44E+05	3320	0.	132.2
24	2.19E+09	241	1.14E+05	3617	0.	
26	1.78E+09	260	9.36E+04	3914	0.	NT (N/M3)
28	8.44E+08	280	9.32E+04	4211	0.	2768394.8
30	1.33E+09	300	5.34E+04	4508	0.	
						TOTALS
LWC	3.25E-01		7.10E-01		3.35E-02	7.44E-01
MED D	21		114		406	119

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21118143*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.25E+09	23	1.20E+08	404	7.89E+03	ALT (KM)
4	3.62E+09	43	7.51E+07	647	4.59E+01	4.870
6	8.86E+09	62	3.91E+07	944	0.	
8	1.30E+10	82	1.57E+07	1241	0.	TEMP (C)
10	1.12E+10	102	9.25E+06	1538	0.	-17.6
12	9.12E+09	122	5.16E+06	1835	0.	
14	7.91E+09	142	2.11E+06	2132	0.	FROSTPOINT
16	5.47E+09	161	9.42E+05	2429	0.	-16.4
18	6.21E+09	181	5.22E+05	2726	0.	
20	3.92E+09	201	3.98E+05	3023	0.	TAS (M/S)
22	3.25E+09	221	2.19E+05	3320	0.	132.3
24	2.14E+09	241	1.14E+05	3617	0.	
26	1.77E+09	260	1.06E+05	3914	0.	NT (N/M3)
28	8.44E+08	280	1.38E+05	4211	0.	2986622.4
30	1.22E+09	300	7.12E+04	4508	0.	
						TOTALS
LWC	3.14E-01		7.65E-01		5.37E-02	8.19E-01
MED D	20		110		406	115

SAMPLE: 199 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21118144*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.19E+09	23	9.59E+07	404	6.64E+04	ALT (KM)
4	3.60E+09	43	6.54E+07	647	0.	4.864
6	9.03E+09	62	3.40E+07	944	0.	
8	1.31E+10	82	1.38E+07	1241	0.	TEMP (C)
10	1.19E+10	102	8.43E+06	1538	0.	-17.6
12	8.62E+09	122	5.12E+06	1835	0.	
14	7.11E+09	142	2.89E+06	2132	0.	FROSTPOINT
16	5.37E+09	161	6.37E+05	2429	0.	-16.4
18	5.97E+09	181	3.14E+05	2726	0.	
20	3.86E+09	201	3.43E+05	3023	0.	TAS (M/S)
22	3.44E+09	221	3.46E+05	3320	0.	131.7
24	1.90E+09	241	3.49E+04	3617	0.	
26	1.79E+09	260	6.91E+04	3914	0.	NT (N/M3)
28	8.06E+08	280	1.33E+05	4211	0.	2622883.8
30	1.11E+09	300	1.19E+05	4508	0.	
						TOTALS
LWC	3.04E-01		6.88E-01		4.37E-01	1.12E+00
MED D	20		114		404	208

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.89E+09	23	9.11E+07	404	6.27E+03	ALT (KM)
4	3.67E+09	43	5.99E+07	647	4.67E+01	4.864
6	8.73E+09	62	3.17E+07	944	0.	
8	1.23E+10	82	1.35E+07	1241	0.	TEMP (C)
10	1.06E+10	102	7.19E+06	1538	0.	-17.6
12	8.13E+09	122	3.52E+06	1835	0.	
14	6.98E+09	142	1.65E+06	2132	0.	FROSTPOINT
16	5.22E+09	161	6.76E+05	2429	0.	-16.3
18	5.83E+09	181	4.39E+05	2726	0.	
20	3.63E+09	201	2.38E+05	3023	0.	TAS (M/S)
22	3.19E+09	221	6.71E+04	3320	0.	131.3
24	1.96E+09	241	1.75E+05	3617	0.	
26	1.56E+09	261	1.16E+05	3914	0.	NT (N/M3)
28	6.69E+08	281	7.53E+04	4211	0.	2344852.7
30	1.02E+09	300	5.12E+04	4508	0.	
						TOTALS
LWC	2.85E-01		5.91E-01		4.32E-02	6.36E-01
MED D	20		110		409	116

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.28E+09	23	9.44E+07	404	3.67E+03	ALT (KM)
4	3.41E+09	43	5.80E+07	647	3.09E+01	4.864
6	9.43E+09	62	3.45E+07	944	0.	
8	1.38E+10	82	1.39E+07	1241	0.	TEMP (C)
10	1.25E+10	102	6.43E+06	1538	0.	-17.6
12	1.03E+10	122	4.33E+06	1835	0.	
14	8.99E+09	142	2.14E+06	2132	0.	FROSTPOINT
16	6.15E+09	161	1.00E+06	2429	0.	-16.2
18	6.64E+09	181	7.18E+05	2726	0.	
20	4.22E+09	201	2.34E+05	3023	0.	TAS (M/S)
22	3.61E+09	221	3.48E+05	3320	0.	130.9
24	2.40E+09	241	0.	3617	0.	
26	1.88E+09	260	2.07E+04	3914	0.	NT (N/M3)
28	1.03E+09	280	4.14E+04	4211	0.	2499802.8
30	1.33E+09	300	2.51E+04	4508	0.	
						TOTALS
LWC	3.47E-01		6.35E-01		2.54E-02	6.84E-01
MED D	21		109		419	112

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.75E+09	23	9.31E+07	404	3.82E+04	ALT (KM)
4	3.66E+09	43	5.93E+07	647	0.	4.864
6	8.73E+09	62	3.11E+07	944	0.	
8	1.39E+10	82	1.48E+07	1241	0.	TEMP (C)
10	1.27E+10	102	6.74E+06	1538	0.	-17.6
12	9.58E+09	122	3.19E+06	1835	0.	
14	8.24E+09	142	1.71E+06	2132	0.	FROSTPOINT
16	5.58E+09	161	1.35E+06	2429	0.	-16.3
18	6.11E+09	181	5.81E+05	2726	0.	
20	4.12E+09	201	3.73E+05	3023	0.	TAS (M/S)
22	3.66E+09	221	6.31E+04	3320	0.	131.2
24	2.38E+09	241	3.51E+04	3617	0.	
26	1.92E+09	260	5.17E+04	3914	0.	NT (N/M3)
28	9.87E+08	280	7.54E+04	4211	0.	2223841.3
30	1.37E+09	300	6.34E+04	4508	0.	
						TOTALS
LWC	3.36E-01		5.80E-01		2.51E-01	8.31E-01
MED D	21		111		404	156

SAMPLE: 198 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.17E+09	23	1.05E+08	404	6.52E+03	ALT (KM)
4	3.85E+09	43	7.40E+07	647	1.55E+01	4.866
6	9.41E+09	62	3.67E+07	944	0.	
8	1.25E+10	82	1.33E+07	1241	0.	TEMP (C)
10	1.12E+10	102	7.23E+06	1538	0.	-17.5
12	7.69E+09	122	4.37E+06	1835	0.	
14	6.89E+09	142	1.93E+06	2132	0.	FROSTPOINT
16	4.96E+09	161	9.55E+05	2429	0.	-16.1
18	5.76E+09	181	5.91E+05	2726	0.	
20	3.43E+09	201	8.65E+04	3023	0.	TAS (M/S)
22	3.15E+09	221	3.49E+05	3320	0.	130.5
24	2.15E+09	241	3.32E+04	3617	0.	
26	1.46E+09	260	6.99E+04	3914	0.	NT (N/M3)
28	6.39E+08	280	1.38E+05	4211	0.	2451715.1
30	1.07E+09	300	9.51E+04	4508	0.	
						TOTALS
LWC	2.84E-01		7.33E-01		4.35E-02	7.46E-01
MED D	21		110		406	115

SAMPLE: 19B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	9.75E+08	23	9.27E+07	404	5.16E+04	ALT (KM)
4	3.01E+08	43	6.19E+07	647	0.	4.863
6	8.46E+09	62	2.32E+07	944	0.	
8	1.13E+10	82	1.36E+07	1241	0.	TEMP (C)
10	9.42E+09	102	6.21E+06	1538	0.	-17.3
12	6.93E+09	122	3.43E+06	1835	0.	
14	6.03E+09	142	2.14E+06	2132	0.	FROSTPOINT
16	4.39E+09	161	1.13E+06	2429	0.	-16.1
18	4.67E+09	181	7.70E+05	2726	0.	
20	3.16E+09	201	5.46E+05	3023	0.	TAS (M/S)
22	2.66E+09	221	1.27E+05	3320	0.	130.5
24	1.70E+09	241	1.36E+05	3617	0.	
26	1.04E+09	260	1.74E+05	3914	0.	NT (N/M3)
28	5.12E+08	280	1.13E+05	4211	0.	2359629.7
30	7.85E+08	300	9.24E+04	4508	0.	
						TOTALS
LWC	2.35E-01		6.15E-01		3.33E-01	9.5?E-01
MED D	20		117		404	183

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:20:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.8
2	7.11E+08	23	7.34E+07	404	2.78E+04	ALT (KM)
4	9.25E+07	43	4.76E+07	647	0.	4.839
6	1.65E+08	62	2.65E+07	944	0.	
8	3.27E+08	82	1.19E+07	1241	0.	TEMP (C)
10	2.77E+08	102	4.49E+06	1538	0.	-27.8
12	2.20E+08	122	3.36E+06	1835	0.	
14	1.56E+08	142	1.17E+06	2132	0.	FROSTPOINT
16	1.14E+08	161	5.22E+05	2429	0.	-29.5
18	2.28E+08	181	4.02E+05	2726	0.	
20	7.11E+07	201	3.51E+05	3023	0.	TAS (M/S)
22	1.14E+08	221	1.51E+05	3320	0.	128.6
24	5.69E+07	241	1.43E+05	3617	0.	
26	6.40E+07	260	8.31E+04	3914	0.	NT (N/M3)
28	7.11E+07	280	5.55E+04	4211	0.	1874774.6
30	2.84E+07	300	4.37E+04	4508	0.	
						TOTALS
LWC	9.69E-03		4.96E-01		1.83E-01	6.69E-01
MED D	22		115		404	159

SAMPLE: 19B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:18:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	8.35E+08	23	7.35E+07	404	6.02E+04	ALT (KM)
4	2.23E+08	43	4.39E+07	647	1.55E+04	4.861
6	6.18E+09	62	2.21E+07	944	0.	
8	7.93E+09	82	1.24E+07	1241	0.	TEMP (C)
10	6.53E+09	102	5.70E+06	1538	0.	-17.3
12	4.77E+09	122	3.17E+06	1835	0.	
14	4.34E+09	142	1.56E+06	2132	0.	FROSTPOINT
16	2.88E+09	161	9.33E+05	2429	0.	-16.0
18	2.95E+09	181	2.91E+05	2726	0.	
20	1.93E+09	201	1.44E+05	3023	0.	TAS (M/S)
22	1.92E+09	221	1.59E+05	3320	0.	130.5
24	1.09E+09	241	0.	3617	0.	
26	7.05E+08	260	6.14E+04	3914	0.	NT (N/M3)
28	4.88E+08	280	1.23E+05	4211	0.	1912764.0
30	5.26E+08	300	7.39E+04	4508	0.	
						TOTALS
LWC	1.59E-01		5.31E-01		4.02E-02	5.41E-01
MED D	20		113		406	120

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:20:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.9
2	6.40E+07	23	7.34E+07	404	3.32E+04	ALT (KM)
4	2.93E+08	43	5.62E+07	647	0.	4.838
6	1.01E+09	62	2.65E+07	944	0.	
8	1.08E+09	82	1.80E+07	1241	0.	TEMP (C)
10	9.68E+08	102	5.34E+06	1538	0.	-27.9
12	5.54E+08	122	3.75E+06	1835	0.	
14	5.26E+08	142	1.54E+06	2132	0.	FROSTPOINT
16	3.41E+08	161	7.20E+05	2429	0.	-29.5
18	3.84E+08	181	3.22E+05	2726	0.	
20	2.77E+08	201	3.22E+05	3023	0.	TAS (M/S)
22	1.92E+08	221	1.61E+05	3320	0.	128.7
24	1.56E+08	241	1.43E+05	3617	0.	
26	1.07E+08	260	9.74E+04	3914	0.	NT (N/M3)
28	5.69E+07	280	5.54E+04	4211	0.	2092941.8
30	9.24E+07	300	5.34E+04	4508	0.	
						TOTALS
LWC	2.12E-02		5.27E-01		2.18E-01	7.45E-01
MED D	20		116		404	160

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.8
2	7.14E+06	23	7.68E+07	404	2.92E+04	ALT (KM)
4	7.14E+07	43	5.16E+07	647	0.	4.879
6	1.36E+08	62	2.88E+07	964	0.	
8	2.87E+08	82	1.33E+07	1241	0.	TEMP (C)
10	1.36E+08	102	5.76E+06	1538	0.	-27.9
12	1.09E+08	122	3.49E+06	1835	0.	
14	1.14E+08	142	1.39E+06	2132	0.	FROSTPOINT
16	9.28E+07	161	6.23E+05	2429	0.	-29.4
18	1.07E+08	181	4.58E+05	2726	0.	
20	7.86E+07	201	1.17E+05	3023	0.	TAS (M/S)
22	2.14E+07	221	1.34E+05	3320	0.	128.1
24	4.29E+07	241	1.44E+05	3617	0.	
26	6.43E+07	260	9.15E+04	3914	0.	NT (N/M3)
28	2.14E+07	280	5.93E+04	4211	0.	2181915.0
30	4.29E+07	300	5.22E+04	4508	0.	
						TOTALS
LWC	6.34E-03		3.48E-01		1.92E-01	7.38E-01
MED D	24		113		404	145

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	0.	23	5.99E+07	404	1.56E+04	ALT (KM)
4	0.	43	4.57E+07	647	0.	4.843
6	4.27E+07	62	2.64E+07	964	0.	
8	4.27E+07	82	1.25E+07	1241	0.	TEMP (C)
10	2.84E+07	102	5.99E+06	1538	0.	-27.8
12	0.	122	3.98E+06	1835	0.	
14	0.	142	1.17E+06	2132	0.	FROSTPOINT
16	7.11E+06	161	5.21E+05	2429	0.	-29.3
18	7.11E+06	181	3.40E+05	2726	0.	
20	7.11E+06	201	1.17E+05	3023	0.	TAS (M/S)
22	7.11E+06	221	9.65E+04	3320	0.	128.7
24	0.	241	9.57E+04	3617	0.	
26	7.11E+06	260	3.34E+04	3914	0.	NT (N/M3)
28	0.	280	3.13E+04	4211	0.	1806792.2
30	0.	300	2.93E+04	4508	0.	
						TOTALS
LWC	4.15E-04		4.53E-01		1.83E-01	5.56E-01
MED D	21		185		404	119

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 17 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.6
2	2.14E+07	23	6.53E+07	404	2.33E+03	ALT (KM)
4	2.14E+07	43	7.79E+07	647	1.55E+01	4.842
6	1.14E+08	62	1.36E+07	964	0.	
8	2.36E+08	82	1.38E+07	1241	0.	TEMP (C)
10	1.64E+08	102	5.38E+06	1538	0.	-27.8
12	8.56E+07	122	2.11E+06	1835	0.	
14	9.28E+07	142	1.13E+06	2132	0.	FROSTPOINT
16	8.56E+07	161	5.23E+05	2429	0.	-29.4
18	5.71E+07	181	4.38E+05	2726	0.	
20	3.57E+07	201	1.17E+05	3023	0.	TAS (M/S)
22	4.29E+07	221	1.51E+05	3320	0.	128.2
24	7.57E+07	241	3.59E+04	3617	0.	
26	7.13E+06	260	3.89E+04	3914	0.	NT (N/M3)
28	7.13E+06	280	4.23E+04	4211	0.	1562866.8
30	7.13E+06	300	2.77E+04	4508	0.	
						TOTALS
LWC	3.31E-03		4.39E-01		2.83E-02	4.38E-01
MED D	28		113		408	113

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 17 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	5.71E+07	23	7.35E+07	404	2.56E+03	ALT (KM)
4	8.57E+07	43	5.79E+07	647	1.59E+01	4.843
6	4.86E+08	62	2.55E+07	964	0.	
8	4.64E+08	82	1.43E+07	1241	0.	TEMP (C)
10	4.07E+08	102	6.35E+06	1538	0.	-27.8
12	2.71E+08	122	2.80E+06	1835	0.	
14	2.29E+08	142	1.53E+06	2132	0.	FROSTPOINT
16	2.14E+08	161	9.48E+05	2429	0.	-29.3
18	1.36E+08	181	5.12E+05	2726	0.	
20	1.36E+08	201	2.35E+05	3023	0.	TAS (M/S)
22	1.71E+08	221	1.52E+05	3320	0.	128.1
24	7.14E+07	241	7.18E+04	3617	0.	
26	3.57E+07	260	4.39E+04	3914	0.	NT (N/M3)
28	3.57E+07	280	3.33E+04	4211	0.	2288012.9
30	0.	300	2.21E+04	4508	0.	
						TOTALS
LWC	9.45E-03		5.42E-01		1.75E-02	5.56E-01
MED D	28		107		408	109

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21:20:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	1.14E+08	23	9.32E+07	404	1.57E+04	ALT (KM)
4	3.93E+08	43	5.26E+07	647	0.	4.843
6	1.23E+09	62	2.45E+07	944	1.66E+01	
8	1.42E+09	82	1.15E+07	1241	0.	TEMP (C)
10	1.23E+09	102	5.90E+06	1538	0.	-27.8
12	1.11E+09	122	2.94E+06	1835	0.	
14	8.49E+08	142	1.37E+06	2132	0.	FROSTPOINT
16	5.23E+08	161	3.73E+05	2429	0.	-29.2
18	5.53E+08	181	5.54E+05	2726	0.	
20	4.43E+08	201	3.52E+05	3023	0.	TAS (M/S)
22	4.56E+08	221	2.30E+05	3320	0.	128.4
24	3.42E+08	241	1.47E+05	3617	0.	
26	2.21E+08	260	6.70E+04	3914	0.	NT (N/M3)
28	1.50E+08	280	3.13E+04	4211	0.	2965134.3
30	9.26E+07	300	2.91E+04	4508	0.	
						TOTALS
LWC	3.70E-02		5.28E-01		1.05E-01	6.43E-01
MED D	21		116		406	175

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21:20:38*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	2.51E+08	23	1.37E+08	404	5.86E+04	ALT (KM)
4	9.33E+08	43	7.90E+07	647	0.	4.843
6	2.88E+09	62	4.32E+07	944	0.	
8	3.57E+09	82	1.76E+07	1241	0.	TEMP (C)
10	2.85E+09	102	8.81E+06	1538	0.	-27.8
12	2.14E+09	122	4.29E+06	1835	0.	
14	1.62E+09	142	1.92E+06	2132	0.	FROSTPOINT
16	1.47E+09	161	1.13E+06	2429	0.	-29.2
18	1.32E+09	181	6.77E+05	2726	0.	
20	9.76E+08	201	3.29E+05	3023	0.	TAS (M/S)
22	8.33E+08	221	3.25E+05	3320	0.	127.5
24	4.24E+08	241	1.44E+05	3617	0.	
26	4.89E+08	260	1.30E+05	3914	0.	NT (N/M3)
28	1.87E+08	280	1.17E+05	4211	0.	3073876.5
30	1.94E+08	300	1.35E+05	4508	0.	
						TOTALS
LWC	7.03E-02		7.85E-01		3.86E-01	1.17E+00
MED D	29		113		404	175

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21:20:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	3.01E+08	23	8.54E+07	404	7.72E+04	ALT (KM)
4	7.69E+08	43	5.75E+07	647	0.	4.843
6	2.63E+09	62	3.29E+07	944	0.	
8	2.82E+09	82	1.34E+07	1241	0.	TEMP (C)
10	2.36E+09	102	6.37E+06	1538	0.	-27.8
12	1.70E+09	122	3.35E+06	1835	0.	
14	1.76E+09	142	1.54E+06	2132	0.	FROSTPOINT
16	9.17E+08	161	1.10E+06	2429	0.	-29.2
18	1.05E+09	181	5.13E+05	2726	0.	
20	7.81E+08	201	3.54E+05	3023	0.	TAS (M/S)
22	7.82E+08	221	2.32E+05	3320	0.	127.7
24	4.37E+08	241	3.54E+04	3617	0.	
26	3.59E+08	260	7.65E+04	3914	0.	NT (N/M3)
28	1.72E+08	280	1.54E+05	4211	0.	2358813.8
30	2.15E+08	300	1.30E+05	4508	0.	
						TOTALS
LWC	6.16E-02		6.51E-01		5.87E-01	1.16E+00
MED D	21		119		404	272

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: *21:20:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.5
2	3.81E+08	23	1.25E+08	404	6.46E+03	ALT (KM)
4	1.11E+09	43	8.24E+07	647	1.59E+01	4.843
6	3.43E+09	62	4.97E+07	944	0.	
8	4.25E+09	82	1.99E+07	1241	0.	TEMP (C)
10	3.57E+09	102	1.10E+07	1538	0.	-27.9
12	2.67E+09	122	5.30E+06	1835	0.	
14	2.17E+09	142	2.58E+06	2132	0.	FROSTPOINT
16	1.50E+09	161	1.15E+06	2429	0.	-29.1
18	1.71E+09	181	7.86E+05	2726	0.	
20	1.07E+09	201	8.57E+05	3023	0.	TAS (M/S)
22	1.24E+09	221	2.93E+05	3320	0.	127.3
24	6.47E+08	241	2.17E+05	3617	0.	
26	5.82E+08	260	1.71E+05	3914	0.	NT (N/M3)
28	3.52E+08	280	1.35E+05	4211	0.	3434969.6
30	3.02E+08	300	8.31E+04	4508	0.	
						TOTALS
LWC	9.61E-02		9.53E-01		4.31E-02	9.96E-01
MED D	21		117		406	122

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:29:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	1.86E+08	23	3.24E+07	404	5.22E+03	ALT (KM)
4	7.22E+08	43	5.95E+07	647	1.58E+01	4.847
6	2.37E+09	62	3.79E+07	944	0.	
8	2.35E+09	82	1.63E+07	1241	0.	TEMP (C)
10	1.81E+09	102	6.38E+06	1538	0.	-27.9
12	1.23E+09	122	4.31E+06	1835	0.	
14	1.85E+09	142	2.15E+06	2132	0.	FROSTPOINT
16	6.43E+08	161	7.09E+05	2429	0.	-29.1
18	8.29E+08	181	5.12E+05	2726	0.	
20	6.84E+08	201	3.92E+05	3023	0.	TAS (M/S)
22	4.65E+08	221	2.31E+05	3320	0.	128.0
24	3.76E+08	241	7.19E+04	3617	0.	
26	2.87E+08	261	9.59E+04	3914	0.	NT (N/M3)
28	1.29E+08	281	1.28E+05	4211	0.	2395612.6
30	1.87E+08	301	7.99E+04	4508	0.	
						TOTALS
LWC	4.25E-02		5.58E-01		4.15E-02	7.10E-01
MED D	28		117		406	122

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	9.29E+07	23	9.35E+07	404	5.63E+03	ALT (KM)
4	3.59E+08	43	6.86E+07	647	4.75E+01	4.852
6	1.27E+09	62	3.31E+07	944	0.	
8	9.01E+08	82	1.66E+07	1241	0.	TEMP (C)
10	7.65E+08	102	7.86E+06	1538	0.	-27.9
12	6.15E+08	122	3.59E+06	1835	0.	
14	6.09E+08	142	1.73E+06	2132	0.	FROSTPOINT
16	3.5uE+08	161	7.24E+05	2429	0.	-29.0
18	3.22E+08	181	3.77E+05	2726	0.	
20	2.72E+08	201	3.23E+05	3023	0.	TAS (M/S)
22	2.23E+08	221	1.52E+05	3320	0.	128.0
24	1.22E+08	241	2.16E+03	3617	0.	
26	1.40E+08	260	1.21E+05	3914	0.	NT (N/M3)
28	7.86E+07	281	6.74E+04	4211	0.	2629642.1
30	4.23E+07	300	4.56E+04	4508	0.	
						TOTALS
LWC	1.98E-02		6.37E-01		4.83E-02	6.77E-01
MED D	20		103		409	114

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	2.79E+08	23	3.21E+07	404	1.44E+04	ALT (KM)
4	9.65E+08	43	6.17E+07	647	0.	4.849
6	2.91E+09	62	2.59E+07	944	0.	
8	3.63E+09	82	1.47E+07	1241	0.	TEMP (C)
10	2.33E+09	102	6.18E+06	1538	0.	-27.9
12	1.65E+09	122	3.35E+06	1835	0.	
14	1.52E+09	142	1.57E+06	2132	0.	FROSTPOINT
16	1.24E+09	161	7.74E+05	2429	0.	-29.1
18	1.21E+09	181	2.78E+05	2726	0.	
20	9.72E+08	201	1.74E+05	3023	0.	TAS (M/S)
22	7.22E+08	221	1.29E+05	3320	0.	128.0
24	4.86E+08	241	3.59E+04	3617	0.	
26	2.65E+08	260	3.22E+04	3914	0.	NT (N/M3)
28	1.87E+08	281	2.99E+04	4211	0.	2288012.8
30	1.43E+08	300	2.59E+04	4508	0.	
						TOTALS
LWC	6.11E-02		5.66E-01		9.49E-02	6.61E-01
MED D	28		102		404	116

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	6.08E+08	23	1.25E+08	404	5.84E+03	ALT (KM)
4	1.81E+09	43	8.66E+07	647	3.16E+01	4.852
6	5.67E+09	62	4.49E+07	944	0.	
8	7.41E+09	82	2.08E+07	1241	0.	TEMP (C)
10	6.36E+09	102	1.86E+07	1538	0.	-27.9
12	4.60E+09	122	4.91E+06	1835	0.	
14	3.94E+09	142	2.45E+06	2132	0.	FROSTPOINT
16	2.98E+09	161	1.48E+06	2429	0.	-29.0
18	3.32E+09	181	6.47E+05	2726	0.	
20	2.37E+09	201	5.58E+05	3023	0.	TAS (M/S)
22	2.17E+09	221	4.20E+05	3320	0.	128.0
24	1.54E+09	241	1.08E+05	3617	0.	
26	1.19E+09	260	9.44E+04	3914	0.	NT (N/M3)
28	6.76E+08	280	9.28E+04	4211	0.	3414627.2
30	6.79E+08	300	5.42E+04	4508	0.	
						TOTALS
LWC	1.90E-01		8.57E-01		3.97E-02	8.97E-01
MED D	21		110		408	118

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:20:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.6
2	5.77E+08	23	1.48E+06	484	4.58E+03	ALT (KM)
4	1.07E+09	43	3.59E+07	647	1.58E+01	4.854
6	5.23E+09	62	4.54E+07	944	0.	
8	6.24E+09	82	2.75E+07	1241	0.	TEMP (C)
10	5.09E+09	102	1.85E+07	1538	0.	-27.9
12	4.19E+09	122	4.54E+06	1835	0.	
14	3.63E+09	142	2.38E+06	2132	0.	FROSTPOINT
16	2.23E+09	161	1.82E+06	2429	0.	-29.0
18	2.58E+09	181	7.79E+05	2726	0.	
20	1.88E+09	201	3.32E+05	3023	0.	TAS (M/S)
22	1.67E+09	221	2.30E+05	3320	0.	128.4
24	9.33E+08	241	1.34E+05	3617	0.	
26	9.97E+08	261	1.75E+05	3914	0.	NT (N/M3)
28	7.92E+08	280	8.96E+04	4211	0.	2487945.6
30	4.77E+08	300	5.14E+04	4508	0.	
						TOTALS
LWC	1.44E-01		3.95E-01		7.08E-02	9.26E-01
MED D	21		103		407	112

SAMPLE: 20 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:26*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	6.95E+06	23	5.76E+07	484	3.98E+03	ALT (KM)
4	2.78E+07	43	5.21E+07	647	3.88E+01	4.966
6	1.11E+08	62	2.59E+07	944	0.	
8	1.16E+08	82	1.14E+07	1241	0.	TEMP (C)
10	4.87E+07	102	6.31E+06	1538	0.	-16.3
12	2.78E+07	122	3.11E+06	1835	0.	
14	4.87E+07	142	1.38E+06	2132	0.	FROSTPOINT
16	2.78E+07	161	8.39E+05	2429	0.	-14.8
18	2.09E+07	181	5.77E+05	2726	0.	
20	6.95E+06	201	2.29E+05	3023	0.	TAS (M/S)
22	6.95E+06	221	1.37E+05	3320	0.	131.6
24	0.	241	3.39E+04	3617	0.	
26	0.	260	3.39E+04	3914	0.	NT (N/M3)
28	0.	280	4.55E+04	4211	0.	2418688.6
30	0.	300	3.10E+04	4508	0.	
						TOTALS
LWC	7.43E-04		4.39E-01		2.69E-02	5.22E-01
MED D	15		110		409	115

SAMPLE: 19C AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-05 ON 25 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:20:37*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 23 GPM DISTANCE: 100 FT CAL FACTOR: 9.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	7.33E+09	23	1.11E+08	484	5.23E+04	ALT (KM)
4	2.76E+09	43	7.29E+07	647	0.	4.853
6	6.57E+09	62	2.96E+07	944	0.	
8	1.63E+10	82	1.44E+07	1241	0.	TEMP (C)
10	8.57E+09	102	6.19E+06	1538	0.	-27.9
12	6.99E+09	122	3.99E+06	1835	0.	
14	6.31E+09	142	1.33E+06	2132	0.	FROSTPOINT
16	4.43E+09	161	7.44E+05	2429	0.	-28.9
18	5.06E+09	181	5.19E+05	2726	0.	
20	3.48E+09	201	1.75E+05	3023	0.	TAS (M/S)
22	3.61E+09	221	1.33E+05	3320	0.	128.8
24	2.37E+09	241	1.43E+05	3617	0.	
26	1.73E+09	260	1.22E+05	3914	0.	NT (N/M3)
28	9.88E+08	280	1.15E+05	4211	0.	2502712.6
30	1.85E+09	300	9.37E+04	4508	0.	
						TOTALS
LWC	2.87E-01		6.38E-01		3.44E-01	9.74E-01
MED D	21		115		484	183

SAMPLE: 20 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	4.53E+08	23	5.16E+07	484	6.56E+03	ALT (KM)
4	1.68E+09	43	4.53E+07	647	0.	4.861
6	4.19E+09	62	2.15E+07	944	0.	
8	5.68E+09	82	1.11E+07	1241	0.	TEMP (C)
10	4.89E+09	102	5.51E+06	1538	0.	-16.3
12	3.26E+09	122	3.22E+06	1835	0.	
14	2.93E+09	142	1.56E+06	2132	0.	FROSTPOINT
16	2.18E+09	161	6.56E+05	2429	0.	-14.7
18	2.15E+09	181	4.26E+05	2726	0.	
20	1.39E+09	201	1.43E+05	3023	0.	TAS (M/S)
22	1.25E+09	221	1.89E+05	3320	0.	131.5
24	6.48E+08	241	1.35E+05	3617	0.	
26	5.22E+08	260	3.71E+04	3914	0.	NT (N/M3)
28	2.23E+08	280	1.31E+04	4211	0.	1888689.4
30	3.55E+08	300	1.17E+04	4508	0.	
						TOTALS
LWC	1.08E-01		4.55E-01		4.31E-02	4.99E-01
MED D	20		111		404	110

SAMPLE: 20 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	9.66E+08	23	7.49E+07	404	8.08E+10	ALT (KM)
4	2.04E+09	43	5.78E+07	647	3.08E+01	4.857
6	7.56E+09	62	3.12E+07	944	0.	
8	1.07E+10	82	1.24E+07	1241	0.	TEMP (C)
10	1.05E+10	102	7.94E+06	1538	0.	-16.4
12	7.59E+09	122	4.19E+06	1835	0.	
14	6.71E+09	142	1.77E+06	2132	0.	FROSTPOINT
16	4.52E+09	161	9.24E+05	2429	0.	-14.7
18	4.97E+09	181	5.78E+05	2726	0.	
20	3.59E+09	201	3.44E+05	3023	0.	TAS (M/S)
22	3.02E+09	221	3.06E+04	3320	0.	131.3
24	1.47E+09	241	1.75E+05	3617	0.	
26	1.37E+09	260	1.35E+05	3914	0.	NT (N/M3)
28	6.63E+08	280	1.37E+05	4211	0.	2732722.4
30	9.23E+08	301	2.72E+04	4508	0.	
						TOTALS
LWC	2.58E-01		6.58E-01		5.44E-02	7.13E-01
MED D	28		119		407	126

SAMPLE: 20 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:30
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	1.22E+09	23	8.10E+06	404	1.93E+01	ALT (KM)
4	3.13E+09	43	7.19E+06	647	3.08E+01	4.859
6	7.71E+09	62	3.53E+06	944	0.	
8	1.31E+10	82	1.54E+06	1241	0.	TEMP (C)
10	1.30E+10	102	1.01E+06	1538	0.	-16.6
12	1.13E+10	122	5.53E+05	1835	0.	
14	1.03E+10	142	2.37E+05	2132	0.	FROSTPOINT
16	7.17E+09	161	1.46E+05	2429	0.	-14.7
18	6.37E+09	181	2.53E+04	2726	0.	
20	5.35E+09	201	3.87E+04	3023	0.	TAS (M/S)
22	4.63E+09	221	3.15E+04	3320	0.	131.3
24	3.27E+09	241	3.5.E+04	3617	0.	
26	2.32E+09	260	0.	3914	0.	NT (N/M3)
28	1.15E+09	280	0.	4211	0.	287248.5
30	1.79E+09	301	0.	4508	0.	
						TOTALS
LWC	4.24E-01		7.35E-02		1.43E-03	7.49E-02
MED D	21		111		633	112

SAMPLE: 20 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.16E+09	23	9.24E+07	404	2.71E+01	ALT (KM)
4	2.87E+09	43	2.91E+07	647	3.09E+01	4.857
6	7.73E+09	62	1.35E+07	944	0.	
8	1.25E+10	82	7.30E+06	1241	0.	TEMP (C)
10	1.26E+10	102	4.15E+06	1538	0.	-16.5
12	1.04E+10	122	2.14E+06	1835	0.	
14	9.47E+09	142	1.12E+06	2132	0.	FROSTPOINT
16	7.08E+09	161	6.83E+05	2429	0.	-14.7
18	7.79E+09	181	2.53E+05	2726	0.	
20	5.35E+09	201	1.43E+05	3023	0.	TAS (M/S)
22	5.25E+09	221	9.67E+04	3320	0.	131.2
24	3.15E+09	241	3.51E+04	3617	0.	
26	2.54E+09	260	3.24E+04	3914	0.	NT (N/M3)
28	1.12E+09	280	2.53E+04	4211	0.	1159463.7
30	1.77E+09	301	1.93E+04	4508	0.	
						TOTALS
LWC	4.26E-01		7.16E-01		1.91E-02	3.35E-01
MED D	21		114		411	119

SAMPLE: 20 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:19:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 100 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	1.03E+09	23	2.31E+06	404	1.92E+01	ALT (KM)
4	3.11E+09	43	4.50E+06	647	3.07E+01	4.859
6	7.64E+09	62	3.11E+06	944	0.	
8	1.26E+10	82	1.11E+06	1241	0.	TEMP (C)
10	1.29E+10	102	5.03E+05	1538	0.	-16.5
12	9.61E+09	122	5.59E+05	1835	0.	
14	8.96E+09	142	2.35E+05	2132	0.	FROSTPOINT
16	6.36E+09	161	4.34E+04	2429	0.	-14.7
18	7.03E+09	181	2.51E+04	2726	0.	
20	4.66E+09	201	2.95E+04	3023	0.	TAS (M/S)
22	4.15E+09	221	3.14E+04	3320	0.	132.8
24	2.68E+09	241	6.97E+04	3617	0.	
26	2.09E+09	260	0.	3914	0.	NT (N/M3)
28	9.77E+08	280	0.	4211	0.	201869.1
30	1.69E+09	301	0.	4508	0.	
						TOTALS
LWC	3.73E-01		6.09E-02		1.42E-03	6.23E-02
MED D	21		123		633	125

SAMPLE# 26

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:19:32*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.16E+09	23	3.[illegible]E+07	484	4.47E+03	ALT (KM)
4	3.33E+09	43	3.73E+07	647	1.52E+01	4.856
6	8.21E+09	62	2.29E+07	944	0.	
8	1.32E+10	82	1.15E+07	1241	0.	TEMP (C)
10	1.34E+10	102	4.55E+06	1538	0.	-16.5
12	1.03E+10	122	2.70E+06	1835	0.	
14	9.57E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	6.60E+09	161	5.53E+05	2429	0.	-14.7
18	7.50E+09	181	3.37E+05	2726	0.	
20	5.06E+09	201	1.98E+05	3023	0.	TAS (M/S)
22	4.15E+09	221	1.55E+05	3320	0.	133.0
24	2.89E+09	241	1.39E+05	3617	0.	
26	2.07E+09	260	1.14E+05	3914	0.	NT (N/M3)
28	1.09E+09	280	7.78E+04	4211	0.	1535355.1
30	1.62E+09	300	4.93E+04	4508	0.	
						TOTALS
LWC	7.89E-01		4.72E-01		2.97E-02	5.62E-01
MED D	21		119		407	125

SAMPLE# 20

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:19:34*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	8.43E+08	23	1.19E+08	484	6.67E+04	ALT (KM)
4	2.68E+09	43	6.87E+07	647	0.	4.863
6	7.45E+09	62	3.52E+07	944	0.	
8	9.66E+09	82	1.95E+07	1241	0.	TEMP (C)
10	7.76E+09	102	8.48E+06	1538	0.	-16.8
12	5.77E+09	122	3.74E+06	1835	0.	
14	4.44E+09	142	2.13E+06	2132	0.	FROSTPOINT
16	3.27E+09	161	7.33E+05	2429	0.	-14.6
18	3.35E+09	181	5.37E+05	2726	0.	
20	2.04E+09	201	3.40E+05	3023	0.	TAS (M/S)
22	1.64E+09	221	9.34E+04	3320	0.	132.9
24	1.12E+09	241	1.73E+05	3617	0.	
26	8.26E+08	260	1.52E+05	3914	0.	NT (N/M3)
28	3.51E+08	281	1.33E+05	4211	0.	2784462.1
30	5.99E+08	300	1.19E+05	4508	0.	
						TOTALS
LWC	1.68E-01		7.35E-01		4.39E-01	1.17E+00
MED D	20		111		404	197

SAMPLE# 26

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:19:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.19E+09	23	1.33E+08	484	5.28E+03	ALT (KM)
4	3.62E+09	43	7.38E+07	647	1.52E+01	4.861
6	9.64E+09	62	4.43E+07	944	0.	
8	1.39E+10	82	1.97E+07	1241	0.	TEMP (C)
10	1.37E+10	102	9.86E+06	1538	0.	-16.8
12	1.02E+10	122	4.19E+06	1835	0.	
14	9.34E+09	142	2.75E+06	2132	0.	FROSTPOINT
16	6.47E+09	161	7.7JE+05	2429	0.	-14.6
18	7.28E+09	181	4.16E+05	2726	0.	
20	4.47E+09	201	1.99E+05	3023	0.	TAS (M/S)
22	4.14E+09	221	1.36E+05	3320	0.	132.8
24	2.47E+09	241	1.04E+05	3617	0.	
26	2.16E+09	260	1.03E+05	3914	0.	NT (N/M3)
28	1.04E+09	280	1.31E+05	4211	0.	2099279.7
30	1.68E+09	300	6.83E+04	4508	0.	
						TOTALS
LWC	3.79E-01		7.38E-01		3.53E-02	7.73E-01
MED D	21		103		406	106

SAMPLE# 20

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:19:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 100 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	3.13E+08	23	5.58E+07	484	3.77E+04	ALT (KM)
4	9.50E+08	43	4.42E+07	647	0.	4.864
6	2.68E+09	62	2.59E+07	944	0.	
8	3.05E+09	82	1.25E+07	1241	0.	TEMP (C)
10	2.42E+09	102	5.25E+06	1538	0.	-16.8
12	1.71E+09	122	2.82E+06	1835	0.	
14	1.34E+09	142	1.46E+06	2132	0.	FROSTPOINT
16	9.30E+08	161	7.21E+05	2429	0.	-14.6
18	1.12E+09	181	2.86E+05	2726	0.	
20	7.64E+08	201	2.27E+05	3023	0.	TAS (M/S)
22	4.82E+08	221	1.56E+05	3320	0.	132.9
24	3.10E+08	241	1.38E+05	3617	0.	
26	2.00E+08	260	1.12E+05	3914	0.	NT (N/M3)
28	1.59E+08	280	7.54E+04	4211	0.	1886862.8
30	1.86E+08	300	6.75E+04	4508	0.	
						TOTALS
LWC	5.26E-02		5.05E-01		2.48E-01	7.53E-01
MED D	19		114		404	173

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:21:39*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 200 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	8.92E+08	23	1.79E+07	404	1.35E+03	ALT (KM)
4	2.57E+09	43	1.73E+07	647	1.52E+01	4.864
6	9.23E+09	62	9.37E+06	944	0.	
8	1.13E+10	82	4.55E+06	1241	0.	TEMP (C)
10	9.04E+09	102	1.74E+06	1538	0.	-15.9
12	6.22E+09	122	7.75E+05	1835	0.	
14	4.69E+09	142	4.65E+05	2132	0.	FROSTPOINT
16	3.54E+09	161	1.32E+05	2429	0.	-18.5
18	3.56E+09	181	2.59E+04	2726	0.	
20	2.31E+09	201	1.13E+05	3023	0.	TAS (M/S)
22	1.76E+09	221	9.32E+04	3320	0.	133.3
24	0.59E+08	241	0.	3617	0.	
26	5.15E+08	261	6.47E+03	3914	0.	NT (N/M3)
28	2.33E+08	280	1.29E+04	4211	0.	666955.9
30	4.65E+08	300	9.03E+03	4508	0.	
						TOTALS
LWC	1.61E-01		1.50E-01		9.51E-03	1.60E-01
MED D	18		102		+11	107

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:21:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 200 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	7.82E+08	23	7.19E+07	404	0.	ALT (KM)
4	2.27E+09	43	1.34E+07	647	0.	4.866
6	8.42E+09	62	3.59E+06	944	0.	
8	1.10E+10	82	4.18E+05	1241	0.	TEMP (C)
10	7.87E+09	102	7.14E+05	1538	0.	-16.1
12	5.66E+09	122	1.33E+06	1835	0.	
14	4.66E+09	142	5.51E+05	2132	0.	FROSTPOINT
16	3.19E+09	161	1.25E+05	2429	0.	-18.6
18	3.37E+09	181	5.17E+04	2726	0.	
20	2.25E+09	201	5.34E+04	3023	0.	TAS (M/S)
22	1.26E+09	221	6.21E+04	3320	0.	133.4
24	8.64E+08	241	0.	3617	0.	
26	6.52E+08	260	0.	3914	0.	NT (N/M3)
28	3.02E+08	280	0.	4211	0.	762446.4
30	3.57E+08	300	0.	4508	0.	
						TOTALS
LWC	1.52E-01		1.58E-01		0.	1.69E-01
MED D	19		100		0	100

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:21:39*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 200 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	9.16E+08	23	2.79E+07	404	9.43E+00	ALT (KM)
4	2.64E+09	43	1.31E+07	647	1.52E+01	4.867
6	9.58E+09	62	9.50E+06	944	0.	
8	1.23E+10	82	5.17E+06	1241	0.	TEMP (C)
10	8.68E+09	102	1.39E+06	1538	0.	-16.0
12	6.07E+09	122	9.50E+05	1835	0.	
14	4.93E+09	142	3.49E+05	2132	0.	FROSTPOINT
16	3.33E+09	161	2.98E+05	2429	0.	-18.5
18	3.64E+09	181	2.59E+04	2726	0.	
20	2.27E+09	201	1.13E+05	3023	0.	TAS (M/S)
22	1.59E+09	221	6.21E+04	3320	0.	133.4
24	9.81E+08	241	3.45E+04	3617	0.	
26	5.69E+08	260	0.	3914	0.	NT (N/M3)
28	3.77E+08	280	0.	4211	0.	738547.2
30	4.53E+08	300	0.	4508	0.	
						TOTALS
LWC	1.66E-01		1.57E-01		7.05E-04	1.58E-01
MED D	19		95		633	97

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:21:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 15 GPM DISTANCE# 200 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	5.94E+08	23	2.89E+07	404	2.93E+03	ALT (KM)
4	2.06E+09	43	2.10E+07	647	1.52E+01	4.866
6	8.09E+09	62	1.13E+07	944	0.	
8	9.65E+09	82	4.98E+06	1241	0.	TEMP (C)
10	7.29E+09	102	2.54E+06	1538	0.	-16.2
12	4.93E+09	122	1.68E+05	1835	0.	
14	4.35E+09	142	6.18E+05	2132	0.	FROSTPOINT
16	3.13E+09	161	1.32E+05	2429	0.	-18.6
18	3.16E+09	181	1.81E+05	2726	0.	
20	1.73E+09	201	9.46E+04	3023	0.	TAS (M/S)
22	1.54E+09	221	5.10E+04	3320	0.	133.4
24	7.82E+08	241	3.45E+04	3617	0.	
26	5.49E+08	260	3.09E+04	3914	0.	NT (N/M3)
28	2.88E+08	280	2.77E+04	4211	0.	867618.3
30	3.58E+08	300	1.55E+04	4508	0.	
						TOTALS
LWC	1.42E-01		2.11E-01		1.53E-12	2.26E-01
MED D	19		109		409	113

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:21:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 288 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.27E+04	23	3.53E+07	404	9.44E+38	ALT (KM)
4	2.26E+09	43	1.63E+07	647	1.52E+31	4.866
6	8.47E+03	62	8.51E+06	944	0.	
8	1.38E+18	82	4.61E+06	1241	0.	TEMP (C)
10	7.14E+09	102	2.74E+06	1538	0.	-16.2
12	5.83E+09	122	9.59E+05	1835	0.	
14	4.44E+09	142	3.19E+05	2132	0.	FROSTPOINT
16	3.82E+09	161	1.53E+05	2429	0.	-18.6
18	3.03E+09	181	1.33E+05	2726	0.	
20	1.81E+09	201	5.54E+04	3023	0.	TAS (M/S)
22	1.48E+09	221	3.18E+04	3320	0.	133.4
24	6.56E+08	241	3.45E+04	3617	0.	
26	6.31E+08	260	0.	3914	0.	NT (N/M3)
28	2.61E+08	288	0.	4211	0.	670910.6
30	3.15E+08	300	0.	4508	0.	
						TOTALS
LWC	1.39E-01		1.37E-01		7.04E-34	1.54E-01
MED D	19		95		637	98

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:21:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 288 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	1.61E+09	23	8.98E+06	404	3.53E+38	ALT (KM)
4	2.51E+09	43	1.12E+07	647	1.52E+31	4.859
6	8.77E+09	62	4.19E+06	944	0.	
8	1.27E+18	82	1.59E+06	1241	0.	TEMP (C)
10	9.55E+09	102	9.48E+05	1538	0.	-16.2
12	7.33E+09	122	6.55E+05	1835	0.	
14	5.83E+09	142	2.62E+05	2132	0.	FROSTPOINT
16	4.23E+09	161	9.59E+04	2429	0.	-18.6
18	4.33E+09	181	7.77E+04	2726	0.	
20	2.64E+09	201	0.	3023	0.	TAS (M/S)
22	2.21E+09	221	3.11E+04	3320	0.	133.2
24	1.17E+09	241	0.	3617	0.	
26	6.73E+08	260	0.	3914	0.	NT (N/M3)
28	3.98E+08	288	0.	4211	0.	760325.1
30	4.47E+08	300	0.	4508	0.	
						TOTALS
LWC	1.96E-01		7.42E-02		7.06E-34	7.49E-02
MED D	19		104		633	185

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:21:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 288 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	7.82E+08	23	1.38E+07	404	9.43E+38	ALT (KM)
4	2.47E+09	43	1.35E+07	647	1.53E+31	4.861
6	8.61E+09	62	4.71E+06	944	0.	
8	1.23E+18	82	2.35E+06	1241	0.	TEMP (C)
10	9.22E+09	102	1.79E+06	1538	0.	-16.2
12	6.55E+09	122	5.31E+05	1835	0.	
14	5.06E+09	142	2.52E+05	2132	0.	FROSTPOINT
16	3.59E+09	161	9.58E+04	2429	0.	-18.6
18	4.17E+09	181	5.17E+04	2726	0.	
20	2.31E+09	201	0.47E+04	3023	0.	TAS (M/S)
22	1.74E+09	221	3.18E+04	3320	0.	133.4
24	1.09E+09	241	0.	3617	0.	
26	6.52E+08	260	0.	3914	0.	NT (N/M3)
28	2.88E+08	288	0.	4211	0.	487281.5
30	3.98E+08	300	0.	4508	0.	
						TOTALS
LWC	1.73E-01		9.56E-02		7.05E-34	9.73E-02
MED D	18		101		633	101

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:21:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 288 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	9.36E+08	23	1.70E+07	404	0.	ALT (KM)
4	2.49E+09	43	1.63E+07	647	0.	4.861
6	8.62E+09	62	6.79E+06	944	0.	
8	1.24E+18	82	3.24E+06	1241	0.	TEMP (C)
10	1.08E+10	102	1.25E+06	1538	0.	-16.2
12	7.33E+09	122	4.81E+05	1835	0.	
14	6.17E+09	142	1.96E+05	2132	0.	FROSTPOINT
16	4.55E+09	161	2.64E+05	2429	0.	-18.6
18	4.35E+09	181	1.34E+05	2726	0.	
20	2.66E+09	201	0.	3023	0.	TAS (M/S)
22	2.03E+09	221	6.23E+04	3320	0.	132.9
24	1.25E+09	241	0.	3617	0.	
26	8.33E+08	260	0.	3914	0.	NT (N/M3)
28	3.85E+08	288	0.	4211	0.	563788.8
30	5.78E+08	300	0.	4508	0.	
						TOTALS
LWC	2.03E-01		1.05E-01		0.	1.05E-01
MED D	19		92		0	92

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:21:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 15 GPM DISTANCE# 200 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.11E+09	23	2.30E+07	404	6.43E+03	ALT (KM)
4	2.73E+09	43	1.50E+07	647	0.	4.863
6	9.32E+09	62	5.37E+06	944	0.	
8	1.30E+10	82	2.96E+06	1241	0.	TEMP (C)
10	9.27E+09	102	1.45E+06	1538	0.	-16.3
12	7.19E+09	122	6.44E+05	1835	0.	
14	6.81E+09	142	4.37E+05	2132	0.	FROSTPOINT
16	3.95E+09	161	1.44E+05	2429	0.	-18.6
18	4.12E+09	181	1.30E+05	2726	0.	
20	2.47E+09	201	9.97E+04	3023	0.	TAS (M/S)
22	1.86E+09	221	0.	3320	0.	133.2
24	1.44E+09	241	6.91E+04	3617	0.	
26	7.03E+08	260	2.99E+04	3914	0.	MT (N/M2)
28	3.79E+08	280	1.30E+04	4211	0.	520495.8
30	4.74E+08	300	1.16E+04	4508	0.	
						TOTALS
LWC	1.93E-01		1.23E-01		4.25E-02	1.65E-01
MED D	19		199		404	149

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:21:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 19 PSI H2O FLOW RATE# 15 GPM DISTANCE# 200 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	8.82E+08	23	7.2JE+07	404	7.42E+03	ALT (KM)
4	2.65E+09	43	2.61E+07	647	0.	4.861
6	9.31E+09	62	1.32E+07	944	0.	
8	1.13E+10	82	5.31E+06	1241	0.	TEMP (C)
10	8.12E+09	102	2.35E+06	1538	0.	-16.3
12	5.78E+09	122	1.03E+06	1835	0.	
14	4.85E+09	142	5.25E+05	2132	0.	FROSTPOINT
16	3.36E+09	161	2.17E+05	2429	0.	-18.7
18	3.32E+09	181	1.34E+05	2726	0.	
20	2.43E+09	201	5.57E+04	3023	0.	TAS (M/S)
22	1.65E+09	221	0.	3320	0.	132.8
24	9.79E+08	241	6.93E+04	3617	0.	
26	6.82E+08	260	3.21E+04	3914	0.	MT (N/M3)
28	5.03E+08	280	1.48E+04	4211	0.	98?014.3
30	5.56E+08	300	1.33E+04	4508	0.	
						TOTALS
LWC	1.72E-01		2.11E-01		4.88E-02	2.58E-01
MED D	19		97		404	116

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:21:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 15 GPM DISTANCE# 230 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 556.1
2	7.39E+08	23	7.51E+07	404	7.43E+03	ALT (KM)
4	2.32E+09	43	2.47E+07	647	0.	4.851
6	8.95E+09	62	1.35E+07	944	0.	
8	1.21E+10	82	4.79E+06	1241	0.	TEMP (C)
10	9.37E+09	102	2.31E+06	1538	0.	-16.3
12	6.75E+09	122	7.9JE+05	1835	0.	
14	5.40E+09	142	5.55E+05	2132	0.	FROSTPOINT
16	3.97E+09	161	1.93E+05	2429	0.	-18.7
18	4.31E+09	181	1.38E+05	2726	0.	
20	2.64E+09	201	2.94E+04	3023	0.	TAS (M/S)
22	1.70E+09	221	0.	3320	0.	132.6
24	1.13E+09	241	3.47E+04	3617	0.	
26	6.55E+08	260	2.27E+04	3914	0.	MT (N/M?)
28	3.38E+08	280	1.49E+04	4211	0.	924463.3
30	4.48E+08	300	1.33E+04	4508	0.	
						TOTALS
LWC	1.85E-01		1.34E-01		4.89E-02	2.29E-01
MED D	19		94		404	113

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:21:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 19 PSI H2O FLOW RATE# 15 GPM DISTANCE# 230 FT CAL FACTOR# 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	5.87E+08	23	1.53E+07	404	6.51E+03	ALT (KM)
4	2.28E+09	43	2.36E+07	647	0.	4.864
6	8.03E+09	62	1.03E+07	944	0.	
8	9.39E+09	82	4.75E+06	1241	0.	TEMP (C)
10	6.33E+09	102	1.35E+06	1538	0.	-16.3
12	4.67E+09	122	1.26E+06	1835	0.	
14	3.53E+09	142	3.50E+05	2132	0.	FROSTPOINT
16	2.60E+09	161	2.17E+05	2429	0.	-18.7
18	2.93E+09	181	1.36E+05	2726	0.	
20	1.82E+09	201	2.84E+04	3023	0.	TAS (M/S)
22	1.38E+09	221	1.25E+05	3320	0.	132.6
24	7.59E+08	241	7.47E+04	3617	0.	
26	5.97E+08	260	2.13E+04	3914	0.	MT (N/M3)
28	1.93E+08	280	1.34E+04	4211	0.	769638.2
30	3.18E+08	300	1.17E+04	4508	0.	
						TOTALS
LWC	1.33E-01		1.73E-01		4.28E-02	2.16E-01
MED D	19		112		404	129

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:21:50@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 200 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	5.11E+08	23	3.31E+07	404	1.40E+04	ALT (KM)
4	1.74E+09	43	2.11E+07	647	0.	4.866
6	6.55E+09	62	9.42E+06	944	0.	
8	7.41E+09	82	3.47E+06	1241	0.	TEMP (C)
10	5.59E+09	102	1.91E+06	1538	0.	-16.2
12	3.93E+09	122	9.57E+05	1835	0.	
14	3.21E+09	142	4.10E+05	2132	0.	FROSTPOINT
16	2.47E+09	161	1.93E+05	2429	0.	-18.7
18	2.17E+09	181	1.30E+05	2726	0.	
20	1.35E+09	201	2.94E+04	3023	0.	TAS (M/S)
22	1.04E+09	221	7.13E+04	3320	0.	132.4
24	5.73E+08	241	3.47E+04	3617	0.	
26	3.52E+08	260	3.11E+04	3914	0.	NT (N/M3)
28	2.07E+08	280	2.79E+04	4211	0.	749131.8
30	2.56E+08	300	2.50E+04	4508	0.	
						TOTALS
LWC	1.04E-01		1.54E-01		9.18E-32	2.56E-01
MED D	18		107		444	176

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:21:52@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 200 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	4.92E+08	23	3.22E+07	404	0.	ALT (KM)
4	1.95E+09	43	2.52E+07	647	0.	4.866
6	7.05E+09	62	1.13E+07	944	0.	
8	8.47E+09	82	5.55E+06	1241	0.	TEMP (C)
10	5.92E+09	102	3.37E+06	1538	0.	-16.2
12	4.23E+09	122	9.59E+05	1835	0.	
14	3.41E+09	142	4.11E+05	2132	0.	FROSTPOINT
16	2.43E+09	161	1.21E+05	2429	0.	-18.7
18	2.29E+09	181	1.94E+05	2726	0.	
20	1.45E+09	201	2.95E+04	3023	0.	TAS (M/S)
22	1.08E+09	221	0.	3320	0.	132.1
24	6.37E+08	241	6.37E+04	3617	0.	
26	3.33E+08	260	0.	3914	0.	NT (N/M3)
28	1.11E+08	280	0.	4211	0.	953415.4
30	1.73E+08	300	0.	4508	0.	
						TOTALS
LWC	1.03E-01		1.91E-01		0.	1.01E-01
MED D	18		93		0	93

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:21:54@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 200 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	5.33E+08	23	3.32E+07	404	3.56E+00	ALT (KM)
4	1.41E+09	43	2.41E+07	647	1.53E+01	4.864
6	6.47E+09	62	8.59E+06	944	0.	
8	7.69E+09	82	4.51E+06	1241	0.	TEMP (C)
10	5.51E+09	102	2.26E+06	1538	0.	-16.2
12	4.05E+09	122	9.59E+05	1835	0.	
14	3.43E+09	142	5.16E+05	2132	0.	FROSTPOINT
16	2.39E+09	161	1.93E+05	2429	0.	-18.7
18	2.37E+09	181	1.93E+05	2726	0.	
20	1.34E+09	201	0.	3023	0.	TAS (M/S)
22	9.56E+08	221	6.27E+04	3320	0.	132.1
24	6.65E+08	241	3.48E+04	3617	0.	
26	3.32E+08	260	0.	3914	0.	NT (N/M3)
28	1.73E+08	280	0.	4211	0.	823908.5
30	2.22E+08	300	0.	4508	0.	
						TOTALS
LWC	1.04E-01		1.57E-01		7.11E-34	1.68E-01
MED D	18		108		633	181

SAMPLE# 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:21:56@
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 200 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.83E+08	23	3.52E+07	404	5.53E+13	ALT (KM)
4	2.29E+09	43	2.61E+07	647	0.	4.864
6	7.78E+09	62	1.08E+07	944	0.	
8	9.58E+09	82	4.59E+06	1241	0.	TEMP (C)
10	6.99E+09	102	2.36E+06	1538	0.	-16.2
12	4.77E+09	122	1.27E+06	1835	0.	
14	3.91E+09	142	5.97E+05	2132	0.	FROSTPOINT
16	2.73E+09	161	2.42E+05	2429	0.	-18.7
18	2.84E+09	181	7.93E+04	2726	0.	
20	1.87E+09	201	2.28E+05	3023	0.	TAS (M/S)
22	1.31E+09	221	6.27E+04	3320	0.	132.1
24	7.62E+08	241	0.	3617	0.	
26	5.68E+08	260	6.53E+03	3914	0.	NT (N/M3)
28	2.91E+08	280	1.31E+04	4211	0.	879214.4
30	4.16E+08	300	1.17E+04	4508	0.	
						TOTALS
LWC	1.37E-01		1.96E-01		4.29E-02	2.39E-01
MED D	19		107		484	124

SAMPLE: 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:21:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 200 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	6.37E+08	23	2.31E+07	404	0.	ALT (KM)
4	1.45E+09	43	1.51E+07	647	0.	4.863
6	7.56E+09	62	9.94E+06	944	0.	
8	9.62E+09	82	3.11E+06	1241	0.	TEMP (C)
10	7.41E+09	102	1.56E+06	1538	0.	-16.2
12	5.45E+09	122	8.20E+05	1835	0.	
14	4.45E+09	142	3.91E+05	2132	0.	FROSTPOINT
16	3.10E+09	161	1.45E+05	2429	0.	-18.7
18	3.01E+09	181	1.37E+05	2726	0.	
20	1.94E+09	201	1.14E+05	3023	0.	TAS (M/S)
22	1.36E+09	221	0.	3320	0.	132.1
24	7.91E+08	241	0.	3617	0.	
25	4.51E+08	260	0.	3914	0.	NT (N/M3)
28	2.91E+08	280	0.	4211	0.	540757.4
30	2.77E+08	300	0.	4508	0.	
						TOTALS
LWC	1.39E-01		1.20E-01		0.	1.28E-01
MED D	18		104		0	104

SAMPLE: 22A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:23:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	8.43E+08	23	6.27E+07	404	3.26E+03	ALT (KM)
4	2.03E+09	43	3.38E+07	647	1.52E+01	4.859
6	6.91E+09	62	2.06E+07	944	0.	
8	1.17E+10	82	9.35E+06	1241	0.	TEMP (C)
10	1.03E+10	102	5.77E+06	1538	0.	-15.8
12	7.88E+09	122	2.32E+06	1835	0.	
14	6.49E+09	142	1.02E+06	2132	0.	FROSTPOINT
16	4.92E+09	161	4.78E+05	2429	0.	-16.7
18	5.57E+09	181	2.07E+05	2726	0.	
20	3.99E+09	201	3.10E+05	3023	0.	TAS (M/S)
22	3.18E+09	221	9.38E+04	3320	0.	133.6
24	2.16E+09	241	0.	3617	0.	
26	1.49E+09	260	2.46E+04	3914	0.	NT (N/M3)
28	7.53E+08	280	4.32E+04	4211	0.	1598301.7
30	9.18E+08	300	3.19E+04	4508	0.	
						TOTALS
LWC	2.92E-01		9.99E-01		2.21E-02	4.18E-01
MED D	20		105		497	108

SAMPLE: 21 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:21:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 200 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	9.63E+08	23	1.51E+07	404	9.59E+00	ALT (KM)
4	2.27E+09	43	1.25E+07	647	1.53E+01	4.861
6	8.10E+09	62	5.72E+06	944	0.	
8	1.12E+10	82	2.81E+06	1241	0.	TEMP (C)
10	8.15E+09	102	1.56E+06	1538	0.	-16.2
12	6.30E+09	122	8.36E+05	1835	0.	
14	5.24E+09	142	3.92E+05	2132	0.	FROSTPOINT
15	3.46E+09	161	2.42E+04	2429	0.	-18.7
18	4.01E+09	181	1.31E+05	2726	0.	
20	2.36E+09	201	4.56E+04	3023	0.	TAS (M/S)
22	1.91E+09	221	0.	3320	0.	131.9
24	9.71E+08	241	6.97E+04	3617	0.	
26	6.86E+08	260	0.	3914	0.	NT (N/M3)
28	3.47E+08	280	0.	4211	0.	479267.8
30	4.09E+08	300	0.	4508	0.	
						TOTALS
LWC	1.74E-01		1.17E-01		7.12E-04	1.18E-01
MED D	19		108		633	108

SAMPLE: 22A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:23:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 200 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	8.66E+08	23	6.18E+07	404	1.85E+03	ALT (KM)
4	2.32E+09	43	4.34E+07	647	3.04E+01	4.861
6	7.01E+09	62	2.57E+07	944	0.	
8	1.11E+10	82	1.25E+07	1241	0.	TEMP (C)
10	9.82E+09	102	6.04E+06	1538	0.	-16.8
12	7.21E+09	122	2.59E+06	1835	0.	
14	5.89E+09	142	1.28E+06	2132	0.	FROSTPOINT
16	4.56E+09	161	6.96E+05	2429	0.	-16.7
18	4.50E+09	181	4.56E+05	2726	0.	
20	3.37E+09	201	1.98E+05	3023	0.	TAS (M/S)
22	2.69E+09	221	9.32E+04	3320	0.	133.2
24	2.11E+09	241	3.45E+04	3617	0.	
26	1.23E+09	260	2.26E+04	3914	0.	NT (N/M3)
28	7.76E+08	280	1.48E+04	4211	0.	1961202.8
30	7.42E+08	300	1.16E+04	4508	0.	
						TOTALS
LWC	2.50E-01		4.51E-01		1.34E-02	4.63E-01
MED D	20		102		415	104

SAMPLE# 22A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	7.56E+08	23	6.29E+07	404	2.97E+13	ALT (KM)
4	2.25E+09	43	5.34E+07	647	1.52E+11	4.853
6	7.26E+09	62	2.48E+07	944	0.	
8	1.07E+10	82	1.28E+07	1241	0.	TEMP (C)
10	9.44E+09	102	5.79E+06	1538	0.	-16.1
12	6.89E+09	122	2.72E+06	1835	0.	
14	5.03E+09	142	1.11E+06	2132	0.	FROSTPOINT
16	4.01E+09	161	5.20E+05	2429	0.	-16.7
18	4.74E+09	181	2.33E+05	2726	0.	
20	3.15E+09	201	1.13E+05	3023	0.	TAS (M/S)
22	2.93E+09	221	1.57E+05	3320	0.	133.1
24	1.74E+09	241	1.34E+05	3617	0.	
26	1.71E+09	260	6.54E+04	3914	0.	NT (N/M3)
28	5.29E+08	280	4.26E+04	4211	0.	1952812.5
30	6.94E+08	300	2.78E+04	4508	0.	
						TOTALS
LWC	2.37E-01		4.48E-01		2.02E-02	4.68E-01
MED D	20		103		408	107

SAMPLE# 22A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:15*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	6.59E+08	23	5.88E+07	404	2.79E+13	ALT (KM)
4	2.23E+09	43	5.14E+07	647	1.52E+11	4.864
6	7.16E+09	62	3.34E+07	944	0.	
8	1.07E+10	82	1.35E+07	1241	0.	TEMP (C)
10	8.24E+09	102	6.43E+06	1538	0.	-16.2
12	6.01E+09	122	3.59E+06	1835	0.	
14	4.68E+09	142	1.53E+06	2132	0.	FROSTPOINT
16	3.55E+09	161	7.19E+05	2429	0.	-16.7
18	3.85E+09	181	3.88E+05	2726	0.	
20	2.70E+09	201	1.41E+05	3023	0.	TAS (M/S)
22	2.23E+09	221	1.55E+05	3320	0.	133.3
24	1.52E+09	241	8.34E+04	3617	0.	
26	9.41E+08	260	5.18E+04	3914	0.	NT (N/M3)
28	4.74E+08	280	3.98E+04	4211	0.	2149312.1
30	5.43E+08	300	2.55E+04	4508	0.	
						TOTALS
LWC	1.98E-01		5.19E-01		1.90E-02	5.38E-01
MED D	20		106		408	106

SAMPLE# 22A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	3.41E+08	23	3.77E+07	404	5.46E+13	ALT (KM)
4	2.45E+09	43	6.39E+07	647	4.56E+11	4.851
6	7.79E+09	62	3.62E+07	944	0.	
8	1.15E+10	82	1.34E+07	1241	0.	TEMP (C)
10	9.34E+09	102	6.14E+06	1538	0.	-16.2
12	6.48E+09	122	3.59E+06	1835	0.	
14	5.72E+09	142	1.74E+06	2132	0.	FROSTPOINT
16	4.23E+09	161	7.47E+05	2429	0.	-16.7
18	4.64E+09	181	3.37E+05	2726	0.	
20	3.18E+09	201	2.26E+05	3023	0.	TAS (M/S)
22	2.79E+09	221	1.24E+05	3320	0.	133.3
24	1.53E+09	241	3.45E+04	3617	0.	
26	1.15E+09	260	4.64E+04	3914	0.	NT (N/M3)
28	5.42E+08	280	6.72E+04	4211	0.	2528542.8
30	7.98E+08	300	4.22E+04	4508	0.	
						TOTALS
LWC	2.31E-01		5.37E-01		3.78E-02	6.31E-01
MED D	20		102		410	106

SAMPLE# 22A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	7.57E+08	23	7.44E+07	404	3.61E+13	ALT (KM)
4	2.18E+09	43	5.39E+07	647	3.94E+11	4.863
6	6.77E+09	62	2.39E+07	944	0.	
8	9.56E+09	82	1.45E+07	1241	0.	TEMP (C)
10	7.83E+09	102	7.15E+06	1538	0.	-16.2
12	5.63E+09	122	3.52E+06	1835	0.	
14	4.81E+09	142	1.54E+06	2132	0.	FROSTPOINT
16	3.81E+09	161	7.59E+05	2429	0.	-16.7
18	4.05E+09	181	3.11E+05	2726	0.	
20	2.68E+09	201	3.40E+05	3023	0.	TAS (M/S)
22	2.36E+09	221	1.37E+05	3320	0.	133.0
24	1.48E+09	241	6.92E+04	3617	0.	
26	9.22E+08	260	5.81E+04	3914	0.	NT (N/M3)
28	4.13E+08	280	4.38E+04	4211	0.	2222685.1
30	5.43E+08	300	2.77E+04	4508	0.	
						TOTALS
LWC	1.96E-01		5.58E-01		2.58E-02	5.75E-01
MED D	20		107		410	110

SAMPLE: 22A AFFTC ICING SPRAY TEST BY AFGL

FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING

INTERVAL START: 21:23:28

PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)

TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 200 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	7.88E+08	23	5.22E+07	404	2.47E+03	ALT (KM)
4	2.01E+09	43	3.41E+07	647	1.53E+01	4.861
6	6.73E+09	62	1.76E+07	944	0.	
8	1.08E+10	82	5.53E+06	1241	0.	TEMP (C)
10	8.31E+09	102	4.15E+06	1538	0.	-16.2
12	6.85E+09	122	2.74E+06	1835	0.	
14	5.06E+09	142	1.32E+06	2132	0.	FROSTPOINT
16	4.20E+09	161	3.52E+05	2429	0.	-16.7
18	4.43E+09	181	2.60E+05	2726	0.	
20	3.67E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	2.32E+09	221	1.56E+05	3320	0.	132.5
24	1.65E+09	241	3.47E+04	3617	0.	
26	1.17E+09	260	3.35E+04	3914	0.	NT (N/M3)
28	4.42E+08	280	7.22E+04	4211	0.	1285062.9
30	6.01E+08	300	7.14E+04	4508	0.	
						TOTALS
LWC	2.15E-01		3.19E-01		1.69E-02	3.76E-01
MED D	20		113		408	117

SAMPLE: 22B AFFTC ICING SPRAY TEST BY AFGL

FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING

INTERVAL START: 21:23:25

PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)

TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 200 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.0
2	5.26E+08	23	4.72E+07	404	3.14E+04	ALT (KM)
4	2.08E+09	43	3.52E+07	647	0.	4.863
6	5.49E+09	62	1.92E+07	944	0.	
8	9.37E+09	82	9.97E+06	1241	0.	TEMP (C)
10	8.41E+09	102	3.52E+06	1538	0.	-15.9
12	6.35E+09	122	2.27E+06	1835	0.	
14	5.51E+09	142	1.29E+06	2132	0.	FROSTPOINT
16	3.93E+09	161	2.56E+05	2429	0.	-16.6
18	4.64E+09	181	3.39E+05	2726	0.	
20	3.11E+09	201	8.54E+04	3023	0.	TAS (M/S)
22	2.67E+09	221	9.19E+04	3320	0.	132.2
24	1.63E+09	241	6.95E+04	3617	0.	
26	1.25E+09	261	6.51E+04	3914	0.	NT (N/M3)
28	5.54E+08	280	6.27E+04	4211	0.	1482831.9
30	7.75E+08	300	5.52E+04	4508	0.	
						TOTALS
LWC	2.29E-01		3.50E-01		2.06E-01	5.67E-01
MED D	20		114		404	185

SAMPLE: 22A AFFTC ICING SPRAY TEST BY AFGL

FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING

INTERVAL START: 21:23:21

PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)

TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 200 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	7.59E+08	23	5.31E+07	404	8.67E+03	ALT (KM)
4	2.34E+09	43	1.93E+07	647	0.	4.864
6	6.62E+09	62	1.09E+07	944	0.	
8	1.17E+10	82	5.16E+06	1241	0.	TEMP (C)
10	9.79E+09	102	2.41E+06	1538	0.	-16.2
12	7.29E+09	122	1.34E+06	1835	0.	
14	6.33E+09	142	7.56E+05	2132	0.	FROSTPOINT
16	4.78E+09	161	2.39E+05	2429	0.	-16.6
18	5.24E+09	181	1.34E+05	2726	0.	
20	3.39E+09	201	5.56E+04	3023	0.	TAS (M/S)
22	3.00F+09	221	3.12E+04	3320	0.	132.6
24	1.97E+09	241	3.47E+04	3617	0.	
26	1.58E+09	260	2.45E+04	3914	0.	NT (N/M3)
28	6.21E+08	280	1.73E+04	4211	0.	795367.9
30	8.76E+08	300	1.55E+04	4508	0.	
						TOTALS
LWC	2.63E-01		1.35E-01		5.78E-02	2.52E-01
MED D	20		105		494	171

SAMPLE: 22B AFFTC ICING SPRAY TEST BY AFGL

FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING

INTERVAL START: 21:23:25

PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)

TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 200 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.1
2	7.29E+08	23	4.74E+07	404	1.40E+04	ALT (KM)
4	2.29E+09	43	3.74E+07	647	0.	4.861
6	6.33E+09	62	1.93E+07	944	0.	
8	1.09E+10	82	7.93E+06	1241	0.	TEMP (C)
10	1.05E+10	102	5.13E+06	1538	0.	-16.8
12	8.43E+09	122	2.17E+06	1835	0.	
14	6.75E+09	142	7.34E+05	2132	0.	FROSTPOINT
16	5.43E+09	161	5.19E+05	2429	0.	-16.6
18	5.34E+09	181	2.19E+05	2726	0.	
20	3.86E+09	201	2.80E+05	3023	0.	TAS (M/S)
22	3.35E+09	221	9.42E+04	3320	0.	131.8
24	2.21E+09	241	6.38E+04	3617	0.	
26	1.49E+09	260	4.62E+04	3914	0.	NT (N/M3)
28	8.47E+08	280	2.30E+04	4211	0.	1467345.2
30	8.54E+08	300	2.51E+04	4508	0.	
						TOTALS
LWC	2.87E-01		3.52E-01		9.22E-02	4.46E-01
MED D	20		106		404	126

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	7.54E+08	23	6.43E+07	404	0.	ALT (KM)
4	2.26E+09	43	5.16E+07	647	0.	4.859
6	6.91E+09	62	2.30E+07	944	0.	
8	1.11E+10	82	1.22E+07	1241	0.	TEMP (C)
10	8.33E+09	102	5.88E+06	1538	0.	-16.2
12	6.98E+09	122	3.28E+06	1835	0.	
14	6.88E+09	142	1.51E+06	2132	0.	FROSTPOINT
16	4.68E+09	161	7.25E+05	2429	0.	-16.6
18	4.82E+09	181	2.35E+05	2726	0.	
20	3.41E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	2.47E+09	221	1.38E+05	3320	0.	132.2
24	1.74E+09	241	1.04E+05	3617	0.	
26	1.27E+09	261	0.	3914	0.	NT (N/M3)
28	5.54E+08	281	0.	4211	0.	2774203.2
30	7.96E+08	300	0.	4508	0.	
						TOTALS
LWC	2.38E-01		4.73E-01		0.	4.73E-01
MED D	20		104		0	104

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 19 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	1.31E+08	23	2.51E+07	404	1.05E+04	ALT (KM)
4	5.45E+08	43	2.01E+07	647	0.	4.860
6	2.45E+09	62	1.21E+07	944	0.	
8	2.43E+09	82	5.08E+06	1241	0.	TEMP (C)
10	1.99E+09	102	1.30E+06	1538	0.	-16.2
12	1.41E+09	122	7.15E+05	1835	0.	
14	9.51E+08	142	4.96E+05	2132	0.	FROSTPOINT
16	7.72E+08	161	2.17E+05	2429	0.	-16.6
18	6.69E+08	181	1.56E+05	2726	0.	
20	5.72E+08	201	2.84E+04	3023	0.	TAS (M/S)
22	4.27E+08	221	0.	3320	0.	132.7
24	2.44E+08	241	3.47E+04	3617	0.	
26	1.03E+08	261	3.47E+04	3914	0.	NT (N/M3)
28	4.83E+07	281	3.47E+04	4211	0.	411831.8
30	3.45E+07	300	3.47E+04	4508	0.	
						TOTALS
LWC	3.47E-02		1.92E-01		1.39E-01	3.10E-01
MED D	19		102		404	245

SAMPLE# 229 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 17 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	5.85E+08	23	5.39E+07	404	3.12E+04	ALT (KM)
4	1.95E+09	43	3.44E+07	647	0.	4.857
6	6.67E+09	62	2.15E+07	944	0.	
8	8.72E+09	82	9.25E+06	1241	0.	TEMP (C)
10	6.65E+09	102	5.39E+06	1538	0.	-16.2
12	4.92E+09	122	2.74E+06	1835	0.	
14	4.17E+09	142	1.46E+06	2132	0.	FROSTPOINT
16	3.22E+09	161	3.94E+05	2429	0.	-16.6
18	3.32E+09	181	4.41E+05	2726	0.	
20	2.23E+09	201	8.49E+04	3023	0.	TAS (M/S)
22	2.86E+09	221	9.37E+04	3320	0.	133.0
24	1.13E+09	241	6.31E+04	3617	0.	
26	7.01E+08	261	6.57E+04	3914	0.	NT (N/M3)
28	4.54E+08	281	6.24E+04	4211	0.	1514551.3
30	4.19E+08	300	5.58E+04	4508	0.	
						TOTALS
LWC	1.65E-01		4.18E-01		2.05E-01	6.23E-01
MED D	28		112		404	160

SAMPLE# 229 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:23:30*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 17 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.73E+08	23	5.44E+07	404	1.52E+04	ALT (KM)
4	5.13E+08	43	4.32E+07	647	0.	4.864
6	2.48E+09	62	2.08E+07	944	0.	
8	3.02E+09	82	1.17E+07	1241	0.	TEMP (C)
10	2.30E+09	102	4.48E+06	1538	0.	-16.1
12	1.37E+09	122	2.28E+06	1835	0.	
14	1.26E+09	142	1.17E+06	2132	0.	FROSTPOINT
16	1.63E+09	161	4.12E+05	2429	0.	-16.6
18	8.94E+08	181	3.66E+05	2726	0.	
20	6.59E+08	201	2.28E+05	3023	0.	TAS (M/S)
22	4.44E+08	221	6.27E+04	3320	0.	132.8
24	3.40E+08	241	6.37E+04	3617	0.	
26	1.46E+08	261	4.51E+04	3914	0.	NT (N/M3)
28	7.63E+07	281	3.19E+04	4211	0.	1662852.5
30	7.63E+07	300	2.73E+04	4508	0.	
						TOTALS
LWC	4.36E-02		3.99E-01		1.01E-01	4.89E-01
MED D	19		105		404	128

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:23:31*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	7.58E+08	23	9.38E+07	404	3.79E+03	ALT (KM)
4	1.97E+09	43	4.99E+07	647	1.54E+01	4.861
6	7.05E+08	62	2.73E+07	944	0.	
8	1.03E+10	82	1.48E+07	1241	0.	TEMP (C)
10	8.24E+09	102	7.57E+06	1538	0.	-16.1
12	5.79E+09	122	3.37E+06	1835	0.	
14	4.54E+09	142	1.55E+06	2132	0.	FROSTPOINT
16	3.65E+09	161	9.49E+05	2429	0.	-16.6
18	3.73E+09	181	4.45E+05	2726	0.	
20	2.59E+09	201	2.00E+05	3023	0.	TAS (M/S)
22	2.15E+09	221	8.20E+05	3320	0.	131.6
24	1.28E+09	241	0.	3617	0.	
26	9.57E+08	260	3.16E+04	3914	0.	NT (N/M3)
28	4.93E+08	291	6.11E+04	4211	0.	2108399.1
30	6.53E+08	330	3.32E+04	4508	0.	
						TOTALS
LWC	1.94E-01		5.66E-01		2.55E-12	5.72E-01
MED D	26		107		407	110

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:23:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	8.27E+08	23	7.58E+07	404	2.99E+03	ALT (KM)
4	2.65E+09	43	4.49E+07	647	3.08E+01	4.860
6	6.96E+08	62	2.57E+07	944	0.	
8	1.13E+10	82	1.08E+07	1241	0.	TEMP (C)
10	9.65E+09	102	5.36E+06	1538	0.	-16.3
12	7.19E+09	122	2.51E+06	1835	0.	
14	6.27E+09	142	1.06E+06	2132	0.	FROSTPOINT
16	4.39E+09	161	6.56E+05	2429	0.	-16.5
18	5.22E+09	181	2.1[illegible]E+05	2726	0.	
20	3.44E+09	201	2.57E+05	3023	0.	TAS (M/S)
22	2.85E+09	221	1.49E+05	3320	0.	131.6
24	1.91E+09	241	1.[illegible]E+05	3617	0.	
26	1.43E+09	261	6.54E+04	3914	0.	NT (N/M3)
28	6.54E+08	281	3.16E+04	4211	0.	1871748.4
30	8.04E+08	300	2.11E+04	4508	0.	
						TOTALS
LWC	2.60E-01		4.33E-01		2.10E-12	4.74E-01
MED D	28		107		411	110

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:23:32*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	7.36E+08	23	8.47E+07	404	2.95E+03	ALT (KM)
4	2.12E+09	43	4.48E+07	647	3.07E+01	4.861
6	6.57E+08	62	2.58E+07	944	0.	
8	1.07E+10	82	1.08E+07	1241	0.	TEMP (C)
10	9.07E+09	102	5.52E+06	1538	0.	-16.2
12	6.66E+09	122	2.16E+06	1835	0.	
14	5.84E+09	142	1.51E+06	2132	0.	FROSTPOINT
16	4.52E+09	161	8.24E+05	2429	0.	-16.6
18	4.81E+09	181	2.99E+05	2726	0.	
20	3.33E+09	201	3.14E+05	3023	0.	TAS (M/S)
22	2.83E+09	221	1.26E+05	3320	0.	131.6
24	1.99E+09	241	0.	3617	0.	
26	1.51E+09	260	1.50E+04	3914	0.	NT (N/M3)
28	6.32E+08	290	2.39E+04	4211	0.	1[illegible]44980.8
30	8.54E+08	330	2.17E+04	4508	0.	
						TOTALS
LWC	2.53E-01		4.55E-01		2.07E-12	4.76E-01
MED D	21		188		411	111

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:23:34*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	9.11E+08	23	5.05E+07	404	2.92E+03	ALT (KM)
4	2.11E+09	43	3.35E+07	647	1.54E+01	4.859
6	6.44E+08	62	1.90E+07	944	0.	
8	1.16E+10	82	6.24E+06	1241	0.	TEMP (C)
10	1.46E+10	102	4.04E+06	1538	0.	-16.4
12	7.91E+09	122	1.98E+06	1835	0.	
14	7.08E+09	142	7.36E+05	2132	0.	FROSTPOINT
16	5.22E+09	161	3.16E+05	2429	0.	-16.5
18	5.78E+09	181	2.98E+05	2726	0.	
20	3.88E+09	201	8.38E+04	3023	0.	TAS (M/S)
22	3.45E+09	221	1.26E+05	3320	0.	131.6
24	2.11E+09	241	3.50E+04	3617	0.	
26	1.65E+09	260	3.79E+04	3914	0.	NT (N/M3)
28	7.58E+08	280	4.12E+04	4211	0.	1299462.4
30	8.98E+08	310	2.73E+04	4508	0.	
						TOTALS
LWC	2.98E-01		3.89E-01		1.98E-12	3.25E-01
MED D	20		187		408	112

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:23:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	8.21E+08	23	6.16E+07	484	2.92E+03	ALT (KM)
4	2.41E+09	43	3.14E+07	647	1.54E+01	4.861
6	6.37E+08	62	1.38E+07	944	0.	
8	1.13E+10	82	7.31E+06	1241	0.	TEMP (C)
10	1.11E+10	102	3.64E+06	1538	0.	-16.4
12	8.07E+09	122	1.31E+06	1835	0.	
14	6.69E+09	142	8.84E+05	2132	0.	FROSTPOINT
16	5.14E+09	161	4.37E+05	2429	0.	-16.5
18	5.96E+09	181	3.41E+05	2726	0.	
20	3.85E+09	201	2.08E+05	3023	0.	TAS (M/S)
22	3.55E+09	221	9.44E+04	3320	0.	131.5
24	2.37E+09	241	..	3617	0.	
26	1.52E+09	260	2.16E+04	3914	0.	NT (N/M3)
28	8.88E+08	280	4.12E+04	4211	0.	1195117.2
30	9.88E+08	301	2.70E+04	4508	0.	
						TOTALS
LWC	2.97E-01		3.37E-01		1.98E-02	3.27E-01
MED D	21		111		468	116

SAMPLE# 229 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:23:37*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	8.38E+08	23	4.89E+07	484	0.	ALT (KM)
4	2.21E+09	43	2.27E+07	647	0.	4.859
6	6.79E+08	62	1.36E+07	944	0.	
8	1.07E+10	82	5.44E+06	1241	0.	TEMP (C)
10	9.31E+09	102	2.74E+06	1538	0.	-16.7
12	6.88E+09	122	2.36E+06	1835	0.	
14	6.26E+09	142	6.79E+05	2132	0.	FROSTPOINT
16	4.54E+09	161	3.65E+05	2429	0.	-16.9
18	4.73E+09	181	2.10E+05	2726	0.	
20	3.63E+09	201	8.68E+04	3023	0.	TAS (M/S)
22	3.28E+09	221	6.71E+04	3320	0.	131.2
24	2.88E+09	241	7.81E+04	3617	0.	
26	1.81E+09	260	..	3914	0.	NT (N/M3)
28	5.86E+08	280	0.	4211	0.	956341.3
30	7.34E+08	301	0.	4508	0.	
						TOTALS
LWC	2.53E-01		2.41E-01		0.	2.41E-01
MED D	20		111		0	111

SAMPLE# 229 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:23:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 17 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	7.84E+08	23	3.44E+07	484	0.	ALT (KM)
4	2.15E+09	43	2.36E+07	647	0.	4.857
6	6.51E+08	62	1.09E+07	944	0.	
8	1.08E+10	82	6.33E+06	1241	0.	TEMP (C)
10	9.67E+09	102	3.29E+06	1538	0.	-16.4
12	6.74E+09	122	1.43E+06	1835	0.	
14	6.02E+09	142	6.30E+05	2132	0.	FROSTPOINT
16	4.98E+09	161	3.61E+05	2429	0.	-16.5
18	4.69E+09	181	1.34E+05	2726	0.	
20	3.61E+09	201	5.74E+04	3023	0.	TAS (M/S)
22	2.99E+09	221	6.31E+04	3320	0.	131.2
24	1.87E+09	241	7.01E+04	3617	0.	
26	1.32E+09	261	0.	3914	0.	NT (N/M3)
28	4.46E+08	280	0.	4211	0.	1027228.5
30	7.18E+08	301	0.	4508	0.	
						TOTALS
LWC	2.45E-01		2.29E-01		0.	2.29E-01
MED D	20		102		0	102

SAMPLE# 229 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:23:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 17 PSI H2O FLOW RATE# 25 GPM DISTANCE# 200 FT CAL FACTOR# 10.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	7.61E+08	23	4.82E+07	484	2.30E+03	ALT (KM)
4	1.94E+09	43	3.44E+07	647	1.53E+01	4.860
6	6.13E+08	62	1.56E+07	944	0.	
8	1.05E+10	82	7.76E+06	1241	0.	TEMP (C)
10	9.15E+09	102	5.17E+06	1538	0.	-16.3
12	6.98E+09	122	2.38E+06	1835	0.	
14	5.52E+09	142	7.51E+05	2132	0.	FROSTPOINT
16	4.68E+09	161	5.31E+05	2429	0.	-16.9
18	4.07E+09	181	2.51E+05	2726	0.	
20	3.30E+09	201	1.14E+05	3023	0.	TAS (M/S)
22	3.04E+09	221	1.56E+05	3320	0.	132.3
24	1.75E+09	241	3.40E+04	3617	0.	
26	1.89E+09	260	3.25E+04	3914	0.	NT (N/M3)
28	6.22E+08	280	3.84E+04	4211	0.	1391587.0
30	6.78E+08	301	2.13E+04	4508	0.	
						TOTALS
LWC	2.40E-01		3.48E-01		1.63E-02	3.57E-01
MED D	20		108		468	111

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:23:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPH DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	6.45E+08	23	6.77E+07	404	7.11E+03	ALT (KM)
4	2.24E+09	43	7.18E+07	647	1.53E+01	4.859
6	6.43E+09	62	1.93E+07	944	0.	
8	1.02E+10	82	8.93E+06	1241	0.	TEMP (C)
10	8.37E+09	102	5.14E+06	1538	0.	-16.7
12	6.66E+09	122	2.20E+06	1835	0.	
14	5.41E+09	142	1.33E+06	2132	0.	FROSTPOINT
16	3.88E+09	161	4.35E+05	2429	0.	-16.5
18	4.74E+09	181	2.35E+05	2726	0.	
20	3.19E+09	201	9.56E+04	3023	0.	TAS (M/S)
22	2.72E+09	221	6.27E+04	3320	0.	171.9
24	1.69E+09	241	1.15E+04	3617	0.	
26	1.26E+09	261	6.93E+04	3914	0.	NT (N/MT)
28	6.52E+08	281	4.54E+04	4211	0.	1784701.1
30	8.53E+08	301	2.96E+04	4508	0.	
						TOTALS
LWC	2.37E-01		3.75E-01		2.11E-02	3.96E-01
MED D	21		110		458	115

SAMPLE# 228 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:23:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 25 GPH DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	5.15E+08	23	6.17E+07	404	1.43E+03	ALT (KM)
4	1.59E+09	43	4.70E+07	647	1.54E+01	4.857
6	5.20E+09	62	1.51E+07	944	0.	
8	7.16E+09	82	8.33E+06	1241	0.	TEMP (C)
10	5.89E+09	102	5.36E+06	1538	0.	-16.2
12	4.05E+09	122	2.25E+06	1835	0.	
14	3.33E+09	142	9.35E+05	2132	0.	FROSTPOINT
16	2.58E+09	161	4.62E+05	2429	0.	-16.4
18	2.83E+09	181	1.31E+05	2726	0.	
20	2.01E+09	201	1.72E+05	3023	0.	TAS (M/S)
22	1.42E+09	221	3.45E+04	3320	0.	171.5
24	9.95E+08	241	7.10E+04	3617	0.	
26	5.92E+08	261	3.24E+04	3914	0.	NT (N/MT)
28	3.31E+08	281	1.50E+04	4211	0.	1539694.5
30	3.34E+08	301	1.45E+04	4508	0.	
						TOTALS
LWC	1.32E-01		3.33E-01		1.05E-02	3.44E-01
MED D	19		102		441	104

SAMPLE# 229 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:23:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 25 GPH DISTANCE# 200 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	2.39E+08	23	6.34E+07	404	3.67E+03	ALT (KM)
4	1.64E+09	43	3.50E+07	647	1.53E+01	4.857
6	4.80E+09	62	2.01E+07	944	0.	
8	7.54E+09	82	8.51E+06	1241	0.	TEMP (C)
10	6.33E+09	102	4.38E+06	1538	0.	-16.3
12	4.61E+09	122	2.09E+06	1835	0.	
14	3.34E+09	142	7.34E+05	2132	0.	FROSTPOINT
16	3.04E+09	161	3.39E+05	2429	0.	-16.4
18	3.35E+09	181	2.09E+05	2726	0.	
20	2.36E+09	201	1.14E+05	3023	0.	TAS (M/S)
22	2.08E+09	221	1.57E+05	3320	0.	132.1
24	1.21E+09	241	1.04E+05	3617	0.	
26	7.76E+08	261	7.82E+04	3914	0.	NT (N/MT)
28	4.82E+08	281	5.55E+04	4211	0.	1455164.0
30	4.33E+08	301	3.76E+04	4508	0.	
						TOTALS
LWC	1.63E-01		3.56E-01		2.48E-02	3.91E-01
MED D	20		107		407	112

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:07
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	1.45E+09	23	5.35E+07	404	4.35E+03	ALT (KM)
4	3.72E+09	43	4.73E+07	647	1.51E+01	4.859
6	9.38E+09	62	2.65E+07	944	0.	
8	1.42E+10	82	1.12E+07	1241	0.	TEMP (C)
10	1.22E+10	102	5.11E+06	1538	0.	-16.0
12	8.12E+09	122	3.33E+06	1835	0.	
14	6.84E+09	142	1.27E+06	2132	0.	FROSTPOINT
16	4.89E+09	161	9.9CE+05	2429	0.	-16.7
18	4.82E+09	181	5.9CE+05	2726	0.	
20	3.71E+09	201	3.29E+05	3023	0.	TAS (M/S)
22	3.24E+09	221	1.65E+05	3320	0.	134.0
24	2.27E+09	241	3.43E+04	3617	0.	
26	1.77E+09	260	5.54E+04	3914	0.	NT (N/M3)
28	1.81E+09	280	8.95E+04	4211	0.	1321807.8
30	1.22E+09	300	5.52E+04	4508	0.	
						TOTALS
LWC	3.03E-01		5.24E-01		3.25E-02	5.52E-01
MED D	21		118		406	123

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:03
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) >50.4
2	1.21E+09	23	5.69E+07	404	5.24E+03	ALT (KM)
4	3.79E+09	43	5.98E+07	647	6.04E+01	4.857
6	1.85E+10	62	2.71E+07	944	0.	
8	1.32E+10	82	1.58E+07	1241	0.	TEMP (C)
10	1.17E+10	102	6.74E+06	1538	0.	-16.2
12	7.65E+09	122	4.37E+06	1835	0.	
14	6.21E+09	142	2.46E+06	2132	0.	FROSTPOINT
16	3.97E+09	161	1.12E+06	2429	0.	-16.7
18	4.43E+09	181	5.92E+05	2726	0.	
20	3.33E+09	201	2.81E+05	3023	0.	TAS (M/S)
22	2.78E+09	221	2.47E+05	3320	0.	134.9
24	1.98E+09	241	0.	3617	0.	
26	1.62E+09	260	3.31E+04	3914	0.	NT (N/M3)
28	7.24E+08	280	6.62E+04	4211	0.	2348611.6
30	1.08E+09	300	4.54E+04	4508	0.	
						TOTALS
LWC	2.64E-01		6.24E-01		4.35E-02	8.67E-01
MED D	21		113		418	121

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:03
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	1.23E+09	23	9.23E+07	404	5.25E+04	ALT (KM)
4	3.64E+09	43	5.38E+07	647	0.	4.859
6	9.86E+09	62	3.12E+07	944	0.	
8	1.41E+10	82	1.35E+07	1241	0.	TEMP (C)
10	1.17E+10	102	7.50E+06	1538	0.	-16.4
12	7.91E+09	122	4.38E+06	1835	0.	
14	6.49E+09	142	2.98E+06	2132	0.	FROSTPOINT
16	4.11E+09	161	8.59E+05	2429	0.	-16.7
18	4.33E+09	181	6.36E+05	2726	0.	
20	2.81E+09	201	3.34E+05	3023	0.	TAS (M/S)
22	2.57E+09	221	4.33E+05	3320	0.	134.9
24	1.96E+09	241	1.13E+05	3617	0.	
26	1.57E+09	260	1.16E+05	3914	0.	NT (N/M3)
28	7.31E+08	280	1.15E+05	4211	0.	2294921.7
30	1.01E+09	300	9.39E+04	4508	0.	
						TOTALS
LWC	2.58E-01		7.33E-01		3.45E-01	1.05E+00
MED D	21		122		404	186

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	8.92E+08	23	9.87E+07	404	7.39E+03	ALT (KM)
4	3.03E+09	43	7.42E+07	647	4.56E+01	4.859
6	9.84E+09	62	3.29E+07	944	0.	
8	1.16E+10	82	1.59E+07	1241	0.	TEMP (C)
10	8.32E+09	102	1.31E+07	1538	0.	-16.4
12	5.66E+09	122	6.26E+06	1835	0.	
14	4.45E+09	142	2.58E+06	2132	0.	FROSTPOINT
16	2.94E+09	161	1.29E+06	2429	0.	-16.3
18	3.12E+09	181	6.21E+05	2726	0.	
20	2.11E+09	201	4.58E+05	3023	0.	TAS (M/S)
22	1.96E+09	221	2.17E+05	3320	0.	133.3
24	1.48E+09	241	3.45E+05	3617	0.	
26	9.33E+08	260	1.93E+05	3914	0.	NT (N/M3)
28	3.57E+08	280	9.57E+04	4211	0.	2297376.1
30	7.87E+08	300	6.41E+04	4508	0.	
						TOTALS
LWC	1.81E-01		8.58E-01		4.99E-02	9.88E-01
MED D	20		122		408	126

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	9.16E+08	23	1.27E+03	404	4.51E+03	ALT (KM)
4	3.43E+09	43	6.78E+07	647	3.03E+01	4.850
6	8.73E+09	62	3.38E+07	944	0.	
8	1.12E+10	82	1.79E+07	1241	0.	TEMP (C)
10	7.96E+09	102	1.11E+07	1538	0.	-16.5
12	5.44E+09	122	4.38E+06	1835	0.	
14	4.03E+09	142	2.36E+06	2132	0.	FROSTPOINT
16	2.72E+09	161	1.24E+06	2429	0.	-16.7
18	2.92E+09	181	8.52E+05	2726	0.	
20	1.93E+09	201	5.35E+05	3023	0.	TAS (M/S)
22	1.92E+09	221	3.10E+05	3320	0.	133.6
24	1.23E+09	241	3.44E+04	3617	0.	
26	1.05E+09	260	4.44E+04	3914	0.	NT (N/M3)
28	5.07E+08	280	5.72E+04	4211	0.	2924651.1
30	6.23E+08	300	7.31E+04	4508	0.	
						TOTALS
LWC	1.75E-01		9.12E-01		7.39E-02	8.43E-01
MED D	21		112		409	116

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	8.23E+08	23	8.36E+07	404	1.25E+04	ALT (KM)
4	3.24E+09	43	6.58E+07	647	7.58E+01	4.860
6	9.14E+09	62	4.01E+07	944	0.	
8	1.09E+10	82	1.78E+07	1241	0.	TEMP (C)
10	8.31E+09	102	9.46E+06	1538	0.	-16.5
12	5.39E+09	122	4.61E+06	1835	0.	
14	4.16E+09	142	2.33E+06	2132	0.	FROSTPOINT
16	2.43E+09	161	1.27E+06	2429	0.	-16.7
18	2.79E+09	181	7.75E+05	2726	0.	
20	1.82E+09	201	5.76E+05	3023	0.	TAS (M/S)
22	1.58E+09	221	3.41E+05	3320	0.	133.5
24	1.13E+09	241	3.16E+04	3617	0.	
26	8.15E+08	260	2.23E+04	3914	0.	NT (N/M3)
28	4.52E+08	280	1.59E+04	4211	0.	2858559.7
30	5.21E+08	300	1.11E+05	4508	0.	
						TOTALS
LWC	1.58E-01		8.31E-01		3.53E-02	9.76E-01
MED D	23		129		408	119

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.03E+09	23	9.13E+07	404	5.19E+03	ALT (KM)
4	3.25E+09	43	7.56E+07	647	3.03E+01	4.863
6	9.59E+09	62	3.51E+07	944	0.	
8	1.13E+10	82	1.59E+07	1241	0.	TEMP (C)
10	8.86E+09	102	1.50E+06	1538	0.	-16.5
12	5.62E+09	122	4.37E+06	1835	0.	
14	4.34E+09	142	2.75E+06	2132	0.	FROSTPOINT
16	2.80E+09	161	1.12E+06	2429	0.	-16.3
18	3.13E+09	181	8.77E+05	2726	0.	
20	1.95E+09	201	4.50E+05	3023	0.	TAS (M/S)
22	2.21E+09	221	4.37E+05	3320	0.	133.9
24	1.33E+09	241	6.88E+04	3617	0.	
26	1.49E+09	260	7.36E+04	3914	0.	NT (N/M3)
28	5.27E+08	280	9.21E+04	4211	0.	2891447.5
30	7.85E+08	300	5.99E+04	4508	0.	
						TOTALS
LWC	1.69E-01		7.84E-01		4.19E-02	8.26E-01
MED D	21		120		407	124

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	1.23E+09	23	9.49E+07	404	4.74E+03	ALT (KM)
4	3.89E+09	43	6.71E+07	647	1.52E+01	4.860
6	1.05E+10	62	3.46E+07	944	0.	
8	1.39E+10	82	1.85E+07	1241	0.	TEMP (C)
10	1.02E+10	102	9.29E+06	1538	0.	-16.6
12	5.97E+09	122	4.86E+05	1835	0.	
14	4.99E+09	142	2.85E+05	2132	0.	FROSTPOINT
16	3.33E+09	161	1.15E+06	2429	0.	-16.7
18	3.31E+09	181	7.52E+05	2726	0.	
20	2.23E+09	201	3.69E+05	3023	0.	TAS (M/S)
22	2.12E+09	221	1.87E+05	3320	0.	133.1
24	1.23E+09	241	1.38E+05	3617	0.	
26	1.27E+09	260	1.19E+05	3914	0.	NT (N/M3)
28	5.78E+08	280	8.54E+04	4211	0.	2738618.7
30	9.83E+08	300	5.44E+04	4508	0.	
						TOTALS
LWC	2.10E-01		7.59E-01		3.18E-02	8.01E-01
MED D	21		116		406	119

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.2
2	1.13E+09	23	4.70E+07	484	3.23E+03	ALT (KM)
4	3.88E+08	43	3.79E+07	647	1.59E+01	4.868
6	1.09E+08	62	2.87E+07	944	0.	
8	1.51E+08	82	1.12E+07	1241	0.	TEMP (C)
10	1.22E+09	102	6.95E+05	1538	0.	-16.5
12	7.14E+09	122	2.92E+06	1835	0.	
14	6.26E+09	142	2.19E+06	2132	0.	FROSTPOINT
16	3.89E+09	161	8.41E+05	2429	0.	-16.7
18	4.36E+08	181	7.89E+05	2726	0.	
20	2.81E+09	201	3.43E+05	3023	0.	TAS (M/S)
22	2.33E+08	221	1.37E+05	3320	0.	133.0
24	2.02E+09	241	2.88E+05	3617	0.	
26	1.67E+09	260	3.33E+04	3914	0.	NT (N/M2)
28	8.39E+08	281	4.76E+04	4211	0.	1662739.5
30	1.11E+09	300	3.19E+04	4508	0.	
						TOTALS
LWC	2.69E-01		5.83E-01		2.16E-02	5.55E-01
MED D	21		123		407	127

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.2
2	1.42E+09	23	5.59E+07	484	2.66E+03	ALT (KM)
4	4.68E+08	43	3.15E+07	647	9.12E+01	4.869
6	1.24E+08	62	1.71E+07	944	0.	
8	1.79E+08	82	7.37E+06	1241	0.	TEMP (C)
10	1.55E+08	102	3.99E+06	1538	0.	-16.5
12	1.06E+08	122	1.39E+06	1835	0.	
14	8.62E+08	142	1.78E+06	2132	0.	FROSTPOINT
16	4.45E+08	161	4.48E+05	2429	0.	-16.7
18	4.88E+08	181	3.37E+05	2726	0.	
20	3.19E+08	201	2.76E+05	3023	0.	TAS (M/S)
22	2.93E+08	221	1.36E+05	3320	0.	133.2
24	2.03E+09	241	6.30E+04	3617	0.	
26	1.76E+09	260	3.23E+04	3914	0.	NT (N/M2)
28	8.65E+08	281	2.49E+04	4211	0.	1279791.5
30	1.39E+09	300	1.13E+04	4508	0.	
						TOTALS
LWC	3.69E-01		9.47E-01		2.13E-02	3.64E-01
MED D	21		116		425	122

SAMPLE: 23A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.2
2	1.45E+09	23	4.79E+07	484	4.97E+03	ALT (KM)
4	4.49E+08	43	3.20E+07	647	1.52E+01	4.868
6	1.17E+08	62	1.71E+07	944	0.	
8	1.74E+08	82	9.91E+06	1241	0.	TEMP (C)
10	1.33E+08	102	4.59E+06	1538	0.	-16.6
12	8.29E+08	122	2.09E+06	1835	0.	
14	7.12E+08	142	1.90E+06	2132	0.	FROSTPOINT
16	4.86E+08	161	8.39E+05	2429	0.	-16.7
18	4.56E+08	181	5.18E+05	2726	0.	
20	3.12E+08	201	4.32E+05	3023	0.	TAS (M/S)
22	2.83E+08	221	2.17E+05	3320	0.	133.3
24	1.86E+09	241	3.45E+04	3617	0.	
26	1.59E+09	260	5.57E+04	3914	0.	NT (N/M2)
28	8.65E+08	281	9.88E+04	4211	0.	1798394.0
30	1.23E+09	300	5.65E+04	4508	0.	
						TOTALS
LWC	2.82E-01		4.79E-01		3.24E-02	5.12E-01
MED D	21		131		406	137

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.2
2	9.97E+08	23	5.13E+07	484	3.14E+03	ALT (KM)
4	4.08E+08	43	4.54E+07	647	3.98E+01	4.869
6	1.25E+08	62	2.17E+07	944	0.	
8	1.98E+08	82	1.19E+07	1241	0.	TEMP (C)
10	1.93E+08	102	5.36E+06	1538	0.	-16.5
12	1.25E+08	122	2.32E+06	1835	0.	
14	1.06E+08	142	1.84E+06	2132	0.	FROSTPOINT
16	4.75E+08	161	9.82E+05	2429	0.	-16.2
18	4.74E+08	181	3.17E+05	2726	0.	
20	2.57E+08	201	3.87E+05	3023	0.	TAS (M/S)
22	2.46E+08	221	1.34E+05	3320	0.	134.8
24	1.68E+09	241	1.16E+05	3617	0.	
26	1.73E+09	260	4.57E+04	3914	0.	NT (N/M2)
28	8.35E+08	281	3.17E+04	4211	0.	1814821.8
30	1.61E+09	300	2.14E+04	4508	0.	
						TOTALS
LWC	3.12E-01		4.39E-01		2.13E-02	5.28E-01
MED D	20		115		411	128

SAMPLE: 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.23E+09	23	7.79E+07	484	6.51E+03	ALT (KM)
4	5.06E+09	43	6.15E+07	647	3.01E+01	4.861
6	1.32E+10	62	3.12E+07	944	0.	
8	1.90E+10	82	1.55E+07	1241	0.	TEMP (C)
10	1.74E+10	102	8.58E+06	1538	0.	-16.7
12	1.14E+10	122	4.35E+06	1835	0.	
14	9.34E+09	142	2.27E+06	2132	0.	FROSTPOINT
16	4.32E+09	161	1.07E+06	2429	0.	-16.2
18	3.93E+09	181	6.15E+05	2726	0.	
20	1.91E+09	201	2.24E+05	3023	0.	TAS (M/S)
22	2.06E+09	221	1.23E+05	3320	0.	134.7
24	1.44E+09	241	1.32E+05	3617	0.	
26	1.46E+09	260	1.11E+05	3914	0.	NT (N/M3)
28	7.20E+08	280	1.06E+05	4211	0.	2501790.9
30	1.28E+09	300	6.47E+04	4508	0.	
						TOTALS
LWC	2.67E-01		6.57E-01		4.41E-02	7.27E-01
MED D	19		115		407	119

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	8.61E+08	23	7.86E+07	484	4.96E+03	ALT (KM)
4	3.15E+09	43	5.11E+07	647	1.50E+01	4.864
6	8.54E+09	62	3.09E+07	944	0.	
8	8.32E+09	82	1.48E+07	1241	0.	TEMP (C)
10	5.62E+09	102	8.57E+06	1538	0.	-16.6
12	2.93E+09	122	3.89E+06	1835	0.	
14	2.46E+09	142	1.84E+06	2132	0.	FROSTPOINT
16	1.42E+09	161	9.71E+05	2429	0.	-16.1
18	1.26E+09	181	4.35E+05	2726	0.	
20	1.01E+09	201	1.67E+05	3023	0.	TAS (M/S)
22	6.55E+08	221	1.34E+05	3320	0.	134.9
24	5.43E+08	241	6.92E+04	3617	0.	
26	3.93E+08	260	7.37E+04	3914	0.	NT (N/M3)
28	1.75E+08	280	9.32E+04	4211	0.	2726019.9
30	2.51E+08	300	5.34E+04	4508	0.	
						TOTALS
LWC	8.57E-02		6.04E-01		3.38E-02	6.38E-01
MED D	19		109		406	113

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.39E+09	23	7.47E+07	484	3.66E+03	ALT (KM)
4	5.78E+09	43	6.20E+07	647	1.51E+01	4.867
6	1.45E+10	62	3.19E+07	944	0.	
8	1.62E+10	82	1.56E+07	1241	0.	TEMP (C)
10	1.21E+10	102	8.90E+06	1538	0.	-16.7
12	6.27E+09	122	4.48E+06	1835	0.	
14	5.33E+09	142	2.44E+06	2132	0.	FROSTPOINT
16	2.78E+09	161	1.03E+06	2429	0.	-16.2
18	2.71E+09	181	4.34E+05	2726	0.	
20	1.59E+09	201	3.34E+05	3023	0.	TAS (M/S)
22	1.47E+09	221	3.06E+04	3320	0.	135.2
24	9.61E+08	241	6.80E+04	3617	0.	
26	8.59E+08	260	6.33E+04	3914	0.	NT (N/M3)
28	4.67E+08	280	5.59E+04	4211	0.	2573519.4
30	6.99E+08	300	3.78E+04	4508	0.	
						TOTALS
LWC	1.74E-01		6.41E-01		2.47E-02	6.65E-01
MED D	19		108		407	110

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	4.43E+08	23	6.53E+07	484	1.50E+04	ALT (KM)
4	1.75E+09	43	5.75E+07	647	0.	4.864
6	4.62E+09	62	3.47E+07	944	0.	
8	4.28E+09	82	1.72E+07	1241	0.	TEMP (C)
10	2.95E+09	102	7.51E+06	1538	0.	-16.4
12	1.50E+09	122	3.74E+06	1835	0.	
14	1.32E+09	142	1.70E+06	2132	0.	FROSTPOINT
16	6.81E+08	161	1.35E+06	2429	0.	-16.1
18	8.03E+08	181	4.11E+05	2726	0.	
20	4.97E+08	201	2.24E+05	3023	0.	TAS (M/S)
22	3.40E+08	221	2.46E+05	3320	0.	134.4
24	2.59E+08	241	3.42E+04	3617	0.	
26	2.25E+08	261	3.28E+04	3914	0.	NT (N/M3)
28	8.17E+07	280	2.99E+04	4211	0.	2470833.9
30	1.78E+08	300	2.58E+04	4508	0.	
						TOTALS
LWC	4.46E-02		6.81E-01		9.84E-02	8.99E-01
MED D	19		104		404	116

SAMPLE# 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.11E+09	23	7.58E+07	404	6.04E+03	ALT (KM)
4	3.82E+08	43	5.78E+07	647	1.58E+01	4.867
6	8.71E+09	62	3.39E+07	944	0.	
8	7.91E+09	82	1.61E+07	1241	0.	TEMP (C)
10	4.65E+09	102	7.39E+06	1538	0.	-16.3
12	2.64E+09	122	3.21E+06	1835	0.	
14	2.33E+09	142	1.91E+06	2132	0.	FROSTPOINT
16	1.36E+09	161	9.10E+05	2429	0.	-16.1
18	1.44E+09	181	4.19E+05	2726	0.	
20	9.43E+08	201	2.23E+05	3023	0.	TAS (M/S)
22	7.72E+08	221	1.57E+05	3320	0.	134.9
24	5.36E+08	241	1.70E+05	3617	0.	
26	2.51E+08	260	1.46E+05	3914	0.	NT (N/M3)
28	2.24E+08	280	1.25E+05	4211	0.	2328861.1
30	2.37E+08	300	7.73E+04	4508	0.	
						TOTALS
LWC	7.96E-02		6.25E-01		4.04E-02	6.65E-01
MED D	19		114		406	121

SAMPLE# 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.35E+09	23	8.49E+07	404	7.28E+03	ALT (KM)
4	5.94E+08	43	5.34E+07	647	3.81E+01	4.864
6	1.37E+10	62	3.03E+07	944	0.	
8	1.53E+10	82	1.52E+07	1241	0.	TEMP (C)
10	1.64E+10	102	8.54E+05	1538	0.	-16.3
12	5.29E+09	122	4.62E+06	1835	0.	
14	4.41E+09	142	2.52E+06	2132	0.	FROSTPOINT
16	2.13E+09	161	9.25E+05	2429	0.	-16.1
18	2.41E+09	181	6.92E+05	2726	0.	
20	1.59E+09	201	3.53E+05	3023	0.	TAS (M/S)
22	1.24E+09	221	3.88E+05	3320	0.	134.8
24	8.03E+08	241	1.82E+05	3617	0.	
26	8.03E+08	260	1.19E+05	3914	0.	NT (N/M3)
28	4.28E+08	280	1.17E+05	4211	0.	2521334.6
30	5.64E+08	300	7.44E+04	4508	0.	
						TOTALS
LWC	1.53E-01		7.26E-01		4.86E-02	7.75E-01
MED D	19		120		407	126

SAMPLE# 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.15E+09	23	7.37E+07	404	2.48E+04	ALT (KM)
4	7.81E+08	43	4.93E+07	647	0.	4.866
6	1.06E+10	62	2.30E+07	944	0.	
8	1.04E+10	82	1.30E+07	1241	0.	TEMP (C)
10	6.59E+09	102	6.59E+05	1538	0.	-16.2
12	3.61E+09	122	3.36E+05	1835	0.	
14	3.14E+09	142	1.36E+05	2132	0.	FROSTPOINT
16	1.73E+09	161	1.17E+05	2429	0.	-16.1
18	1.69E+09	181	4.37E+05	2726	0.	
20	9.55E+08	201	1.40E+05	3023	0.	TAS (M/S)
22	7.91E+08	221	1.34E+05	3320	0.	134.1
24	6.69E+08	241	1.33E+05	3617	0.	
26	4.38E+08	260	7.70E+04	3914	0.	NT (N/M3)
28	3.14E+08	280	5.76E+04	4211	0.	1988713.3
30	4.58E+08	300	5.16E+04	4508	0.	
						TOTALS
LWC	1.05E-01		5.48E-01		1.89E-01	7.29E-01
MED D	19		113		404	145

SAMPLE# 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	1.41E+09	23	9.21E+07	404	3.52E+04	ALT (KM)
4	6.92E+08	43	6.90E+07	647	0.	4.863
6	1.74E+10	62	3.68E+07	944	0.	
8	1.88E+10	82	1.73E+07	1241	0.	TEMP (C)
10	1.28E+10	102	9.66E+05	1538	0.	-16.3
12	6.16E+09	122	5.84E+06	1835	0.	
14	5.64E+09	142	2.93E+06	2132	0.	FROSTPOINT
16	2.77E+09	161	1.21E+06	2429	0.	-16.1
18	2.73E+09	181	5.31E+05	2726	0.	
20	1.88E+09	201	3.98E+05	3023	0.	TAS (M/S)
22	1.63E+09	221	2.47E+05	3320	0.	134.2
24	1.28E+09	241	6.85E+04	3617	0.	
26	9.41E+08	260	6.95E+04	3914	0.	NT (N/M3)
28	5.73E+08	280	7.34E+04	4211	0.	2823905.5
30	7.84E+08	300	6.38E+04	4508	0.	
						TOTALS
LWC	1.91E-01		7.59E-01		2.31E-01	9.98E-01
MED D	20		114		404	147

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.40E+09	23	9.2.E+07	404	4.77E+13	ALT (KM)
4	6.15E+09	43	6.38E+07	647	1.51E+11	4.864
6	1.71E+10	62	3.20E+07	944	0.	
8	2.03E+10	82	1.75E+07	1241	0.	TEMP (C)
10	1.55E+10	102	7.77E+06	1538	0.	-16.3
12	8.23E+09	122	5.12E+06	1835	0.	
14	7.98E+09	142	1.35E+06	2132	0.	FROSTPOINT
16	3.31E+09	161	7.95E+05	2429	0.	-16.0
18	3.57E+09	181	6.6AE+05	2726	0.	
20	1.98E+09	201	4.2.E+05	3023	0.	TAS (M/S)
22	2.28E+09	221	2.15E+05	3320	0.	134.7
24	1.23E+09	241	1.07E+05	3617	0.	
26	1.32E+09	260	3.48E+04	3914	0.	NT (N/M3)
28	6.41E+08	280	3.74E+04	4211	0.	2583219.2
30	1.13E+09	300	5.50E+04	4508	0.	
						TOTALS
LWC	2.42E-01		6.35E-01		3.20E-32	7.26E-01
MED D	20		114		406	117

SAMPLE: 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.22E+09	23	5.63E+07	404	3.40E+00	ALT (KM)
4	6.03E+09	43	4.42E+07	647	1.5AE+11	4.863
6	1.66E+10	62	2.42E+07	944	0.	
8	2.10E+10	82	1.15E+07	1241	0.	TEMP (C)
10	1.80E+10	102	5.77E+06	1538	0.	-16.4
12	1.02E+10	122	2.36E+06	1835	0.	
14	9.21E+09	142	2.91E+06	2132	0.	FROSTPOINT
16	3.79E+09	161	9.7.E+05	2429	0.	-16.8
18	3.86E+09	181	5.44E+05	2726	0.	
20	2.21E+09	201	1.58E+05	3023	0.	TAS (M/S)
22	2.21E+09	221	1.54E+05	3320	0.	134.7
24	1.21E+09	241	0.	3617	0.	
26	1.42E+09	260	0.	3914	0.	NT (N/M3)
28	6.73E+08	280	0.	4211	0.	1938629.8
30	1.37E+09	300	0.	4508	0.	
						TOTALS
LWC	2.66E-01		4.73E-01		6.98E-34	4.73E-01
MED D	20		111		63*	111

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.16E+09	23	5.12E+07	404	5.55E+14	ALT (KM)
4	5.68E+09	43	4.59E+07	647	0.	4.866
6	1.56E+10	62	2.74E+07	944	0.	
8	2.14E+10	82	1.44E+07	1241	0.	TEMP (C)
10	1.75E+10	102	7.36E+06	1538	0.	-16.4
12	9.93E+09	122	3.53E+06	1835	0.	
14	8.92E+09	142	1.39E+06	2132	0.	FROSTPOINT
16	4.03E+09	161	9.78E+05	2429	0.	-16.9
18	3.92E+09	181	2.35E+05	2726	0.	
20	2.27E+09	201	7.36E+05	3023	0.	TAS (M/S)
22	2.24E+09	221	2.66E+05	3320	0.	134.6
24	1.37E+09	241	1.37E+05	3617	0.	
26	1.36E+09	260	1.24E+05	3914	0.	NT (N/M3)
28	8.84E+08	280	1.13E+05	4211	0.	2098266.5
30	1.44E+09	300	1.01E+05	4508	0.	
						TOTALS
LWC	2.75E-01		6.16E-01		3.71E-31	9.87E-01
MED D	20		113		404	213

SAMPLE: 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.03E+09	23	4.74E+07	404	1.46E+13	ALT (KM)
4	5.22E+09	43	3.53E+07	647	1.5AE+11	4.863
6	1.57E+10	62	2.19E+07	944	0.	
8	2.08E+10	82	1.08E+07	1241	0.	TEMP (C)
10	1.98E+10	102	5.72E+06	1538	0.	-16.4
12	1.11E+10	122	2.78E+06	1835	0.	
14	1.02E+10	142	1.81E+06	2132	0.	FROSTPOINT
16	4.23E+09	161	5.33E+05	2429	0.	-16.8
18	4.05E+09	181	4.10E+05	2726	0.	
20	2.22E+09	201	6.38E+04	3023	0.	TAS (M/S)
22	2.47E+09	221	9.22E+04	3320	0.	134.7
24	1.35E+09	241	0.	3617	0.	
26	1.68E+09	260	7.82E+03	3914	0.	NT (N/M3)
28	9.38E+08	280	1.46E+04	4211	0.	1575518.4
30	1.61E+09	300	1.31E+04	4508	0.	
						TOTALS
LWC	2.97E-01		4.34E-01		1.02E-12	4.14E-01
MED D	20		106		411	108

SAMPLE# 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:24:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	9.55E+08	23	6.54E+07	484	5.37E+03	ALT (KM)
4	4.65E+09	43	4.72E+07	647	3.32E+01	4.850
6	1.42E+10	62	2.35E+07	964	0.	
8	2.14E+10	82	1.19E+07	1241	0.	TEMP (C)
10	2.14E+10	102	6.49E+06	1538	0.	-16.4
12	1.33E+10	122	3.49E+06	1835	0.	
14	1.19E+10	142	1.65E+06	2132	0.	FROSTPOINT
16	5.59E+09	161	6.43E+05	2429	0.	-15.9
18	5.37E+09	181	2.74E+05	2726	0.	
20	2.67E+09	201	1.59E+05	3023	0.	TAS (M/S)
22	2.43E+09	221	1.23E+05	3320	0.	134.2
24	1.53E+09	241	1.03E+05	3617	0.	
26	1.82E+09	260	6.76E+04	3914	0.	NT (N/M3)
28	8.53E+08	280	7.47E+04	4211	0.	1997289.7
30	1.75E+09	300	4.31E+04	4508	0.	
						TOTALS
LWC	3.54E-01		9.42E-01		7.66E-12	5.56E-01
MED D	19		111		+09	116

SAMPLE# 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:24:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	8.98E+08	23	7.50E+07	484	7.75E+04	ALT (KM)
4	4.17E+09	43	4.73E+07	647	0.	4.873
6	1.31E+10	62	2.58E+07	964	0.	
8	1.98E+10	82	1.14E+07	1241	0.	TEMP (C)
10	2.89E+10	102	6.76E+06	1538	0.	-16.5
12	1.37E+10	122	3.31E+06	1835	0.	
14	1.28E+10	142	1.43E+06	2132	0.	FROSTPOINT
16	5.77E+09	161	6.17E+05	2429	0.	-15.9
18	5.71E+09	181	4.87E+05	2726	0.	
20	3.14E+09	201	1.58E+05	3023	0.	TAS (M/S)
22	3.08E+09	221	3.69E+05	3320	0.	134.6
24	1.64E+09	241	6.93E+04	3617	0.	
26	2.13E+09	260	1.87E+05	3914	0.	NT (N/M3)
28	9.92E+08	280	1.55E+05	4211	0.	1999822.3
30	1.97E+09	300	1.39E+05	4508	0.	
						TOTALS
LWC	3.66E-01		6.11E-01		5.89E-01	1.12E+00
MED D	20		124		494	284

SAMPLE# 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:24:44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	9.66E+08	23	7.32E+07	484	9.41E+10	ALT (KM)
4	4.65E+09	43	5.12E+07	647	1.51E+11	4.861
6	1.37E+10	62	2.57E+07	964	0.	
8	2.05E+10	82	1.35E+07	1241	0.	TEMP (C)
10	2.07E+10	102	6.77E+06	1538	0.	-16.4
12	1.34E+10	122	3.70E+06	1835	0.	
14	1.23E+10	142	2.02E+06	2132	0.	FROSTPOINT
16	5.57E+09	161	7.13E+05	2429	0.	-15.9
18	5.12E+09	181	5.54E+05	2726	0.	
20	2.86E+09	201	2.24E+05	3023	0.	TAS (M/S)
22	2.91E+09	221	2.46E+05	3320	0.	134.5
24	1.71E+09	241	1.13E+05	3617	0.	
26	1.86E+09	260	0.	3914	0.	NT (N/M3)
28	9.12E+08	280	0.	4211	0.	2094993.3
30	1.78E+09	300	0.	4508	0.	
						TOTALS
LWC	3.45E-01		5.35E-01		6.99E-04	5.36E-01
MED D	20		110		633	118

SAMPLE# 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:24:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	8.78E+08	23	6.32E+07	484	1.83E+03	ALT (KM)
4	4.12E+09	43	4.38E+07	647	3.81E+01	4.868
6	1.33E+10	62	2.27E+07	964	0.	
8	1.93E+10	82	1.18E+07	1241	0.	TEMP (C)
10	2.01E+10	102	5.43E+06	1538	0.	-16.5
12	1.35E+10	122	3.83E+06	1835	0.	
14	1.22E+10	142	1.54E+06	2132	0.	FROSTPOINT
16	5.67E+09	161	8.54E+05	2429	0.	-15.9
18	5.44E+09	181	6.15E+05	2726	0.	
20	2.74E+09	201	3.63E+05	3023	0.	TAS (M/S)
22	2.49E+09	221	1.34E+05	3326	0.	134.6
24	1.70E+09	241	1.87E+05	3617	0.	
26	1.63E+09	260	4.67E+04	3914	0.	NT (N/M3)
28	6.86E+08	280	1.46E+04	4211	0.	1722553.4
30	1.41E+09	300	1.35E+04	4508	0.	
						TOTALS
LWC	3.28E-01		4.98E-01		1.33E-02	5.11E-01
MED D	19		120		415	122

SAMPLE# 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	1.87E+09	23	4.37E+07	484	3.04E+03	ALT (KM)
4	5.06E+09	43	5.10E+07	647	7.00E+01	4.861
6	1.47E+10	62	2.47E+07	944	0.	
8	2.02E+10	82	1.31E+07	1241	0.	TEMP (C)
10	1.85E+10	102	5.76E+06	1538	0.	-16.5
12	1.14E+10	122	3.28E+06	1835	0.	
14	1.11E+10	142	1.32E+06	2132	0.	FROSTPOINT
16	5.03E+09	161	7.37E+05	2429	0.	-15.4
18	4.74E+09	181	7.41E+05	2726	0.	
20	2.49E+09	201	1.19E+06	3023	0.	TAS (M/S)
22	2.13E+09	221	1.34E+05	3320	0.	135.0
24	1.41E+09	241	1.72E+05	3617	0.	
26	1.57E+09	261	5.59E+04	3914	0.	NT (N/M3)
28	8.54E+08	280	3.16E+04	4211	0.	2806483.5
30	1.65E+09	300	2.10E+04	4508	0.	
						TOTALS
LWC	3.05E-01		5.18E-01		2.12E-02	5.79E-01
MED D	20		117		411	115

SAMPLE# 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.29E+09	23	1.89E+08	484	2.95E+04	ALT (KM)
4	5.40E+09	43	7.88E+07	647	0.	4.863
6	1.68E+10	62	3.46E+07	944	0.	
8	1.94E+10	82	1.79E+07	1241	0.	TEMP (C)
10	1.41E+10	102	1.11E+07	1538	0.	-16.6
12	8.26E+09	122	5.89E+06	1835	0.	
14	7.23E+09	142	2.73E+06	2132	0.	FROSTPOINT
16	3.29E+09	161	1.16E+06	2429	0.	-15.8
18	3.21E+09	181	4.89E+05	2726	0.	
20	1.96E+09	201	4.66E+05	3023	0.	TAS (M/S)
22	1.53E+09	221	2.76E+05	3320	0.	135.1
24	1.21E+09	241	6.91E+04	3617	0.	
26	1.06E+09	261	6.84E+04	3914	0.	NT (N/M3)
28	6.53E+08	280	5.30E+04	4211	0.	2935922.0
30	9.41E+08	300	5.26E+04	4508	0.	
						TOTALS
LWC	2.16E-01		7.74E-01		1.34E-01	9.68E-01
MED D	19		111		484	129

SAMPLE# 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	9.49E+08	23	1.80E+08	484	6.49E+03	ALT (KM)
4	4.81E+09	43	6.85E+07	647	1.50E+01	4.861
6	1.49E+10	62	3.53E+07	944	0.	
8	2.63E+10	82	1.95E+07	1241	0.	TEMP (C)
10	1.86E+10	102	1.12E+07	1538	0.	-16.6
12	1.16E+10	122	4.35E+06	1835	0.	
14	1.02E+10	142	2.75E+06	2132	0.	FROSTPOINT
16	5.07E+09	161	1.51E+06	2429	0.	-15.8
18	5.84E+09	181	9.78E+05	2726	0.	
20	2.54E+09	201	4.18E+05	3023	0.	TAS (M/S)
22	2.28E+09	221	1.87E+05	3320	0.	135.2
24	1.37E+09	241	1.70E+05	3617	0.	
26	1.74E+09	260	1.47E+05	3914	0.	NT (N/M3)
28	7.78E+08	280	1.27E+05	4211	0.	2788577.6
30	1.69E+09	300	7.83E+04	4508	0.	
						TOTALS
LWC	3.00E-01		8.72E-01		4.87E-02	9.13E-01
MED D	20		122		486	126

SAMPLE# 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:24:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 200 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.42E+09	23	8.76E+07	484	6.31E+03	ALT (KM)
4	5.91E+09	43	5.57E+07	647	3.00E+01	4.867
6	1.45E+10	62	3.93E+07	944	0.	
8	1.35E+10	82	1.67E+07	1241	0.	TEMP (C)
10	9.31E+09	102	8.17E+06	1538	0.	-16.5
12	4.74E+09	122	3.97E+06	1835	0.	
14	4.56E+09	142	2.59E+06	2132	0.	FROSTPOINT
16	2.03E+09	161	7.34E+05	2429	0.	-15.8
18	2.13E+09	181	5.62E+05	2726	0.	
20	1.31E+09	201	2.79E+05	3023	0.	TAS (M/S)
22	1.11E+09	221	1.53E+05	3320	0.	135.0
24	6.85E+08	241	7.41E+04	3617	0.	
26	6.37E+08	260	5.70E+04	3914	0.	NT (N/M3)
28	2.51E+08	280	9.55E+04	4211	0.	2362424.9
30	4.76E+08	300	6.19E+04	4508	0.	
						TOTALS
LWC	1.32E-01		6.39E-01		4.28E-02	6.82E-01
MED D	18		111		487	116

SAMPLE: 238 — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:24:51*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.38E+09	23	9.14E+07	404	3.04E+03	ALT (KM)
4	5.17E+09	43	6.56E+07	647	1.50E+01	4.854
6	1.23E+10	62	3.45E+07	944	0.	
8	1.47E+10	82	1.37E+07	1241	0.	TEMP (C)
10	6.91E+09	102	1.13E+07	1538	0.	-16.4
12	3.57E+09	122	4.66E+06	1835	0.	
14	3.54E+09	142	2.54E+06	2132	0.	FROSTPOINT
16	1.64E+09	161	8.51E+05	2429	0.	-15.7
18	1.75E+09	181	7.66E+05	2726	0.	
20	9.81E+08	201	7.34E+05	3023	0.	TAS (M/S)
22	9.41E+08	221	2.14E+05	3320	0.	135.2
24	6.79E+08	241	6.90E+04	3617	0.	
26	4.26E+08	260	5.49E+04	3914	0.	NT (N/M3)
28	2.64E+08	280	4.44E+04	4211	0.	2539023.5
30	4.63E+08	300	2.69E+04	4508	0.	
						TOTALS
LWC	1.09E-01		7.41E-01		2.06E-02	7.62E-01
MED D	19		109		404	109

SAMPLE: 239 — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:24:53*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.13E+09	23	9.14E+07	404	3.16E+04	ALT (KM)
4	4.91E+09	43	5.97E+07	647	0.	4.864
6	1.05E+10	62	3.15E+07	944	1.57E+01	
8	9.53E+09	82	1.59E+07	1241	0.	TEMP (C)
10	5.88E+09	102	9.14E+06	1538	0.	-16.4
12	3.67E+09	122	5.33E+06	1835	0.	
14	3.10E+09	142	2.66E+06	2132	0.	FROSTPOINT
16	1.54E+09	161	1.04E+06	2429	0.	-15.7
18	1.65E+09	181	5.97E+05	2726	0.	
20	9.34E+08	201	4.73E+05	3023	0.	TAS (M/S)
22	1.05E+09	221	1.53E+05	3320	0.	135.3
24	5.14E+08	241	1.36E+05	3617	0.	
26	4.69E+08	260	3.27E+04	3914	0.	NT (N/M3)
28	2.97E+08	280	6.31E+04	4211	0.	2513176.4
30	4.37E+08	300	5.65E+04	4508	0.	
						TOTALS
LWC	1.03E-01		7.28E-01		2.13E-01	9.38E-01
MED D	19		115		405	179

SAMPLE: 239 — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:24:52*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.41E+09	23	8.34E+07	404	5.75E+03	ALT (KM)
4	6.43E+09	43	5.37E+07	647	5.98E+01	4.856
6	1.47E+10	62	3.29E+07	944	0.	
8	1.38E+10	82	1.54E+07	1241	0.	TEMP (C)
10	9.55E+09	102	9.83E+06	1538	0.	-16.4
12	4.92E+09	122	4.17E+06	1835	0.	
14	4.38E+09	142	2.15E+06	2132	0.	FROSTPOINT
16	2.12E+09	161	9.44E+05	2429	0.	-15.7
18	1.89E+09	181	4.84E+05	2726	0.	
20	1.17E+09	201	3.61E+05	3023	0.	TAS (M/S)
22	1.06E+09	221	1.53E+05	3320	0.	135.4
24	6.15E+08	241	1.32E+05	3617	0.	
26	5.68E+08	260	7.83E+04	3914	0.	NT (N/M3)
28	3.31E+08	280	5.28E+04	4211	0.	2372249.6
30	5.27E+08	300	3.56E+04	4508	0.	
						TOTALS
LWC	1.34E-01		6.43E-01		3.77E-02	6.81E-01
MED D	18		110		411	114

SAMPLE: 239 — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:24:54*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.42E+09	23	1.01E+08	404	5.73E+03	ALT (KM)
4	7.08E+09	43	6.70E+07	647	2.99E+01	4.863
6	1.63E+10	62	3.74E+07	944	0.	
8	1.67E+10	82	2.10E+07	1241	0.	TEMP (C)
10	1.17E+10	102	1.11E+07	1538	0.	-16.4
12	5.82E+09	122	6.22E+06	1835	0.	
14	5.77E+09	142	3.09E+06	2132	0.	FROSTPOINT
16	2.42E+09	161	1.32E+06	2429	0.	-15.7
18	2.54E+09	181	7.30E+05	2726	0.	
20	1.48E+09	201	6.58E+05	3023	0.	TAS (M/S)
22	1.51E+09	221	3.16E+05	3320	0.	135.3
24	1.06E+09	241	1.38E+05	3617	0.	
26	8.86E+08	260	1.18E+05	3914	0.	NT (N/M3)
28	4.46E+08	280	7.61E+04	4211	0.	2983186.8
30	8.38E+08	300	4.57E+04	4508	0.	
						TOTALS
LWC	1.77E-01		9.66E-01		3.63E-02	9.82E-01
MED D	20		120		408	123

SAMPLE: 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	8.28E+09	23	8.18E+07	404	7.42E+13	ALT (KM)
4	4.93E+09	43	5.32E+07	647	1.59E+11	4.864
6	1.44E+10	62	3.25E+07	944	0.	
8	1.96E+10	82	1.53E+07	1241	0.	TEMP (C)
10	1.04E+10	102	1.90E+07	1538	0.	-16.5
12	1.15E+10	122	6.17E+06	1835	0.	
14	1.09E+10	142	7.92E+06	2132	0.	FROSTPOINT
16	3.94E+09	161	1.30E+05	2429	0.	-15.6
18	4.10E+09	181	7.16E+05	2726	0.	
20	2.04E+09	201	3.37E+05	3023	0.	TAS (M/S)
22	2.21E+09	221	6.14E+05	3320	0.	134.9
24	1.41E+09	241	1.71E+05	3617	0.	
26	1.66E+09	260	1.54E+05	3914	0.	NT (N/M3)
28	7.46E+08	281	1.57E+05	4211	0.	2469758.8
30	1.53E+09	300	9.57E+04	4508	0.	
						TOTALS
LWC	2.88E-01		8.70E-01		4.63E-32	9.16E-01
MED D	29		127		486	131

SAMPLE: 238 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:57
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	6.03E+08	23	6.28E+07	404	5.83E+04	ALT (KM)
4	3.60E+09	43	4.32E+07	647	0.	4.863
6	1.44E+10	62	2.19E+07	944	0.	
8	1.57E+10	82	1.88E+07	1241	0.	TEMP (C)
10	1.78E+10	102	6.59E+06	1538	0.	-16.6
12	1.42E+10	122	3.17E+06	1835	0.	
14	1.35E+10	142	1.53E+06	2132	0.	FROSTPOINT
16	6.72E+09	161	1.18E+05	2429	0.	-15.6
18	6.57E+09	181	6.13E+05	2726	0.	
20	3.32E+09	201	3.34E+05	3023	0.	TAS (M/S)
22	2.95E+09	221	3.38E+05	3320	0.	135.1
24	1.43E+09	241	1.02E+05	3617	0.	
26	2.28E+09	260	1.10E+05	3914	0.	NT (N/M3)
28	1.03E+09	280	1.19E+05	4211	0.	1977660.3
30	2.21E+09	300	1.06E+05	4508	0.	
						TOTALS
LWC	3.89E-01		6.27E-01		3.98E-31	1.02E+00
MED D	20		129		484	219

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	5.64E+08	23	7.70E+07	404	9.23E+13	ALT (KM)
4	3.81E+09	43	5.04E+07	647	4.51E+11	4.863
6	1.09E+10	62	2.35E+07	944	0.	
8	1.72E+10	82	1.51E+07	1241	0.	TEMP (C)
10	1.98E+10	102	3.44E+06	1538	0.	-16.6
12	1.39E+10	122	4.57E+06	1835	0.	
14	1.34E+10	142	2.39E+06	2132	0.	FROSTPOINT
16	6.36E+09	161	1.16E+06	2429	0.	-15.6
18	5.58E+09	181	8.20E+05	2726	0.	
20	2.91E+09	201	3.88E+05	3023	0.	TAS (M/S)
22	2.71E+09	221	7.59E+05	3320	0.	134.6
24	1.76E+09	241	1.37E+05	3617	0.	
26	1.92E+09	260	1.38E+05	3914	0.	NT (N/M3)
28	1.81E+09	280	1.39E+05	4211	0.	2250882.6
30	1.92E+09	300	9.90E+04	4508	0.	
						TOTALS
LWC	3.58E-01		7.43E-01		6.26E-02	8.85E-01
MED D	28		125		487	133

SAMPLE: 239 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:24:58
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 200 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.8
2	5.68E+08	23	1.47E+08	404	6.37E+13	ALT (KM)
4	3.23E+09	43	4.93E+07	647	0.	4.863
6	9.56E+09	62	2.74E+07	944	1.57E+01	
8	1.49E+10	82	1.12E+07	1241	0.	TEMP (C)
10	1.73E+10	102	6.38E+06	1538	0.	-16.6
12	1.34E+10	122	3.78E+06	1835	0.	
14	1.40E+10	142	1.32E+06	2132	0.	FROSTPOINT
16	7.51E+09	161	8.73E+05	2429	0.	-15.5
18	7.07E+09	181	3.57E+05	2726	0.	
20	3.44E+09	201	3.98E+05	3023	0.	TAS (M/S)
22	3.86E+09	221	1.03E+05	3320	0.	135.4
24	1.89E+09	241	6.79E+04	3617	0.	
26	2.48E+09	260	2.34E+04	3914	0.	NT (N/M3)
28	1.19E+09	280	1.27E+04	4211	0.	2017866.4
30	2.45E+09	300	1.14E+04	4508	0.	
						TOTALS
LWC	4.88E-01		5.27E-01		4.39E-02	9.71E-01
MED D	21		110		409	116

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:02
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	9.86E+08	23	1.22E+07	484	1.69E+04	ALT (KM)
4	4.63E+09	43	7.88E+07	647	4.49E+01	4.854
6	1.28E+10	62	4.21E+07	944	0.	
8	1.74E+10	82	2.14E+07	1241	0.	TEMP (C)
10	1.77E+10	102	1.32E+07	1538	0.	-16.8
12	1.27E+10	122	7.28E+06	1835	0.	
14	1.24E+10	142	3.69E+06	2132	0.	FROSTPOINT
16	6.39E+09	161	1.94E+06	2429	0.	-15.4
18	6.25E+09	181	1.22E+06	2726	0.	
20	2.56E+09	201	7.89E+05	3023	0.	TAS (M/S)
22	2.49E+09	221	4.93E+05	3320	0.	135.3
24	1.33E+09	241	2.14E+05	3617	0.	
26	1.67E+09	260	2.56E+05	3914	0.	NT (N/M3)
28	7.57E+08	280	3.47E+05	4211	0.	3798101.1
30	1.62E+09	300	2.15E+05	4508	0.	
						TOTALS
LWC	3.25E-01		1.19E+0.		1.13E-01	1.29E+00
MED D	19		133		406	139

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:04
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	9.77E+08	23	1.11E+18	484	5.77E+03	ALT (KM)
4	5.48E+09	43	6.34E+07	647	1.58E+01	4.868
6	1.31E+10	62	3.72E+07	944	1.58E+01	
8	1.37E+10	82	2.37E+17	1241	0.	TEMP (C)
10	1.11E+10	102	9.61E+06	1538	0.	-16.8
12	6.51E+09	122	5.22E+06	1835	0.	
14	6.59E+09	142	3.39E+06	2132	0.	FROSTPOINT
16	2.91E+09	161	1.51E+06	2429	0.	-15.3
18	2.66E+09	181	9.44E+05	2726	0.	
20	1.78E+09	201	6.78E+05	3023	0.	TAS (M/S)
22	1.89E+09	221	3.39E+05	3320	0.	134.9
24	6.71E+08	241	3.41E+04	3617	0.	
26	7.94E+08	260	4.81E+04	3914	0.	NT (N/M3)
28	4.14E+08	280	1.17E+05	4211	0.	2788616.8
30	8.89E+08	300	7.24E+04	4508	0.	
						TOTALS
LWC	1.69E-01		8.81E-01		4.86E-12	9.21E-01
MED D	18		122		411	126

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:03
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	8.74E+08	23	3.54E+07	484	8.60E+13	ALT (KM)
4	4.48E+09	43	6.24E+07	647	3.89E+01	4.864
6	1.28E+10	62	4.18E+07	944	0.	
8	1.63E+10	82	2.11E+07	1241	0.	TEMP (C)
10	1.67E+10	102	1.19E+07	1538	0.	-16.8
12	1.27E+10	122	7.53E+06	1835	0.	
14	1.22E+10	142	3.92E+06	2132	0.	FROSTPOINT
16	6.58E+09	161	1.66E+06	2429	0.	-15.4
18	5.70E+09	181	9.19E+05	2726	0.	
20	2.34E+09	201	6.41E+05	3023	0.	TAS (M/S)
22	2.15E+09	221	4.30E+05	3320	0.	135.1
24	1.31E+09	241	1.36E+05	3617	0.	
26	1.76E+09	260	1.44E+05	3914	0.	NT (N/M3)
28	9.88E+08	280	1.53E+05	4211	0.	3727877.9
30	1.95E+09	300	9.65E+04	4508	0.	
						TOTALS
LWC	3.28E-01		1.83E+00		5.78E-02	1.09E+00
MED D	19		124		407	128

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:05
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.84E+09	23	9.33E+07	484	9.66E+04	ALT (KM)
4	4.09E+09	43	5.82E+07	647	0.	4.867
6	9.84E+09	62	3.42E+07	944	0.	
8	8.72E+09	82	1.97E+07	1241	0.	TEMP (C)
10	5.91E+09	102	1.14E+07	1538	0.	-16.6
12	3.87E+09	122	5.72E+06	1835	0.	
14	2.04E+09	142	2.37E+06	2132	0.	FROSTPOINT
16	1.31E+09	161	1.46E+06	2429	0.	-15.3
18	1.29E+09	181	8.93E+05	2726	0.	
20	8.32E+08	201	4.73E+05	3023	0.	TAS (M/S)
22	6.97E+08	221	3.57E+05	3320	0.	135.2
24	3.52E+08	241	1.78E+05	3617	0.	
26	3.25E+08	260	1.72E+05	3914	0.	NT (N/M3)
28	1.81E+08	280	1.73E+05	4211	0.	2688644.1
30	3.25E+08	300	1.55E+05	4508	0.	
						TOTALS
LWC	8.21E-02		9.18E-01		5.69E-11	1.49E+00
MED D	18		126		484	214

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:05
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.09E+09	23	9.85E+07	404	3.46E+03	ALT (KM)
4	6.19E+08	43	5.57E+07	647	6.30E+01	4.867
6	1.52E+10	62	3.55E+07	944	0.	
8	1.53E+10	82	1.96E+07	1241	0.	TEMP (C)
10	1.63E+10	102	1.01E+07	1538	0.	-16.6
12	5.33E+09	122	5.34E+06	1835	0.	
14	5.13E+09	142	2.94E+06	2132	0.	FROSTPOINT
16	2.18E+09	161	1.44E+06	2429	0.	-15.3
18	1.94E+09	181	9.36E+05	2726	0.	
20	1.15E+09	201	4.74E+05	3023	0.	TAS (M/S)
22	1.23E+09	221	2.45E+05	3320	0.	135.0
24	7.45E+08	241	1.36E+05	3617	0.	
26	6.83E+08	261	1.30E+05	3914	0.	NT (N/M3)
28	7.25E+08	281	1.25E+05	4211	0.	2646351.8
30	5.49E+08	300	9.27E+04	4508	0.	
						TOTALS
LWC	1.41E-01		8.58E-01		6.49E-12	9.32E-01
MED D	18		122		+08	128

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:06
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	7.96E+08	23	1.27E+08	404	8.97E+03	ALT (KM)
4	5.58E+09	43	8.50E+07	647	7.53E+01	4.866
6	1.43E+10	62	4.37E+07	944	0.	
8	1.77E+10	82	2.50E+07	1241	0.	TEMP (C)
10	1.63E+10	102	1.36E+07	1538	0.	-16.7
12	1.01E+10	122	6.94E+06	1835	0.	
14	9.41E+09	142	3.72E+06	2132	0.	FROSTPOINT
16	3.53E+09	161	1.52E+06	2429	0.	-15.2
18	3.18E+09	181	9.75E+05	2726	0.	
20	1.56E+09	201	3.32E+05	3023	0.	TAS (M/S)
22	1.80E+09	221	4.31E+05	3320	0.	134.5
24	1.07E+09	241	2.74E+05	3617	0.	
26	1.35E+09	260	1.68E+05	3914	0.	NT (N/M3)
28	6.53E+08	280	1.03E+05	4211	0.	3602674.4
30	1.35E+09	300	5.96E+04	4508	0.	
						TOTALS
LWC	2.42E-01		1.37E+00		5.22E-12	1.13E+00
MED D	20		117		418	122

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:07
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	9.98E+08	23	1.70E+08	404	4.14E+04	ALT (KM)
4	5.28E+09	43	7.31E+07	647	0.	4.867
6	1.46E+10	62	4.73E+07	944	0.	
8	1.72E+10	82	2.31E+07	1241	0.	TEMP (C)
10	1.39E+10	102	1.21E+07	1538	0.	-16.6
12	8.52E+09	122	5.59E+06	1835	0.	
14	7.81E+09	142	2.19E+06	2132	0.	FROSTPOINT
16	3.22E+09	161	1.21E+06	2429	0.	-15.2
18	2.83E+09	181	8.44E+05	2726	0.	
20	1.56E+09	201	4.18E+05	3023	0.	TAS (M/S)
22	1.33E+09	221	4.31E+05	3320	0.	134.9
24	9.84E+08	241	1.36E+05	3617	0.	
26	1.44E+09	261	1.05E+05	3914	0.	NT (N/M3)
28	4.75E+08	280	8.28E+04	4211	0.	3072510.7
30	9.83E+08	300	7.61E+04	4508	0.	
						TOTALS
LWC	2.03E-01		9.86E-01		2.72E-11	1.18E+00
MED D	18		116		404	143

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:08
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	5.24E+08	23	1.23E+08	404	1.24E+05	ALT (KM)
4	2.77E+09	43	7.97E+07	647	0.	4.864
6	9.31E+09	62	4.54E+07	944	0.	
8	1.59E+10	82	2.23E+07	1241	0.	TEMP (C)
10	1.73E+10	102	1.20E+07	1538	0.	-16.7
12	1.38E+10	122	7.00E+06	1835	0.	
14	1.44E+10	142	3.43E+06	2132	0.	FROSTPOINT
16	7.16E+09	161	1.71E+06	2429	0.	-15.2
18	5.96E+09	181	1.08E+06	2726	0.	
20	2.73E+09	201	5.50E+05	3023	0.	TAS (M/S)
22	2.88E+09	221	3.39E+05	3320	0.	134.3
24	1.74E+09	241	2.05E+05	3617	0.	
26	2.28E+09	260	2.26E+05	3914	0.	NT (N/M3)
28	1.06E+09	280	2.48E+05	4211	0.	3495932.9
30	2.17E+09	300	2.22E+05	4508	0.	
						TOTALS
LWC	3.77E-01		1.12E+00		8.14E-01	1.94E+00
MED D	20		126		404	294

SAMPLE# 24

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:25:10
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 40 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	6.47E+08	23	9.41E+07	484	1.33E+04	ALT (KM)
4	3.48E+09	43	7.50E+07	647	5.03E+01	4.867
6	1.03E+10	62	3.95E+07	944	0.	
8	1.45E+10	82	1.36E+07	1241	0.	TEMP (C)
10	1.57E+10	102	1.10E+07	1538	0.	-16.8
12	1.35E+10	122	6.5uE+06	1835	0.	
14	1.48E+10	142	3.40E+06	2132	0.	FROSTPOINT
16	7.87E+09	161	1.31E+06	2429	0.	-15.1
18	6.56E+09	181	9.25E+05	2726	0.	
20	2.92E+09	201	4.48E+05	3023	0.	TAS (M/S)
22	2.73E+09	221	3.73E+05	3320	0.	134.3
24	1.76E+09	241	3.18E+05	3617	0.	
26	2.81E+09	260	2.52E+05	3914	0.	NT (N/M3)
28	1.44E+09	290	2.23E+05	4211	0.	7152931.7
30	2.86E+09	300	1.43E+05	4508	0.	
						TOTALS
LWC	3.69E-01		1.32E+00		9.42E-02	1.12E+00
MED D	20		127		407	135

SAMPLE# 24

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:25:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 40 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	3.54E+08	23	8.49E+07	484	9.28E+03	ALT (KM)
4	2.10E+09	43	5.68E+07	647	1.98E+01	4.864
6	6.49E+09	62	2.73E+07	944	0.	
8	1.13E+10	82	1.57E+07	1241	0.	TEMP (C)
10	1.58E+10	102	8.89E+06	1538	0.	-16.8
12	1.53E+10	122	3.99E+06	1835	0.	
14	1.69E+10	142	2.48E+06	2132	0.	FROSTPOINT
16	1.06E+10	161	9.26E+05	2429	0.	-15.1
18	8.74E+09	181	5.58E+05	2726	0.	
20	3.88E+09	201	4.20E+05	3023	0.	TAS (M/S)
22	3.20E+09	221	3.88E+05	3320	0.	134.6
24	1.92E+09	241	3.42E+04	3617	0.	
26	2.94E+09	260	8.88E+04	3914	0.	NT (N/M3)
28	1.26E+09	280	2.31E+05	4211	0.	2294989.3
30	3.02E+09	300	1.21E+05	4508	0.	
						TOTALS
LWC	4.70E-01		7.15E-01		5.58E-02	7.70E-01
MED D	20		122		406	129

SAMPLE# 24

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:25:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 40 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	4.49E+08	23	8.41E+07	484	7.49E+04	ALT (KM)
4	2.64E+09	43	5.80E+07	647	0.	4.866
6	7.46E+09	62	3.18E+07	944	0.	
8	1.28E+10	82	1.46E+07	1241	0.	TEMP (C)
10	1.59E+10	102	9.45E+06	1538	0.	-16.8
12	1.45E+10	122	5.62E+06	1835	0.	
14	1.59E+10	142	2.54E+06	2132	0.	FROSTPOINT
16	8.94E+09	161	1.24E+06	2429	0.	-15.1
18	7.02E+09	181	9.76E+05	2726	0.	
20	3.37E+09	201	6.16E+05	3023	0.	TAS (M/S)
22	3.34E+09	221	3.88E+05	3320	0.	134.4
24	1.87E+09	241	1.83E+05	3617	0.	
26	2.58E+09	260	1.24E+05	3914	0.	NT (N/M3)
28	1.22E+09	280	1.30E+05	4211	0.	2522564.6
30	2.78E+09	300	1.34E+05	4508	0.	
						TOTALS
LWC	4.34E-01		9.28E-01		4.92E-01	1.32E+00
MED D	21		127		484	202

SAMPLE# 24

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START# 21:25:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 40 GPM DISTANCE# 200 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	4.09E+08	23	1.36E+08	484	6.58E+04	ALT (KM)
4	2.83E+09	43	7.36E+07	647	0.	4.864
6	6.23E+09	62	3.82E+07	944	0.	
8	1.06E+10	82	2.15E+07	1241	0.	TEMP (C)
10	1.49E+10	102	1.35E+07	1538	0.	-16.8
12	1.52E+10	122	5.74E+06	1835	0.	
14	1.68E+10	142	3.56E+06	2132	0.	FROSTPOINT
16	1.06E+10	161	1.37E+06	2429	0.	-15.0
18	9.24E+09	181	8.71E+05	2726	0.	
20	3.51E+09	201	5.31E+05	3023	0.	TAS (M/S)
22	3.29E+09	221	5.23E+05	3320	0.	134.6
24	2.15E+09	241	1.37E+05	3617	0.	
26	2.67E+09	260	1.83E+05	3914	0.	NT (N/M3)
28	1.33E+09	280	1.58E+05	4211	0.	3227372.6
30	3.81E+09	300	1.16E+05	4508	0.	
						TOTALS
LWC	4.78E-01		9.76E-01		4.27E-01	1.48E+00
MED D	20		123		484	169

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	6.18E+08	23	1.88E+06	404	4.27E+04	ALT (KM)
4	3.74E+09	43	9.31E+07	647	0.	4.866
6	9.62E+09	62	4.78E+07	944	0.	
8	1.36E+10	82	2.35E+07	1241	0.	TEMP (C)
10	1.67E+10	102	1.25E+07	1538	0.	-16.8
12	1.45E+10	122	7.17E+06	1835	0.	
14	1.55E+10	142	3.71E+06	2132	0.	FROSTPOINT
16	8.27E+09	161	1.51E+06	2429	0.	-15.8
18	7.21E+09	181	9.23E+05	2726	0.	
20	3.68E+09	201	4.75E+05	3023	0.	TAS (M/S)
22	2.99E+09	221	4.32E+05	3320	0.	134.6
24	1.58E+09	241	2.15E+05	3617	0.	
26	2.24E+09	260	1.32E+05	3914	0.	NT (N/M3)
28	9.73E+08	280	8.34E+04	4211	0.	3594580.7
30	2.34E+09	300	7.65E+04	4508	0.	
						TOTALS
LWC	3.96E-01		1.15E+00		2.81E-31	1.54E+00
MED D	20		118		404	140

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.23E+09	23	1.43E+08	404	1.43E+04	ALT (KM)
4	6.33E+09	43	8.43E+07	647	6.02E+01	4.870
6	1.47E+10	62	4.71E+07	944	0.	
8	1.42E+10	82	2.36E+07	1241	0.	TEMP (C)
10	1.14E+10	102	1.33E+07	1538	0.	-16.6
12	6.66E+09	122	6.78E+06	1835	0.	
14	6.31E+09	142	3.72E+06	2132	0.	FROSTPOINT
16	2.42E+09	161	1.52E+06	2429	0.	-14.9
18	2.12E+09	181	1.08E+06	2726	0.	
20	1.20E+09	201	6.16E+05	3023	0.	TAS (M/S)
22	1.12E+09	221	6.46E+05	3320	0.	134.5
24	7.76E+08	241	2.74E+05	3617	0.	
26	7.89E+08	260	2.52E+05	3914	0.	NT (N/M3)
28	3.33E+08	280	2.31E+05	4211	0.	3674952.2
30	7.28E+08	300	1.48E+05	4508	0.	
						TOTALS
LWC	1.58E-01		1.19E+00		9.64E-32	1.29E+00
MED D	18		125		407	133

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.03E+09	23	1.15E+08	404	8.87E+03	ALT (KM)
4	5.77E+09	43	8.45E+07	647	3.01E+01	4.866
6	1.38E+10	62	4.27E+07	944	0.	
8	1.64E+10	82	2.28E+07	1241	0.	TEMP (C)
10	1.60E+10	102	1.11E+07	1538	0.	-16.7
12	1.10E+10	122	6.83E+06	1835	0.	
14	1.03E+10	142	3.43E+06	2132	0.	FROSTPOINT
16	4.54E+09	161	1.26E+06	2429	0.	-14.9
18	3.44E+09	181	1.10E+06	2726	0.	
20	1.69E+09	201	5.68E+05	3023	0.	TAS (M/S)
22	1.58E+09	221	2.77E+05	3320	0.	134.5
24	8.57E+08	241	6.84E+04	3617	0.	
26	1.89E+09	260	1.14E+05	3914	0.	NT (N/M3)
28	5.31E+08	280	1.39E+05	4211	0.	3448959.1
30	1.16E+09	300	1.31E+05	4508	0.	
						TOTALS
LWC	2.34E-01		9.71E-01		5.96E-02	1.63E+00
MED D	18		115		407	123

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.07E+09	23	1.24E+08	404	1.23E+04	ALT (KM)
4	5.12E+09	43	8.75E+07	647	6.01E+01	4.867
6	1.27E+10	62	4.53E+07	944	0.	
8	1.48E+10	82	2.42E+07	1241	0.	TEMP (C)
10	1.48E+10	102	1.27E+07	1538	0.	-16.5
12	9.87E+09	122	7.16E+06	1835	0.	
14	8.97E+09	142	3.97E+06	2132	0.	FROSTPOINT
16	4.03E+09	161	1.37E+06	2429	0.	-14.9
18	3.08E+09	181	1.13E+06	2726	0.	
20	1.32E+09	201	7.54E+05	3023	0.	TAS (M/S)
22	1.24E+09	221	5.22E+05	3320	0.	134.7
24	1.04E+09	241	1.91E+05	3617	0.	
26	1.07E+09	260	1.78E+05	3914	0.	NT (N/M3)
28	4.01E+08	280	1.35E+05	4211	0.	3683933.4
30	9.59E+08	300	1.28E+05	4508	0.	
						TOTALS
LWC	2.07E-01		1.16E+00		8.35E-02	1.24E+00
MED D	18		125		407	131

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	4.42E+08	23	8.93E+07	404	5.27E+03	ALT (KM)
4	1.81E+09	43	6.24E+07	647	1.51E+01	4.867
6	5.87E+09	62	3.59E+07	944	1.58E+01	
8	8.39E+09	82	1.71E+07	1241	0.	TEMP (C)
10	1.25E+10	102	8.59E+06	1538	0.	-16.7
12	1.33E+10	122	4.58E+06	1835	0.	
14	1.54E+10	142	2.51E+06	2132	0.	FROSTPOINT
16	9.55E+09	161	1.52E+06	2429	0.	-14.7
18	8.78E+09	181	7.18E+05	2726	0.	
20	4.31E+09	201	3.86E+05	3023	0.	TAS (M/S)
22	3.84E+09	221	1.95E+05	3320	0.	134.5
24	2.23E+09	241	3.42E+04	3617	0.	
26	2.84E+09	260	5.31E+04	3914	0.	NT (N/M3)
28	1.22E+09	280	1.02E+05	4211	0.	2664930.1
30	2.82E+09	300	6.36E+04	4508	0.	
						TOTALS
LWC	4.63E-01		7.43E-01		3.74E-32	7.81E-01
MED D	21		115		412	119

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	5.78E+08	23	1.27E+08	404	8.98E+03	ALT (KM)
4	2.03E+09	43	9.13E+07	647	1.53E+01	4.868
6	5.78E+09	62	4.49E+07	944	0.	
8	8.84E+09	82	2.23E+07	1241	0.	TEMP (C)
10	1.28E+10	102	1.28E+07	1538	0.	-16.8
12	1.31E+10	122	7.13E+06	1835	0.	
14	1.69E+10	142	3.56E+06	2132	0.	FROSTPOINT
16	9.54E+09	161	1.52E+06	2429	0.	-14.6
18	9.19E+09	181	1.18E+06	2726	0.	
20	3.96E+09	201	4.20E+05	3023	0.	TAS (M/S)
22	3.75E+09	221	5.34E+05	3320	0.	134.5
24	2.05E+09	241	4.10E+05	3617	0.	
26	3.00E+09	260	3.06E+05	3914	0.	NT (N/M3)
28	1.19E+09	280	2.28E+05	4211	0.	2682137.7
30	3.00E+09	300	1.36E+05	4508	0.	
						TOTALS
LWC	4.66E-01		1.16E+00		5.96E-32	1.22E+00
MED D	21		127		406	131

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	7.37E+08	23	9.39E+07	404	1.59E+04	ALT (KM)
4	1.48E+09	43	5.52E+07	647	0.	4.868
6	4.58E+09	62	3.16E+07	944	0.	
8	7.57E+09	82	1.55E+07	1241	0.	TEMP (C)
10	1.11E+10	102	1.02E+07	1538	0.	-16.8
12	1.29E+10	122	4.58E+06	1835	0.	
14	1.55E+10	142	2.16E+06	2132	0.	FROSTPOINT
16	1.83E+10	161	1.20E+06	2429	0.	-14.7
18	9.92E+09	181	7.44E+05	2726	0.	
20	4.71E+09	201	3.54E+05	3023	0.	TAS (M/S)
22	4.84E+09	221	3.59E+05	3320	0.	134.4
24	2.38E+09	241	6.84E+04	3617	0.	
26	3.39E+09	260	4.66E+04	3914	0.	NT (N/M3)
28	1.29E+09	280	3.18E+04	4211	0.	2422916.5
30	3.87E+09	300	2.94E+04	4508	0.	
						TOTALS
LWC	4.95E-01		7.06E-01		1.04E-31	8.10E-01
MED D	21		114		404	126

SAMPLE: 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:25:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 40 GPM DISTANCE: 200 FT CAL FACTOR: 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	6.33E+08	23	1.14E+08	404	5.77E+14	ALT (KM)
4	3.38E+09	43	8.97E+07	647	3.	4.870
6	8.42E+09	62	4.36E+07	944	0.	
8	1.24E+10	82	2.58E+07	1241	0.	TEMP (C)
10	1.49E+10	102	1.26E+07	1538	0.	-16.8
12	1.41E+10	122	6.31E+06	1835	0.	
14	1.46E+10	142	3.30E+06	2132	0.	FROSTPOINT
16	8.13E+09	161	1.54E+06	2429	0.	-14.6
18	6.87E+09	181	1.38E+06	2726	0.	
20	2.95E+09	201	7.54E+05	3023	0.	TAS (M/S)
22	2.59E+09	221	4.31E+05	3320	0.	134.4
24	1.42E+09	241	1.71E+05	3617	0.	
26	1.96E+09	261	1.41E+05	3914	0.	NT (N/M3)
28	9.67E+08	280	1.15E+05	4211	0.	3681336.6
30	2.44E+09	300	1.13E+05	4508	0.	
						TOTALS
LWC	3.66E-01		1.16E+00		3.88E-31	1.44E+00
MED D	19		119		404	149

SAMPLE# 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:25:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 48 GPM DISTANCE# 200 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.24E+09	23	1.26E+05	404	1.82E+04	ALT (KM)
4	5.77E+09	43	9.83E+07	647	3.01E+01	4.868
6	1.38E+10	62	5.32E+07	944	0.	
8	1.66E+10	82	2.69E+07	1241	0.	TEMP (C)
10	1.49E+10	102	1.43E+07	1538	0.	-16.5
12	9.94E+09	122	9.38E+06	1835	0.	
14	9.23E+09	142	3.94E+06	2132	0.	FROSTPOINT
16	3.43E+09	161	1.76E+06	2429	0.	-14.8
18	3.14E+09	181	9.39E+05	2726	0.	
20	1.41E+09	201	7.82E+05	3023	0.	TAS (M/S)
22	1.54E+09	221	4.60E+05	3320	0.	134.7
24	9.2eE+08	241	3.42E+05	3617	0.	
26	1.19E+09	260	2.33E+05	3914	0.	NT (N/M3)
28	4.7eE+08	280	1.37E+05	4211	0.	2873571.8
30	1.21E+09	301	1.23E+05	4508	0.	
						TOTALS
LWC	2.21E-01		1.23E+00		6.93E-12	1.30E+00
MED D	19		123		406	127

SAMPLE# 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:25:20
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 48 GPM DISTANCE# 200 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	8.83E+08	23	9.36E+07	404	7.52E+03	ALT (KM)
4	3.51E+09	43	8.71E+07	647	1.58E+01	4.868
6	9.50E+09	62	3.51E+07	944	0.	
8	1.33E+10	82	2.12E+07	1241	0.	TEMP (C)
10	1.56E+10	102	1.32E+07	1538	0.	-16.6
12	1.20E+10	122	6.51E+06	1835	0.	
14	1.27E+10	142	4.88E+06	2132	0.	FROSTPOINT
16	6.27E+09	161	1.49E+06	2429	0.	-14.8
18	5.47E+09	181	1.35E+06	2726	0.	
20	2.63E+09	201	9.63E+05	3023	0.	TAS (M/S)
22	2.46E+09	221	4.32E+05	3320	0.	134.7
24	1.32E+09	241	2.45E+05	3617	0.	
26	1.72E+09	260	1.99E+05	3914	0.	NT (N/M3)
28	8.7eE+08	280	1.74E+05	4211	0.	3713339.7
30	1.76E+09	301	1.36E+05	4508	0.	
						TOTALS
LWC	3.24E-01		1.34E+00		5.81E-12	1.69E+00
MED D	20		424		406	128

SAMPLE# 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:25:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 48 GPM DISTANCE# 200 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	7.94E+08	23	1.19E+06	404	7.47E+03	ALT (KM)
4	5.80E+09	43	9.25E+07	647	3.08E+01	4.868
6	1.19E+10	62	4.86E+07	944	0.	
8	1.44E+10	82	2.44E+07	1241	0.	TEMP (C)
10	1.55E+10	102	1.34E+07	1538	0.	-16.5
12	1.38E+10	122	7.31E+06	1835	0.	
14	1.05E+10	142	3.98E+06	2132	0.	FROSTPOINT
16	4.49E+09	161	1.93E+06	2429	0.	-14.8
18	3.65E+09	181	1.41E+06	2726	0.	
20	1.82E+09	201	4.47E+05	3023	0.	TAS (M/S)
22	1.77E+09	221	4.83E+05	3320	0.	134.8
24	1.07E+09	241	2.73E+05	3617	0.	
26	1.29E+09	260	1.93E+05	3914	0.	NT (N/M3)
28	5.04E+08	280	1.23E+05	4211	0.	3686648.9
30	1.26E+09	300	7.98E+04	4508	0.	
						TOTALS
LWC	2.47E-01		1.13E+00		5.84E-12	1.38E+00
MED D	19		122		407	125

SAMPLE# 24 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:25:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 18 PSI H2O FLOW RATE# 48 GPM DISTANCE# 200 FT CAL FACTOR# 16.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	5.2eE+08	23	9.89E+07	404	8.69E+03	ALT (KM)
4	2.46E+09	43	5.35E+07	647	3.81E+01	4.868
6	6.81E+09	62	4.17E+07	944	0.	
8	9.73E+09	82	1.85E+07	1241	0.	TEMP (C)
10	1.38E+10	102	1.31E+07	1538	0.	-16.7
12	1.25E+10	122	5.42E+06	1835	0.	
14	1.48E+10	142	2.68E+06	2132	0.	FROSTPOINT
16	8.32E+09	161	1.49E+06	2429	0.	-14.7
18	7.97E+09	181	7.44E+05	2726	0.	
20	3.79E+09	201	5.31E+05	3023	0.	TAS (M/S)
22	3.34E+09	221	3.69E+05	3320	0.	134.5
24	1.95E+09	241	2.89E+05	3617	0.	
26	2.94E+09	260	1.96E+05	3914	0.	NT (N/M3)
28	1.19E+09	280	1.58E+05	4211	0.	2704638.1
30	2.98E+09	300	1.11E+05	4508	0.	
						TOTALS
LWC	4.38E-01		8.37E-01		5.97E-12	9.97E-01
MED D	21		123		407	129

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	6.17E+07	23	2.19E+07	484	0.	ALT (KM)
4	3.22E+08	43	8.39E+06	647	0.	4.857
6	6.17E+08	62	5.16E+06	944	0.	
8	7.68E+08	82	1.38E+06	1241	0.	TEMP (C)
10	4.88E+08	102	7.37E+05	1538	0.	-16.8
12	3.29E+08	122	3.69E+05	1835	0.	
14	3.15E+08	142	1.16E+05	2132	0.	FROSTPOINT
16	1.78E+08	161	7.18E+04	2429	0.	-15.5
18	1.71E+08	181	0.	2726	0.	
20	9.68E+07	201	0.	3023	0.	TAS (M/S)
22	7.54E+07	221	0.	3320	0.	133.5
24	5.48E+07	241	3.45E+04	3617	0.	
26	2.74E+07	260	0.	3914	0.	NT (N/M3)
28	1.37E+07	280	0.	4211	0.	733452.1
30	6.86E+06	300	0.	4508	0.	
						TOTALS
LWC	8.07E-03		6.21E-02		0.	6.21E-02
MED D	18		86		0	86

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:36
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.38E+08	23	2.77E+07	484	0.	ALT (KM)
4	3.61E+08	43	1.05E+07	647	0.	4.857
6	7.14E+08	62	7.74E+06	944	0.	
8	7.02E+08	82	2.69E+06	1241	0.	TEMP (C)
10	5.98E+08	102	1.24E+06	1538	0.	-16.8
12	4.41E+08	122	6.37E+05	1835	0.	
14	3.53E+08	142	3.75E+05	2132	0.	FROSTPOINT
16	2.23E+08	161	2.14E+05	2429	0.	-15.6
18	1.88E+08	181	1.33E+05	2726	0.	
20	1.31E+08	201	2.85E+04	3023	0.	TAS (M/S)
22	8.65E+08	221	3.99E+04	3320	0.	134.2
24	5.83E+08	241	3.43E+04	3617	0.	
26	4.36E+08	260	0.	3914	0.	NT (N/M3)
28	2.45E+08	280	0.	4211	0.	687758.2
30	3.55E+08	300	0.	4508	0.	
						TOTALS
LWC	1.07E-01		1.21E-01		0.	1.21E-01
MED D	19		181		0	181

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	4.51E+08	23	2.28E+07	484	0.	ALT (KM)
4	1.42E+09	43	1.25E+07	647	0.	4.857
6	2.71E+09	62	5.83E+06	944	0.	
8	3.87E+09	82	2.53E+06	1241	0.	TEMP (C)
10	2.63E+09	102	8.44E+05	1538	0.	-16.8
12	1.92E+09	122	6.25E+05	1835	0.	
14	1.78E+09	142	2.99E+05	2132	0.	FROSTPOINT
16	1.23E+09	161	4.77E+04	2429	0.	-15.6
18	8.68E+08	181	5.15E+04	2726	0.	
20	5.28E+08	201	2.91E+04	3023	0.	TAS (M/S)
22	4.19E+08	221	0.	3320	0.	193.8
24	2.53E+08	241	0.	3617	0.	
26	1.57E+08	260	0.	3914	0.	NT (N/M3)
28	6.84E+07	280	0.	4211	0.	437259.2
30	1.16E+08	300	0.	4508	0.	
						TOTALS
LWC	4.56E-02		7.37E-02		0.	7.97E-02
MED D	18		89		0	89

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.65E+09	23	2.86E+07	484	0.	ALT (KM)
4	5.38E+09	43	1.51E+07	647	0.	4.857
6	8.92E+09	62	1.34E+07	944	0.	
8	9.39E+09	82	3.58E+06	1241	0.	TEMP (C)
10	7.79E+09	102	1.59E+06	1538	0.	-16.1
12	5.57E+09	122	6.62E+05	1835	0.	
14	4.82E+09	142	3.47E+05	2132	0.	FROSTPOINT
16	2.98E+09	161	1.13E+05	2429	0.	-15.7
18	2.79E+09	181	1.55E+05	2726	0.	
20	1.65E+09	201	0.	3023	0.	TAS (M/S)
22	1.28E+09	221	0.	3320	0.	133.9
24	7.31E+08	241	0.	3617	0.	
26	6.63E+08	260	0.	3914	0.	NT (N/M3)
28	2.39E+08	280	0.	4211	0.	633895.7
30	5.19E+08	300	0.	4508	0.	
						TOTALS
LWC	1.43E-01		1.19E-01		0.	1.19E-01
MED D	19		88		0	88

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:40
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	2.28E+09	23	3.30E+07	404	0.	ALT (KM)
4	8.10E+09	43	2.26E+07	647	0.	4.857
6	1.22E+10	62	1.81E+07	944	0.	
8	1.21E+10	82	3.92E+06	1241	0.	TEMP (C)
10	9.93E+09	102	2.35E+06	1538	0.	-16.2
12	7.39E+09	122	1.37E+06	1835	0.	
14	6.62E+09	142	5.53E+05	2132	0.	FROSTPOINT
16	4.83E+09	161	1.44E+05	2429	0.	-15.7
18	3.86E+09	181	5.19E+04	2726	0.	
20	2.37E+09	201	1.13E+04	3023	0.	TAS (M/S)
22	1.82E+09	221	0.	3320	0.	133.8
24	1.03E+09	241	3.46E+04	3617	0.	
26	9.98E+08	260	0.	3914	0.	NT (N/M3)
28	5.30E+08	280	0.	4211	0.	812928.8
30	8.11E+08	300	0.	4508	0.	
						TOTALS
LWC	2.09E-01		1.52E-01		0.	1.62E-01
MED D	19		98		0	98

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	2.16E+09	23	3.78E+07	404	0.	ALT (KM)
4	7.58E+09	43	2.12E+07	647	0.	4.857
6	1.19E+10	62	9.21E+06	944	0.	
8	1.26E+10	82	4.32E+06	1241	0.	TEMP (C)
10	1.03E+10	102	2.14E+06	1538	0.	-16.2
12	6.89E+09	122	1.14E+06	1835	0.	
14	6.52E+09	142	4.36E+05	2132	0.	FROSTPOINT
16	3.79E+09	161	1.20E+05	2429	0.	-15.8
18	3.64E+09	181	7.74E+04	2726	0.	
20	2.39E+09	201	1.97E+05	3023	0.	TAS (M/S)
22	1.93E+09	221	3.10E+04	3320	0.	133.6
24	1.03E+09	241	0.	3617	0.	
26	1.08E+09	260	0.	3914	0.	NT (N/M3)
28	4.72E+08	280	0.	4211	0.	742448.6
30	7.07E+08	300	0.	4508	0.	
						TOTALS
LWC	2.03E-01		1.37E-01		0.	1.57E-01
MED D	19		100		0	100

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	2.46E+09	23	3.88E+07	404	8.61E+03	ALT (KM)
4	7.96E+09	43	2.23E+07	647	0.	4.856
6	1.32E+10	62	1.89E+07	944	0.	
8	1.34E+10	82	9.22E+06	1241	0.	TEMP (C)
10	1.06E+10	102	1.39E+06	1538	0.	-16.2
12	7.68E+09	122	1.11E+06	1835	0.	
14	7.17E+09	142	6.58E+05	2132	0.	FROSTPOINT
15	4.22E+09	161	2.39E+05	2429	0.	-15.7
18	4.09E+09	181	1.81E+05	2726	0.	
20	2.92E+09	201	5.54E+04	3023	0.	TAS (M/S)
22	2.88E+09	221	9.86E+04	3320	0.	133.5
24	1.19E+09	241	6.89E+04	7617	0.	
26	9.94E+08	260	3.45E+04	3914	0.	NT (N/M3)
28	6.83E+08	280	1.72E+04	4211	0.	911504.9
30	8.57E+08	300	1.54E+04	4508	0.	
						TOTALS
LWC	2.26E-01		1.36E-01		5.66E-02	2.53E-01
MED D	19		115		484	144

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	2.15E+09	23	3.79E+07	404	0.	ALT (KM)
4	6.91E+09	43	2.17E+07	647	0.	4.857
6	1.12E+10	62	8.87E+06	944	0.	
8	1.23E+10	82	3.66E+06	1241	0.	TEMP (C)
10	1.04E+10	102	1.74E+06	1538	0.	-16.2
12	7.35E+09	122	9.22E+05	1835	0.	
14	7.09E+09	142	3.49E+05	2132	0.	FROSTPOINT
15	4.46E+09	161	1.58E+05	2429	0.	-15.8
18	4.24E+09	181	1.29E+05	2726	0.	
20	2.45E+09	201	0.	3323	0.	TAS (M/S)
22	1.92E+09	221	0.	1320	0.	133.5
24	1.36E+09	241	0.	3617	0.	
26	1.08E+09	260	0.	3914	0.	NT (N/M3)
28	5.21E+08	280	0.	4211	0.	725082.7
30	8.91E+08	300	0.	4508	0.	
						TOTALS
LWC	2.21E-01		1.28E-01		0.	1.28E-01
MED D	19		98		0	98

SAMPLE: 25

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MM)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.6
2	2.32E+09	23	3.81E+07	484	4.68E+03	ALT (KM)
4	6.95E+09	43	1.35E+07	647	0.	4.854
6	1.19E+10	62	1.88E+07	964	0.	
8	1.23E+10	82	9.17E+06	1241	0.	TEMP (C)
10	1.11E+10	102	1.71E+06	1538	0.	-16.2
12	7.63E+09	122	7.36E+05	1835	0.	
14	7.86E+09	142	3.51E+05	2132	0.	FROSTPOINT
16	4.49E+09	161	2.17E+05	2429	0.	-15.9
18	4.44E+09	181	1.36E+05	2726	0.	
20	2.63E+09	201	8.32E+04	3023	0.	TAS (M/S)
22	2.11E+09	221	0.	3320	0.	132.4
24	1.13E+09	241	3.47E+04	3617	0.	
26	1.33E+09	260	2.46E+04	3914	0.	NT (N/M3)
28	5.66E+08	299	1.74E+04	4211	0.	694798.2
30	1.84E+09	300	1.35E+04	4508	0.	
						TOTALS
LWC	2.36E-01		1.52E-01		5.71E-02	2.09E-01
MED D	28		104		484	146

SAMPLE: 25

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.4
2	2.31E+09	23	4.73E+07	484	0.	ALT (KM)
4	7.47E+09	43	2.70E+07	647	0.	4.857
6	1.23E+10	62	1.17E+07	964	0.	
8	1.25E+10	82	4.73E+06	1241	0.	TEMP (C)
10	1.08E+10	102	2.36E+06	1538	0.	-16.2
12	6.76E+09	122	8.94E+05	1835	0.	
14	6.83E+09	142	6.16E+05	2132	0.	FROSTPOINT
16	4.82E+09	161	2.56E+05	2429	0.	-15.9
18	3.95E+09	181	1.34E+05	2726	0.	
20	2.23E+09	201	1.71E+05	3023	0.	TAS (M/S)
22	1.90E+09	221	3.13E+04	3320	0.	132.1
24	1.15E+09	241	0.	3617	0.	
26	9.62E+08	260	0.	3914	0.	NT (N/M3)
28	5.47E+08	280	0.	4211	0.	931732.7
30	8.24E+08	300	0.	4508	0.	
						TOTALS
LWC	2.08E-01		1.05E-01		0.	1.05E-01
MED D	19		98		0	98

SAMPLE: 25

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.4
2	2.28E+09	23	3.41E+07	484	0.	ALT (KM)
4	7.43E+09	43	2.97E+07	647	0.	4.857
6	1.18E+10	62	1.17E+07	964	0.	
8	1.12E+10	82	5.32E+06	1241	0.	TEMP (C)
10	8.39E+09	102	2.26E+06	1538	0.	-16.2
12	5.55E+09	122	9.38E+05	1835	0.	
14	5.58E+09	142	4.38E+05	2132	0.	FROSTPOINT
16	2.85E+09	161	1.21E+05	2429	0.	-16.0
18	3.45E+09	181	2.61E+04	2726	0.	
20	2.88E+09	201	2.84E+04	3023	0.	TAS (M/S)
22	1.67E+09	221	6.26E+04	3320	0.	132.4
24	8.57E+08	241	0.	3617	0.	
26	8.29E+08	260	0.	3914	0.	NT (N/M3)
28	4.23E+08	280	0.	4211	0.	967660.6
30	6.57E+08	300	0.	4508	0.	
						TOTALS
LWC	1.73E-01		1.52E-01		0.	1.62E-01
MED D	19		98		0	98

SAMPLE: 25

AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.2
2	1.73E+09	23	3.13E+07	484	0.	ALT (KM)
4	5.65E+09	43	1.58E+07	647	0.	4.860
6	8.79E+09	62	7.37E+06	964	0.	
8	9.83E+09	82	3.37E+06	1241	0.	TEMP (C)
10	6.75E+09	102	1.45E+06	1538	0.	-16.1
12	4.68E+09	122	9.25E+05	1835	0.	
14	4.83E+09	142	6.12E+05	2132	0.	FROSTPOINT
16	2.42E+09	161	2.16E+05	2429	0.	-16.0
18	2.24E+09	181	5.19E+04	2726	0.	
20	1.51E+09	201	2.13E+04	3023	0.	TAS (M/S)
22	1.11E+09	221	6.23E+04	3320	0.	132.0
24	6.26E+08	241	0.	3617	0.	
26	5.23E+08	260	0.	3914	0.	NT (N/M3)
28	2.68E+08	280	0.	4211	0.	618774.4
30	3.65E+08	300	0.	4508	0.	
						TOTALS
LWC	1.22E-01		1.36E-01		0.	1.36E-01
MED D	19		100		0	100

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:40*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.4
2	8.22E+08	23	2.51E+07	484	0.	ALT (KM)
4	2.58E+09	43	1.91E+07	647	0.	4.857
6	4.84E+09	62	8.85E+06	944	0.	
8	5.82E+09	82	3.25E+06	1241	0.	TEMP (C)
10	4.88E+09	102	1.71E+06	1538	0.	-16.1
12	2.86E+09	122	6.82E+05	1835	0.	
14	2.46E+09	142	2.63E+05	2132	0.	FROSTPOINT
16	1.69E+09	161	1.59E+05	2429	0.	-16.1
18	1.59E+09	181	7.61E+04	2726	0.	
20	9.33E+08	201	5.68E+04	3023	0.	TAS (M/S)
22	5.46E+08	221	3.13E+04	3320	0.	132.4
24	3.88E+08	241	3.47E+04	3617	0.	
26	3.84E+08	260	0.	3914	0.	NT (N/M3)
28	1.66E+08	280	0.	4211	0.	579687.8
30	2.21E+08	300	0.	4508	0.	
						TOTALS
LWC	7.48E-02		1.17E-01		0.	1.17E-01
MED D	18		95		0	95

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.1
2	2.09E+07	23	1.52E+07	484	6.56E+03	ALT (KM)
4	1.18E+08	43	9.84E+06	647	0.	4.861
6	1.74E+08	62	4.36E+06	944	0.	
8	2.23E+08	82	1.19E+06	1241	0.	TEMP (C)
10	1.95E+08	102	9.09E+05	1538	0.	-15.8
12	1.46E+08	122	5.61E+05	1835	0.	
14	1.11E+08	142	2.36E+05	2132	0.	FROSTPOINT
16	1.04E+08	161	9.71E+04	2429	0.	-16.2
18	1.32E+08	181	2.62E+04	2726	0.	
20	5.54E+07	201	2.96E+04	3023	0.	TAS (M/S)
22	1.39E+07	221	3.15E+04	3320	0.	131.6
24	4.87E+07	241	0.	3617	0.	
26	1.39E+07	260	6.56E+03	3914	0.	NT (N/M3)
28	0.	280	1.31E+04	4211	0.	338080.9
30	6.95E+06	300	1.17E+04	4508	0.	
						TOTALS
LWC	4.89E-03		7.66E-02		4.31E-02	1.20E-01
MED D	18		118		484	144

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:49*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.2
2	1.86E+08	23	9.83E+06	484	0.	ALT (KM)
4	5.46E+08	43	7.17E+06	647	0.	4.860
6	1.15E+09	62	3.34E+06	944	0.	
8	1.28E+09	82	1.48E+06	1241	0.	TEMP (C)
10	9.46E+08	102	7.51E+05	1538	0.	-15.8
12	7.04E+08	122	6.32E+05	1835	0.	
14	5.46E+08	142	1.64E+05	2132	0.	FROSTPOINT
16	3.88E+08	161	1.21E+05	2429	0.	-16.2
18	3.52E+08	181	5.21E+04	2726	0.	
20	2.28E+08	201	2.94E+04	3023	0.	TAS (M/S)
22	1.18E+08	221	0.	3320	0.	132.5
24	6.21E+07	241	0.	3617	0.	
26	6.91E+07	260	0.	3914	0.	NT (N/M3)
28	2.07E+07	280	0.	4211	0.	262862.2
30	4.14E+07	300	0.	4508	0.	
						TOTALS
LWC	1.68E-02		5.58E-02		0.	5.58E-02
MED D	18		109		0	109

SAMPLE: 25 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:26:54*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 300 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.0
2	2.02E+08	23	9.88E+06	484	0.	ALT (KM)
4	4.52E+08	43	7.37E+06	647	0.	4.863
6	1.17E+09	62	3.49E+06	944	0.	
8	1.14E+09	82	1.26E+06	1241	0.	TEMP (C)
10	1.07E+09	102	7.37E+05	1538	0.	-15.8
12	7.85E+08	122	3.74E+05	1835	0.	
14	6.67E+08	142	1.18E+05	2132	0.	FROSTPOINT
16	4.38E+08	161	7.28E+04	2429	0.	-16.3
18	3.68E+08	181	5.24E+04	2726	0.	
20	2.85E+08	201	0.	3023	0.	TAS (M/S)
22	1.64E+08	221	3.14E+04	3320	0.	131.7
24	9.73E+07	241	0.	3617	0.	
26	8.34E+07	260	0.	3914	0.	NT (N/M3)
28	2.08E+07	280	0.	4211	0.	279672.9
30	6.25E+07	300	0.	4508	0.	
						TOTALS
LWC	1.93E-02		5.34E-02		0.	5.34E-02
MED D	18		99		0	98

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.2
2	1.66E+09	23	3.87E+07	484	8.56E+03	ALT (KM)
4	7.41E+09	43	2.16E+07	647	0.	4.868
6	1.45E+10	62	1.18E+07	944	0.	
8	1.95E+10	82	4.65E+06	1241	0.	TEMP (C)
10	1.39E+10	102	2.18E+06	1538	0.	-16.0
12	9.88E+09	122	1.25E+06	1835	0.	
14	9.78E+09	142	6.92E+05	2132	0.	FROSTPOINT
16	4.81E+09	161	3.83E+05	2429	0.	-18.2
18	5.13E+09	181	1.34E+05	2726	0.	
20	3.02E+09	201	1.12E+05	3023	0.	TAS (M/S)
22	2.89E+09	221	6.16E+04	3320	0.	134.4
24	1.82E+09	241	3.	3617	0.	
26	1.56E+09	260	6.36E+03	3914	0.	NT (N/M3)
28	1.18E+09	280	1.71E+04	4211	0.	911757.6
30	1.57E+09	300	1.53E+04	4508	0.	
						TOTALS
LWC	3.12E-01		1.35E-01		5.62E-02	2.51E-01
MED D	21		110		404	173

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.9
2	1.86E+09	23	7.72E+07	484	1.71E+04	ALT (KM)
4	8.55E+09	43	4.35E+07	647	0.	4.864
6	1.59E+10	62	2.39E+07	944	0.	
8	1.45E+10	82	1.37E+07	1241	0.	TEMP (C)
10	1.16E+10	102	5.49E+06	1538	0.	-16.1
12	7.31E+09	122	2.57E+06	1835	0.	
14	7.11E+09	142	1.15E+06	2132	0.	FROSTPOINT
16	3.61E+09	161	4.32E+05	2429	0.	-18.2
18	3.51E+09	181	3.34E+05	2726	0.	
20	2.62E+09	201	3.86E+05	3023	0.	TAS (M/S)
22	2.08E+09	221	9.24E+04	3320	0.	134.3
24	1.14E+09	241	0.	3617	0.	
26	1.12E+09	260	1.71E+04	3914	0.	NT (N/M3)
28	6.74E+08	280	3.42E+04	4211	0.	1917272.6
30	9.63E+08	300	3.42E+04	4508	0.	
						TOTALS
LWC	2.19E-01		4.28E-01		1.13E-01	5.40E-01
MED D	20		103		404	122

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.8
2	1.20E+09	23	6.32E+07	484	2.12E+03	ALT (KM)
4	5.98E+09	43	4.58E+07	647	1.51E+01	4.863
6	1.34E+10	62	1.34E+07	944	0.	
8	1.56E+10	82	8.44E+06	1241	0.	TEMP (C)
10	1.43E+10	102	4.75E+06	1538	0.	-16.0
12	9.26E+09	122	2.43E+06	1835	0.	
14	9.98E+09	142	1.18E+06	2132	0.	FROSTPOINT
16	5.17E+09	161	4.95E+05	2429	0.	-18.2
18	5.32E+09	181	3.18E+05	2726	0.	
20	2.98E+09	201	1.38E+05	3023	0.	TAS (M/S)
22	2.85E+09	221	1.23E+05	3320	0.	134.4
24	1.64E+09	241	1.83E+05	3617	0.	
26	1.98E+09	260	5.13E+04	3914	0.	NT (N/M3)
28	8.85E+08	280	2.37E+04	4211	0.	1658618.4
30	1.67E+09	300	1.72E+04	4508	0.	
						TOTALS
LWC	3.16E-01		9.89E-01		1.46E-02	4.83E-01
MED D	21		109		489	112

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 949.9
2	1.09E+09	23	4.65E+07	484	2.14E+14	ALT (KM)
4	4.87E+09	43	3.78E+07	647	0.	4.868
6	6.96E+09	62	1.32E+07	944	0.	
8	8.91E+09	82	7.27E+05	1241	0.	TEMP (C)
10	4.67E+09	102	3.41E+06	1538	0.	-16.1
12	3.42E+09	122	2.49E+06	1835	0.	
14	7.35E+09	142	6.32E+05	2132	0.	FROSTPOINT
16	2.18E+09	161	5.23E+05	2429	0.	-18.2
18	1.72E+09	181	3.88E+05	2726	0.	
20	1.11E+09	201	1.12E+05	3023	0.	TAS (M/S)
22	9.68E+08	221	1.23E+05	3320	0.	134.4
24	5.85E+08	241	6.54E+04	3617	0.	
26	4.83E+08	260	5.61E+04	3914	0.	NT (N/M3)
28	2.11E+08	280	4.28E+44	4211	0.	1296497.9
30	3.54E+08	300	3.83E+04	4508	0.	
						TOTALS
LWC	1.01E-01		3.26E-01		1.41E-01	4.67E-01
MED D	19		117		404	168

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.57E+08	23	4.26E+07	404	0.	ALT (KM)
4	4.22E+08	43	7.50E+07	647	0.	4.868
6	1.82E+09	62	1.34E+07	944	0.	
8	8.72E+08	82	5.46E+06	1241	0.	TEMP (C)
10	6.86E+08	102	2.92E+06	1538	0.	-15.9
12	4.89E+08	122	1.63E+06	1835	0.	
14	3.28E+08	142	6.06E+05	2132	0.	FROSTPOINT
16	1.77E+08	161	2.14E+05	2429	0.	-18.2
18	2.73E+08	181	1.98E+05	2726	0.	
20	1.57E+08	201	5.51E+04	3023	0.	TAS (M/S)
22	9.54E+07	221	0.	3320	0.	134.3
24	8.19E+07	241	0.	3617	0.	
26	4.89E+07	260	0.	3914	0.	NT (N/M3)
28	4.77E+07	280	0.	4211	0.	974333.3
30	5.45E+07	300	0.	4508	0.	
						TOTALS
LWC	1.27E-02		1.96E-01		0.	1.96E-01
MED D	20		95		0	95

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.53E+09	23	1.35E+08	404	6.44E+03	ALT (KM)
4	5.74E+09	43	6.40E+07	647	0.	4.867
6	1.14E+10	62	3.38E+07	944	0.	
8	1.14E+10	82	1.57E+07	1241	0.	TEMP (C)
10	8.90E+09	102	7.00E+06	1538	0.	-15.9
12	6.13E+09	122	3.53E+06	1835	0.	
14	6.13E+09	142	1.24E+06	2132	0.	FROSTPOINT
16	3.08E+09	161	5.49E+05	2429	0.	-18.2
18	3.49E+09	181	6.78E+05	2726	0.	
20	1.67E+09	201	1.59E+05	3023	0.	TAS (M/S)
22	1.70E+09	221	1.55E+05	3320	0.	133.8
24	1.03E+09	241	3.44E+04	3617	0.	
26	8.75E+08	260	2.10E+04	3914	0.	NT (N/M3)
28	5.47E+08	280	1.29E+04	4211	0.	2514077.2
30	7.31E+08	300	1.15E+04	4508	0.	
						TOTALS
LWC	1.83E-01		5.43E-01		4.24E-02	5.85E-01
MED D	20		99		404	104

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	3.55E+08	23	7.63E+07	404	6.43E+03	ALT (KM)
4	1.23E+09	43	5.03E+07	647	0.	4.868
6	2.21E+09	62	2.17E+07	944	0.	
8	2.49E+09	82	9.33E+06	1241	0.	TEMP (C)
10	1.55E+09	102	4.21E+06	1538	0.	-15.8
12	9.41E+08	122	1.59E+06	1835	0.	
14	8.86E+08	142	9.53E+05	2132	0.	FROSTPOINT
16	4.84E+08	161	4.32E+05	2429	0.	-18.2
18	5.39E+08	181	2.31E+05	2726	0.	
20	2.88E+08	201	5.51E+04	3023	0.	TAS (M/S)
22	2.18E+08	221	3.39E+04	3320	0.	134.2
24	1.16E+08	241	1.13E+05	3617	0.	
26	7.53E+07	260	3.64E+04	391,4	0.	NT (N/M3)
28	4.89E+07	280	1.29E+04	4211	0.	1739494.7
30	8.18E+07	300	1.15E+04	4508	0.	
						TOTALS
LWC	2.47E-02		3.87E-01		4.23E-02	3.79E-01
MED D	18		96		404	105

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.89E+09	23	7.26E+07	404	1.51E+04	ALT (KM)
4	7.65E+09	43	5.00E+07	647	0.	4.866
6	1.59E+10	62	2.55E+07	944	0.	
8	1.63E+10	82	1.15E+07	1241	0.	TEMP (C)
10	1.37E+10	102	5.52E+06	1538	0.	-16.0
12	9.41E+09	122	2.58E+06	1835	0.	
14	9.11E+09	142	1.54E+06	2132	0.	FROSTPOINT
16	4.76E+09	161	4.34E+05	2429	0.	-18.1
18	5.35E+09	181	4.65E+05	2726	0.	
20	2.90E+09	201	9.45E+04	3023	0.	TAS (M/S)
22	2.65E+09	221	1.36E+05	3320	0.	133.6
24	1.55E+09	241	6.98E+04	3617	0.	
26	1.65E+09	260	4.55E+04	3914	0.	NT (N/M3)
28	6.92E+08	280	3.01E+04	4211	0.	1965453.2
30	1.34E+09	300	2.70E+04	4508	0.	
						TOTALS
LWC	2.90E-01		4.53E-01		9.98E-02	5.92E-01
MED D	20		105		404	123

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	1.88E+09	23	3.19E+07	404	2.37E+04	ALT (KM)
4	5.69E+09	43	2.58E+07	647	0.	4.856
6	1.36E+10	62	1.10E+07	964	0.	
8	1.64E+10	82	4.77E+06	1241	0.	TEMP (C)
10	1.60E+10	102	1.85E+06	1538	0.	-16.1
12	1.17E+10	122	1.51E+06	1835	0.	
14	1.10E+10	142	6.98E+05	2132	0.	FROSTPOINT
16	6.10E+09	161	1.32E+05	2429	0.	-18.1
18	6.25E+09	181	2.83E+05	2726	0.	
20	3.88E+09	201	5.55E+04	3023	0.	TAS (M/S)
22	3.54E+09	221	1.35E+05	3320	0.	133.2
24	1.93E+09	241	6.38E+04	3617	0.	
26	2.31E+09	260	5.72E+04	3914	0.	NT (N/M3)
28	1.20E+09	280	4.75E+04	4211	0.	839870.2
30	2.22E+09	300	4.25E+04	4508	0.	
						TOTALS
LWC	3.89E-01		2.43E-01		1.56E-01	7.89E-01
MED D	21		124		404	231

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	8.59E+08	23	3.33E+07	484	4.23E+03	ALT (KM)
4	5.27E+09	43	3.17E+07	647	1.52E+01	4.863
6	1.23E+10	62	1.21E+07	964	0.	
8	1.56E+10	82	6.16E+06	1241	0.	TEMP (C)
10	1.55E+10	102	2.89E+06	1538	0.	-16.0
12	1.07E+10	122	1.49E+06	1835	0.	
14	1.13E+10	142	7.36E+05	2132	0.	FROSTPOINT
16	5.64E+09	161	2.88E+05	2429	0.	-18.1
18	6.17E+09	181	1.84E+05	2726	0.	
20	3.22E+09	201	1.74E+05	3023	0.	TAS (M/S)
22	3.33E+09	221	7.11E+04	3320	0.	133.2
24	1.95E+09	241	0.	3617	0.	
26	2.33E+09	260	3.54E+04	3914	0.	NT (N/M3)
28	1.11E+09	280	7.28E+04	4211	0.	1007177.5
30	2.07E+09	300	4.62E+04	4508	0.	
						TOTALS
LWC	7.68E-01		2.36E-01		2.85E-02	2.84E-01
MED D	21		110		407	120

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.0
2	1.23E+09	23	2.99E+07	484	0.	ALT (KM)
4	5.93E+09	43	1.58E+07	647	0.	4.863
6	1.38E+10	62	8.81E+06	964	0.	
8	1.59E+10	82	3.23E+06	1241	0.	TEMP (C)
10	1.53E+10	102	1.49E+06	1538	0.	-16.1
12	9.82E+09	122	4.31E+05	1835	0.	
14	1.06E+10	142	3.78E+05	2132	0.	FROSTPOINT
16	5.22E+09	161	9.53E+04	2429	0.	-18.1
18	5.89E+09	181	1.04E+05	2726	0.	
20	3.38E+09	201	8.48E+04	3023	0.	TAS (M/S)
22	3.12E+09	221	0.	3320	0.	133.1
24	1.63E+09	241	0.	3617	0.	
26	2.01E+09	260	0.	3914	0.	NT (N/M3)
28	9.62E+08	280	0.	4211	0.	591183.8
30	1.85E+09	300	0.	4508	0.	
						TOTALS
LWC	3.39E-01		1.12E-01		0.	1.12E-01
MED D	21		91		0	91

SAMPLE: 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:28:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.26E+09	23	6.28E+07	484	1.51E+04	ALT (KM)
4	5.91E+09	43	4.15E+07	647	0.	4.864
6	1.39E+10	62	1.59E+07	964	0.	
8	1.64E+10	82	9.44E+06	1241	0.	TEMP (C)
10	1.51E+10	102	4.54E+06	1538	0.	-16.0
12	1.04E+10	122	1.77E+06	1835	0.	
14	1.01E+10	142	1.11E+06	2132	0.	FROSTPOINT
16	5.01E+09	161	5.28E+05	2429	0.	-18.1
18	5.28E+09	181	1.55E+05	2726	0.	
20	3.17E+09	201	1.38E+05	3023	0.	TAS (M/S)
22	2.82E+09	221	1.24E+05	3320	0.	133.2
24	1.78E+09	241	1.84E+05	3617	0.	
26	2.13E+09	260	5.59E+04	3914	0.	NT (N/M3)
28	1.02E+09	280	3.82E+04	4211	0.	1518463.2
30	1.89E+09	300	2.70E+04	4508	0.	
						TOTALS
LWC	3.36E-01		3.55E-01		9.93E-02	4.04E-01
MED D	21		107		404	134

SAMPLE# 26 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:29:48
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	1.97E+03	23	6.58E+07	484	0.	ALT (KM)
4	8.38E+09	43	4.34E+07	647	0.	4.864
6	1.55E+10	62	2.24E+07	944	0.	
8	1.55E+10	82	1.34E+07	1241	0.	TEMP (C)
10	1.29E+10	102	4.29E+06	1538	0.	-16.1
12	8.13E+09	122	1.51E+06	1835	0.	
14	8.82E+09	142	9.58E+05	2132	0.	FROSTPOINT
16	4.88E+09	161	5.34E+05	2429	0.	-18.1
18	4.46E+09	181	3.53E+05	2726	0.	
20	2.78E+09	201	1.13E+05	3023	0.	TAS (M/S)
22	2.03E+09	221	6.22E+04	3320	0.	173.2
24	1.33E+09	241	3.24E+04	3617	0.	
26	1.25E+09	260	0.	3914	0.	NT (N/M3)
28	6.39E+08	280	0.	4211	0.	1792828.0
30	1.12E+09	300	0.	4508	0.	
						TOTALS
LWC	2.42E-01		3.54E-01		0.	7.58E-01
MED D	20		96		0	96

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:29:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	4.56E+08	23	6.33E+07	484	3.18E+34	ALT (KM)
4	2.48E+09	43	5.15E+07	647	0.	4.867
6	9.36E+09	62	2.42E+07	944	0.	
8	1.35E+10	82	1.73E+07	1241	0.	TEMP (C)
10	1.73E+10	102	6.23E+06	1538	0.	-16.8
12	1.79E+10	122	3.74E+06	1835	0.	
14	1.35E+10	142	1.51E+06	2132	0.	FROSTPOINT
16	6.85E+09	161	4.39E+05	2429	0.	-17.6
18	5.59E+09	181	3.59E+05	2726	0.	
20	2.59E+09	201	2.24E+05	3023	0.	TAS (M/S)
22	2.44E+09	221	1.34E+05	3320	0.	196.4
24	1.95E+09	241	1.73E+05	3617	0.	
26	2.39E+09	260	8.38E+04	3914	0.	NT (N/M3)
28	6.93E+08	280	4.36E+04	4211	0.	2888421.1
30	2.17E+09	300	5.59E+04	4508	0.	
						TOTALS
LWC	3.54E-01		5.17E-01		2.09E-31	7.76E-01
MED D	20		119		484	146

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:29:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	7.83E+08	23	5.14E+07	484	3.79E+33	ALT (KM)
4	4.19E+09	43	3.38E+07	647	1.51E+31	4.867
6	1.11E+10	62	1.79E+07	944	0.	
8	1.55E+10	82	7.23E+06	1241	0.	TEMP (C)
10	1.62E+10	102	4.35E+06	1538	0.	-15.9
12	1.11E+10	122	2.27E+06	1835	0.	
14	1.18E+10	142	1.59E+06	2132	0.	FROSTPOINT
16	6.43E+09	161	5.34E+05	2429	0.	-17.6
18	4.11E+09	181	3.34E+05	2726	0.	
20	2.14E+09	201	1.48E+05	3023	0.	TAS (M/S)
22	2.04E+09	221	2.46E+05	3320	0.	134.4
24	1.48E+09	241	1.71E+05	3617	0.	
26	1.82E+09	260	1.83E+05	3914	0.	NT (N/M3)
28	6.47E+08	280	6.17E+04	4211	0.	1374226.4
30	1.61E+09	300	3.96E+04	4508	0.	
						TOTALS
LWC	2.84E-01		4.24E-01		2.55E-32	6.58E-01
MED D	26		125		487	133

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 21:29:48
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	4.84E+08	23	5.12E+07	484	2.35E+33	ALT (KM)
4	2.58E+09	43	5.50E+07	647	1.51E+31	4.878
6	8.57E+09	62	2.33E+07	944	0.	
8	1.37E+10	82	1.25E+07	1241	0.	TEMP (C)
10	1.73E+10	102	7.32E+06	1538	0.	-16.1
12	1.23E+10	122	3.99E+05	1835	0.	
14	1.38E+10	142	2.11E+06	2132	0.	FROSTPOINT
16	5.81E+09	161	9.52E+05	2429	0.	-17.6
18	5.01E+09	181	4.53E+05	2726	0.	
20	2.62E+09	201	1.59E+05	3023	0.	TAS (M/S)
22	2.63E+09	221	2.16E+05	3320	0.	134.2
24	1.85E+09	241	7.43E+04	3617	0.	
26	2.63E+09	260	3.21E+04	3914	0.	NT (N/M3)
28	9.24E+08	280	9.05E+04	4211	0.	2251923.7
30	1.96E+09	300	2.84E+04	4508	0.	
						TOTALS
LWC	3.42E-01		5.66E-01		1.61E-32	9.02E-01
MED D	21		139		488	111

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:29:44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	8.86E+08	23	7.63E+07	484	2.82E+04	ALT (KM)
4	4.51E+09	43	6.39E+07	647	0.	4.871
6	1.14E+10	62	2.81E+07	944	0.	
8	1.59E+10	82	1.49E+07	1241	0.	TEMP (C)
10	1.69E+10	102	6.93E+06	1538	0.	-16.2
12	1.23E+10	122	3.96E+06	1835	0.	
14	1.17E+10	142	1.42E+06	2132	0.	FROSTPOINT
16	6.59E+09	161	5.18E+05	2429	0.	-17.6
18	4.13E+09	181	4.99E+05	2726	0.	
20	2.24E+09	201	2.24E+05	3023	0.	TAS (M/S)
22	2.29E+09	221	1.54E+05	3320	0.	134.2
24	1.13E+09	241	1.13E+05	3617	0.	
26	1.79E+09	260	6.45E+04	3914	0.	NT (N/M3)
28	7.64E+08	283	4.30E+04	4211	0.	2481236.0
30	1.62E+09	300	3.52E+04	4508	0.	
						TOTALS
LWC	2.92E-01		5.68E-01		1.33E-31	7.0?E-01
MED D	28		138		464	125

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:29:63*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	7.05E+08	23	1.19E+08	484	6.45E+03	ALT (KM)
4	3.48E+09	43	6.22E+07	647	0.	4.868
6	1.04E+10	62	3.36E+07	944	0.	
8	1.67E+10	82	1.59E+07	1241	0.	TEMP (C)
10	1.85E+10	102	7.85E+06	1538	0.	-16.1
12	1.27E+10	122	4.54E+06	1835	0.	
14	1.29E+10	142	2.83E+06	2132	0.	FROSTPOINT
16	5.22E+09	161	8.31E+05	2429	0.	-17.6
18	4.3?E+09	181	5.3?E+05	2726	0.	
20	2.15E+09	201	3.66E+05	3023	0.	TAS (M/S)
22	2.84E+09	221	2.48E+05	3320	0.	133.8
24	1.25E+09	241	0.	3617	0.	
26	1.83E+09	261	6.45E+04	3914	0.	NT (N/M3)
28	6.71E+08	283	1.29E+04	4211	0.	2571039.0
30	1.06E+09	300	1.15E+04	4508	0.	
						TOTALS
LWC	3.03E-01		6.19E-01		4.2?E-32	6.61E-01
MED D	19		107		484	112

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:29:62*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	4.99E+08	23	7.83E+07	484	3.36E+03	ALT (KM)
4	3.84E+09	43	6.71E+07	647	1.61E+31	4.870
6	9.27E+09	62	3.16E+07	944	0.	
8	1.38E+10	82	1.56E+07	1241	0.	TEMP (C)
10	1.74E+10	102	5.43E+06	1538	0.	-16.2
12	1.31E+10	122	4.33E+06	1835	0.	
14	1.32E+10	142	2.25E+06	2132	0.	FROSTPOINT
16	6.13E+09	161	1.12E+06	2429	0.	-17.6
18	5.19E+09	181	6.43E+05	2726	0.	
20	2.23E+09	201	4.77E+05	3023	0.	TAS (M/S)
22	1.99E+09	221	2.16E+05	3320	0.	134.8
24	1.32E+09	241	1.47E+05	3617	0.	
26	1.97E+09	260	4.41E+04	3914	0.	NT (N/M3)
28	7.37E+08	283	5.15E+04	4211	0.	2521239.6
30	1.84E+09	300	3.83E+04	4508	0.	
						TOTALS
LWC	3.18E-01		6.37E-01		2.27E-32	7.19E-01
MED D	19		115		497	118

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:29:44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	6.11E+08	23	9.16E+07	484	5.16E+03	ALT (KM)
4	2.76E+09	43	6.88E+07	647	1.52E+31	4.869
6	8.46E+09	62	3.29E+07	944	0.	
8	1.28E+10	82	1.46E+07	1241	0.	TEMP (C)
10	1.69E+10	102	3.46E+06	1538	0.	-16.2
12	1.36E+10	122	4.17E+06	1835	0.	
14	1.36E+10	142	2.32E+06	2132	0.	FROSTPOINT
16	6.53E+09	161	1.22E+06	2429	0.	-17.6
18	5.74E+09	181	6.72E+05	2726	0.	
20	2.51E+09	201	4.23E+05	3023	0.	TAS (M/S)
22	2.36E+09	221	2.18E+05	3320	0.	133.5
24	1.75E+09	241	6.89E+04	3617	0.	
26	2.41E+09	260	8.24E+04	3914	0.	NT (N/M3)
28	9.66E+08	283	9.84E+04	4211	0.	2581998.2
30	2.28E+09	300	6.15E+04	4508	0.	
						TOTALS
LWC	3.61E-01		7.15E-01		3.46E-32	7.49E-01
MED D	21		119		486	123

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:29:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	5.75E+08	23	5.87E+07	404	1.60E+04	ALT (KM)
4	2.98E+09	43	5.50E+07	647	0.	4.868
6	7.63E+09	62	2.57E+07	944	0.	
8	1.23E+10	82	1.24E+07	1241	0.	TEMP (C)
10	1.59E+10	102	5.77E+06	1538	0.	-16.2
12	1.35E+10	122	3.50E+06	1835	0.	
14	1.38E+10	142	1.54E+06	2132	0.	FROSTPOINT
16	6.56E+09	161	6.34E+05	2429	0.	-17.6
18	6.18E+09	181	5.16E+05	2726	0.	
20	2.08E+09	201	3.66E+05	3023	0.	TAS (M/S)
22	2.74E+09	221	2.17E+05	3320	0.	133.6
24	1.76E+09	241	3.44E+04	3617	0.	
26	2.23E+09	260	7.72E+04	3914	0.	NT (N/M3)
28	9.18E+08	280	3.20E+04	4211	0.	2117514.7
30	2.27E+09	300	2.86E+04	4508	0.	
						TOTALS
LWC	3.67E-01		5.18E-01		1.05E-01	6.23E-01
MED D	21		111		404	127

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:29:47*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.8
2	7.15E+08	23	3.18E+07	404	3.24E+04	ALT (KM)
4	3.43E+09	43	5.52E+07	647	0.	4.856
6	8.69E+09	62	2.33E+07	944	0.	
8	1.38E+10	82	1.25E+07	1241	0.	TEMP (C)
10	1.62E+10	102	7.34E+06	1538	0.	-16.2
12	1.32E+10	122	3.16E+06	1835	0.	
14	1.34E+10	142	2.30E+06	2132	0.	FROSTPOINT
16	6.67E+09	161	9.34E+05	2429	0.	-17.5
18	5.61E+09	181	5.14E+05	2726	0.	
20	2.94E+09	201	3.39E+05	3023	0.	TAS (M/S)
22	2.74E+09	221	1.55E+05	3320	0.	133.1
24	1.72E+09	241	3.46E+04	3617	0.	
26	2.13E+09	260	4.73E+04	3914	0.	NT (N/M3)
28	8.66E+08	280	6.48E+04	4211	0.	2148979.5
30	2.21E+09	300	5.30E+04	4508	0.	
						TOTALS
LWC	3.64E-01		5.91E-01		2.13E-01	7.93E-01
MED D	21		115		404	147

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:29:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	7.27E+08	23	5.57E+07	404	1.29E+04	ALT (KM)
4	3.48E+09	43	4.72E+07	647	0.	4.867
6	9.33E+09	62	2.19E+07	944	0.	
8	1.33E+10	82	1.41E+07	1241	0.	TEMP (C)
10	1.50E+10	102	5.93E+06	1538	0.	-16.2
12	1.21E+10	122	3.14E+06	1835	0.	
14	1.21E+10	142	1.33E+06	2132	0.	FROSTPOINT
16	5.20E+09	161	9.81E+05	2429	0.	-17.6
18	4.79E+09	181	5.17E+05	2726	0.	
20	2.06E+09	201	3.10E+05	3023	0.	TAS (M/S)
22	2.39E+09	221	2.79E+05	3320	0.	133.5
24	1.52E+09	241	1.72E+05	3617	0.	
26	2.13E+09	260	6.57E+04	3914	0.	NT (N/M3)
28	8.58E+08	280	2.38E+04	4211	0.	1910251.2
30	2.08E+09	300	2.51E+04	4508	0.	
						TOTALS
LWC	3.21E-01		5.58E-01		8.58E-02	6.35E-01
MED D	21		113		404	134

SAMPLE# 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:29:43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 35 GPM DISTANCE# 300 FT CAL FACTOR# 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	9.86E+08	23	3.65E+07	404	1.69E+13	ALT (KM)
4	4.33E+09	43	5.44E+07	647	3.03E+11	4.867
6	1.04E+10	62	3.18E+07	944	0.	
8	1.38E+10	82	1.37E+07	1241	0.	TEMP (C)
10	1.55E+10	102	7.41E+06	1538	0.	-16.5
12	1.17E+10	122	4.31E+06	1835	0.	
14	1.11E+10	142	2.23E+06	2132	0.	FROSTPOINT
16	5.33E+09	161	9.9CE+05	2429	0.	-17.5
18	4.48E+09	181	5.71E+05	2726	0.	
20	2.01E+09	201	3.13E+05	3023	0.	TAS (M/S)
22	2.26E+09	221	3.1CE+05	3320	0.	133.6
24	1.34E+09	241	2.41E+05	3617	0.	
26	1.91E+09	260	5.5AE+04	3914	0.	NT (N/M3)
28	7.19E+08	280	1.29E+04	4211	0.	2544950.4
30	1.79E+09	300	9.33E+03	4508	0.	
						TOTALS
LWC	2.99E-01		6.72E-01		1.24E-12	6.04E-01
MED D	20		115		415	116

SAMPLE: 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:29:48
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.59E+09	23	8.87E+07	404	2.25E+04	ALT (KM)
4	7.62E+09	43	5.27E+07	647	0.	4.867
6	1.34E+10	62	3.04E+07	944	0.	
8	1.48E+10	82	1.58E+07	1241	0.	TEMP (C)
10	1.25E+10	102	7.23E+06	1538	0.	-16.2
12	7.77E+09	122	4.35E+06	1835	0.	
14	7.55E+09	142	1.88E+06	2132	0.	FROSTPOINT
16	2.87E+09	161	9.38E+05	2429	0.	-17.5
18	2.61E+09	181	2.35E+05	2726	0.	
20	1.33E+09	201	4.80E+05	3023	0.	TAS (M/S)
22	1.23E+09	221	9.31E+04	3320	0.	173.4
24	9.48E+08	241	6.38E+04	3617	0.	
26	1.21E+09	260	5.57E+04	3914	0.	NT (N/M3)
28	5.76E+08	280	4.50E+04	4211	0.	2248832.2
30	1.86E+09	300	4.13E+04	4508	0.	
						TOTALS
LWC	1.98E-01		5.35E-01		1.48E-01	7.43E-01
MED D	20		111		404	126

SAMPLE: 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:29:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.04E+09	23	4.19E+07	404	7.48E+03	ALT (KM)
4	4.37E+09	43	4.12E+07	647	0.	4.870
6	5.78E+09	62	2.16E+07	944	0.	
8	4.27E+09	82	1.26E+07	1241	0.	TEMP (C)
10	2.55E+09	102	6.34E+06	1538	0.	-16.1
12	1.37E+09	122	3.18E+06	1835	0.	
14	1.43E+09	142	1.11E+06	2132	0.	FROSTPOINT
16	6.66E+08	161	6.24E+05	2429	0.	-17.5
18	6.66E+08	181	3.37E+05	2726	0.	
20	4.74E+08	201	1.41E+05	3023	0.	TAS (M/S)
22	3.16E+08	221	9.53E+04	3320	0.	133.2
24	3.37E+08	241	0.	3617	0.	
26	2.54E+08	260	7.40E+03	3914	0.	NT (N/M3)
28	1.58E+08	280	1.48E+04	4211	0.	1664837.5
30	1.79E+08	300	1.33E+04	4508	0.	
						TOTALS
LWC	4.73E-02		3.96E-01		4.87E-02	4.45E-01
MED D	20		105		404	112

SAMPLE: 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:29:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	2.41E+09	23	7.17E+07	404	6.99E+04	ALT (KM)
4	8.92E+09	43	4.38E+07	647	0.	4.867
6	1.42E+10	62	2.37E+07	944	0.	
8	1.21E+10	82	1.35E+07	1241	0.	TEMP (C)
10	8.69E+09	102	6.92E+06	1538	0.	-16.2
12	4.58E+09	122	3.84E+06	1835	0.	
14	4.34E+09	142	1.36E+06	2132	0.	FROSTPOINT
16	1.76E+09	161	8.38E+05	2429	0.	-17.5
18	1.49E+09	181	6.20E+05	2726	0.	
20	8.16E+08	201	1.59E+05	3023	0.	TAS (M/S)
22	9.53E+08	221	1.55E+05	3320	0.	133.5
24	5.62E+08	241	6.89E+04	3617	0.	
26	8.36E+08	260	9.91E+04	3914	0.	NT (N/M3)
28	3.84E+08	280	1.48E+05	4211	0.	2138851.2
30	5.76E+08	300	1.25E+05	4508	0.	
						TOTALS
LWC	1.29E-01		6.15E-01		4.59E-01	1.07E+00
MED D	20		113		404	259

SAMPLE: 27 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:29:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 300 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	1.66E+09	23	5.48E+07	404	1.51E+04	ALT (KM)
4	3.25E+09	43	4.49E+07	647	0.	4.871
6	4.14E+09	62	1.91E+07	944	0.	
8	3.03E+09	82	1.19E+07	1241	0.	TEMP (C)
10	1.74E+09	102	5.38E+06	1538	0.	-16.8
12	9.47E+08	122	2.71E+05	1835	0.	
14	8.19E+08	142	1.48E+06	2132	0.	FROSTPOINT
16	5.23E+08	161	5.39E+05	2429	0.	-17.5
18	5.70E+08	181	2.59E+05	2726	0.	
20	2.54E+08	201	1.38E+05	3023	0.	TAS (M/S)
22	3.50E+08	221	7.11E+04	3320	0.	133.3
24	2.75E+08	241	6.98E+04	3617	0.	
26	1.78E+08	260	4.57E+04	3914	0.	NT (N/M3)
28	8.24E+07	280	3.02E+04	4211	0.	1698139.5
30	8.24E+07	300	2.70E+04	4508	0.	
						TOTALS
LWC	3.28E-02		4.10E-01		9.92E-02	5.09E-01
MED D	20		103		404	126

SAMPLE: 27 — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:29:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI — H2O FLOW RATE: 35 GPM — DISTANCE: 300 FT — CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	7.49E+08	23	6.79E+07	484	4.81E+03	ALT (KM)
4	2.58E+09	43	5.38E+07	647	1.52E+01	4.878
6	3.79E+09	62	2.78E+07	944	0.	
8	2.79E+09	82	1.58E+07	1241	0.	TEMP (C)
10	1.79E+09	102	7.53E+06	1538	0.	-15.9
12	9.21E+08	122	4.25E+06	1835	0.	
14	7.69E+08	142	1.59E+06	2132	0.	FROSTPOINT
16	3.57E+08	161	9.48E+05	2429	0.	-17.5
18	4.74E+08	181	5.70E+05	2726	0.	
20	3.43E+08	211	3.11E+05	3023	0.	TAS (M/S)
22	2.36E+08	221	2.18E+05	3320	0.	133.2
24	1.72E+08	241	?.	3617	0.	
26	1.65E+08	260	4.41E+04	3914	0.	NT (N/M3)
28	7.56E+07	290	8.32E+04	4211	0.	2287710.8
30	1.24E+08	300	5.35E+04	4508	0.	
						TOTALS
LWC	2.97E-02		5.35E-01		3.22E-02	6.28E-01
MED D	20		112		486	116

SAMPLE: 28A — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:34:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI — H2O FLOW RATE: 46 GPM — DISTANCE: 300 FT — CAL FACTOR: 10.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	4.38E+08	23	9.89E+07	484	1.56E+04	ALT (KM)
4	1.72E+09	43	6.79E+07	647	7.46E+01	4.871
6	5.28E+09	62	3.89E+07	944	0.	
8	9.21E+09	82	2.22E+07	1241	0.	TEMP (C)
10	1.28E+10	102	1.35E+07	1538	0.	-15.5
12	1.11E+10	122	7.87E+06	1835	0.	
14	1.23E+10	142	3.71E+06	2132	0.	FROSTPOINT
16	6.42E+09	161	1.57E+06	2429	0.	-18.6
18	6.58E+09	181	9.39E+05	2726	0.	
20	3.27E+09	201	6.18E+05	3023	0.	TAS (M/S)
22	3.48E+09	221	3.56E+05	3320	0.	135.7
24	1.97E+09	241	1.36E+05	3617	0.	
26	3.33E+09	260	1.88E+05	3914	0.	NT (N/M3)
28	1.44E+09	288	2.38E+05	4211	0.	3013951.7
30	2.83E+09	303	1.34E+05	4508	0.	
						TOTALS
LWC	4.17E-01		1.83E+00		1.06E-01	1.13E+00
MED D	22		127		487	175

SAMPLE: 27 — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:29:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI — H2O FLOW RATE: 35 GPM — DISTANCE: 300 FT — CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	2.22E+09	23	8.87E+07	484	5.48E+03	ALT (KM)
4	7.96E+09	43	7.85E+07	647	1.52E+01	4.871
6	1.28E+10	62	3.17E+07	944	0.	
8	9.49E+09	82	1.49E+07	1241	0.	TEMP (C)
10	6.67E+09	102	7.37E+06	1538	0.	-16.0
12	3.23E+09	122	4.69E+06	1835	0.	
14	2.99E+09	142	1.99E+06	2132	0.	FROSTPOINT
16	1.41E+09	161	8.52E+05	2429	0.	-17.5
18	1.91E+09	181	5.17E+05	2726	0.	
20	1.81E+09	201	3.67E+05	3023	0.	TAS (M/S)
22	8.64E+08	221	2.79E+05	3320	0.	133.4
24	7.88E+08	241	1.83E+05	3617	0.	
26	4.94E+08	260	1.14E+05	3914	0.	NT (N/M3)
28	3.78E+08	288	1.05E+05	4211	0.	2657185.8
30	5.56E+08	300	6.56E+04	4508	0.	
						TOTALS
LWC	1.09E-01		6.84E-01		3.61E-02	7.28E-01
MED D	20		115		486	119

SAMPLE: 28A — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:34:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI — H2O FLOW RATE: 46 GPM — DISTANCE: 300 FT — CAL FACTOR: 10.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	4.33E+08	23	6.58E+07	484	1.51E+04	ALT (KM)
4	2.32E+09	43	4.47E+07	647	1.85E+02	4.873
6	5.71E+09	62	2.51E+07	944	0.	
8	9.42E+09	82	1.29E+07	1241	0.	TEMP (C)
10	1.36E+10	102	7.32E+06	1538	0.	-15.6
12	1.26E+10	122	4.84E+06	1835	0.	
14	1.34E+10	142	2.63E+06	2132	0.	FROSTPOINT
16	7.52E+09	161	1.44E+06	2429	0.	-18.7
18	6.93E+09	181	6.88E+05	2726	0.	
20	3.61E+09	201	5.91E+05	3023	0.	TAS (M/S)
22	3.34E+09	221	4.99E+05	3320	0.	135.3
24	2.12E+09	241	2.72E+05	3617	0.	
26	3.35E+09	260	2.27E+05	3914	0.	NT (N/M3)
28	1.31E+09	288	1.98E+05	4211	0.	2813682.8
30	2.95E+09	303	1.27E+05	4508	0.	
						TOTALS
LWC	4.37E-01		7.91E-01		1.83E-01	8.99E-01
MED D	22		144		489	158

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:28
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 388 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	7.38E+08	23	7.28E+07	484	5.94E+03	ALT (KM)
4	2.48E+09	43	4.34E+07	647	1.59E+01	4.873
6	6.96E+09	62	2.29E+07	944	0.	
8	1.18E+10	82	1.11E+07	1241	0.	TEMP (C)
10	1.36E+10	102	6.74E+06	1538	0.	-15.9
12	1.28E+10	122	4.12E+06	1835	0.	
14	1.36E+10	142	2.79E+06	2132	0.	FROSTPOINT
16	7.23E+09	161	0.98E+05	2429	0.	-18.4
18	7.38E+09	181	7.56E+05	2726	0.	
20	3.49E+09	201	3.80E+05	3023	0.	TAS (M/S)
22	3.47E+09	221	4.39E+05	3320	0.	135.2
24	2.31E+09	241	5.91E+04	3617	0.	
26	3.01E+09	261	1.25E+05	3914	0.	MT (N/M3)
28	1.47E+09	280	2.20E+05	4211	0.	1791334.5
30	3.46E+09	310	1.86E+05	4508	0.	
						TOTALS
LWC	4.68E-01		6.98E-01		5.37E-02	7.40E-01
MED D	23		138		486	147

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 388 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	7.43E+08	23	1.37E+07	484	2.63E+03	ALT (KM)
4	3.37E+09	43	9.14E+06	647	5.38E+01	4.871
6	7.37E+09	62	5.83E+06	944	1.57E+01	
8	9.65E+09	82	2.59E+06	1241	0.	TEMP (C)
10	1.26E+10	102	1.37E+06	1538	0.	-15.9
12	1.09E+10	122	1.16E+06	1835	0.	
14	1.20E+10	142	8.59E+05	2132	0.	FROSTPOINT
16	6.58E+09	161	3.78E+05	2429	0.	-18.2
18	6.49E+09	181	2.29E+05	2726	0.	
20	3.11E+09	201	8.34E+04	3023	0.	TAS (M/S)
22	3.41E+09	221	1.33E+05	3320	0.	135.4
24	2.03E+09	241	0.	3617	0.	
26	3.65E+09	260	8.99E+03	3914	0.	MT (N/M3)
28	1.41E+09	280	1.70E+04	4211	0.	425149.8
30	2.89E+09	300	1.29E+04	4508	0.	
						TOTALS
LWC	4.13E-01		1.58E-01		2.12E-02	1.09E-01
MED D	22		136		431	144

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 388 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	5.62E+08	23	5.99E+07	484	6.73E+03	ALT (KM)
4	2.23E+09	43	3.89E+07	647	8.98E+01	4.874
6	6.29E+09	62	2.33E+07	944	3.14E+01	
8	1.02E+10	82	1.06E+07	1241	0.	TEMP (C)
10	1.30E+10	102	5.90E+06	1538	0.	-15.9
12	1.22E+10	122	3.28E+06	1835	0.	
14	1.39E+10	142	1.95E+06	2132	0.	FROSTPOINT
16	7.96E+09	161	1.12E+06	2429	0.	-18.4
18	7.43E+09	181	6.12E+05	2726	0.	
20	4.08E+09	201	4.45E+05	3023	0.	TAS (M/S)
22	4.15E+09	221	3.98E+05	3320	0.	135.2
24	2.48E+09	241	1.36E+05	3617	0.	
26	3.66E+09	260	9.89E+04	3914	0.	MT (N/M3)
28	1.73E+09	280	6.18E+04	4211	0.	1541681.2
30	3.36E+09	300	4.28E+04	4508	0.	
						TOTALS
LWC	4.86E-01		5.69E-01		9.22E-02	6.21E-01
MED D	22		132		421	141

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 388 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	1.01E+09	23	4.58E+07	484	8.54E+03	ALT (KM)
4	4.54E+09	43	3.48E+07	647	2.97E+01	4.873
6	9.85E+09	62	1.91E+07	944	1.56E+01	
8	1.21E+10	82	1.12E+07	1241	0.	TEMP (C)
10	1.36E+10	102	5.94E+06	1538	0.	-15.7
12	1.07E+10	122	3.16E+06	1835	0.	
14	1.23E+10	142	1.84E+06	2132	0.	FROSTPOINT
16	6.11E+09	161	1.13E+06	2429	0.	-17.9
18	5.72E+09	181	8.34E+05	2726	0.	
20	3.14E+09	201	6.34E+05	3023	0.	TAS (M/S)
22	3.11E+09	221	3.34E+05	3320	0.	136.5
24	1.74E+09	241	1.31E+05	3617	0.	
26	2.88E+09	260	1.24E+05	3914	0.	MT (N/M3)
28	1.28E+09	280	1.52E+05	4211	0.	1549482.4
30	2.43E+09	300	9.58E+04	4508	0.	
						TOTALS
LWC	3.84E-01		6.11E-01		5.94E-02	8.71E-01
MED D	22		145		418	197

SAMPLE# 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21834124*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	7.52E+08	23	5.86E+07	484	7.55E+13	ALT (KM)
4	3.48E+09	43	3.90E+07	647	7.43E+01	4.873
6	7.78E+09	62	1.36E+07	944	0.	
8	1.08E+10	82	1.17E+07	1241	0.	TEMP (C)
10	1.33E+10	102	5.31E+06	1538	0.	-15.9
12	1.10E+10	122	3.54E+06	1835	0.	
14	1.38E+10	142	2.42E+06	2132	0.	FROSTPOINT
16	6.54E+09	161	9.14E+05	2429	0.	-17.7
18	6.58E+09	181	5.32E+05	2726	0.	
20	3.41E+09	201	2.76E+05	3023	0.	TAS (M/S)
22	3.31E+09	221	2.13E+05	3320	0.	136.7
24	1.94E+09	241	1.35E+05	3617	0.	
26	3.24E+09	260	1.14E+05	3914	0.	NT (N/M3)
28	1.43E+09	280	7.35E+04	4211	0.	1663216.9
30	2.81E+09	300	5.46E+04	4508	0.	
						TOTALS
LWC	4.19E-01		5.54E-01		5.27E-02	6.67E-01
MED D	22		129		418	137

SAMPLE# 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21834125*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	7.51E+08	23	1.35E+08	484	1.26E+04	ALT (KM)
4	3.16E+09	43	8.20E+07	647	3.00E+11	4.873
6	7.72E+09	62	4.60E+07	944	0.	
8	1.09E+10	82	2.65E+07	1241	0.	TEMP (C)
10	1.41E+10	102	1.45E+07	1538	0.	-15.9
12	1.27E+10	122	8.05E+06	1835	0.	
14	1.43E+10	142	4.37E+06	2132	0.	FROSTPOINT
16	7.93E+09	161	1.92E+05	2429	0.	-17.3
18	7.17E+09	181	1.38E+06	2726	0.	
20	3.78E+09	201	8.87E+05	3023	0.	TAS (M/S)
22	3.23E+09	221	7.35E+05	3324	0.	135.7
24	2.15E+09	241	2.38E+05	3617	0.	
26	3.53E+09	260	2.54E+05	3914	0.	NT (N/M3)
28	1.74E+09	280	2.72E+05	4211	0.	3699854.6
30	2.93E+09	300	1.56E+05	4508	0.	
						TOTALS
LWC	4.59E-01		1.51E+00		5.41E-02	1.39E+00
MED D	22		129		406	135

SAMPLE# 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21834125*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	7.28E+08	23	5.19E+07	484	4.51E+14	ALT (KM)
4	3.67E+09	43	3.84E+07	647	0.	4.871
6	7.92E+09	62	2.20E+07	944	0.	
8	1.11E+10	82	1.20E+07	1241	0.	TEMP (C)
10	1.37E+10	102	6.32E+06	1538	0.	-15.9
12	1.16E+10	122	4.36E+05	1835	0.	
14	1.29E+10	142	2.00E+06	2132	0.	FROSTPOINT
16	7.34E+09	161	1.38E+06	2429	0.	-17.5
18	6.76E+09	181	3.31E+05	2726	0.	
20	3.22E+09	201	5.27E+05	3023	0.	TAS (M/S)
22	3.29E+09	221	4.27E+05	3320	0.	135.7
24	2.10E+09	241	1.02E+05	3617	0.	
26	3.22E+09	260	9.58E+04	3914	0.	NT (N/M3)
28	1.46E+09	280	9.32E+04	4211	0.	1742530.1
30	2.77E+09	300	8.88E+04	4508	0.	
						TOTALS
LWC	4.25E-01		6.12E-01		2.97E-01	9.88E-01
MED D	22		123		404	196

SAMPLE# 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21834127*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	1.17E+09	23	1.34E+08	484	1.85E+14	ALT (KM)
4	5.41E+09	43	8.46E+07	647	4.49E+01	4.875
6	1.04E+10	62	4.67E+07	944	0.	
8	1.19E+10	82	2.83E+07	1241	0.	TEMP (C)
10	1.39E+10	102	1.57E+07	1538	0.	-16.1
12	1.13E+10	122	7.14E+06	1835	0.	
14	1.17E+10	142	4.04E+06	2132	0.	FROSTPOINT
16	5.40E+09	161	1.75E+06	2429	0.	-17.2
18	5.81E+09	181	1.31E+06	2726	0.	
20	2.55E+09	201	9.19E+05	3023	0.	TAS (M/S)
22	2.50E+09	221	6.63E+05	3324	0.	135.2
24	1.75E+09	241	2.44E+05	3617	0.	
26	2.36E+09	260	1.56E+05	3914	0.	NT (N/M3)
28	1.17E+09	280	1.78E+05	4211	0.	3792469.6
30	2.26E+09	300	1.19E+05	4508	0.	
						TOTALS
LWC	3.50E-01		1.26E+00		7.12E-02	1.33E+00
MED D	22		124		407	129

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.0
2	1.62E+09	23	1.34E+08	404	1.41E+04	ALT (KM)
4	6.34E+09	43	7.39E+07	647	3.00E+01	4.877
6	1.84E+10	62	3.72E+07	944	0.	
8	1.84E+10	82	2.19E+07	1241	0.	TEMP (C)
10	9.43E+09	102	1.12E+07	1538	0.	-16.1
12	5.57E+09	122	7.12E+06	1835	0.	
14	5.48E+09	142	7.07E+06	2132	0.	FROSTPOINT
16	1.95E+09	161	1.56E+06	2429	0.	-17.0
18	1.58E+09	181	1.24E+06	2726	0.	
20	7.53E+08	201	7.53E+05	3023	0.	TAS (M/S)
22	8.21E+08	221	5.83E+05	3320	0.	134.9
24	7.26E+08	241	2.35E+05	3617	0.	
26	8.21E+08	260	2.57E+05	3914	0.	NT (N/M3)
28	4.34E+08	280	3.29E+05	4211	0.	3250234.9
30	7.67E+08	301	1.36E+05	4508	0.	
						TOTALS
LWC	1.38E-01		1.14E+00		9.40E-02	1.24E+00
MED D	29		133		406	143

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.58E+09	23	9.35E+07	404	1.39E+04	ALT (KM)
4	6.14E+09	43	6.37E+07	647	3.00E+01	4.876
6	1.07E+10	62	3.66E+07	944	0.	
8	1.17E+10	82	1.56E+07	1241	0.	TEMP (C)
10	1.16E+10	102	1.18E+07	1538	0.	-16.1
12	7.59E+09	122	6.80E+06	1835	0.	
14	7.73E+09	142	3.47E+06	2132	0.	FROSTPOINT
16	3.15E+09	161	1.28E+06	2429	0.	-16.8
18	2.85E+09	181	1.17E+06	2726	0.	
20	1.48E+09	201	5.57E+05	3023	0.	TAS (M/S)
22	1.30E+09	221	4.29E+05	3320	0.	135.1
24	9.62E+08	241	3.74E+05	3617	0.	
26	1.33E+09	260	3.43E+05	3914	0.	NT (N/M3)
28	7.51E+08	280	3.14E+05	4211	0.	2872811.7
30	1.21E+09	300	1.31E+05	4508	0.	
						TOTALS
LWC	2.11E-01		1.39E+00		9.25E-02	1.18E+00
MED D	21		136		406	145

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	8.79E+08	23	1.25E+08	404	9.79E+03	ALT (KM)
4	4.39E+09	43	7.88E+07	647	1.50E+01	4.875
6	9.85E+09	62	4.80E+07	944	0.	
8	1.16E+10	82	2.37E+07	1241	0.	TEMP (C)
10	1.41E+10	102	1.14E+07	1538	0.	-16.0
12	1.08E+10	122	7.36E+06	1835	0.	
14	1.26E+10	142	3.59E+06	2132	0.	FROSTPOINT
16	6.19E+09	161	1.31E+06	2429	0.	-16.9
18	6.03E+09	181	1.27E+06	2726	0.	
20	2.57E+09	201	6.12E+05	3023	0.	TAS (M/S)
22	2.63E+09	221	3.98E+05	3320	0.	135.4
24	1.66E+09	241	2.14E+05	3617	0.	
26	2.87E+09	260	2.38E+05	3914	0.	NT (N/M3)
28	1.12E+09	280	2.50E+05	4211	0.	3427189.0
30	2.42E+09	300	1.54E+05	4508	0.	
						TOTALS
LWC	3.78E-01		1.15E+00		6.50E-02	1.21E+00
MED D	22		129		405	133

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:34:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	8.26E+08	23	9.83E+07	404	1.12E+04	ALT (KM)
4	4.07E+09	43	6.34E+07	647	2.99E+01	4.874
6	8.80E+09	62	3.56E+07	944	0.	
8	1.25E+10	82	1.86E+07	1241	0.	TEMP (C)
10	1.38E+10	102	1.09E+07	1538	0.	-16.1
12	1.11E+10	122	5.90E+06	1835	0.	
14	1.23E+10	142	3.07E+06	2132	0.	FROSTPOINT
16	5.99E+09	161	1.56E+05	2429	0.	-16.7
18	5.20E+09	181	1.20E+06	2726	0.	
20	2.61E+09	201	4.85E+05	3023	0.	TAS (M/S)
22	2.45E+09	221	5.21E+05	3320	0.	135.2
24	1.65E+09	241	2.04E+05	3617	0.	
26	2.58E+09	260	2.15E+05	3914	0.	NT (N/M3)
28	1.18E+09	280	2.27E+05	4211	0.	2838881.8
30	2.28E+09	300	1.41E+05	4508	0.	
						TOTALS
LWC	3.52E-01		1.03E+00		7.48E-02	1.18E+00
MED D	22		134		406	140

SAMPLE: 28A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:41:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 330 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	6.26E+08	23	7.31E+07	404	9.98E+03	ALT (KM)
4	3.25E+09	43	5.04E+07	647	3.01E+01	4.875
6	7.79E+09	62	2.71E+07	944	0.	
8	1.05E+10	82	1.31E+07	1241	0.	TEMP (C)
10	1.32E+10	102	8.44E+06	1538	0.	-16.1
12	1.16E+10	122	5.30E+06	1835	0.	
14	1.34E+10	142	3.11E+06	2132	0.	FROSTPOINT
16	7.09E+09	161	1.45E+06	2429	0.	-16.6
18	7.17E+09	181	9.46E+05	2726	0.	
20	3.32E+09	201	7.27E+05	3023	0.	TAS (M/S)
22	3.42E+09	221	2.66E+05	3320	0.	134.6
24	1.88E+09	241	1.37E+05	3617	0.	
26	3.31E+09	260	1.52E+05	3914	0.	MT (N/M3)
28	1.46E+09	280	1.31E+05	4211	0.	2287144.1
30	2.95E+09	300	1.19E+05	4508	0.	
						TOTALS
LWC	4.33E-01		8.21E-01		6.78E-02	8.68E-01
MED D	22		135		486	142

SAMPLE# 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	8.23E+08	23	7.40E+07	404	6.51E+03	ALT (KM)
4	4.97E+09	43	6.52E+07	647	1.53E+01	4.870
6	1.28E+10	62	3.47E+07	944	4.7+E+01	
8	1.40E+10	82	1.74E+07	1241	0.	TEMP (C)
10	1.22E+10	102	9.54E+06	1538	0.	-16.1
12	7.29E+09	122	5.36E+06	1835	0.	
14	7.29E+09	142	2.72E+06	2132	0.	FROSTPOINT
16	2.62E+09	161	1.78E+06	2429	0.	-18.5
18	3.26E+09	181	9.22E+05	2726	0.	
20	2.04E+09	201	3.53E+05	3023	0.	TAS (M/S)
22	1.90E+09	221	5.34E+05	3320	0.	134.7
24	1.59E+09	241	1.71E+05	3617	0.	
26	1.72E+09	260	1.55E+05	3914	0.	NT (N/M3)
28	1.19E+09	280	1.44E+05	4211	0.	2760626.2
30	1.41E+09	309	8.50E+04	4508	0.	
						TOTALS
LWC	2.51E-01		8.72E-01		4.97E-02	9.21E-01
MED D	22		125		420	131

SAMPLE# 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.67E+09	23	7.58E+07	404	6.14E+04	ALT (KM)
4	7.88E+09	43	5.36E+07	647	0.	4.870
6	1.32E+10	62	3.27E+07	944	0.	
8	1.00E+10	82	1.74E+07	1241	0.	TEMP (C)
10	6.33E+09	102	9.85E+06	1538	0.	-16.4
12	2.70E+09	122	4.19E+06	1835	0.	
14	3.26E+09	142	2.32E+06	2132	0.	FROSTPOINT
16	1.29E+09	161	1.49E+06	2429	0.	-18.5
18	1.46E+09	181	9.96E+05	2726	0.	
20	1.04E+09	201	6.96E+05	3023	0.	TAS (M/S)
22	1.10E+09	221	7.06E+05	3320	0.	135.1
24	8.33E+08	241	7.41E+04	3617	0.	
26	9.48E+08	260	6.47E+04	3914	0.	NT (N/M3)
28	5.15E+08	280	1.23E+05	4211	0.	2453229.5
30	6.16E+08	300	1.10E+05	4508	0.	
						TOTALS
LWC	1.27E-01		7.33E-01		4.04E-01	1.29E+00
MED D	22		124		404	183

SAMPLE# 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.38E+09	23	8.35E+07	404	6.22E+03	ALT (KM)
4	7.69E+09	43	6.34E+07	647	1.59E+01	4.868
6	1.57E+10	62	3.53E+07	944	0.	
8	1.40E+10	82	1.92E+07	1241	0.	TEMP (C)
10	1.05E+10	102	1.03E+07	1538	0.	-16.3
12	5.17E+09	122	6.33E+06	1835	0.	
14	5.63E+09	142	3.24E+06	2132	0.	FROSTPOINT
16	2.26E+09	161	1.54E+06	2429	0.	-18.5
18	2.68E+09	181	8.58E+05	2726	0.	
20	1.70E+09	201	4.45E+05	3023	0.	TAS (M/S)
22	1.64E+09	221	2.76E+05	3320	0.	135.2
24	1.39E+09	241	2.34E+05	3617	0.	
26	1.54E+09	260	1.54E+05	3914	0.	NT (N/M3)
28	7.38E+08	280	1.81E+05	4211	0.	2827604.6
30	9.41E+08	309	8.17E+04	4508	0.	
						TOTALS
LWC	2.03E-01		9.13E-01		4.15E-02	9.55E-01
MED D	22		123		406	126

SAMPLE# 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.54E+09	23	8.94E+07	404	1.05E+05	ALT (KM)
4	7.31E+09	43	5.77E+07	647	0.	4.868
6	1.29E+10	62	3.16E+07	944	0.	
8	9.97E+09	82	1.74E+07	1241	0.	TEMP (C)
10	5.69E+09	102	1.31E+07	1538	0.	-16.3
12	3.12E+09	122	5.33E+06	1835	0.	
14	3.12E+09	142	2.59E+06	2132	0.	FROSTPOINT
16	1.36E+09	161	1.38E+06	2429	0.	-18.5
18	1.55E+09	181	1.84E+06	2726	0.	
20	8.13E+08	201	7.81E+05	3023	0.	TAS (M/S)
22	1.02E+09	221	2.47E+05	3320	0.	133.8
24	6.15E+08	241	2.41E+05	3617	0.	
26	7.66E+08	260	2.25E+05	3914	0.	NT (N/M3)
28	6.02E+08	280	2.14E+05	4211	0.	2583448.0
30	5.81E+08	300	1.88E+05	4508	0.	
						TOTALS
LWC	1.19E-01		9.51E-01		6.93E-01	1.64E+00
MED D	22		136		404	256

SAMPLE# 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:10*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	2.03E+09	23	8.33E+07	404	7.17E+04	ALT (KM)
4	9.67E+09	43	5.59E+07	647	0.	4.871
6	1.53E+10	62	3.34E+07	944	0.	
8	1.01E+10	82	1.74E+07	1241	0.	TEMP (C)
10	6.13E+09	102	9.67E+06	1538	0.	-16.3
12	3.03E+09	122	5.59E+06	1835	0.	
14	3.46E+09	142	3.41E+06	2132	0.	FROSTPOINT
16	1.23E+09	161	1.57E+06	2429	0.	-18.4
18	1.63E+09	181	9.95E+05	2726	0.	
20	9.56E+08	201	4.21E+05	3023	0.	TAS (M/S)
22	1.25E+09	221	4.32E+05	3320	0.	134.0
24	8.54E+08	241	1.72E+05	3617	0.	
26	9.83E+08	260	1.57E+05	3914	0.	NT (N/M3)
28	4.85E+08	280	1.43E+05	4211	0.	2575722.7
30	5.74E+08	300	1.28E+05	4508	0.	
						TOTALS
LWC	1.29E-01		8.37E-01		4.72E-01	1.37E+00
MED D	22		129		404	188

SAMPLE# 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:12*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	9.20E+08	23	9.30E+07	404	1.31E+05	ALT (KM)
4	5.53E+09	43	6.51E+07	647	0.	4.870
6	1.33E+10	62	3.76E+07	944	0.	
8	1.50E+10	82	1.98E+07	1241	0.	TEMP (C)
10	1.29E+10	102	1.15E+07	1538	0.	-16.4
12	6.60E+09	122	6.71E+06	1835	0.	
14	7.16E+09	142	3.51E+06	2132	0.	FROSTPOINT
16	2.73E+09	161	1.59E+06	2429	0.	-18.4
18	2.69E+09	181	8.99E+05	2726	0.	
20	1.63E+09	201	6.73E+05	3023	0.	TAS (M/S)
22	1.68E+09	221	5.96E+05	3320	0.	134.3
24	1.27E+09	241	4.11E+05	3617	0.	
26	1.51E+09	260	3.28E+05	3914	0.	NT (N/M3)
28	8.79E+08	280	2.52E+05	4211	0.	2983869.6
30	1.29E+09	300	2.34E+05	4508	0.	
						TOTALS
LWC	2.26E-01		1.15E+00		9.61E-01	2.01E+00
MED D	22		138		404	265

SAMPLE# 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:11*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	1.70E+09	23	1.19E+08	404	9.49E+04	ALT (KM)
4	8.50E+09	43	6.23E+07	647	0.	4.871
6	1.56E+10	62	4.16E+07	944	0.	
8	1.18E+10	82	2.25E+07	1241	0.	TEMP (C)
10	7.82E+09	102	1.10E+07	1538	0.	-16.3
12	4.17E+09	122	5.31E+06	1835	0.	
14	4.44E+09	142	2.83E+06	2132	0.	FROSTPOINT
16	1.60E+09	161	1.43E+06	2429	0.	-18.4
18	1.89E+09	181	1.26E+06	2726	0.	
20	1.30E+09	201	3.65E+05	3023	0.	TAS (M/S)
22	1.59E+09	221	3.19E+05	3320	0.	134.2
24	1.01E+09	241	2.40E+05	3617	0.	
26	1.08E+09	260	2.13E+05	3914	0.	NT (N/M3)
28	6.89E+08	280	1.30E+05	4211	0.	2993674.5
30	9.27E+08	300	1.70E+05	4508	0.	
						TOTALS
LWC	1.65E-01		9.39E-01		6.24E-01	1.62E+00
MED D	22		124		404	218

SAMPLE# 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21:44:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 16.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	9.93E+08	23	1.12E+08	404	7.93E+04	ALT (KM)
4	6.20E+09	43	6.39E+07	647	0.	4.870
6	1.37E+10	62	3.62E+07	944	0.	
8	1.47E+10	82	1.93E+07	1241	0.	TEMP (C)
10	1.20E+10	102	1.17E+07	1538	0.	-16.5
12	6.91E+09	122	5.92E+06	1835	0.	
14	6.93E+09	142	2.79E+06	2132	0.	FROSTPOINT
16	2.86E+09	161	1.10E+06	2429	0.	-18.4
18	2.72E+09	181	8.27E+05	2726	0.	
20	1.64E+09	201	5.54E+05	3023	0.	TAS (M/S)
22	1.88E+09	221	4.34E+05	3320	0.	133.5
24	1.41E+09	241	2.41E+05	3617	0.	
26	1.92E+09	260	1.36E+05	3914	0.	NT (N/M3)
28	8.78E+08	280	1.39E+05	4211	0.	2856885.8
30	1.33E+09	300	1.42E+05	4508	0.	
						TOTALS
LWC	2.38E-01		9.46E-01		5.22E-01	1.47E+00
MED D	22		124		404	205

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	9.92E+08	23	7.30E+07	404	8.84E+04	ALT (KM)
4	5.34E+09	43	4.77E+07	647	0.	4.868
6	1.19E+10	62	2.49E+07	944	0.	
8	1.35E+10	82	1.59E+07	1241	0.	TEMP (C)
10	1.24E+10	102	7.85E+06	1538	0.	-16.6
12	7.47E+09	122	5.23E+06	1835	1.89E+01	
14	6.96E+09	142	2.45E+06	2132	0.	FROSTPOINT
16	2.99E+09	161	1.37E+06	2429	0.	-18.7
18	3.23E+09	181	9.57E+05	2726	0.	
20	2.83E+09	201	6.90E+05	3023	0.	TAS (M/S)
22	2.34E+09	221	6.34E+05	3320	0.	132.9
24	1.71E+09	241	6.93E+04	3617	0.	
26	1.94E+09	261	1.11E+05	3914	0.	NT (N/M3)
28	1.15E+09	280	1.77E+05	4211	0.	2275587.7
30	1.67E+09	300	1.38E+05	4508	0.	
						TOTALS
LWC	2.7JE-01		8.43E-01		5.93E-01	1.45E+00
MED D	23		134		407	228

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.12E+09	23	7.17E+07	404	6.59E+04	ALT (KM)
4	6.41E+09	43	4.45E+07	647	0.	4.868
6	1.33E+10	62	2.31E+07	944	0.	
8	1.33E+10	82	1.17E+07	1241	0.	TEMP (C)
10	1.16E+10	102	8.06E+06	1538	0.	-16.6
12	6.18E+09	122	4.16E+06	1835	0.	
14	6.68E+09	142	1.32E+06	2132	0.	FROSTPOINT
16	2.98E+09	161	1.22E+06	2429	0.	-18.2
18	3.08E+09	181	5.43E+05	2726	0.	
20	1.93E+09	201	5.37E+05	3023	0.	TAS (M/S)
22	2.43E+09	221	5.38E+05	3324	0.	133.5
24	1.83E+09	241	6.99E+04	3617	0.	
26	2.18E+09	260	9.30E+04	3914	0.	NT (N/M3)
28	1.26E+09	259	1.81E+05	4211	0.	1925989.1
30	1.61E+09	300	1.17E+05	4508	0.	
						TOTALS
LWC	2.7+E-01		6.34E-01		4.31E-01	1.11E+00
MED D	23		132		404	219

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	9.79E+08	23	5.99E+07	404	7.19E+04	ALT (KM)
4	5.72E+09	43	4.29E+07	647	0.	4.871
6	1.25E+10	62	2.37E+07	944	0.	
8	1.42E+10	82	1.37E+07	1241	0.	TEMP (C)
10	1.25E+10	102	7.24E+06	1538	0.	-16.6
12	6.76E+09	122	3.66E+06	1835	0.	
14	7.33E+09	142	1.95E+06	2132	0.	FROSTPOINT
16	3.05E+09	161	6.73E+05	2429	0.	-18.3
18	3.38E+09	181	5.36E+05	2726	0.	
20	2.85E+09	201	3.96E+05	3023	0.	TAS (M/S)
22	2.32E+09	221	2.18E+05	3320	0.	137.0
24	1.83E+09	241	1.34E+05	3617	0.	
26	2.17E+09	260	1.21E+05	3914	0.	NT (N/M3)
28	1.23E+09	280	1.42E+05	4211	0.	1984608.3
30	1.64E+09	300	1.27E+05	4508	0.	
						TOTALS
LWC	2.88E-01		6.28E-01		4.67E-01	1.09E+00
MED D	23		124		404	263

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	7.53E+08	23	7.20E+07	404	6.24E+04	ALT (KM)
4	5.95E+09	43	5.53E+07	647	0.	4.868
6	1.26E+10	62	2.55E+07	944	0.	
8	1.41E+10	82	1.15E+07	1241	0.	TEMP (C)
10	1.24E+10	102	8.25E+06	1538	0.	-16.6
12	6.91E+09	122	4.74E+06	1835	0.	
14	7.13E+09	142	2.36E+06	2132	0.	FROSTPOINT
16	2.88E+09	161	1.18E+06	2429	0.	-18.2
18	3.28E+09	181	7.79E+05	2726	0.	
20	2.82E+09	201	5.66E+05	3023	0.	TAS (M/S)
22	2.49E+09	221	2.49E+05	3320	0.	132.9
24	1.88E+09	241	1.34E+05	3617	0.	
26	2.55E+09	260	1.14E+05	3914	0.	NT (N/M3)
28	1.47E+09	280	1.25E+05	4211	0.	2247154.3
30	1.88E+09	300	1.12E+05	4508	0.	
						TOTALS
LWC	2.92E-01		7.17E-01		4.18E-01	1.13E+00
MED D	23		128		404	199

SAMPLE# 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21444128
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	1.08E+09	23	7.22E+07	404	1.14E+04	ALT (KM)
4	7.18E+08	43	5.49E+07	647	1.53E+01	4.867
6	1.43E+10	62	3.12E+07	944	0.	
8	1.35E+10	82	1.48E+07	1241	0.	TEMP (C)
10	1.13E+10	102	7.57E+06	1538	0.	-16.6
12	6.72E+09	122	4.79E+06	1835	0.	
14	6.84E+09	142	3.04E+06	2132	0.	FROSTPOINT
16	2.79E+09	161	1.38E+06	2429	0.	-18.2
18	3.02E+09	181	7.91E+05	2726	0.	
20	2.14E+09	201	5.48E+05	3023	0.	TAS (M/S)
22	2.14E+09	221	5.01E+05	3320	0.	132.5
24	1.67E+09	241	2.43E+05	3617	0.	
26	2.11E+09	260	2.81E+05	3914	0.	NT (N/M3)
28	1.14E+09	280	1.29E+05	4211	0.	2387737.1
30	1.39E+09	300	1.31E+05	4508	0.	
						TOTALS
LWC	2.60E-01		3.14E-01		7.57E-02	9.90E-01
MED D	23		144		405	153

SAMPLE# 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21444128
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.51E+09	23	6.74E+07	404	3.48E+04	ALT (KM)
4	8.71E+08	43	6.74E+07	647	0.	4.868
6	1.50E+10	62	3.51E+07	944	0.	
8	1.31E+10	82	2.32E+07	1241	0.	TEMP (C)
10	1.05E+10	102	1.13E+07	1538	0.	-16.7
12	5.59E+09	122	6.32E+06	1835	0.	
14	6.26E+09	142	2.37E+06	2132	0.	FROSTPOINT
16	2.54E+09	161	1.52E+06	2429	0.	-18.1
18	2.68E+09	181	1.83E+06	2726	0.	
20	1.97E+09	201	5.12E+05	3023	0.	TAS (M/S)
22	2.25E+09	221	2.58E+05	3320	0.	132.4
24	1.60E+09	241	3.48E+04	3617	0.	
26	2.07E+09	260	4.91E+04	3914	0.	NT (N/M3)
28	1.24E+09	281	6.95E+04	4211	0.	3341675.8
30	1.68E+09	303	6.22E+04	4508	0.	
						TOTALS
LWC	2.58E-01		9.31E-01		2.28E-01	1.16E+00
MED D	23		115		404	134

SAMPLE# 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21444128
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.31E+09	23	9.62E+07	404	1.06E+05	ALT (KM)
4	7.16E+08	43	6.83E+07	647	0.	4.868
6	1.38E+10	62	3.66E+07	944	0.	
8	1.34E+10	82	1.92E+07	1241	0.	TEMP (C)
10	1.09E+10	102	1.21E+07	1538	0.	-16.6
12	5.81E+09	122	5.27E+06	1835	0.	
14	6.16E+09	142	3.04E+06	2132	0.	FROSTPOINT
16	2.53E+09	161	1.90E+06	2429	0.	-18.1
18	2.77E+09	181	9.57E+05	2726	0.	
20	1.84E+09	201	5.58E+05	3023	0.	TAS (M/S)
22	2.84E+09	221	4.77E+05	3320	0.	132.6
24	1.49E+09	241	2.43E+05	3617	0.	
25	2.84E+09	260	2.27E+05	3914	0.	NT (N/M3)
28	1.12E+09	280	2.12E+05	4211	0.	2975326.1
30	1.48E+09	301	1.30E+05	4508	0.	
						TOTALS
LWC	2.47E-01		1.92E+00		6.95E-01	1.72E+00
MED D	23		131		404	240

SAMPLE# 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#21446121
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 300 FT CAL FACTOR# 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	2.33E+09	23	1.02E+08	404	7.34E+04	ALT (KM)
4	1.07E+10	43	7.28E+07	647	0.	4.870
6	1.52E+10	62	4.17E+07	944	0.	
8	1.07E+10	82	1.94E+07	1241	0.	TEMP (C)
10	7.95E+09	102	1.29E+07	1538	0.	-16.7
12	4.14E+09	122	6.83E+06	1835	0.	
14	4.49E+09	142	4.03E+06	2132	0.	FROSTPOINT
16	1.76E+09	161	1.83E+06	2429	0.	-18.0
18	2.14E+09	181	1.19E+06	2726	0.	
20	1.42E+09	201	6.53E+05	3023	0.	TAS (M/S)
22	1.65E+09	221	4.86E+05	3320	0.	132.5
24	1.13E+09	241	1.74E+05	3617	0.	
26	1.25E+09	260	1.50E+05	3914	3.21E+01	NT (N/M3)
28	7.80E+08	280	1.47E+05	4211	0.	3182298.7
30	8.88E+08	300	1.32E+05	4508	0.	
						TOTALS
LWC	1.73E-01		1.46E+00		7.82E-01	1.84E+00
MED D	22		127		463	226

SAMPLE: 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	2.28E+09	23	6.47E+07	404	4.44E+04	ALT (KM)
4	1.81E+10	43	4.71E+07	647	0.	4.870
6	1.38E+10	62	2.96E+07	944	1.61E+01	
8	8.64E+09	82	1.48E+07	1241	0.	TEMP (C)
10	5.32E+09	102	9.14E+06	1538	0.	-16.6
12	2.69E+09	122	5.54E+06	1835	0.	
14	2.79E+09	142	2.58E+06	2132	0.	FROSTPOINT
16	1.12E+09	161	1.15E+06	2429	0.	-17.9
18	1.43E+09	181	9.97E+05	2726	0.	
20	9.85E+08	201	4.84E+05	3023	0.	TAS (M/S)
22	8.65E+08	221	4.59E+05	3320	0.	132.7
24	8.50E+08	241	1.74E+05	3617	0.	
26	8.44E+08	260	1.24E+05	3914	0.	NT (N/M3)
28	4.84E+08	280	3.83E+04	4211	0.	2187860.7
30	6.43E+08	300	7.35E+04	4508	0.	
						TOTALS
LWC	1.17E-01		7.71E-01		2.94E-01	1.07E+00
MED D	22		128		405	172

SAMPLE: 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	9.07E+08	23	5.93E+07	404	9.29E+03	ALT (KM)
4	3.43E+09	43	4.55E+07	647	4.59E+01	4.870
6	4.21E+09	62	2.73E+07	944	0.	
8	2.55E+09	82	1.23E+07	1241	0.	TEMP (C)
10	1.83E+09	102	7.29E+06	1538	3.57E+01	-16.4
12	1.00E+09	122	4.17E+06	1835	0.	
14	8.65E+08	142	2.23E+06	2132	0.	FROSTPOINT
16	4.99E+08	161	8.46E+05	2429	1.	-17.8
18	6.23E+08	181	4.64E+05	2726	0.	
20	4.29E+08	201	3.39E+05	3023	0.	TAS (M/S)
22	4.08E+08	221	1.59E+05	3320	0.	132.2
24	3.95E+08	241	2.44E+05	3617	0.	
26	2.63E+08	260	1.94E+05	3914	0.	NT (N/M3)
28	1.47E+08	280	1.39E+05	4211	0.	2189867.8
30	1.47E+08	300	9.01E+04	4508	0.	
						TOTALS
LWC	4.39E-02		6.53E-01		5.33E-02	7.46E-01
MED D	22		127		439	139

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.11E+09	23	6.47E+07	404	2.27E+04	ALT (KM)
4	4.05E+09	43	4.15E+07	647	0.	4.870
6	5.46E+09	62	2.59E+07	944	0.	
8	3.63E+09	82	1.19E+07	1241	0.	TEMP (C)
10	2.23E+09	102	6.23E+06	1538	0.	-16.5
12	1.27E+09	122	3.57E+06	1835	0.	
14	1.76E+09	142	1.98E+06	2132	0.	FROSTPOINT
16	6.73E+08	161	1.11E+06	2429	0.	-17.9
18	6.79E+08	181	5.74E+05	2726	0.	
20	4.29E+08	201	2.95E+05	3023	0.	TAS (M/S)
22	4.04E+08	221	1.98E+05	3320	0.	132.2
24	4.43E+08	241	1.34E+05	3617	0.	
26	4.04E+08	260	6.38E+04	3914	0.	NT (N/M3)
28	2.77E+08	280	4.53E+04	4211	0.	1868764.5
30	3.11E+08	300	6.36E+04	4508	0.	
						TOTALS
LWC	5.97E-02		5.56E-01		1.49E-01	7.09E-01
MED D	23		128		404	142

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.05E+09	23	6.24E+07	404	2.93E+04	ALT (KM)
4	3.64E+09	43	4.33E+07	647	0.	4.873
6	4.39E+09	62	2.98E+07	944	0.	
8	2.48E+09	82	1.52E+07	1241	0.	TEMP (C)
10	1.50E+09	102	8.55E+06	1538	1.79E+01	-16.3
12	7.81E+08	122	4.86E+06	1835	1.89E+01	
14	8.17E+08	142	2.24E+06	2132	0.	FROSTPOINT
16	4.99E+08	161	1.04E+06	2429	0.	-17.8
18	5.75E+08	181	7.35E+05	2726	0.	
20	4.02E+08	201	2.28E+05	3023	0.	TAS (M/S)
22	3.60E+08	221	6.27E+04	3320	0.	132.1
24	2.91E+08	241	1.39E+05	3617	0.	
26	2.35E+08	260	8.58E+04	3914	0.	NT (N/M3)
28	1.11E+08	280	5.66E+04	4211	0.	2140273.3
30	1.18E+08	300	5.17E+04	4508	0.	
						TOTALS
LWC	3.62E-02		6.38E-01		2.14E-01	8.82E-01
MED D	21		114		419	142

SAMPLE: 288 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:46:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 378 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3	
2	1.83E+09	23	6.13E+07	434	2.14E+04	ALT (KM)	
4	4.21E+09	43	4.36E+07	647	1.	4.573	
6	5.12E+09	62	7.37E+07	944	0.		
8	3.15E+09	82	1.74E+07	1241	0.	TEMP (C)	
10	2.14E+09	102	7.39E+06	1538	1.	-16.3	
12	1.25E+09	122	4.54E+06	1835	0.		
14	1.87E+09	142	2.12E+06	2132	0.	FROSTPOINT	
16	6.63E+08	161	1.27E+05	2429	1.	-17.8	
18	6.82E+08	181	5.22E+05	2726	0.		
20	4.85E+08	201	9.71E+05	3023	0.	TAS (M/S)	
22	4.85E+08	221	1.25E+05	3320	0.	192.2	
24	3.53E+08	241	2.19E+05	3617	0.		
26	4.57E+08	260	3.65E+04	3914	0.	WT (N/M3)	
28	2.22E+08	281	4.29E+04	4211	..	2187577.4	
30	2.35E+08	301	7.34E+04	4508	1.		
						TOTALS	
LWC	5.33E-02		6.44E-01		1.41E-11	7.81E-11	
MED D	22		114		404	198	

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:46:28*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 338 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7	
2	1.67E+09	23	5.03E+07	434	7.83E+04	ALT (KM)	
4	5.5+E+09	43	5.51E+07	647	0.	4.867	
6	1.58E+10	62	3.19E+07	944	0.		
8	1.27E+10	82	1.59E+07	1241	0.	TEMP (C)	
10	9.43E+09	102	9.18E+06	1538	0.	-14.4	
12	4.67E+09	122	5.92E+06	1835	0.		
14	4.84E+09	142	2.18E+06	2132	0.	FROSTPOINT	
16	1.75E+09	161	1.39E+06	2429	1.	-17.8	
18	2.23E+08	181	9.56E+05	2726	0.		
20	1.25E+09	201	5.15E+05	3023	0.	TAS (M/S)	
22	1.35E+09	221	5.67E+05	3320	0.	191.5	
24	9.68E+08	241	1.75E+05	3617	0.		
26	1.35E+09	260	1.13E+05	3914	0.	WT (N/M3)	
28	6.47E+08	281	5.86E+04	4211	..	2496782.1	
30	9.81E+08	301	5.43E+04	4508	0.		
						TOTALS	
LWC	1.75E-01		9.65E-01		1.33E-11	1.84E+00	
MED D	22		125		404	148	

SAMPLE: 283 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:46:27*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 358 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5	
2	1.91E+09	23	4.08E+07	434	7.46E+04	ALT (KM)	
4	7.14E+09	43	5.55E+07	647	0.	4.873	
6	9.92E+09	62	7.16E+07	944	0.		
8	6.84E+09	82	1.71E+07	1241	0.	TEMP (C)	
10	3.85E+09	102	9.33E+06	1538	1.	-16.7	
12	2.32E+09	122	5.46E+06	1835	0.		
14	2.23E+09	142	2.31E+06	2132	0.	FROSTPOINT	
16	8.47E+08	161	1.76E+05	2429	1.	-17.9	
18	1.17E+09	181	7.59E+05	2726	0.		
20	6.74E+09	201	4.15E+05	3023	0.	TAS (M/S)	
22	8.61E+09	221	7.83E+05	3320	0.	191.7	
24	5.87E+08	241	2.79E+05	3617	0.		
26	7.62E+09	260	1.39E+05	3914	0.	WT (N/M3)	
28	4.65E+09	281	6.32E+04	4211	0.	2478256.4	
30	6.84E+08	301	6.29E+04	4508	0.		
						TOTALS	
LWC	9.79E-02		9.64E-01		2.28E-11	1.83E+00	
MED D	23		123		404	148	

SAMPLE: 289 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:46:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 348 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6	
2	1.5?E+09	23	3.37E+07	434	5.33E+04	ALT (KM)	
4	8.68E+09	43	6.38E+07	647	0.	4.868	
6	1.43E+10	62	3.78E+07	944	0.		
8	1.25E+10	82	1.58E+07	1241	0.	TEMP (C)	
10	9.65E+09	102	1.13E+07	1538	1.	-16.5	
12	5.63E+09	122	7.75E+06	1835	0.		
14	4.89E+09	142	3.52E+06	2132	0.	FROSTPOINT	
16	1.88E+09	161	1.46E+06	2429	1.	-17.7	
18	1.75E+09	181	1.24E+06	2726	0.		
20	1.26E+09	201	7.64E+05	3023	0.	TAS (M/S)	
22	1.28E+09	221	6.42E+05	3320	0.	191.1	
24	1.85E+09	241	1.46E+05	3617	0.		
26	1.88E+09	260	1.22E+05	3914	0.	WT (N/M3)	
28	7.47E+08	281	1.17E+05	4211	0.	2797883.7	
30	8.58E+08	301	9.54E+04	4508	0.		
						TOTALS	
LWC	1.67E-01		9.16E-01		7.52E-11	1.25E+00	
MED D	22		125		404	162	

SAMPLE: 28 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:44:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 300 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.6
2	1.99E+09	23	5.27E+07	404	3.45E+04	ALT (KM)
4	8.67E+08	43	4.19E+07	647	0.	4.868
6	1.38E+10	62	1.30E+07	944	0.	
8	9.65E+09	82	1.42E+07	1241	0.	TEMP (C)
10	6.84E+09	102	8.16E+06	1538	0.	-16.5
12	3.13E+09	122	3.91E+06	1835	0.	
14	3.46E+09	142	2.34E+06	2132	0.	FROSTPOINT
16	1.31E+09	161	1.95E+06	2429	0.	-17.7
18	1.39E+09	191	7.11E+05	2726	0.	
20	8.31E+08	201	4.32E+05	3023	0.	TAS (M/S)
22	1.41E+09	221	2.21E+05	3320	0.	131.1
24	7.33E+08	241	9.31E+03	3617	0.	
26	1.03E+09	261	1.49E+05	3914	0.	NT (N/M3)
28	5.65E+08	281	7.99E+04	4211	0.	1837208.6
30	7.68E+08	300	7.37E+04	4508	0.	
						TOTALS
LWC	1.32E-01		6.66E-01		2.53E-11	9.25E-01
MED D	23		110		404	174

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.9
2	3.13E+09	23	4.39E+06	404	7.41E+03	ALT (KM)
4	7.83E+09	43	7.35E+06	647	0.	4.859
6	7.62E+09	62	4.93E+06	944	0.	
8	5.14E+09	82	1.98E+06	1241	0.	TEMP (C)
10	3.73E+09	102	9.49E+05	1538	0.	-15.6
12	2.23E+09	122	5.32E+05	1835	0.	
14	2.04E+09	142	2.74E+05	2132	0.	FROSTPOINT
16	1.27E+09	161	9.50E+04	2429	0.	-17.5
18	1.13E+09	181	7.59E+04	2726	0.	
20	7.29E+08	201	4.	3023	0.	TAS (M/S)
22	8.46E+08	221	0.	3320	0.	133.1
24	5.57E+08	241	6.31E+04	3617	0.	
26	6.94E+08	260	3.20E+04	3914	0.	NT (N/M3)
28	5.23E+08	280	1.46E+04	4211	0.	923535.8
30	3.99E+08	300	1.33E+04	4508	0.	
						TOTALS
LWC	9.24E-02		8.99E-02		4.87E-12	1.37E-01
MED D	22		116		404	237

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	3.34E+09	23	1.59E+07	404	0.	ALT (KM)
4	8.91E+09	43	1.44E+07	647	0.	4.868
6	9.34E+09	62	4.92E+06	944	0.	
8	6.86E+09	82	1.84E+06	1241	0.	TEMP (C)
10	4.37E+09	102	1.14E+06	1538	0.	-15.5
12	2.59E+09	122	6.27E+05	1835	0.	
14	2.38E+09	142	3.48E+05	2132	0.	FROSTPOINT
16	1.73E+09	161	4.79E+04	2429	0.	-17.5
18	1.27E+09	181	7.75E+04	2726	0.	
20	8.89E+08	201	5.54E+04	3023	0.	TAS (M/S)
22	8.53E+08	221	3.18E+04	3320	0.	133.5
24	7.67E+08	241	0.	3617	0.	
26	7.81E+08	260	0.	3914	0.	NT (N/M3)
28	5.28E+08	280	0.	4211	0.	488286.5
30	4.32E+08	300	0.	4508	0.	
						TOTALS
LWC	1.03E-01		9.19E-02		0.	9.49E-02
MED D	22		97		0	97

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	3.34E+09	23	1.70E+07	404	1.39E+04	ALT (KM)
4	7.75E+09	43	7.10E+06	647	0.	4.859
6	7.87E+09	62	5.06E+06	944	0.	
8	4.63E+09	82	1.84E+06	1241	0.	TEMP (C)
10	3.17E+09	102	1.15E+06	1538	0.	-15.6
12	2.13E+09	122	4.87E+05	1835	0.	
14	1.86E+09	142	1.16E+05	2132	0.	FROSTPOINT
16	9.69E+08	161	1.44E+05	2429	0.	-17.5
18	1.07E+09	181	1.84E+05	2726	0.	
20	6.53E+08	201	5.66E+04	3023	0.	TAS (M/S)
22	6.68E+08	221	0.	3320	0.	133.1
24	5.84E+08	241	3.46E+04	3617	0.	
26	6.68E+08	260	3.18E+04	3914	0.	NT (N/M3)
28	2.82E+08	280	2.78E+04	4211	0.	321849.8
30	3.51E+08	300	2.69E+04	4508	0.	
						TOTALS
LWC	7.93E-02		9.79E-02		9.13E-02	1.89E-01
MED D	22		122		404	301

SAMPLE# 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:36:16*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.1
2	3.42E+09	23	2.1?E+07	404	0.	ALT (KM)
4	7.17E+09	43	1.29E+07	647	0.	4.861
6	6.86E+09	62	4.32E+06	944	0.	
8	3.82E+09	82	1.31E+06	1241	0.	TEMP (C)
10	3.11E+09	102	1.3?E+06	1538	0.	-15.7
12	1.99E+09	122	5.19E+05	1835	0.	
14	1.52E+09	142	2.53E+05	2132	0.	FROSTPOINT
16	8.47E+08	161	1.44E+05	2429	0.	-17.5
18	7.38E+08	181	5.?5E+04	2726	0.	
20	6.13E+09	201	2.33E+04	3023	0.	TAS (M/S)
22	7.3?E+08	221	0.	3320	0.	132.9
24	4.09E+08	241	0.	3617	0.	
26	3.93E+08	261	0.	3914	0.	NT (N/M3)
28	3.65E+08	280	0.	4211	0.	428551.5
30	3.83E+08	300	0.	4508	0.	
						TOTALS
LWC	6.83E-02		7.82E-02		0.	7.82E-02
MED D	22		95		0	95

SAMPLE# 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:36:18*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.2
2	2.58E+09	23	1.68E+07	404	0.	ALT (KM)
4	5.48E+09	43	1.85E+07	647	0.	4.860
6	4.81E+09	62	3.?6E+06	944	0.	
8	2.99E+09	82	2.36E+06	1241	0.	TEMP (C)
10	1.81E+09	102	1.25E+06	1538	0.	-15.7
12	1.35E+09	122	4.29E+05	1835	0.	
14	1.24E+09	142	8.73E+04	2132	0.	FROSTPOINT
16	7.22E+08	161	9.68E+04	2429	0.	-17.6
18	5.57E+08	181	1.88E+05	2726	0.	
20	4.54E+08	201	0.	3023	0.	TAS (M/S)
22	5.22E+08	221	3.11E+04	3320	0.	133.1
24	4.47E+08	241	0.	3617	0.	
26	3.53E+08	261	0.	3914	0.	NT (N/M3)
28	2.75E+08	281	0.	4211	0.	369727.6
30	2.13E+08	300	0.	4508	0.	
						TOTALS
LWC	5.34E-02		8.81E-02		0.	8.81E-02
MED D	22		98		0	98

SAMPLE# 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:36:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.2
2	2.49E+09	23	2.59E+07	404	0.	ALT (KM)
4	6.22E+09	43	1.29E+07	647	0.	4.860
6	5.83E+09	62	5.57E+06	944	0.	
8	3.58E+09	82	1.91E+06	1241	0.	TEMP (C)
10	2.43E+09	102	9.68E+05	1538	0.	-15.7
12	1.61E+09	122	5.54E+05	1835	0.	
14	1.33E+09	142	2.52E+05	2132	0.	FROSTPOINT
16	7.69E+08	161	1.20E+05	2429	0.	-17.5
18	6.86E+08	181	7.?7E+04	2726	0.	
20	5.77E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	4.69E+08	221	6.22E+04	3320	0.	133.2
24	4.48E+08	241	3.45E+04	3617	0.	
26	3.38E+08	260	0.	3914	0.	NT (N/M3)
28	2.61E+08	280	0.	4211	0.	447762.2
30	1.44E+08	300	0.	4508	0.	
						TOTALS
LWC	9.52E-02		1.91E-01		0.	1.91E-01
MED D	21		111		0	111

SAMPLE# 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START:*21:36:17*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 958.2
2	1.37E+09	23	1.88E+07	404	0.	ALT (KM)
4	3.87E+09	43	7.32E+06	647	0.	4.860
6	2.82E+09	62	3.59E+05	944	0.	
8	1.71E+09	82	2.43E+06	1241	0.	TEMP (C)
10	1.22E+09	102	9.53E+05	1538	0.	-15.8
12	8.49E+08	122	3.36E+05	1835	0.	
14	4.93E+08	142	1.17E+05	2132	0.	FROSTPOINT
16	4.35E+08	161	0.	2429	0.	-17.6
18	3.45E+08	181	1.38E+05	2726	0.	
20	3.11E+08	201	2.34E+04	3023	0.	TAS (M/S)
22	2.62E+08	221	0.	3320	0.	132.5
24	1.93E+08	241	0.	3617	0.	
26	1.86E+08	260	0.	3914	0.	NT (N/M3)
28	9.67E+07	280	0.	4211	0.	387843.2
30	1.17E+08	300	0.	4508	0.	
						TOTALS
LWC	2.79E-02		6.26E-02		0.	6.26E-02
MED D	21		92		0	92

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	2.66E+09	23	1.40E+07	404	0.	ALT (KM)
4	5.66E+09	43	7.32E+06	647	0.	4.860
6	5.28E+09	62	2.35E+06	944	0.	
8	3.43E+09	82	1.62E+05	1241	0.	TEMP (C)
10	2.13E+09	102	4.13E+05	1538	0.	-15.8
12	1.51E+09	122	3.72E+05	1835	0.	
14	1.89E+09	142	9.78E+04	2132	0.	FROSTPOINT
16	6.48E+08	161	4.92E+04	2429	0.	-17.6
18	6.35E+08	181	2.50E+04	2726	0.	
20	4.77E+08	201	2.34E+04	3023	0.	TAS (M/S)
22	5.46E+08	221	0.	3320	0.	132.5
24	3.07E+08	241	0.	3617	0.	
26	4.01E+08	260	0.	3914	0.	NT (N/M3)
28	2.49E+08	280	0.	4211	0.	272393.9
30	2.42E+08	300	0.	4508	0.	
						TOTALS
LWC	5.49E-02		5.83E-02		0.	5.07E-02
MED D	22		92		0	92

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:28
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	3.97E+09	23	7.02E+06	404	9.54E+00	ALT (KM)
4	8.47E+09	43	5.50E+06	647	1.53E+01	4.859
6	7.11E+09	62	3.59E+06	944	0.	
8	4.68E+09	82	1.25E+06	1241	0.	TEMP (C)
10	2.90E+09	102	7.52E+05	1538	0.	-15.9
12	1.79E+09	122	1.96E+05	1835	0.	
14	1.58E+09	142	1.75E+05	2132	0.	FROSTPOINT
16	9.04E+08	161	7.23E+04	2429	0.	-17.6
18	8.83E+08	181	0.	2726	0.	
20	4.97E+08	201	2.84E+04	3023	0.	TAS (M/S)
22	7.11E+08	221	6.24E+04	3320	0.	132.6
24	4.93E+08	241	0.	3617	0.	
26	6.14E+08	260	0.	3914	0.	NT (N/M3)
28	3.45E+08	280	0.	4211	0.	236810.8
30	4.47E+08	300	0.	4508	0.	
						TOTALS
LWC	7.59E-02		9.22E-02		7.09E-04	5.30E-02
MED D	23		101		633	102

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	2.56E+09	23	1.36E+07	404	0.	ALT (KM)
4	4.85E+09	43	8.35E+06	647	0.	4.861
6	4.37E+09	62	3.19E+06	944	0.	
8	2.56E+09	82	1.32E+06	1241	0.	TEMP (C)
10	1.56E+09	102	1.15E+06	1538	0.	-15.8
12	1.04E+09	122	5.56E+05	1835	0.	
14	7.23E+08	142	2.04E+05	2132	0.	FROSTPOINT
16	5.38E+08	161	9.52E+04	2429	0.	-17.6
18	4.28E+08	181	2.50E+04	2726	0.	
20	2.82E+08	201	2.83E+04	3023	0.	TAS (M/S)
22	3.51E+08	221	0.	3320	0.	132.9
24	3.17E+08	241	0.	3617	0.	
26	3.37E+08	260	0.	3914	0.	NT (N/M3)
28	2.55E+08	280	0.	4211	0.	305382.2
30	1.86E+08	300	0.	4508	0.	
						TOTALS
LWC	4.22E-02		6.24E-02		0.	6.24E-02
MED D	23		102		0	102

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	4.23E+09	23	1.10E+07	404	1.64E+03	ALT (KM)
4	8.61E+09	43	6.07E+06	647	1.53E+01	4.859
6	7.19E+09	62	3.22E+06	944	0.	
8	3.85E+09	82	1.03E+06	1241	0.	TEMP (C)
10	2.75E+09	102	8.33E+05	1538	0.	-15.8
12	1.50E+09	122	3.72E+05	1835	0.	
14	1.33E+09	142	1.46E+05	2132	0.	FROSTPOINT
16	7.67E+08	161	4.92E+04	2429	0.	-17.6
18	6.29E+08	181	0.	2726	0.	
20	5.94E+08	201	0.	3023	0.	TAS (M/S)
22	5.94E+08	221	0.	3320	0.	132.4
24	5.94E+08	241	3.47E+04	3617	0.	
26	5.25E+08	260	2.46E+04	3914	0.	NT (N/M3)
28	3.94E+08	280	1.74E+04	4211	0.	233669.2
30	4.28E+08	300	1.19E+04	4508	0.	
						TOTALS
LWC	7.33E-02		6.84E-02		1.14E-02	7.19E-02
MED D	23		113		410	129

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.35E+09	23	1.76E+07	404	0.	ALT (KM)
4	7.65E+09	43	1.24E+07	647	0.	4.859
6	5.99E+09	62	7.94E+06	944	0.	
8	3.66E+09	82	2.21E+06	1241	0.	TEMP (C)
10	1.97E+09	102	9.53E+05	1538	0.	-15.7
12	1.43E+09	122	4.93E+05	1835	0.	
14	1.17E+09	142	2.32E+05	2132	0.	FROSTPOINT
16	6.49E+08	161	4.92E+04	2429	0.	-17.7
18	6.42E+08	181	1.56E+05	2726	0.	
20	5.39E+08	201	2.94E+04	3023	0.	TAS (M/S)
22	5.33E+08	221	0.	3320	0.	132.5
24	4.69E+08	241	0.	3617	0.	
26	4.21E+08	260	0.	3914	0.	NT (N/M3)
28	4.07E+08	280	0.	4211	0.	484221.6
30	2.07E+08	300	0.	4508	0.	
						TOTALS
LWC	5.97E-02		7.94E-02		0.	7.84E-02
MED D	23		99		0	99

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.1
2	3.89E+09	23	2.91E+07	404	0.	ALT (KM)
4	7.97E+09	43	1.72E+07	647	0.	4.861
6	5.99E+09	62	7.56E+06	944	0.	
8	3.33E+09	82	3.62E+06	1241	0.	TEMP (C)
10	2.26E+09	102	1.51E+06	1538	0.	-15.9
12	1.33E+09	122	6.32E+05	1835	0.	
14	1.28E+09	142	3.22E+05	2132	0.	FROSTPOINT
16	6.91E+08	161	7.17E+05	2429	0.	-17.7
18	7.12E+08	181	7.91E+04	2726	0.	
20	4.23E+08	201	2.34E+04	3023	0.	TAS (M/S)
22	6.98E+08	221	0.	3320	0.	132.4
24	4.63E+08	241	0.	3617	0.	
26	4.93E+08	260	0.	3914	0.	NT (N/M3)
28	3.25E+08	280	0.	4211	0.	618174.9
30	2.93E+08	300	0.	4508	0.	
						TOTALS
LWC	6.32E-02		1.16E-01		0.	1.16E-01
MED D	23		91		0	91

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	4.07E+09	23	2.11E+07	404	0.	ALT (KM)
4	7.39E+09	43	1.72E+07	647	0.	4.860
6	5.86E+09	62	7.91E+06	944	0.	
8	3.18E+09	82	2.64E+06	1241	0.	TEMP (C)
10	2.28E+09	102	1.31E+06	1538	0.	-15.8
12	1.35E+09	122	5.32E+05	1835	0.	
14	1.15E+09	142	4.38E+05	2132	0.	FROSTPOINT
16	5.67E+08	161	1.39E+05	2429	0.	-17.7
18	6.57E+08	181	1.14E+05	2726	0.	
20	4.22E+08	201	5.19E+04	3023	0.	TAS (M/S)
22	5.19E+08	221	3.13E+04	3320	0.	132.3
24	3.83E+08	241	0.	3617	0.	
26	3.39E+08	260	0.	3914	0.	NT (N/M3)
28	2.35E+08	280	0.	4211	0.	618517.8
30	2.07E+08	300	0.	4508	0.	
						TOTALS
LWC	5.15E-02		1.22E-01		0.	1.22E-01
MED D	22		101		0	101

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:36:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	2.83E+09	23	2.81E+07	404	0.	ALT (KM)
4	5.76E+09	43	1.66E+07	647	0.	4.859
6	4.57E+09	62	6.91E+06	944	0.	
8	2.63E+09	82	3.19E+06	1241	0.	TEMP (C)
10	1.63E+09	102	1.60E+06	1538	0.	-15.9
12	1.02E+09	122	9.29E+05	1835	0.	
14	8.73E+08	142	2.53E+05	2132	0.	FROSTPOINT
16	5.66E+08	161	1.45E+05	2429	0.	-17.7
18	4.97E+08	181	1.84E+05	2726	0.	
20	4.69E+08	201	2.84E+04	3023	0.	TAS (M/S)
22	3.94E+08	221	3.12E+04	3320	0.	132.5
24	3.66E+08	241	0.	3617	0.	
26	3.45E+08	260	0.	3914	0.	NT (N/M3)
28	2.69E+08	280	0.	4211	0.	586837.8
30	1.73E+08	300	0.	4508	0.	
						TOTALS
LWC	4.63E-02		1.16E-01		0.	1.16E-01
MED D	22		97		0	97

SAMPLE: 29 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:25
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 15 GPM DISTANCE: 400 FT CAL FACTOR: 6.8

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.2
2	1.26E+09	23	4.83E+06	484	6.54E+03	ALT (KM)
4	2.95E+09	43	7.43E+05	647	0.	4.868
6	2.22E+09	62	3.49E+06	944	0.	
8	1.49E+09	82	1.48E+06	1241	0.	TEMP (C)
10	1.03E+09	102	7.36E+05	1538	0.	-15.8
12	6.88E+08	122	2.51E+05	1835	0.	
14	4.93E+08	142	2.35E+05	2132	0.	FROSTPOINT
16	3.47E+08	161	7.27E+04	2429	0.	-17.7
18	3.69E+08	181	0.	2726	0.	
20	2.43E+08	201	0.	3023	0.	TAS (M/S)
22	2.57E+08	221	0.	3320	0.	131.9
24	1.94E+08	241	6.98E+04	3617	0.	
26	2.43E+08	260	3.12E+04	3914	0.	WT (N/M3)
28	8.33E+07	280	1.31E+04	4211	0.	274496.8
30	6.94E+07	301	1.17E+04	4508	0.	
						TOTALS
LWC	2.57E-02		6.36E-02		4.38E-02	1.13E-01
MED D	21		122		484	248

SAMPLE: 30A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 19 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.0
2	7.47E+09	23	6.47E+07	484	1.53E+04	ALT (KM)
4	1.59E+10	43	4.36E+07	647	0.	4.863
6	1.14E+10	62	1.39E+07	944	0.	
8	4.87E+09	82	8.86E+06	1241	0.	TEMP (C)
10	2.98E+09	102	4.30E+06	1538	0.	-15.9
12	1.79E+09	122	2.15E+06	1835	0.	
14	1.74E+09	142	1.15E+06	2132	0.	FROSTPOINT
16	9.67E+08	161	5.81E+05	2429	0.	-17.9
18	1.01E+09	181	3.34E+05	2726	0.	
20	6.88E+08	201	1.63E+05	3023	0.	TAS (M/S)
22	8.92E+08	221	1.95E+05	3320	0.	134.3
24	7.09E+08	241	5.83E+04	3617	0.	
26	8.86E+08	260	4.53E+04	3914	0.	WT (N/M3)
28	7.49E+08	280	3.10E+04	4211	0.	1526026.1
30	7.71E+08	301	2.56E+04	4508	0.	
						TOTALS
LWC	1.11E-01		3.67E-01		9.85E-02	4.65E-01
MED D	25		118		494	135

SAMPLE: 30A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:36
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.3
2	6.98E+09	23	5.62E+07	484	1.92E+04	ALT (KM)
4	1.98E+10	43	3.43E+07	647	0.	4.859
6	1.55E+10	62	1.77E+07	944	0.	
8	5.96E+09	82	8.35E+06	1241	0.	TEMP (C)
10	3.38E+09	102	3.75E+06	1538	0.	-15.8
12	1.78E+09	122	1.37E+06	1835	0.	
14	2.13E+09	142	9.69E+05	2132	0.	FROSTPOINT
16	1.01E+09	161	3.73E+05	2429	0.	-17.9
18	9.18E+08	181	2.39E+05	2726	0.	
20	6.92E+08	201	9.38E+04	3023	0.	TAS (M/S)
22	1.83E+09	221	6.14E+04	3320	0.	134.8
24	7.26E+08	241	1.82E+05	3617	0.	
26	1.81E+09	260	6.27E+04	3914	0.	WT (N/M3)
28	7.43E+08	280	3.94E+04	4211	0.	1358195.8
30	7.33E+08	300	3.44E+04	4508	0.	
						TOTALS
LWC	1.17E-01		3.32E-01		1.26E-01	4.58E-01
MED D	24		107		484	143

SAMPLE: 30A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:36
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.1
2	7.07E+09	23	5.36E+07	484	9.44E+03	ALT (KM)
4	1.66E+10	43	4.28E+07	647	1.51E+01	4.861
6	1.25E+10	62	1.94E+07	944	0.	
8	5.53E+09	82	9.17E+06	1241	0.	TEMP (C)
10	3.16E+09	102	4.45E+06	1538	0.	-16.0
12	1.69E+09	122	2.65E+06	1835	0.	
14	2.15E+09	142	9.58E+05	2132	0.	FROSTPOINT
16	8.19E+08	161	2.86E+05	2429	0.	-17.9
18	1.07E+09	181	2.32E+05	2726	0.	
20	7.85E+08	201	1.37E+05	3023	0.	TAS (M/S)
22	8.86E+08	221	9.27E+04	3320	0.	134.8
24	8.74E+08	241	3.43E+04	3617	0.	
26	9.22E+08	260	0.	3914	0.	WT (N/M3)
28	7.58E+08	280	0.	4211	0.	1532228.2
30	7.72E+08	300	0.	4508	0.	
						TOTALS
LWC	1.16E-01		3.23E-01		7.81E-04	3.24E-01
MED D	24		102		633	102

SAMPLE: 30A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	6.85E+09	23	6.44E+07	404	0.	ALT (KM)
4	1.89E+10	43	3.42E+07	647	0.	4.860
6	1.56E+10	62	1.78E+07	944	0.	
8	5.98E+09	82	1.05E+07	1241	0.	TEMP (C)
10	3.26E+09	102	4.31E+06	1538	0.	-16.0
12	1.67E+09	122	1.76E+06	1835	0.	
14	2.04E+09	142	6.34E+05	2132	0.	FROSTPOINT
16	9.62E+08	161	2.38E+05	2429	0.	-17.9
18	3.42E+08	181	1.54E+05	2726	0.	
20	7.23E+08	201	1.36E+05	3023	0.	TAS (M/S)
22	7.44E+08	221	0.	3320	0.	134.1
24	6.52E+08	241	3.43E+04	3617	0.	
26	9.01E+08	260	0.	3914	0.	NT (N/M3)
28	6.76E+08	280	0.	4211	0.	1767711.7
30	6.55E+08	300	0.	4508	0.	
						TOTALS
LWC	1.87E-01		2.37E-01		0.	2.87E-01
MED D	24		92		0	92

SAMPLE: 30A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:38
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	6.82E+09	23	5.30E+07	404	9.51E+00	ALT (KM)
4	1.47E+10	43	3.26E+07	647	1.59E+01	4.859
6	1.05E+10	62	1.30E+07	944	0.	
8	4.92E+09	82	7.93E+06	1241	0.	TEMP (C)
10	2.61E+09	102	3.50E+05	1538	0.	-16.0
12	1.61E+09	122	1.74E+06	1835	0.	
14	1.73E+09	142	6.41E+05	2132	0.	FROSTPOINT
16	8.19E+08	161	2.54E+05	2429	0.	-17.8
18	7.43E+08	181	3.63E+05	2726	0.	
20	9.85E+08	201	1.41E+05	3023	0.	TAS (M/S)
22	6.88E+08	221	6.22E+04	3320	0.	137.0
24	6.47E+08	241	3.46E+04	3617	0.	
26	7.82E+08	261	0.	3914	0.	NT (N/M3)
28	5.23E+08	280	0.	4211	0.	1292748.9
30	5.57E+08	300	0.	4508	0.	
						TOTALS
LWC	8.88E-02		2.77E-01		7.86E-04	2.78E-01
MED D	24		98		693	98

SAMPLE: 30A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	6.46E+09	23	4.58E+07	404	0.	ALT (KM)
4	1.52E+10	43	2.46E+07	647	0.	4.857
6	1.22E+10	62	1.11E+07	944	0.	
8	5.20E+09	82	5.20E+06	1241	0.	TEMP (C)
10	3.40E+09	102	2.54E+06	1538	0.	-16.0
12	2.13E+09	122	1.29E+06	1835	0.	
14	1.89E+09	142	5.81E+05	2132	0.	FROSTPOINT
16	1.17E+09	161	2.16E+05	2429	0.	-17.9
18	1.12E+09	181	7.76E+04	2726	0.	
20	5.76E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	8.57E+08	221	0.	3320	0.	133.4
24	6.73E+08	241	0.	3617	0.	
26	1.03E+09	260	0.	3914	0.	NT (N/M3)
28	6.24E+08	280	0.	4211	0.	987588.5
30	6.72E+08	300	0.	4508	0.	
						TOTALS
LWC	1.09E-01		1.91E-01		0.	1.01E-01
MED D	24		95		0	95

SAMPLE: 30A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:37:40
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	6.62E+09	23	4.69E+07	404	1.29E+14	ALT (KM)
4	1.66E+10	43	3.39E+07	647	0.	4.859
6	1.25E+10	62	1.75E+07	944	0.	
8	5.57E+09	82	7.32E+06	1241	0.	TEMP (C)
10	3.34E+09	102	3.34E+05	1538	0.	-16.0
12	1.93E+09	122	1.35E+06	1835	0.	
14	2.47E+09	142	1.88E+06	2132	0.	FROSTPOINT
16	7.07E+08	161	2.88E+05	2429	0.	-17.8
18	9.06E+08	181	2.39E+05	2726	0.	
20	5.90E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	6.93E+08	221	7.11E+04	3320	0.	133.3
24	6.59E+08	241	0.	3617	0.	
26	8.72E+08	260	1.29E+04	3914	0.	NT (N/M3)
28	6.52E+08	280	2.59E+04	4211	0.	1443771.8
30	6.31E+08	300	2.32E+04	4508	0.	
						TOTALS
LWC	1.02E-01		2.38E-01		8.51E-02	3.83E-01
MED D	24		100		404	122

SAMPLE# 38A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:37:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.2
2	6.52E+09	23	3.61E+07	404	0.	ALT (KM)
4	1.45E+10	43	2.72E+07	647	0.	4.860
6	1.03E+10	62	1.13E+07	944	0.	
8	4.26E+09	82	5.52E+06	1241	0.	TEMP (C)
10	2.72E+09	102	2.35E+06	1538	0.	-16.1
12	1.57E+09	122	1.08E+06	1835	0.	
14	1.71E+09	142	5.43E+05	2132	0.	FROSTPOINT
16	8.49E+08	161	4.09E+05	2429	0.	-17.9
18	9.45E+08	181	1.82E+05	2726	0.	
20	5.06E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	3.01E+08	221	9.78E+04	3320	0.	132.7
24	6.62E+08	241	0.	3617	0.	
26	3.73E+08	260	0.	3914	0.	NT (N/M3)
28	4.90E+08	280	0.	4211	0.	978339.9
30	6.44E+08	300	0.	4508	0.	
						TOTALS
LWC	9.82E-02		2.07E-01		0.	2.07E-01
MED D	24		132		0	102

SAMPLE# 38A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*21:37:42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 25 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	9.16E+08	23	2.10E+07	404	6.43E+03	ALT (KM)
4	2.09E+09	43	1.51E+07	647	0.	4.859
6	1.37E+09	62	7.16E+06	944	0.	
8	6.69E+08	82	3.72E+06	1241	0.	TEMP (C)
10	4.52E+08	102	1.95E+06	1538	0.	-16.0
12	2.96E+08	122	9.59E+05	1835	0.	
14	2.14E+08	142	7.50E+05	2132	0.	FROSTPOINT
16	9.84E+07	161	1.44E+05	2429	0.	-17.8
18	1.58E+08	181	1.14E+05	2726	0.	
20	1.13E+08	201	8.30E+04	3023	0.	TAS (M/S)
22	9.64E+07	221	9.35E+04	3320	0.	132.8
24	1.17E+08	241	0.	3617	0.	
26	6.89E+07	260	6.49E+03	3914	0.	NT (N/M3)
28	1.13E+08	280	1.81E+04	4211	0.	990371.0
30	5.51E+07	300	1.16E+04	4508	0.	
						TOTALS
LWC	1.31E-02		1.38E-01		4.27E-12	1.81E-01
MED D	28		185		404	133

SAMPLE# 38B AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*22:10:09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 13 PSI H2O FLOW RATE# 25 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	2.13E+07	23	6.19E+06	404	9.82E+10	ALT (KM)
4	1.28E+08	43	2.71E+05	647	1.57E+31	4.873
6	4.97E+08	62	2.16E+06	944	6.64E+31	
8	3.27E+08	82	6.87E+05	1241	0.	TEMP (C)
10	2.63E+08	102	4.64E+05	1538	3.66E+31	-16.7
12	1.28E+08	122	4.20E+05	1835	3.68E+31	
14	7.81E+07	142	2.44E+05	2132	2.06E+01	FROSTPOINT
16	6.39E+07	161	2.68E+04	2429	0.	-18.4
18	8.52E+07	181	2.58E+04	2726	2.36E+01	
20	3.55E+07	201	2.92E+04	3023	0.	TAS (M/S)
22	7.19E+07	221	3.21E+04	3320	0.	128.9
24	2.84E+07	241	0.	3617	0.	
26	3.55E+07	260	0.	3914	0.	NT (N/M3)
28	4.26E+07	280	0.	4211	0.	1131150.6
30	1.42E+07	300	0.	4508	0.	
						TOTALS
LWC	5.46E-03		4.19E-02		1.73E-01	2.14E-01
MED D	22		128		2165	1970

SAMPLE: 388 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:10:18
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	1.13E+08	23	4.12E+06	484	3.92E+01	ALT (KM)
4	7.86E+08	43	6.33E+06	647	6.27E+01	4.875
6	1.41E+09	62	7.32E+06	944	4.94E+01	
8	1.48E+09	82	1.17E+07	1241	0.	TEMP (C)
10	7.37E+08	102	5.65E+05	1538	0.	-16.7
12	3.97E+08	122	2.67E+05	1835	1.94E+01	
14	3.19E+08	142	1.93E+05	2132	2.36E+01	FROSTPOINT
16	2.27E+08	161	9.99E+04	2429	2.19E+01	-18.4
18	1.77E+08	181	2.57E+04	2726	2.75E+01	
20	2.12E+08	201	5.93E+04	3023	0.	TAS (M/S)
22	1.13E+08	221	7.70E+04	3320	0.	129.2
24	7.08E+07	241	0.	3617	2.99E+01	
26	1.13E+08	260	0.	3914	0.	NT (N/M3)
28	2.83E+07	280	0.	4211	0.	233393.5
30	2.83E+07	300	0.	4508	0.	
						TOTALS
LWC	1.33E-02		5.16E-02		4.03E-01	4.54E-01
MED D	20		110		3495	2848

SAMPLE: 389 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:10:12
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	4.26E+07	23	6.18E+06	484	1.74E+03	ALT (KM)
4	1.70E+08	43	3.25E+06	647	3.14E+01	4.874
6	6.13E+08	62	1.53E+06	944	3.33E+01	
8	2.48E+08	82	1.76E+06	1241	0.	TEMP (C)
10	1.99E+08	102	1.55E+05	1538	0.	-16.6
12	1.84E+08	122	1.53E+05	1835	3.98E+01	
14	1.06E+08	142	2.48E+05	2132	4.12E+01	FROSTPOINT
16	7.55E+07	161	2.48E+04	2429	0.	-18.4
18	2.84E+07	181	0.	2726	0.	
20	4.96E+07	201	2.32E+04	3023	0.	TAS (M/S)
22	2.13E+07	221	3.21E+04	3320	0.	129.8
24	2.13E+07	241	0.	3617	0.	
26	1.42E+07	260	6.35E+03	3914	0.	NT (N/M3)
28	7.09E+06	280	1.34E+04	4211	0.	129142.3
30	1.42E+07	300	9.56E+03	4508	0.	
						TOTALS
LWC	3.34E-03		3.37E-02		1.17E-01	1.56E-01
MED D	19		176		2802	1857

SAMPLE: 389 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:10:11
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.05E+08	23	4.11E+06	484	2.94E+01	ALT (KM)
4	4.25E+08	43	5.68E+06	647	4.73E+01	4.874
6	8.64E+08	62	1.14E+06	944	4.93E+01	
8	5.66E+08	82	1.44E+06	1241	1.73E+01	TEMP (C)
10	4.74E+08	102	5.14E+05	1538	1.83E+01	-16.7
12	1.77E+08	122	4.13E+05	1835	3.87E+01	
14	1.63E+08	142	1.50E+05	2132	0.	FROSTPOINT
16	7.08E+07	161	2.47E+04	2429	0.	-18.4
18	9.91E+07	181	2.57E+04	2726	0.	
20	8.50E+07	201	2.91E+04	3023	0.	TAS (M/S)
22	4.96E+07	221	0.	3320	0.	129.2
24	5.66E+07	241	0.	3617	0.	
26	2.83E+07	260	0.	3914	0.	NT (N/M3)
28	2.12E+07	280	0.	4211	0.	186727.8
30	2.83E+07	300	0.	4508	4.11E+01	
						TOTALS
LWC	6.79E-03		4.11E-02		6.48E-01	6.88E-01
MED D	20		184		4493	4483

SAMPLE: 389 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:10:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	7.81E+07	23	4.13E+06	484	9.82E+00	ALT (KM)
4	1.42E+08	43	2.39E+06	647	1.57E+01	4.874
6	3.83E+08	62	1.53E+06	944	0.	
8	2.63E+08	82	1.36E+06	1241	0.	TEMP (C)
10	1.45E+08	102	4.64E+05	1538	1.83E+01	-16.6
12	1.42E+08	122	3.44E+05	1835	0.	
14	3.55E+07	142	1.28E+05	2132	0.	FROSTPOINT
16	8.52E+07	161	9.32E+04	2429	2.28E+01	-18.4
18	6.39E+07	181	2.58E+04	2726	0.	
20	3.55E+07	201	0.	3023	2.96E+01	TAS (M/S)
22	4.97E+07	221	3.21E+04	3320	0.	128.8
24	7.19E+06	241	0.	3617	0.	
26	3.55E+07	260	0.	3914	0.	NT (N/M3)
28	1.42E+07	280	0.	4211	0.	131949.9
30	0.	300	0.	4508	0.	
						TOTALS
LWC	3.57E-03		3.82E-02		1.69E-01	2.08E-01
MED D	20		114		2962	2098

SAMPLE: 308 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:14
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	6.38E+07	23	4.12E+06	484	9.81E+10	ALT (KM)
4	2.86E+08	43	5.42E+06	647	1.57E+11	4.874
6	8.81E+08	62	1.65E+06	944	6.59E+01	
8	6.81E+08	82	7.57E+05	1241	0.	TEMP (C)
10	2.91E+08	102	4.12E+05	1538	0.	-16.6
12	2.77E+08	122	1.53E+05	1835	1.94E+01	
14	1.84E+08	142	9.11E+04	2132	0.	FROSTPOINT
16	1.21E+08	161	7.43E+04	2429	0.	-18.4
18	1.49E+83	181	8.02E+04	2726	0.	
20	6.38E+07	201	0.	3023	2.53E+01	TAS (M/S)
22	9.22E+07	221	0.	3320	0.	129.0
24	5.67E+07	241	7.13E+04	3617	0.	
26	1.42E+07	260	0.	3914	0.	NT (N/M3)
28	3.55E+07	280	0.	4211	0.	172542.5
30	7.09E+06	300	0.	4508	0.	
						TOTALS
LWC	7.17E-03		4.27E-04		1.37E-01	1.80E-01
MED D	19		132		2385	2927

SAMPLE: 308 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.7
2	6.37E+08	23	1.23E+07	484	0.	ALT (KM)
4	2.18E+09	43	1.46E+07	647	0.	4.873
6	5.64E+09	62	6.58E+06	944	0.	
8	4.53E+09	82	3.18E+06	1241	0.	TEMP (C)
10	2.45E+09	102	1.23E+06	1538	0.	-16.6
12	1.66E+09	122	4.57E+05	1835	0.	
14	1.26E+09	142	4.89E+05	2132	0.	FROSTPOINT
16	6.23E+08	161	1.24E+05	2429	0.	-18.4
18	8.08E+08	181	1.50E+05	2726	0.	
20	4.04E+08	201	1.17E+05	3023	0.	TAS (M/S)
22	3.47E+08	221	3.20E+04	3320	0.	129.2
24	3.79E+08	241	3.56E+04	3617	0.	
26	2.76E+08	260	0.	3914	0.	NT (N/M3)
28	1.79E+08	280	0.	4211	0.	535379.1
30	1.56E+08	300	0.	4508	0.	
						TOTALS
LWC	4.79E-02		1.21E-01		0.	1.21E-01
MED D	20		187		0	187

SAMPLE: 309 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.3
2	9.21E+07	23	1.03E+07	484	9.88E+10	ALT (KM)
4	4.02E+08	43	8.57E+06	647	1.57E+11	4.873
6	1.18E+09	62	4.45E+06	944	3.29E+01	
8	1.15E+09	82	1.93E+06	1241	0.	TEMP (C)
10	6.57E+08	102	9.78E+05	1538	0.	-16.6
12	4.96E+08	122	5.34E+05	1835	0.	
14	3.67E+08	142	2.78E+05	2132	0.	FROSTPOINT
16	2.34E+08	161	9.30E+04	2429	0.	-18.4
18	2.83E+08	181	5.34E+04	2726	0.	
20	1.35E+08	201	0.	3023	0.	TAS (M/S)
22	1.28E+08	221	0.	3320	0.	129.1
24	1.28E+08	241	0.	3617	0.	
26	7.79E+07	260	0.	3914	0.	NT (N/M3)
28	3.54E+07	280	0.	4211	0.	353393.8
30	3.54E+07	300	0.	4508	0.	
						TOTALS
LWC	1.43E-02		7.34E-02		5.05E-03	7.85E-02
MED D	19		92		919	97

SAMPLE: 309 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.18E+09	23	2.47E+07	484	1.74E+13	ALT (KM)
4	3.98E+09	43	1.55E+07	647	3.14E+11	4.874
6	9.74E+09	62	7.53E+06	944	8.24E+01	
8	7.77E+09	82	5.80E+06	1241	1.73E+11	TEMP (C)
10	4.55E+09	102	2.78E+06	1538	3.66E+01	-16.7
12	2.98E+09	122	7.25E+05	1835	0.	
14	2.33E+09	142	3.90E+05	2132	2.86E+01	FROSTPOINT
16	1.28E+09	161	1.24E+05	2429	0.	-18.4
18	1.33E+09	181	8.92E+04	2726	0.	
20	1.08E+09	201	0.	3023	0.	TAS (M/S)
22	6.81E+08	221	0.	3320	0.	129.0
24	5.53E+08	241	3.56E+04	3617	0.	
26	3.98E+08	260	2.18E+04	3914	0.	NT (N/M3)
28	2.55E+08	280	1.34E+04	4211	3.66E+01	639166.8
30	1.78E+08	300	9.66E+03	4508	0.	
						TOTALS
LWC	8.18E-02		1.47E-01		5.06E-01	6.53E-01
MED D	19		97		4183	4132

SAMPLE: 388 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:18
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.26E+09	23	3.61E+07	404	9.81E+00	ALT (KM)
4	5.41E+08	43	7.22E+07	847	1.57E+01	4.874
6	1.28E+08	62	8.91E+06	944	0.	
8	1.83E+08	82	7.79E+05	1241	0.	TEMP (C)
10	5.87E+07	102	2.01E+06	1538	3.68E+01	-16.8
12	3.59E+07	122	1.14E+06	1835	0.	
14	2.47E+07	142	1.93E+05	2132	0.	FROSTPOINT
16	1.63E+07	161	9.91E+04	2429	0.	-18.4
18	1.92E+07	181	8.33E+04	2726	0.	
20	1.13E+07	201	2.92E+04	3023	0.	TAS (M/S)
22	1.17E+07	221	0.	3320	0.	128.9
24	8.82E+06	241	0.	3617	0.	
26	6.6JE+06	260	0.	3914	0.	NT (N/M3)
28	3.76E+06	280	0.	4211	0.	782715.9
30	3.85E+06	300	0.	4508	0.	
						TOTALS
LWC	1.14E-01		1.31E-01		2.19E-02	1.52E-01
MED D	20		89		1593	99

SAMPLE: 388 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:20
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.8
2	1.18E+09	23	2.87E+07	404	0.	ALT (KM)
4	4.76E+08	43	1.73E+07	847	0.	4.880
6	1.04E+08	62	9.12E+05	944	4.92E+01	
8	7.67E+07	82	3.77E+06	1241	3.46E+01	TEMP (C)
10	4.25E+07	102	1.54E+06	1538	1.82E+01	-16.9
12	2.34E+07	122	8.74E+05	1835	0.	
14	1.95E+07	142	3.89E+05	2132	0.	FROSTPOINT
16	1.38E+07	161	1.73E+04	2429	0.	-18.4
18	1.47E+07	181	1.33E+05	2726	0.	
20	1.66E+07	201	2.91E+04	3023	0.	TAS (M/S)
22	8.13E+06	221	6.39E+04	3320	0.	129.5
24	5.65E+06	241	0.	3617	0.	
26	2.97E+06	260	0.	3914	0.	NT (N/M3)
28	2.26E+06	280	0.	4211	3.65E+01	663057.7
30	1.91E+06	300	0.	4508	0.	
						TOTALS
LWC	8.03E-02		1.36E-01		4.51E-01	5.67E-01
MED D	19		97		4202	4194

SAMPLE: 389 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	1.28E+09	23	2.39E+07	404	3.81E+00	ALT (KM)
4	5.33E+08	43	2.28E+07	847	1.57E+01	4.875
6	1.18E+08	62	9.41E+06	944	1.65E+01	
8	9.38E+07	82	5.17E+05	1241	3.47E+01	TEMP (C)
10	5.13E+07	122	1.55E+06	1538	0.	-16.9
12	3.18E+07	122	1.26E+06	1835	0.	
14	2.52E+07	142	4.28E+05	2132	0.	FROSTPOINT
16	1.47E+07	161	2.97E+05	2429	0.	-18.4
18	1.59E+07	181	2.37E+04	2726	2.35E+01	
20	1.88E+07	201	2.32E+04	3023	0.	TAS (M/S)
22	1.07E+07	221	3.21E+04	3320	0.	129.0
24	6.45E+06	241	0.	3617	0.	
26	5.46E+06	260	0.	3914	0.	NT (N/M3)
28	3.12E+06	280	0.	4211	0.	793029.1
30	2.34E+06	300	0.	4508	0.	
						TOTALS
LWC	9.83E-02		1.31E-01		9.74E-02	2.39E-01
MED D	20		92		2780	134

SAMPLE: 389 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.9
2	5.56E+08	23	1.82E+07	484	9.74E+00	ALT (KM)
4	2.58E+08	43	7.27E+06	847	1.56E+01	4.878
6	5.88E+07	62	3.32E+06	944	6.54E+01	
8	4.41E+07	82	1.36E+06	1241	0.	TEMP (C)
10	2.37E+07	102	1.18E+06	1538	1.62E+01	-16.8
12	1.35E+07	122	4.33E+05	1835	0.	
14	1.67E+07	142	2.19E+05	2132	0.	FROSTPOINT
16	5.63E+08	161	4.92E+04	2429	0.	-18.4
18	9.78E+08	181	7.37E+04	2726	0.	
20	4.58E+08	201	2.98E+04	3023	2.52E+01	TAS (M/S)
22	3.66E+08	221	6.37E+04	3320	0.	129.9
24	1.38E+08	241	0.	3617	0.	
26	1.69E+08	260	0.	3914	0.	NT (N/M3)
28	4.93E+07	280	0.	4211	0.	301706.6
30	7.75E+07	300	0.	4508	0.	
						TOTALS
LWC	3.60E-02		7.66E-02		1.28E-01	2.00E-01
MED D	16		105		2097	2094

SAMPLE: 308 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.8
2	7.83E+07	23	6.17E+06	404	2.33E+13	ALT (KM)
4	2.81E+08	43	4.83E+06	647	6.66E+11	4.880
6	7.31E+08	62	2.38E+06	944	4.91E+11	
8	3.39E+08	82	1.35E+05	1241	5.13E+11	TEMP (C)
10	3.16E+08	102	5.10E+05	1538	0.	-16.6
12	1.65E+08	122	4.29E+05	1835	1.92E+11	
14	1.12E+08	142	1.79E+05	2132	0.	FROSTPOINT
16	9.17E+07	161	2.65E+04	2429	2.19E+11	-18.4
18	7.73E+07	181	5.31E+04	2726	0.	
20	7.03E+07	201	2.89E+04	3023	5.02E+11	TAS (M/S)
22	4.22E+07	221	0.	3320	0.	139.2
24	1.41E+07	241	3.57E+04	3617	2.97E+11	
26	1.41E+07	260	2.53E+04	3914	0.	NT (N/M3)
28	0.	281	1.77E+04	4211	0.	208416.8
30	0.	301	1.26E+04	4508	0.	
						TOTALS
LWC	3.61E-03		6.59E-02		5.41E-01	6.07E-01
MED D	17		125		3101	3059

SAMPLE: 309 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	7.03E+06	23	3.26E+06	404	1.94E+11	ALT (KM)
4	2.11E+07	43	3.69E+05	647	3.11E+11	4.875
6	8.43E+07	62	6.38E+05	944	4.90E+01	
8	4.92E+07	82	9.76E+05	1241	0.	TEMP (C)
10	4.92E+07	102	2.55E+05	1538	1.81E+11	-16.3
12	1.41E+07	122	3.79E+05	1835	0.	
14	0.	142	1.79E+05	2132	0.	FROSTPOINT
16	1.41E+07	161	4.91E+04	2429	0.	-18.4
18	7.03E+06	181	0.	2726	0.	
20	0.	201	2.89E+04	3023	0.	TAS (M/S)
22	0.	221	0.	3320	0.	138.2
24	0.	241	0.	3617	0.	
26	0.	260	0.	3914	0.	NT (N/M3)
28	0.	281	0.	4211	0.	118684.8
30	0.	301	0.	4508	0.	
						TOTALS
LWC	2.43E-04		3.37E-02		1.82E-02	4.68E-02
MED D	12		117		1425	145

SAMPLE: 308 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.0
2	6.31E+07	23	3.16E+06	404	9.70E+10	ALT (KM)
4	3.93E+08	43	1.98E+06	647	1.55E+11	4.877
6	1.14E+09	62	1.13E+06	944	3.26E+11	
8	8.98E+08	82	5.24E+05	1241	1.71E+11	TEMP (C)
10	5.33E+08	102	7.56E+05	1538	1.91E+11	-16.4
12	2.24E+08	122	1.13E+05	1835	0.	
14	3.36E+08	142	5.94E+04	2132	0.	FROSTPOINT
16	1.09E+08	161	9.73E+04	2429	0.	-18.4
18	1.47E+08	181	0.	2726	2.33E+11	
20	7.71E+07	201	0.	3023	0.	TAS (M/S)
22	9.12E+07	221	0.	3320	0.	138.5
24	6.31E+07	241	0.	3617	0.	
26	4.21E+07	260	0.	3914	0.	NT (N/M3)
28	4.21E+07	281	0.	4211	0.	88316.2
30	2.88E+07	301	0.	4508	0.	
						TOTALS
LWC	9.78E-03		2.28E-02		9.38E-02	1.16E-01
MED D	28		98		2485	2641

SAMPLE: 309 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:18:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	2.57E+08	23	6.17E+06	404	3.72E+10	ALT (KM)
4	1.13E+09	43	2.42E+06	647	1.56E+11	4.874
6	2.65E+09	62	1.26E+06	944	3.27E+11	
8	2.22E+09	82	1.13E+06	1241	1.72E+11	TEMP (C)
10	1.34E+09	102	4.50E+05	1538	0.	-16.3
12	7.31E+08	122	3.13E+05	1835	1.92E+11	
14	5.77E+08	142	2.38E+05	2132	0.	FROSTPOINT
16	3.82E+08	161	2.46E+04	2429	0.	-18.4
18	3.23E+08	181	2.65E+04	2726	0.	
20	2.95E+08	201	0.	3023	0.	TAS (M/S)
22	1.75E+08	221	0.	3320	0.	138.1
24	9.85E+07	241	0.	3617	0.	
26	1.13E+08	260	0.	3914	0.	NT (N/M3)
28	3.52E+07	281	0.	4211	0.	115449.9
30	3.52E+07	301	0.	4508	0.	
						TOTALS
LWC	1.99E-02		3.26E-02		2.86E-02	8.12E-02
MED D	19		106		1754	165

SAMPLE: 31A — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:39:22
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.21E+09	23	3.73E+07	404	3.87E+13	ALT (KM)
4	4.48E+09	43	2.40E+07	647	3.05E+01	4.857
6	1.23E+10	62	1.32E+07	944	1.69E+01	
8	1.20E+10	82	6.37E+06	1241	0.	TEMP (C)
10	7.53E+09	102	3.15E+06	1538	0.	-16.2
12	4.93E+09	122	1.37E+06	1835	0.	
14	3.74E+09	142	7.58E+05	2132	0.	FROSTPOINT
16	2.24E+09	161	1.44E+05	2429	0.	-17.4
18	2.23E+09	181	2.96E+05	2726	0.	
20	1.63E+09	201	5.57E+04	3023	0.	TAS (M/S)
22	1.65E+09	221	6.24E+04	3320	0.	132.7
24	1.16E+09	241	1.34E+05	3617	0.	
26	1.08E+09	261	6.95E+04	3914	0.	NT (N/M3)
28	6.63E+08	281	4.32E+04	4211	0.	983718.7
30	4.82E+08	300	3.15E+04	4508	0.	
						TOTALS
LWC	1.62E-01		2.64E-01		2.88E-02	2.93E-01
MED D	21		112		417	123

SAMPLE: 30B — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 22:18:26
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 25 GPM DISTANCE: 400 FT CAL FACTOR: 10.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	5.42E+08	23	1.82E+07	404	1.98E+03	ALT (KM)
4	2.20E+09	43	6.73E+06	647	4.67E+01	4.874
6	4.93E+09	62	7.79E+06	944	3.27E+01	
8	7.82E+09	82	1.96E+06	1241	0.	TEMP (C)
10	2.30E+09	102	1.18E+06	1538	3.64E+01	-16.3
12	1.33E+09	122	5.31E+05	1835	1.42E+01	
14	1.21E+09	142	1.79E+05	2132	0.	FROSTPOINT
16	6.83E+08	161	1.23E+05	2429	2.18E+01	-18.4
18	5.53E+08	181	2.65E+04	2726	0.	
20	4.72E+08	201	5.79E+04	3023	0.	TAS (M/S)
22	4.51E+08	221	3.19E+04	3320	0.	129.9
24	2.73E+08	241	0.	3617	0.	
26	2.61E+08	261	6.54E+03	3914	0.	NT (N/M3)
28	1.55E+08	281	1.33E+04	4211	0.	298044.8
30	1.48E+08	300	9.98E+03	4508	0.	
						TOTALS
LWC	4.45E-02		7.35E-02		1.87E-01	1.07E-01
MED D	20		109		1906	616

SAMPLE: 31A — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:39:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	8.96E+08	23	2.56E+07	404	1.48E+03	ALT (KM)
4	4.21E+09	43	2.51E+07	647	1.53E+01	4.859
6	1.02E+10	62	1.37E+07	944	8.41E+01	
8	9.64E+09	82	5.82E+06	1241	1.69E+01	TEMP (C)
10	6.65E+09	102	2.35E+06	1538	3.56E+01	-16.2
12	4.33E+09	122	9.54E+05	1835	5.65E+01	
14	2.88E+09	142	4.42E+05	2132	0.	FROSTPOINT
16	2.41E+09	161	4.83E+05	2429	0.	-17.4
18	2.18E+09	181	1.36E+05	2726	0.	
20	1.46E+09	201	2.94E+04	3023	0.	TAS (M/S)
22	1.34E+09	221	1.25E+05	3320	0.	132.7
24	1.12E+09	241	3.67E+04	3617	2.91E+01	
26	8.98E+08	261	2.27E+04	3914	0.	NT (N/M3)
28	4.55E+08	280	1.49E+04	4211	0.	1008264.6
30	4.69E+08	300	1.03E+04	4508	0.	
						TOTALS
LWC	1.33E-01		2.25E-01		3.13E-01	5.38E-01
MED D	21		103		3549	1644

SAMPLE: 31A — AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 — 1 SECOND AVERAGING
INTERVAL START: 21:39:24
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.25E+09	23	4.10E+07	404	3.53E+03	ALT (KM)
4	5.25E+09	43	3.32E+07	647	6.10E+01	4.857
6	1.21E+10	62	1.21E+07	944	8.84E+01	
8	1.20E+10	82	6.95E+06	1241	3.37E+01	TEMP (C)
10	7.51E+09	102	3.68E+06	1538	5.34E+01	-16.1
12	4.64E+09	122	1.99E+06	1835	3.77E+01	
14	3.91E+09	142	7.39E+05	2132	0.	FROSTPOINT
16	2.29E+09	161	5.95E+05	2429	0.	-17.4
18	2.55E+09	181	1.33E+05	2726	0.	
20	1.92E+09	201	1.38E+05	3023	0.	TAS (M/S)
22	1.93E+09	221	3.12E+04	3320	2.67E+01	132.8
24	1.36E+09	241	6.93E+04	3617	0.	
26	1.49E+09	260	4.39E+04	3914	0.	NT (N/M3)
28	6.34E+08	280	2.78E+04	4211	0.	1177399.3
30	6.41E+08	300	2.88E+04	4508	0.	
						TOTALS
LWC	1.83E-01		2.95E-01		2.65E-01	5.50E-01
MED D	22		111		3218	277

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:19
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.3
2	1.17E+09	23	5.31E+07	404	5.86E+03	ALT (KM)
4	4.53E+09	43	3.35E+07	647	4.57E+01	4.859
6	1.25E+10	62	2.45E+07	944	0.	
8	1.33E+10	82	1.24E+07	1241	0.	TEMP (C)
10	8.11E+09	102	7.10E+06	1538	0.	-16.3
12	4.81E+09	122	2.99E+06	1835	0.	
14	3.97E+09	142	1.37E+06	2132	0.	FROSTPOINT
16	2.27E+09	161	8.49E+05	2429	0.	-17.5
18	2.61E+09	181	3.64E+05	2726	3.29E+01	
20	1.76E+09	201	2.35E+05	3023	0.	TAS (M/S)
22	1.75E+09	221	1.25E+05	3320	0.	132.9
24	1.21E+09	241	3.46E+04	3617	0.	
26	1.14E+09	260	4.36E+04	3914	0.	NT (N/M3)
28	6.95E+08	280	7.11E+04	4211	0.	1772532.7
30	5.99E+08	300	4.79E+04	4508	0.	
						TOTALS
LWC	1.74E-01		4.39E-01		1.13E-01	6.63E-01
MED D	21		109		2542	128

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:28
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.16E+09	23	6.21E+07	404	4.41E+03	ALT (KM)
4	4.73E+09	43	3.51E+07	647	6.10E+01	4.857
6	1.31E+10	62	1.90E+07	944	6.40E+01	
8	1.21E+10	82	8.76E+06	1241	0.	TEMP (C)
10	7.51E+09	102	4.25E+06	1538	1.78E+01	-16.3
12	4.49E+09	122	2.41E+06	1835	0.	
14	3.97E+09	142	1.37E+06	2132	0.	FROSTPOINT
16	2.53E+09	161	4.33E+05	2429	0.	-17.5
18	2.72E+09	181	4.16E+05	2726	0.	
20	1.68E+09	201	2.55E+05	3023	0.	TAS (M/S)
22	1.65E+09	221	9.35E+04	3320	0.	132.8
24	1.36E+09	241	6.93E+04	3617	0.	
26	1.22E+09	260	5.20E+04	3914	0.	NT (N/M3)
28	6.44E+08	280	3.30E+04	4211	0.	1432647.5
30	5.17E+08	300	2.75E+04	4508	0.	
						TOTALS
LWC	1.71E-01		3.95E-01		5.08E-02	4.25E-01
MED D	21		115		473	126

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:13
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.17E+09	23	3.59E+07	404	4.49E+03	ALT (KM)
4	5.04E+09	43	4.31E+07	647	0.	4.859
6	1.19E+10	62	2.12E+07	944	3.23E+01	
8	1.27E+10	82	9.57E+06	1241	0.	TEMP (C)
10	7.29E+09	102	6.11E+06	1538	0.	-16.7
12	4.47E+09	122	2.53E+06	1835	0.	
14	3.87E+09	142	1.55E+06	2132	0.	FROSTPOINT
16	2.23E+09	161	1.18E+06	2429	0.	-17.5
18	2.45E+09	181	3.93E+05	2726	0.	
20	1.77E+09	201	2.55E+05	3023	0.	TAS (M/S)
22	1.65E+09	221	9.76E+04	3320	0.	132.7
24	1.11E+09	241	3.47E+04	3617	0.	
26	1.15E+09	263	5.38E+04	3914	0.	NT (N/M3)
28	5.72E+08	283	4.37E+04	4211	0.	1540959.2
30	6.55E+08	303	8.04E+04	4508	0.	
						TOTALS
LWC	1.67E-01		4.76E-01		2.99E-01	7.75E-01
MED D	21		128		406	193

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:21
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.45E+09	23	7.61E+07	404	7.63E+03	ALT (KM)
4	5.19E+09	43	4.13E+07	647	7.62E+01	4.856
6	1.34E+10	62	1.32E+07	944	1.68E+01	
8	1.33E+10	82	1.09E+07	1241	0.	TEMP (C)
10	8.41E+09	102	5.30E+06	1538	0.	-16.2
12	4.93E+09	122	2.32E+06	1835	1.98E+01	
14	4.08E+09	142	1.31E+06	2132	0.	FROSTPOINT
16	2.31E+09	161	6.38E+05	2429	0.	-17.5
18	2.56E+09	181	4.42E+05	2726	0.	
20	1.96E+09	201	1.42E+05	3023	0.	TAS (M/S)
22	1.81E+09	221	9.35E+04	3320	0.	132.8
24	1.21E+09	241	0.	3617	0.	
26	1.43E+09	263	7.99E+04	3914	0.	NT (N/M3)
28	7.03E+08	283	7.38E+04	4211	0.	1632963.0
30	8.47E+08	303	5.49E+04	4508	0.	
						TOTALS
LWC	1.89E-01		4.38E-01		7.36E-02	5.84E-01
MED D	22		113		449	125

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 RN 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:16
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.3
2	3.87E+08	23	6.32E+07	484	1.78E+33	ALT (KM)
4	3.62E+09	43	9.98E+07	647	7.15E+31	4.859
6	9.29E+09	62	2.23E+07	944	0.	
8	1.12E+10	82	1.16E+07	1241	0.	TEMP (C)
10	6.73E+09	102	6.37E+06	1538	0.	-15.9
12	4.62E+09	122	3.19E+06	1835	0.	
14	3.22E+09	142	1.17E+06	2132	0.	FROSTPOINT
16	2.37E+09	161	6.27E+05	2429	0.	-17.5
18	2.55E+09	181	3.12E+05	2726	0.	
20	1.81E+09	201	1.71E+05	3023	0.	TAS (M/S)
22	1.73E+09	221	2.19E+05	3320	0.	132.6
24	1.25E+09	241	5.34E+04	3617	0.	
26	1.13E+09	260	3.83E+04	3914	0.	RT (N/M3)
28	6.83E+08	280	1.38E+04	4211	0.	1567817.4
30	5.31E+09	300	9.07E+03	4508	0.	
						TOTALS
LWC	1.67E-01		4.37E-01		1.24E-12	6.58E-01
MED D	21		189		425	199

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 RN 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:16
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.3
2	1.18E+09	23	7.52E+07	484	3.87E+34	ALT (KM)
4	4.38E+09	43	6.39E+07	647	0.	4.859
6	1.19E+10	62	2.28E+07	944	0.	
8	1.26E+10	82	1.22E+07	1241	0.	TEMP (C)
10	7.46E+09	102	6.17E+06	1538	0.	-16.2
12	4.52E+09	122	2.98E+06	1835	0.	
14	3.87E+09	142	1.26E+06	2132	0.	FROSTPOINT
16	2.37E+09	161	6.33E+05	2429	0.	-17.5
18	2.68E+09	181	3.64E+05	2726	0.	
20	1.91E+09	201	1.39E+05	3023	0.	TAS (M/S)
22	1.77E+09	221	9.37E+04	3320	0.	132.5
24	1.29E+09	241	5.94E+04	3617	0.	
26	1.21E+09	261	7.63E+04	3914	0.	RT (N/M3)
28	6.81E+08	281	7.79E+04	4211	0.	1779687.7
30	6.67E+08	300	6.34E+04	4508	0.	
						TOTALS
LWC	1.79E-01		4.74E-01		2.95E-01	7.27E-01
MED D	21		118		434	173

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 RN 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:15
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.4
2	1.17E+09	23	6.61E+07	484	2.33E+34	ALT (KM)
4	3.79E+09	43	4.08E+07	647	0.	4.857
6	1.07E+10	62	2.12E+07	944	0.	
8	1.15E+10	82	9.36E+06	1241	0.	TEMP (C)
10	7.62E+09	102	5.76E+06	1538	0.	-16.1
12	4.15E+09	122	2.80E+06	1835	0.	
14	3.69E+09	142	1.52E+06	2132	0.	FROSTPOINT
16	2.59E+09	161	7.23E+05	2429	0.	-17.5
18	2.91E+09	181	3.12E+05	2726	0.	
20	1.57E+09	201	2.55E+05	3023	0.	TAS (M/S)
22	1.73E+09	221	9.37E+04	3320	0.	132.6
24	1.38E+09	241	5.34E+04	3617	0.	
26	1.27E+09	260	5.75E+04	3914	0.	RT (N/M3)
28	5.98E+08	280	4.77E+04	4211	0.	1748149.6
30	5.99E+08	300	4.77E+04	4508	0.	
						TOTALS
LWC	1.78E-01		4.55E-01		1.57E-31	6.12E-01
MED D	21		115		444	142

SAMPLE: 31A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 RN 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:17
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MM)	SCATTER PROBE	SIZE (MM)	CLOUD PROBE	SIZE (MM)	PRECIP PROBE	P (MB) 950.4
2	1.87E+09	23	9.71E+07	484	1.49E+34	ALT (KM)
4	4.65E+09	43	6.45E+07	647	0.	4.857
6	1.14E+10	62	2.32E+07	944	0.	
8	1.17E+10	82	1.37E+07	1241	0.	TEMP (C)
10	7.19E+09	102	7.21E+06	1538	0.	-16.7
12	4.34E+09	122	3.39E+06	1835	0.	
14	3.79E+09	142	1.53E+06	2132	0.	FROSTPOINT
16	2.36E+09	161	3.18E+05	2429	0.	-17.5
18	2.54E+09	181	6.34E+05	2726	0.	
20	1.43E+09	201	3.12E+05	3023	0.	TAS (M/S)
22	1.72E+09	221	1.56E+05	3320	0.	132.7
24	1.53E+09	241	1.73E+05	3617	0.	
26	1.16E+09	260	7.17E+04	3914	0.	RT (N/M3)
28	6.27E+08	280	2.37E+04	4211	0.	2016780.9
30	5.73E+08	300	2.66E+04	4508	0.	
						TOTALS
LWC	1.72E-01		5.52E-01		9.76E-32	6.99E-01
MED D	21		111		434	126

SAMPLE# 319 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	4.92E+08	23	2.48E+07	404	2.15E+04	ALT (KM)
4	1.92E+09	43	1.97E+07	647	0.	4.875
6	3.43E+09	62	6.39E+06	964	0.	
8	2.33E+09	82	3.35E+06	1241	0.	TEMP (C)
10	1.41E+09	102	1.24E+06	1538	0.	-15.4
12	5.9+E08	122	5.14E+05	1835	0.	
14	4.32E+08	142	4.63E+05	2132	0.	FROSTPOINT
16	2.66E+08	161	1.43E+05	2429	0.	-18.9
18	2.25E+08	181	2.57E+04	2726	0.	
20	2.59E+08	201	0.	3023	0.	TAS (M/S)
22	1.91E+08	221	1.24E+05	3320	0.	174.0
24	1.37E+08	241	9.43E+04	3617	0.	
26	1.37E+08	261	9.54E+04	3914	0.	WT (N/M3)
28	8.19E+07	280	4.29E+04	4211	0.	623116.1
30	4.78E+07	300	3.34E+04	4508	0.	
						TOTALS
LWC	2.09E-02		1.48E-01		1.41E-01	2.89E-01
MED D	20		120		404	302

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:48
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.9
2	8.62E+08	23	4.27E+07	404	2.89E+14	ALT (KM)
4	3.92E+09	43	2.59E+07	647	0.	4.878
6	6.13E+09	62	1.40E+07	944	0.	
8	3.90E+09	82	5.52E+06	1241	0.	TEMP (C)
10	1.81E+09	102	2.53E+06	1538	0.	-15.5
12	9.83E+08	122	1.14E+06	1835	0.	
14	8.21E+08	142	6.18E+05	2132	0.	FROSTPOINT
16	3.90E+08	161	2.39E+05	2429	0.	-18.9
18	4.31E+08	181	7.74E+04	2726	0.	
20	2.46E+08	201	1.41E+05	3023	0.	TAS (M/S)
22	3.42E+08	221	6.19E+04	3320	0.	133.8
24	3.01E+08	241	3.44E+04	3617	0.	
26	2.94E+08	261	4.45E+04	3914	0.	NT (N/M3)
28	1.16E+08	281	5.77E+04	4211	0.	1027525.5
30	1.44E+08	301	5.17E+04	4508	0.	
						TOTALS
LWC	3.73E-02		2.42E-01		1.39E-01	4.32E-01
MED D	22		138		404	273

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:50
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.9
2	1.17E+09	23	6.59E+07	404	6.49E+03	ALT (KM)
4	5.69E+09	43	4.39E+07	647	0.	4.878
6	9.37E+09	62	2.81E+07	944	0.	
8	6.36E+09	82	8.73E+06	1241	0.	TEMP (C)
10	3.48E+09	102	3.24E+06	1538	0.	-15.7
12	1.56E+09	122	1.44E+06	1835	0.	
14	1.22E+09	142	8.44E+05	2132	0.	FROSTPOINT
16	7.21E+08	161	4.36E+05	2429	0.	-18.8
18	7.79E+08	181	2.59E+05	2726	0.	
20	5.98E+08	201	1.41E+05	3023	0.	TAS (M/S)
22	5.84E+08	221	6.22E+04	3320	0.	133.2
24	4.26E+08	241	0.	3617	0.	
26	4.47E+08	260	6.08E+03	3914	0.	NT (N/M3)
28	2.61E+08	280	1.30E+04	4211	0.	1568638.5
30	2.61E+08	300	1.16E+04	4508	0.	
						TOTALS
LWC	6.41E-02		3.73E-01		4.26E-12	3.43E-01
MED D	21		93		404	185

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.9
2	1.59E+09	23	6.37E+07	404	2.03E+14	ALT (KM)
4	6.49E+09	43	4.01E+07	647	0.	4.880
6	1.01E+10	62	1.34E+07	944	0.	
8	6.75E+09	82	7.31E+06	1241	0.	TEMP (C)
10	3.22E+09	102	2.93E+06	1538	0.	-15.6
12	1.33E+09	122	1.44E+06	1835	0.	
14	1.45E+09	142	7.54E+05	2132	0.	FROSTPOINT
16	6.16E+08	161	3.35E+05	2429	0.	-18.9
18	6.78E+08	181	1.35E+05	2726	0.	
20	5.14E+08	201	1.37E+05	3023	0.	TAS (M/S)
22	5.68E+08	221	1.86E+05	3320	0.	133.6
24	3.49E+08	241	6.89E+04	3617	0.	
26	3.84E+08	261	5.29E+04	3914	0.	NT (N/M3)
28	2.47E+08	280	4.16E+04	4211	0.	1448657.2
30	1.64E+08	300	3.53E+04	4508	0.	
						TOTALS
LWC	5.77E-02		3.18E-01		1.33E-01	4.51E-01
MED D	21		187		404	164

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.8
2	1.77E+09	23	6.39E+07	404	2.25E+14	ALT (KM)
4	7.71E+09	43	4.41E+07	647	0.	4.880
6	1.25E+10	62	1.36E+07	944	0.	
8	8.45E+09	82	8.74E+06	1241	0.	TEMP (C)
10	4.12E+09	102	4.64E+06	1538	0.	-15.8
12	2.10E+09	122	1.95E+06	1835	0.	
14	1.93E+09	142	1.16E+06	2132	0.	FROSTPOINT
16	8.59E+08	161	6.48E+05	2429	0.	-18.8
18	9.07E+08	181	4.15E+05	2726	0.	
20	7.48E+08	201	1.70E+05	3023	0.	TAS (M/S)
22	7.56E+08	221	1.56E+05	3324	0.	139.1
24	5.64E+08	241	3.46E+04	3617	0.	
26	5.50E+08	260	3.39E+04	3914	0.	NT (N/M3)
28	3.02E+08	280	4.50E+04	4211	0.	1617789.8
30	2.61E+08	300	4.13E+04	4508	0.	
						TOTALS
LWC	7.98E-02		3.98E-01		1.48E-01	5.36E-01
MED D	21		110		404	152

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.7
2	1.93E+09	23	7.18E+07	484	3.83E+04	ALT (KM)
4	8.68E+09	43	4.94E+07	647	0.	4.881
6	1.26E+10	62	2.15E+07	944	0.	
8	8.49E+09	82	1.08E+07	1241	0.	TEMP (C)
10	4.88E+09	102	7.78E+06	1538	0.	-15.8
12	1.99E+09	122	1.37E+06	1835	0.	
14	1.94E+09	142	8.16E+05	2132	0.	FROSTPOINT
16	8.19E+08	161	3.36E+05	2429	0.	-18.7
18	8.67E+08	181	2.59E+05	2726	0.	
20	6.85E+05	201	1.38E+05	3023	0.	TAS (M/S)
22	6.12E+08	221	9.34E+04	3320	0.	133.0
24	6.85E+08	241	6.92E+04	3617	0.	
26	5.62E+08	261	6.67E+04	3914	0.	NT (N/M3)
28	2.93E+08	281	6.15E+04	4211	0.	1762567.0
30	2.55E+08	301	5.42E+04	4508	0.	
						TOTALS
LWC	7.44E-02		3.71E-01		1.39E-01	5.70E-01
MED D	21		100		484	182

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.6
2	1.17E+09	23	6.98E+07	484	6.49E+04	ALT (KM)
4	4.47E+09	43	3.18E+07	647	0.	4.882
6	7.59E+09	62	1.85E+07	944	0.	
8	3.78E+09	82	9.23E+06	1241	0.	TEMP (C)
10	1.86E+09	102	3.95E+06	1538	0.	-15.8
12	1.02E+09	122	1.44E+06	1835	0.	
14	9.01E+08	142	1.18E+06	2132	0.	FROSTPOINT
16	4.89E+08	161	4.88E+05	2429	0.	-18.7
18	6.12E+08	181	2.88E+05	2726	0.	
20	3.78E+08	201	8.09E+04	3023	0.	TAS (M/S)
22	3.65E+08	221	1.25E+05	3320	0.	133.0
24	2.29E+08	241	3.46E+04	3617	0.	
26	3.93E+08	261	2.12E+04	3914	0.	NT (N/M3)
28	1.45E+05	281	1.30E+04	4211	0.	1286120.8
30	1.59E+08	301	1.16E+04	4508	0.	
						TOTALS
LWC	4.29E-02		3.12E-01		4.26E-02	3.44E-01
MED D	21		101		484	111

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.8
2	2.86E+09	23	6.91E+07	484	2.91E+04	ALT (KM)
4	8.89E+09	43	4.19E+07	647	0.	4.888
6	1.22E+10	62	1.94E+07	944	0.	
8	7.22E+09	82	9.27E+06	1241	0.	TEMP (C)
10	3.72E+09	102	4.45E+06	1538	0.	-15.8
12	1.71E+09	122	1.74E+06	1835	0.	
14	1.69E+09	142	1.82E+06	2132	0.	FROSTPOINT
16	8.13E+08	161	3.17E+05	2429	0.	-18.7
18	8.20E+08	181	4.16E+05	2726	0.	
20	6.48E+08	201	1.78E+05	3023	0.	TAS (M/S)
22	7.58E+08	221	1.36E+05	3320	0.	132.8
24	5.65E+08	241	0.	3617	0.	
26	4.55E+08	261	2.91E+04	3914	0.	NT (N/M3)
28	2.55E+08	281	5.32E+04	4211	0.	1569157.7
30	2.62E+08	301	5.21E+04	4508	0.	
						TOTALS
LWC	7.31E-02		3.58E-01		1.91E-01	5.59E-01
MED D	21		106		484	174

SAMPLE: 318 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.5
2	1.29E+09	23	5.38E+07	484	2.16E+04	ALT (KM)
4	4.78E+09	43	3.59E+07	647	0.	4.884
6	7.68E+09	62	1.97E+07	944	0.	
8	4.33E+09	82	6.99E+06	1241	0.	TEMP (C)
10	2.31E+09	102	3.78E+06	1538	0.	-15.7
12	9.92E+08	122	1.78E+06	1835	0.	
14	8.68E+08	142	6.42E+05	2132	0.	FROSTPOINT
16	4.65E+08	161	5.53E+05	2429	0.	-18.6
18	4.68E+08	181	2.34E+05	2726	0.	
20	4.68E+08	201	1.78E+05	3023	0.	TAS (M/S)
22	3.72E+08	221	1.37E+05	3320	0.	132.8
24	2.76E+08	241	1.84E+05	3617	0.	
26	1.72E+08	261	6.71E+04	3914	0.	NT (N/M3)
28	9.65E+07	281	4.33E+04	4211	0.	1483138.2
30	7.59E+07	301	3.88E+04	4508	0.	
						TOTALS
LWC	3.67E-02		3.46E-01		1.42E-01	4.88E-01
MED D	19		114		484	169

SAMPLE: 319 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-84 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.5
2	1.84E+09	23	4.51E+07	404	6.50E+03	ALT (KM)
4	4.69E+09	43	2.50E+07	647	0.	4.884
6	6.79E+09	62	1.53E+07	944	0.	
8	3.65E+09	82	6.79E+06	1241	0.	TEMP (C)
10	1.79E+09	102	3.11E+06	1538	0.	-15.7
12	8.21E+08	122	1.41E+06	1835	0.	
14	7.72E+08	142	7.48E+05	2132	0.	FROSTPOINT
16	3.73E+08	161	3.13E+05	2429	0.	-18.6
18	6.49E+08	181	1.82E+05	2726	0.	
20	3.52E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	2.93E+08	221	3.12E+04	3320	0.	132.7
24	2.21E+08	241	3.07E+04	3617	0.	
26	3.83E+08	260	2.12E+04	3914	0.	NT (N/M3)
28	1.45E+08	280	1.73E+04	4211	0.	1852606.4
30	1.13E+08	300	1.16E+04	4508	0.	
						TOTALS
LWC	3.73E-02		2.45E-01		4.27E-02	2.68E-01
MED D	21		131		404	114

SAMPLE: 319 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-84 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:50
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 490 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.7
2	1.17E+09	23	6.12E+07	404	2.61E+04	ALT (KM)
4	5.95E+09	43	4.25E+07	647	0.	4.881
6	9.83E+09	62	1.76E+07	944	0.	
8	5.47E+09	82	7.92E+06	1241	0.	TEMP (C)
10	2.64E+09	102	3.16E+06	1538	0.	-15.6
12	1.29E+09	122	1.93E+06	1835	0.	
14	1.14E+09	142	7.36E+05	2132	0.	FROSTPOINT
16	6.29E+08	161	5.81E+05	2429	0.	-18.5
18	6.15E+08	181	3.39E+05	2726	0.	
20	5.69E+08	201	5.58E+04	3023	0.	TAS (M/S)
22	4.91E+08	221	1.25E+05	3320	0.	132.4
24	3.25E+08	241	6.35E+04	3617	0.	
26	3.59E+08	260	6.32E+04	3914	0.	NT (N/M3)
28	1.68E+08	280	5.21E+04	4211	0.	1492089.9
30	1.06E+08	300	4.57E+04	4508	0.	
						TOTALS
LWC	5.23E-02		3.41E-01		1.71E-01	5.12E-01
MED D	20		112		404	173

SAMPLE: 319 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-84 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:57
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 400 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.7
2	1.09E+09	23	4.79E+07	404	0.	ALT (KM)
4	4.23E+09	43	3.44E+07	647	0.	4.881
6	7.03E+09	62	1.52E+07	944	0.	
8	3.83E+09	82	6.98E+06	1241	0.	TEMP (C)
10	1.69E+09	102	2.50E+06	1538	0.	-15.6
12	9.15E+08	122	1.78E+06	1835	0.	
14	8.25E+08	142	4.37E+05	2132	0.	FROSTPOINT
16	4.54E+08	161	3.36E+05	2429	0.	-18.5
18	4.48E+08	181	2.37E+05	2726	0.	
20	2.48E+08	201	2.35E+05	3023	0.	TAS (M/S)
22	2.27E+08	221	1.24E+05	3320	0.	133.0
24	2.75E+08	241	1.73E+05	3617	0.	
26	1.99E+08	260	0.	3914	0.	NT (N/M3)
28	1.17E+08	280	0.	4211	0.	1256027.5
30	6.19E+07	300	0.	4508	0.	
						TOTALS
LWC	3.29E-02		2.92E-01		0.	2.82E-01
MED D	19		108		0	186

SAMPLE: 319 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-84 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:15:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 35 GPM DISTANCE: 430 FT CAL FACTOR: 14.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.7
2	1.48E+09	23	3.40E+07	404	1.48E+04	ALT (KM)
4	6.52E+09	43	2.53E+07	647	0.	4.881
6	1.31E+10	62	1.20E+07	944	0.	
8	7.59E+09	82	4.19E+06	1241	0.	TEMP (C)
10	3.76E+09	102	2.18E+06	1538	0.	-15.6
12	1.77E+09	122	1.14E+06	1835	0.	
14	1.96E+09	142	6.42E+05	2132	0.	FROSTPOINT
16	7.85E+08	161	1.32E+05	2429	0.	-18.5
18	8.68E+08	181	1.86E+05	2726	0.	
20	7.58E+08	201	1.13E+05	3023	0.	TAS (M/S)
22	6.34E+08	221	9.35E+04	3320	0.	132.8
24	4.96E+08	241	0.	3617	0.	
26	4.66E+08	261	1.68E+04	3914	0.	NT (N/M3)
28	1.93E+08	281	2.37E+04	4211	0.	931388.3
30	2.34E+08	300	2.66E+04	4508	0.	
						TOTALS
LWC	7.82E-02		1.38E-01		9.76E-02	2.96E-01
MED D	20		186		404	159

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL

FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING

INTERVAL START: 21:29:35

PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)

TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 498 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.47E+09	23	7.49E+07	404	7.24E+07	ALT (KM)
4	4.70E+09	43	5.84E+07	647	1.52E+11	4.857
6	1.24E+10	62	3.49E+07	944	0.	
8	1.11E+10	82	1.51E+07	1241	0.	TEMP (C)
10	6.46E+09	102	9.29E+06	1538	0.	-16.2
12	3.60E+09	122	5.55E+06	1835	0.	
14	4.81E+09	142	2.35E+06	2132	0.	FROSTPOINT
16	1.26E+09	161	1.50E+06	2429	0.	-17.3
18	1.45E+09	181	9.33E+05	2726	0.	
20	1.44E+09	201	4.53E+05	3023	0.	TAS (M/S)
22	9.15E+08	221	2.18E+05	3320	0.	133.8
24	7.79E+08	241	2.42E+05	3617	0.	
26	7.29E+08	260	1.39E+05	3914	0.	NT (N/M3)
28	4.28E+08	280	1.54E+05	4211	0.	2553704.9
30	5.36E+08	300	9.35E+04	4508	0.	
						TOTALS
LWC	1.15E-01		8.41E-01		4.82E-02	8.89E-01
MED D	21		129		406	133

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.33E+09	23	1.12E+08	404	7.30E+03	ALT (KM)
4	8.69E+09	43	5.30E+07	647	1.52E+11	4.857
6	1.62E+10	62	3.04E+07	944	0.	
8	1.46E+10	82	1.75E+07	1241	0.	TEMP (C)
10	8.89E+09	102	1.34E+07	1538	0.	-16.3
12	4.69E+09	122	7.25E+06	1835	0.	
14	4.09E+09	142	3.24E+06	2132	0.	FROSTPOINT
16	2.03E+09	161	1.25E+06	2429	0.	-17.7
18	2.03E+09	181	1.16E+06	2726	0.	
20	1.23E+09	201	7.96E+05	3023	0.	TAS (M/S)
22	1.34E+09	221	4.76E+05	3320	0.	132.9
24	1.01E+09	241	1.73E+05	3617	0.	
26	1.03E+09	260	1.59E+05	3914	0.	NT (N/M3)
28	5.99E+08	280	1.35E+05	4211	0.	2595766.0
30	7.71E+08	300	1.01E+05	4508	0.	
						TOTALS
LWC	1.52E-01		9.19E-01		4.35E-02	9.67E-01
MED D	21		127		446	130

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:36
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.46E+09	23	7.69E+07	404	1.16E+04	ALT (KM)
4	8.39E+09	43	5.39E+07	647	6.09E+11	4.856
6	1.94E+10	62	3.31E+07	944	1.69E+11	
8	1.76E+10	82	1.66E+07	1241	3.76E+11	TEMP (C)
10	1.15E+10	102	8.39E+06	1538	3.55E+11	-16.5
12	5.69E+09	122	4.48E+06	1835	0.	
14	5.17E+09	142	2.33E+06	2132	0.	FROSTPOINT
16	2.12E+09	161	1.36E+06	2429	0.	-17.2
18	2.13E+09	181	7.00E+05	2726	0.	
20	1.36E+09	201	5.66E+05	3023	0.	TAS (M/S)
22	1.43E+09	221	3.11E+05	3320	0.	133.0
24	1.35E+09	241	1.38E+05	3617	0.	
26	1.15E+09	260	1.53E+05	3914	0.	NT (N/M3)
28	8.12E+08	280	1.59E+05	4211	0.	2478345.2
30	8.67E+08	300	1.13E+05	4508	0.	
						TOTALS
LWC	1.89E-01		7.76E-01		1.11E-01	8.87E-01
MED D	21		125		448	140

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:35
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.45E+09	23	9.11E+07	404	5.10E+03	ALT (KM)
4	8.66E+09	43	5.35E+07	647	3.05E+11	4.857
6	1.83E+10	62	3.24E+07	944	0.	
8	1.59E+10	82	1.59E+07	1241	0.	TEMP (C)
10	9.93E+09	102	9.26E+06	1538	0.	-16.5
12	4.92E+09	122	5.37E+06	1835	0.	
14	4.74E+09	142	2.77E+06	2132	0.	FROSTPOINT
16	1.97E+09	161	1.47E+06	2429	0.	-17.7
18	2.15E+09	181	7.54E+05	2726	0.	
20	1.39E+09	201	4.54E+05	3023	0.	TAS (M/S)
22	1.47E+09	221	1.56E+05	3320	0.	132.7
24	1.01E+09	241	1.73E+05	3617	0.	
26	1.23E+09	260	1.19E+05	3914	0.	NT (N/M3)
28	6.48E+08	280	6.37E+04	4211	0.	2049245.8
30	7.51E+08	300	4.54E+04	4508	0.	
						TOTALS
LWC	1.73E-01		7.55E-01		3.48E-02	8.19E-01
MED D	21		119		408	123

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	1.46E+09	23	8.10E+07	404	1.56E+04	ALT (KM)
4	7.66E+09	43	5.59E+07	647	1.22E+02	4.854
6	1.70E+10	62	2.78E+07	944	1.60E+11	
8	1.38E+10	82	1.72E+07	1241	5.25E+01	TEMP (C)
10	8.26E+09	102	9.15E+06	1538	0.	-16.5
12	3.75E+09	122	5.45E+06	1835	0.	
14	3.77E+09	142	3.89E+06	2132	0.	FROSTPOINT
16	1.87E+09	161	1.47E+06	2429	0.	-17.2
18	1.77E+09	181	7.01E+05	2726	0.	
20	1.17E+09	201	3.96E+05	3023	0.	TAS (M/S)
22	1.16E+09	221	3.43E+05	3320	0.	132.9
24	8.54E+08	241	3.46E+05	3617	0.	
26	9.02E+08	260	2.53E+05	3914	0.	NT (N/M3)
28	5.58E+08	280	1.85E+05	4211	0.	2423772.4
30	5.78E+08	300	1.25E+05	4508	0.	
						TOTALS
LWC	1.41E-01		8.71E-01		1.25E-01	9.98E-01
MED D	21		134		425	148

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 489 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.5
2	1.41E+09	23	6.71E+07	404	1.72E+04	ALT (KM)
4	6.73E+08	43	5.97E+07	647	9.16E+01	4.856
6	1.54E+08	62	2.88E+07	944	0.	
8	1.27E+08	82	1.35E+07	1241	0.	TEMP (C)
10	6.76E+07	102	8.72E+06	1538	3.56E+01	-16.5
12	3.35E+07	122	5.15E+06	1835	0.	
14	3.43E+07	142	2.77E+06	2132	0.	FROSTPOINT
16	1.15E+07	161	1.32E+06	2429	0.	-17.2
18	1.32E+07	181	1.12E+06	2726	0.	
20	1.06E+07	201	3.69E+05	3023	0.	TAS (M/S)
22	1.62E+07	221	4.37E+05	3320	0.	172.7
24	7.31E+06	241	4.37E+04	3617.	0.	
26	7.73E+06	261	1.31E+05	3914	0.	NT (N/M3)
28	4.76E+06	280	2.46E+05	4211	0.	2439140.7
30	6.63E+06	309	1.32E+05	4508	0.	
						TOTALS
LWC	1.22E-01		8.45E-01		1.37E-01	9.87E-01
MED D	21		133		425	150

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:40
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 488 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.4
2	1.16E+09	23	7.32E+07	404	2.07E+04	ALT (KM)
4	6.01E+08	43	5.38E+07	647	1.53E+02	4.857
6	1.28E+08	62	2.86E+07	944	1.68E+01	
8	1.18E+08	82	1.58E+07	1241	1.69E+01	TEMP (C)
10	5.78E+07	102	9.17E+06	1538	1.78E+01	-16.3
12	2.79E+07	122	5.62E+06	1835	3.77E+01	
14	2.82E+07	142	2.72E+06	2132	0.	FROSTPOINT
16	1.19E+07	161	1.47E+06	2429	0.	-17.2
18	1.34E+07	181	9.53E+05	2726	0.	
20	9.16E+06	201	4.54E+05	3023	0.	TAS (M/S)
22	6.93E+06	221	5.33E+05	3320	0.	132.6
24	7.93E+06	241	3.47E+05	3617	0.	
26	7.24E+06	260	2.37E+05	3914	0.	NT (N/M3)
28	3.86E+06	280	2.55E+05	4211	0.	2477534.4
30	4.75E+06	309	1.71E+05	4508	0.	
						TOTALS
LWC	1.09E-01		9.34E-01		1.96E-01	1.15E+00
MED D	21		143		446	171

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:39
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 488 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.4
2	1.27E+09	23	7.21E+07	404	2.25E+04	ALT (KM)
4	6.01E+08	43	5.17E+07	647	2.29E+02	4.857
6	1.37E+08	62	3.27E+07	944	5.41E+01	
8	1.07E+08	82	1.66E+07	1241	6.75E+01	TEMP (C)
10	5.98E+07	102	9.77E+06	1538	5.36E+01	-16.4
12	2.84E+07	122	5.34E+06	1835	3.77E+01	
14	2.61E+07	142	3.17E+06	2132	0.	FROSTPOINT
16	1.41E+07	161	1.52E+06	2429	0.	-17.2
18	1.28E+07	181	9.52E+05	2726	0.	
20	8.21E+06	201	6.24E+05	3023	0.	TAS (M/S)
22	9.38E+06	221	6.43E+05	3320	0.	132.6
24	7.66E+06	241	2.88E+05	3617	0.	
26	6.55E+06	260	2.21E+05	3914	0.	NT (N/M3)
28	3.52E+06	280	2.35E+05	4211	0.	2427482.2
30	3.86E+06	309	1.52E+05	4508	0.	
						TOTALS
LWC	1.04E-01		9.15E-01		2.53E-01	1.17E+00
MED D	21		137		471	169

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:41
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 18 PSI H2O FLOW RATE: 46 GPM DISTANCE: 468 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.5
2	1.19E+09	23	7.08E+07	404	1.29E+04	ALT (KM)
4	5.97E+08	43	5.24E+07	647	1.22E+02	4.856
6	1.28E+08	62	3.14E+07	944	1.63E+01	
8	1.05E+08	82	1.54E+07	1241	1.68E+01	TEMP (C)
10	5.62E+07	102	9.45E+06	1538	1.78E+01	-16.4
12	2.75E+07	122	5.78E+06	1835	0.	
14	2.65E+07	142	3.24E+06	2132	0.	FROSTPOINT
16	1.31E+07	161	1.54E+06	2429	0.	-17.1
18	1.32E+07	181	1.21E+06	2726	0.	
20	9.04E+06	201	3.58E+05	3023	0.	TAS (M/S)
22	9.36E+06	221	4.36E+05	3320	0.	132.9
24	7.16E+06	241	2.38E+05	3617	0.	
26	5.92E+06	260	1.73E+05	3914	0.	NT (N/M3)
28	4.13E+06	280	1.89E+05	4211	0.	2409877.6
30	4.27E+06	309	9.52E+04	4508	0.	
						TOTALS
LWC	1.05E-01		8.59E-01		1.07E-01	9.76E-01
MED D	21		131		429	161

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:42
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7	
2	1.31E+09	23	8.44E+07	404	3.14E+04	ALT (KM)	
4	6.38E+09	43	4.81E+07	647	0.	4.853	
6	1.27E+10	62	3.23E+07	944	0.		
8	1.01E+10	82	1.56E+07	1241	0.	TEMP (C)	
10	6.14E+09	102	9.46E+06	1538	0.	-16.4	
12	2.97E+09	122	5.58E+06	1835	0.		
14	2.66E+09	142	2.84E+06	2132	0.	FROSTPOINT	
16	1.22E+09	161	1.54E+06	2429	0.	-17.1	
18	1.39E+09	181	8.37E+05	2726	0.		
20	8.3JE+08	201	7.11E+05	3023	0.	TAS (M/S)	
22	1.13E+09	221	5.11E+05	3320	0.	132.3	
24	6.50E+08	241	1.39E+05	3617	0.		
26	7.61E+09	260	9.34E+04	3914	0.	NT (N/M3)	
28	3.67E+08	281	0.27E+0+	4211	0.	2368246.5	
30	5.19E+08	310	5.52E+04	4508	0.		
						TOTALS	
LWC	1.11E-01		9.45E-01		2.06E-01	1.35E+00	
MED D	21		127		404	150	

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7	
2	1.39E+09	23	5.70E+07	404	1.15E+04	ALT (KM)	
4	7.59E+09	43	4.52E+07	647	1.22E+02	4.853	
6	1.52E+10	62	2.34E+07	944	6.39E+01		
8	1.20E+10	82	1.46E+07	1241	5.05E+01	TEMP (C)	
10	6.18E+09	102	7.39E+06	1538	5.33E+01	-16.4	
12	3.44E+09	122	4.77E+06	1835	1.84E+01		
14	3.16E+09	142	2.27E+06	2132	0.	FROSTPOINT	
16	1.44E+09	161	1.22E+06	2429	2.13E+01	-17.1	
18	1.53E+09	181	8.56E+05	2726	0.		
20	1.08E+09	201	3.40E+05	3023	0.	TAS (M/S)	
22	1.21E+09	221	3.11E+05	3320	0.	193.8	
24	7.77E+08	241	1.38E+05	3617	0.		
26	9.42E+08	260	1.27E+05	3914	0.	NT (N/M3)	
28	5.42E+08	280	1.17E+05	4211	0.	2884368.7	
30	6.67E+08	300	8.10E+04	4508	0.		
						TOTALS	
LWC	1.32E-01		7.00E-01		2.00E-01	9.00E-01	
MED D	22		128		1397	157	

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6	
2	4.43E+09	23	4.79E+07	404	1.44E+04	ALT (KM)	
4	6.94E+09	43	5.10E+07	647	2.13E+02	4.854	
6	1.38E+10	62	2.56E+07	944	4.79E+01		
8	1.05E+10	82	1.35E+07	1241	5.05E+01	TEMP (C)	
10	5.77E+09	102	9.34E+06	1538	7.13E+01	-16.4	
12	2.93E+09	122	5.81E+06	1835	3.76E+01		
14	2.64E+09	142	2.77E+06	2132	0.	FROSTPOINT	
16	1.33E+09	161	1.58E+06	2429	2.13E+01	-17.1	
18	1.59E+09	181	9.95E+05	2726	4.56E+01		
20	8.05E+08	201	5.09E+05	3023	0.	TAS (M/S)	
22	1.07E+09	221	4.04E+05	3320	0.	133.0	
24	8.46E+08	241	3.46E+05	3617	0.		
26	7.81E+08	261	2.37E+05	3914	0.	NT (N/M3)	
28	4.54E+08	280	1.24E+05	4211	0.	2376197.8	
30	5.47E+08	300	8.91E+04	4508	0.		
						TOTALS	
LWC	1.16E-01		8.39E-01		3.93E-01	1.29E+00	
MED D	21		131		1943	184	

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.8

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7	
2	1.71E+09	23	6.30E+07	404	1.97E+04	ALT (KM)	
4	1.01E+10	43	4.84E+07	647	1.69E+02	4.853	
6	2.01E+10	62	2.75E+07	944	6.43E+01		
8	1.51E+10	82	1.53E+07	1241	0.	TEMP (C)	
10	8.64E+09	102	8.48E+06	1538	1.78E+01	-16.4	
12	3.86E+09	122	5.36E+06	1835	0.		
14	3.94E+09	142	2.58E+06	2132	0.	FROSTPOINT	
16	1.56E+09	161	1.47E+06	2429	2.13E+01	-17.0	
18	1.85E+09	181	8.83E+05	2726	0.		
20	1.36E+09	201	6.51E+05	3023	0.	TAS (M/S)	
22	1.41E+09	221	4.85E+05	3320	0.	132.9	
24	8.88E+08	241	1.73E+05	3617	0.		
26	9.57E+08	260	1.84E+05	3914	0.	NT (N/M3)	
28	6.61E+08	280	1.37E+05	4211	0.	2227371.4	
30	5.58E+08	300	1.84E+05	4508	0.		
						TOTALS	
LWC	1.51E-01		8.39E-01		1.92E-01	1.05E+00	
MED D	21		135		463	161	

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.68E+09	23	7.13E+07	404	1.12E+04	ALT (KM)
4	9.77E+08	43	5.36E+07	647	6.12E+01	4.853
6	2.13E+10	62	3.76E+07	944	0.	
8	1.88E+10	82	1.59E+07	1241	1.69E+01	TEMP (C)
10	1.20E+10	102	9.49E+06	1538	0.	-16.4
12	5.36E+09	122	4.38E+06	1835	0.	
14	5.63E+09	142	2.55E+06	2132	0.	FROSTPOINT
16	2.15E+09	161	1.18E+06	2429	0.	-17.0
18	2.23E+09	181	4.96E+05	2726	0.	
20	1.51E+09	201	4.26E+05	3023	0.	TAS (M/S)
22	1.63E+09	221	1.88E+05	3320	0.	132.4
24	1.05E+09	241	2.79E+05	3617	0.	
26	1.29E+09	260	1.83E+05	3914	0.	NT (N/M3)
28	7.33E+08	280	1.50E+05	4211	0.	2428667.2
30	8.79E+08	300	1.15E+05	4508	0.	
						TOTALS
LWC	1.94E-01		9.35E-01		6.15E-02	8.86E-01
MED D	21		125		414	134

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:46
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.39E+09	23	7.26E+07	404	9.81E+03	ALT (KM)
4	9.61E+08	43	4.69E+07	647	1.38E+02	4.853
6	2.03E+10	62	2.71E+07	944	8.06E+01	
8	1.96E+10	82	1.32E+07	1241	8.49E+01	TEMP (C)
10	1.36E+10	102	7.91E+06	1538	3.58E+01	-16.5
12	6.15E+09	122	4.70E+06	1835	7.59E+01	
14	5.79E+09	142	2.06E+06	2132	0.	FROSTPOINT
16	2.21E+09	161	1.16E+06	2429	0.	-16.9
18	2.23E+09	181	6.12E+05	2726	2.53E+01	
20	1.55E+09	201	3.71E+05	3023	0.	TAS (M/S)
22	1.63E+09	221	1.98E+05	3320	0.	131.9
24	1.15E+09	241	2.39E+05	3617	0.	
26	1.32E+09	260	1.26E+05	3914	0.	NT (N/M3)
28	7.56E+08	280	7.59E+04	4211	0.	1396170.5
30	1.01E+09	300	5.41E+04	4508	0.	
						TOTALS
LWC	2.04E-01		6.54E-01		2.67E-01	9.20E-01
MED D	21		123		1737	165

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	1.43E+09	23	7.77E+07	404	1.46E+04	ALT (KM)
4	9.62E+08	43	5.23E+07	647	5.15E+01	4.854
6	2.11E+10	62	2.98E+07	944	7.23E+01	
8	1.86E+10	82	1.77E+07	1241	1.79E+01	TEMP (C)
10	1.26E+10	102	9.39E+06	1538	3.53E+01	-16.5
12	5.93E+09	122	4.96E+06	1835	1.91E+01	
14	5.66E+09	142	2.58E+06	2132	0.	FROSTPOINT
16	1.91E+09	161	1.21E+06	2429	2.15E+01	-17.0
18	2.32E+09	181	1.13E+06	2726	0.	
20	1.69E+09	201	4.80E+05	3023	2.49E+01	TAS (M/S)
22	1.61E+09	221	3.77E+05	3320	0.	131.7
24	1.15E+09	241	1.75E+05	3617	0.	
26	1.50E+09	260	2.13E+05	3914	0.	NT (N/M3)
28	8.27E+08	280	2.37E+05	4211	0.	2389288.7
30	1.13E+09	300	1.32E+05	4508	0.	
						TOTALS
LWC	2.09E-01		8.95E-01		3.01E-01	1.19E+00
MED D	22		133		2307	178

SAMPLE: 32A AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 21:39:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.55E+09	23	6.32E+07	404	9.75E+03	ALT (KM)
4	8.92E+08	43	7.31E+07	647	4.58E+01	4.853
6	2.12E+10	62	2.14E+07	944	4.81E+01	
8	1.93E+10	82	1.50E+07	1241	1.69E+01	TEMP (C)
10	1.31E+10	102	7.52E+06	1538	3.56E+01	-16.5
12	6.33E+09	122	4.31E+06	1835	8.	
14	6.69E+09	142	2.78E+06	2132	0.	FROSTPOINT
16	2.44E+09	161	1.11E+06	2429	0.	-16.9
18	2.38E+09	181	9.37E+05	2726	0.	
20	1.58E+09	201	4.53E+05	3023	0.	TAS (M/S)
22	1.68E+09	221	3.44E+05	3320	0.	132.5
24	1.21E+09	241	2.43E+05	3617	8.	
26	1.36E+09	260	1.91E+05	3914	0.	NT (N/M3)
28	7.66E+08	280	1.49E+05	4211	8.	1898081.4
30	1.05E+09	300	9.57E+04	4508	8.	
						TOTALS
LWC	2.10E-01		7.58E-01		9.76E-02	8.56E-01
MED D	21		137		454	149

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:37
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	6.14E+08	23	1.32E+05	404	4.93E+04	ALT (KM)
4	2.79E+09	43	8.61E+07	647	0.	4.871
6	5.53E+09	62	4.25E+07	944	0.	
8	3.89E+09	82	1.93E+07	1241	0.	TEMP (C)
10	2.27E+09	102	7.79E+06	1538	0.	-15.1
12	1.47E+09	122	4.23E+06	1835	0.	
14	1.39E+09	142	2.18E+06	2132	0.	FROSTPOINT
16	6.91E+08	161	4.97E+05	2429	0.	-17.8
18	6.91E+08	181	1.12E+06	2726	0.	
20	5.36E+08	201	7.25E+05	3023	0.	TAS (M/S)
22	5.01E+08	221	6.38E+05	3320	0.	129.7
24	3.63E+08	241	4.46E+05	3617	0.	
26	4.23E+08	261	1.12E+06	3914	0.	NT (N/M3)
28	1.76E+08	280	9.75E+04	4211	0.	3255638.9
30	2.19E+08	300	8.73E+04	4508	0.	
						TOTALS
LWC	5.42E-02		8.59E-01		7.21E-01	1.19E+00
MED D	21		121		404	174

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.4
2	1.74E+09	23	1.34E+08	404	1.03E+05	ALT (KM)
4	1.11E+10	43	1.19E+08	647	0.	4.871
6	1.39E+10	62	5.41E+07	944	0.	
8	1.68E+10	82	2.28E+07	1241	0.	TEMP (C)
10	1.08E+10	102	1.07E+07	1538	0.	-15.5
12	5.05E+09	122	4.69E+06	1835	0.	
14	5.22E+09	142	2.35E+06	2132	0.	FROSTPOINT
16	1.95E+09	161	1.39E+06	2429	0.	-17.8
18	2.12E+09	181	1.12E+06	2726	0.	
20	1.33E+09	201	6.78E+05	3023	0.	TAS (M/S)
22	1.54E+09	221	6.49E+05	3320	0.	129.2
24	1.02E+09	241	5.34E+05	3617	0.	
26	1.20E+09	260	3.42E+05	3914	0.	NT (N/M3)
28	7.37E+08	280	2.19E+05	4211	0.	4179703.1
30	8.85E+08	300	1.96E+05	4508	0.	
						TOTALS
LWC	1.93E-01		1.17E+00		7.19E-01	1.89E+00
MED D	21		128		404	236

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.54E+09	23	1.84E+08	404	1.36E+05	ALT (KM)
4	6.77E+09	43	1.29E+08	647	0.	4.870
6	1.19E+10	62	5.17E+07	944	0.	
8	9.61E+09	82	2.57E+07	1241	0.	TEMP (C)
10	5.83E+09	102	1.08E+07	1538	0.	-15.3
12	3.13E+09	122	4.55E+06	1835	0.	
14	2.53E+09	142	3.12E+06	2132	0.	FROSTPOINT
16	1.23E+09	161	1.34E+06	2429	0.	-17.9
18	1.48E+09	181	9.91E+05	2726	0.	
20	8.99E+08	201	5.92E+05	3023	0.	TAS (M/S)
22	9.20E+08	221	5.12E+05	3320	0.	129.3
24	6.83E+08	241	2.49E+05	3617	0.	
26	5.66E+08	260	2.58E+05	3914	0.	NT (N/M3)
28	3.82E+08	280	2.72E+05	4211	0.	4359292.8
30	3.54E+08	300	2.44E+05	4508	0.	
						TOTALS
LWC	1.61E-01		1.13E+00		8.94E-01	2.08E+00
MED D	20		123		404	274

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.5
2	1.24E+09	23	1.54E+08	404	1.49E+05	ALT (KM)
4	8.29E+09	43	9.36E+07	647	0.	4.873
6	1.88E+10	62	4.37E+07	944	1.64E+01	
8	1.98E+10	82	2.13E+07	1241	0.	TEMP (C)
10	1.34E+10	102	8.49E+06	1538	0.	-15.7
12	6.74E+09	122	4.30E+06	1835	0.	
14	6.92E+09	142	2.49E+06	2132	0.	FROSTPOINT
16	2.25E+09	161	9.15E+05	2429	0.	-17.8
18	2.71E+09	181	9.34E+05	2726	0.	
20	1.55E+09	201	4.37E+05	3023	0.	TAS (M/S)
22	1.79E+09	221	4.16E+05	3320	0.	129.2
24	1.22E+09	241	1.42E+05	3617	0.	
26	1.48E+09	260	2.06E+05	3914	0.	NT (N/M3)
28	7.65E+08	280	2.36E+05	4211	0.	3503050.3
30	1.29E+09	300	2.57E+05	4508	0.	
						TOTALS
LWC	2.24E-01		9.79E-01		9.82E-01	1.98E+00
MED D	21		124		405	318

SAMPLE# 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*22#17#41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.2
2	1.16E+03	23	1.49E+08	404	8.52E+14	ALT (KM)
4	8.32E+09	43	1.17E+08	647	0.	4.874
6	1.81E+10	62	4.92E+07	944	0.	
8	1.82E+10	82	2.30E+07	1241	0.	TEMP (C)
10	1.29E+10	102	1.40E+07	1538	0.	-15.8
12	6.69E+09	122	4.02E+06	1835	0.	
14	6.46E+09	142	1.89E+06	2132	0.	FROSTPOINT
16	2.39E+09	161	1.19E+06	2429	0.	-17.7
18	2.47E+09	181	4.95E+05	2726	0.	
20	1.61E+09	201	9.21E+05	3023	0.	TAS (M/S)
22	1.69E+09	221	3.53E+05	3320	0.	129.1
24	1.22E+09	241	2.35E+05	3617	0.	
26	1.53E+09	260	2.20E+05	3914	0.	NT (N/M3)
28	8.72E+08	280	1.70E+05	4211	0.	3929365.2
30	1.07E+09	300	1.53E+05	4508	0.	
						TOTALS
LWC	2.18E-01		9.49E-01		5.60E-01	1.51E+00
MED D	21		111		404	215

SAMPLE# 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*22#17#43*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.0
2	2.50E+09	23	1.61E+08	484	9.40E+94	ALT (KM)
4	1.25E+10	43	1.20E+08	647	0.	4.877
6	2.09E+10	62	5.06E+07	944	0.	
8	1.47E+10	82	2.37E+07	1241	0.	TEMP (C)
10	9.53E+09	102	1.44E+07	1538	0.	-15.9
12	4.17E+09	122	5.20E+06	1835	0.	
14	4.49E+09	142	3.67E+06	2132	0.	FROSTPOINT
16	1.40E+09	161	1.24E+06	2429	0.	-17.5
18	1.64E+09	181	9.65E+05	2726	0.	
20	1.25E+09	201	5.26E+05	3023	0.	TAS (M/S)
22	1.07E+09	221	8.58E+05	3320	0.	128.7
24	9.60E+08	241	2.94E+05	3617	0.	
26	1.13E+09	261	2.33E+05	3914	0.	NT (N/M3)
28	6.49E+08	280	1.90E+05	4211	0.	4429336.5
30	8.74E+08	300	1.70E+05	4508	0.	
						TOTALS
LWC	1.63E-01		1.18E+00		6.23E-01	1.98E+00
MED D	22		122		404	209

SAMPLE# 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*22#17#42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	1.79E+09	23	1.82E+08	484	1.01E+15	ALT (KM)
4	1.13E+10	43	1.15E+08	647	0.	4.875
6	1.97E+10	62	4.96E+07	944	0.	
8	1.64E+10	82	2.55E+07	1241	0.	TEMP (C)
10	1.11E+10	102	1.38E+07	1538	0.	-15.8
12	5.21E+09	122	5.36E+06	1835	0.	
14	5.48E+09	142	3.52E+06	2132	0.	FROSTPOINT
16	1.70E+09	161	1.21E+06	2429	0.	-17.6
18	2.07E+09	181	9.36E+05	2726	0.	
20	1.38E+09	201	6.71E+05	3023	0.	TAS (M/S)
22	1.38E+09	221	4.17E+05	3320	0.	129.0
24	1.09E+09	241	2.14E+05	3617	0.	
26	1.31E+09	260	2.07E+05	3914	0.	NT (N/M3)
28	7.16E+08	280	2.80E+05	4211	0.	4247447.6
30	1.82E+09	300	1.79E+05	4508	0.	
						TOTALS
LWC	1.87E-01		1.09E+00		6.57E-01	1.74E+00
MED D	22		117		404	210

SAMPLE# 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START#*22#17#44*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 46 GPM DISTANCE# 400 FT CAL FACTOR# 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.0
2	2.50E+09	23	1.66E+08	484	7.87E+14	ALT (KM)
4	1.33E+10	43	1.18E+08	647	0.	4.877
6	1.98E+10	62	5.13E+07	944	0.	
8	1.78E+10	82	2.24E+07	1241	0.	TEMP (C)
10	8.73E+09	102	1.15E+07	1538	0.	-15.9
12	4.49E+09	122	5.46E+06	1835	0.	
14	4.37E+09	142	2.49E+06	2132	0.	FROSTPOINT
16	1.26E+09	161	1.14E+06	2429	0.	-17.4
18	1.43E+09	181	6.15E+05	2726	0.	
20	1.02E+09	201	6.42E+05	3023	0.	TAS (M/S)
22	9.79E+08	221	5.46E+05	3320	0.	128.9
24	6.76E+08	241	2.37E+05	3617	0.	
26	9.51E+08	261	1.98E+05	3914	0.	NT (N/M3)
28	5.82E+08	280	1.57E+05	4211	0.	4184737.6
30	6.81E+08	300	1.41E+05	4508	0.	
						TOTALS
LWC	1.39E-01		1.14E+00		5.17E-01	1.95E+00
MED D	21		115		404	193

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *22:17:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB): 948.9
2	3.13E+09	23	1.52E+08	404	1.01E+05	ALT (KM)
4	1.52E+10	43	1.05E+08	647	0.	4.878
6	1.97E+10	62	5.11E+07	944	0.	
8	1.17E+10	82	2.18E+07	1241	0.	TEMP (C)
10	6.69E+09	102	1.12E+07	1538	0.	-15.8
12	2.51E+09	122	6.36E+06	1835	0.	
14	3.31E+09	142	3.51E+06	2132	0.	FROSTPOINT
16	9.34E+08	161	1.56E+06	2429	0.	-17.2
18	1.85E+09	181	1.14E+06	2726	0.	
20	6.51E+08	201	4.95E+05	3023	0.	TAS (M/S)
22	7.32E+08	221	4.30E+05	3320	0.	129.3
24	5.59E+08	241	2.13E+05	3617	0.	
26	6.72E+08	260	2.08E+05	3914	0.	NT (N/M3)
28	3.49E+08	280	2.12E+05	4211	0.	4017815.9
30	4.89E+08	300	1.31E+05	4508	0.	
						TOTALS
LWC	1.03E-01		1.18E+00		6.64E-01	1.75E+00
MED D	21		121		404	215

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *22:17:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB): 948.9
2	3.33E+09	23	1.55E+08	404	6.92E+04	ALT (KM)
4	1.57E+10	43	9.69E+07	647	0.	4.880
6	1.88E+10	62	4.68E+07	944	0.	
8	1.02E+10	82	1.99E+07	1241	0.	TEMP (C)
10	5.84E+09	102	8.52E+06	1538	0.	-15.7
12	2.19E+09	122	3.95E+06	1835	0.	
14	2.87E+09	142	1.95E+06	2132	0.	FROSTPOINT
16	8.34E+08	161	7.65E+05	2429	0.	-17.1
18	1.01E+09	181	6.93E+05	2726	0.	
20	6.29E+08	201	3.49E+05	3023	0.	TAS (M/S)
22	6.57E+08	221	3.20E+05	3320	0.	129.5
24	4.99E+08	241	1.97E+05	3617	0.	
26	4.88E+08	260	1.21E+05	3914	0.	NT (N/M3)
28	3.13E+08	280	1.38E+05	4211	0.	3522827.7
30	3.53E+08	300	1.24E+05	4508	0.	
						TOTALS
LWC	8.74E-02		8.39E-01		4.55E-01	1.26E+00
MED D	20		107		404	188

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *22:17:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB): 948.9
2	3.59E+09	23	1.50E+08	404	9.89E+04	ALT (KM)
4	1.58E+10	43	9.06E+07	647	0.	4.878
6	1.79E+10	62	4.23E+07	944	0.	
8	1.02E+10	82	1.95E+07	1241	0.	TEMP (C)
10	5.15E+09	102	9.34E+06	1538	0.	-15.8
12	2.41E+09	122	3.51E+06	1835	0.	
14	2.79E+09	142	2.51E+06	2132	0.	FROSTPOINT
16	7.59E+08	161	1.04E+06	2429	0.	-17.1
18	8.93E+08	181	8.28E+05	2726	0.	
20	6.85E+08	201	5.54E+05	3023	0.	TAS (M/S)
22	6.17E+08	221	4.49E+05	3320	0.	129.1
24	5.81E+08	241	3.56E+05	3617	0.	
26	6.45E+08	260	3.49E+05	3914	0.	NT (N/M3)
28	2.91E+08	280	1.98E+05	4211	0.	3489166.0
30	4.47E+08	300	1.77E+05	4508	0.	
						TOTALS
LWC	9.18E-02		8.87E-01		6.50E-01	1.54E+00
MED D	21		116		404	230

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: *22:17:45*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 10.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB): 948.9
2	3.62E+09	23	1.25E+08	404	1.63E+05	ALT (KM)
4	1.57E+10	43	7.98E+07	647	0.	4.880
6	1.82E+10	62	3.92E+07	944	1.64E+01	
8	1.03E+10	82	1.81E+07	1241	0.	TEMP (C)
10	5.28E+09	102	9.46E+06	1538	0.	-15.7
12	2.24E+09	122	4.37E+05	1835	0.	
14	2.54E+09	142	2.22E+06	2132	0.	FROSTPOINT
16	6.23E+08	161	1.34E+06	2429	0.	-17.0
18	9.34E+08	181	7.74E+05	2726	0.	
20	5.45E+08	201	4.66E+05	3023	0.	TAS (M/S)
22	6.72E+08	221	4.48E+05	3320	0.	129.3
24	5.09E+08	241	1.42E+05	3617	0.	
26	7.79E+08	260	2.13E+05	3914	0.	NT (N/M3)
28	3.40E+08	280	3.20E+05	4211	0.	3128991.7
30	4.95E+08	300	2.87E+05	4508	0.	
						TOTALS
LWC	9.42E-02		9.39E-01		1.05E+00	1.99E+00
MED D	22		138		404	320

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:43
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.8
2	3.69E+09	23	1.53E+08	404	1.06E+05	ALT (KM)
4	1.26E+10	43	9.59E+07	647	0.	4.880
6	1.43E+10	62	4.34E+07	944	0.	
8	6.76E+09	82	2.46E+07	1241	0.	TEMP (C)
10	3.28E+09	102	1.02E+07	1538	0.	-15.7
12	1.35E+09	122	4.42E+06	1835	0.	
14	1.63E+09	142	2.79E+06	2132	0.	FROSTPOINT
16	4.89E+08	161	1.14E+06	2429	0.	-17.0
18	5.10E+08	181	6.58E+05	2726	0.	
20	3.75E+08	201	6.12E+05	3023	0.	TAS (M/S)
22	4.11E+08	221	3.52E+05	3320	0.	129.2
24	4.39E+08	241	1.42E+05	3617	0.	
26	3.97E+08	260	1.73E+05	3914	0.	NT (N/M3)
28	2.45E+08	280	2.11E+05	4211	0.	3017239.6
30	1.63E+08	300	1.99E+05	4508	0.	
						TOTALS
LWC	5.60E-02		9.37E-01		6.94E-01	1.69E+00
MED D	28		114		404	235

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.8
2	3.59E+09	23	1.58E+08	404	9.89E+04	ALT (KM)
4	1.60E+10	43	9.10E+07	647	0.	4.880
6	1.87E+10	62	4.28E+07	944	0.	
8	9.71E+09	82	1.98E+07	1241	0.	TEMP (C)
10	4.96E+09	102	9.16E+06	1538	0.	-15.6
12	1.67E+09	122	4.19E+06	1835	0.	
14	2.44E+09	142	2.91E+06	2132	0.	FROSTPOINT
16	7.37E+08	161	9.48E+05	2429	0.	-17.8
18	7.93E+08	181	7.75E+05	2726	0.	
20	5.31E+08	201	3.21E+05	3023	0.	TAS (M/S)
22	4.68E+08	221	4.31E+05	3320	0.	129.1
24	5.17E+08	241	2.55E+05	3617	0.	
26	3.75E+08	260	2.37E+05	3914	0.	NT (N/M3)
28	2.41E+08	280	1.98E+05	4211	0.	3437858.8
30	2.62E+08	300	1.77E+05	4508	0.	
						TOTALS
LWC	7.33E-02		9.27E-01		6.53E-01	1.58E+00
MED D	19		121		404	251

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:51
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.8
2	3.26E+09	23	1.66E+08	404	1.12E+05	ALT (KM)
4	1.37E+10	43	8.53E+07	647	0.	4.880
6	1.63E+10	62	3.77E+07	944	0.	
8	7.04E+09	82	1.76E+07	1241	0.	TEMP (C)
10	4.23E+09	102	8.34E+06	1538	0.	-15.6
12	1.53E+09	122	3.74E+06	1835	0.	
14	2.14E+09	142	1.82E+06	2132	0.	FROSTPOINT
16	6.65E+08	161	7.42E+05	2429	0.	-17.0
18	6.94E+08	181	5.34E+05	2726	0.	
20	5.03E+08	201	4.08E+05	3023	0.	TAS (M/S)
22	4.45E+08	221	2.37E+05	3320	0.	129.1
24	4.96E+08	241	2.85E+05	3617	0.	
26	4.42E+08	260	2.53E+05	3914	0.	NT (N/M3)
28	2.69E+08	280	2.25E+05	4211	0.	3141895.3
30	3.19E+08	300	2.11E+05	4508	0.	
						TOTALS
LWC	7.18E-02		8.37E-01		7.38E-01	1.58E+00
MED D	21		122		404	293

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 548.7
2	3.51E+09	23	1.39E+08	404	1.28E+05	ALT (KM)
4	1.56E+10	43	9.50E+07	647	0.	4.881
6	1.92E+10	62	4.39E+07	944	0.	
8	1.03E+10	82	2.22E+07	1241	0.	TEMP (C)
10	5.69E+09	102	8.97E+06	1538	0.	-15.6
12	2.06E+09	122	4.54E+06	1835	0.	
14	2.76E+09	142	2.91E+06	2132	0.	FROSTPOINT
16	7.31E+08	161	8.67E+05	2429	0.	-17.8
18	7.45E+08	181	6.83E+05	2726	0.	
20	5.32E+08	201	4.37E+05	3023	0.	TAS (M/S)
22	5.64E+08	221	5.78E+05	3320	0.	128.9
24	4.54E+08	241	2.14E+05	3617	0.	
26	4.61E+08	260	2.34E+05	3914	0.	NT (N/M3)
28	3.12E+08	280	2.57E+05	4211	0.	3732334.8
30	3.62E+08	300	2.38E+05	4508	0.	
						TOTALS
LWC	8.24E-02		9.36E-01		8.44E-01	1.84E+00
MED D	20		121		404	286

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:53
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	3.59E+09	23	1.59E+08	484	1.93E+15	ALT (KM)
4	1.68E+10	43	9.39E+07	647	0.	4.877
6	2.14E+10	62	5.13E+07	944	0.	
8	1.23E+10	82	2.22E+07	1241	0.	TEMP (C)
10	6.93E+09	102	9.85E+06	1538	0.	-15.6
12	2.42E+09	122	4.74E+06	1835	0.	
14	3.18E+09	142	2.47E+06	2132	0.	FROSTPOINT
16	7.53E+08	161	1.36E+06	2429	0.	-16.9
18	1.02E+09	181	9.39E+05	2726	0.	
20	6.82E+08	201	4.57E+05	3023	0.	TAS (M/S)
22	6.61E+08	221	2.57E+05	3320	0.	128.8
24	5.11E+08	241	1.87E+05	3617	0.	
26	6.32E+08	260	1.47E+05	3914	0.	NT (N/M3)
28	4.85E+08	280	2.01E+05	4211	0.	3926388.5
30	5.84E+08	300	1.36E+05	4508	0.	
						TOTALS
LWC	1.92E-01		9.41E-01		6.68E-11	1.15E+00
MED D	20		115		+04	230

SAMPLE: 328 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:55
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.1
2	2.58E+09	23	1.16E+08	484	5.76E+14	ALT (KM)
4	1.48E+10	43	7.83E+07	647	0.	4.875
6	2.11E+10	62	2.88E+07	944	0.	
8	1.51E+10	82	1.83E+07	1241	0.	TEMP (C)
10	9.68E+09	102	6.18E+06	1538	0.	-15.7
12	4.13E+09	122	2.18E+06	1835	0.	
14	4.82E+09	142	1.41E+06	2132	0.	FROSTPOINT
16	1.35E+09	161	3.36E+05	2429	0.	-16.9
18	1.42E+09	181	2.67E+05	2726	0.	
20	8.39E+08	201	2.14E+05	3023	0.	TAS (M/S)
22	1.06E+09	221	6.42E+04	3320	0.	129.0
24	6.89E+08	241	1.43E+05	3617	0.	
26	9.79E+08	260	1.28E+05	3914	0.	NT (N/M3)
28	5.32E+08	280	1.15E+05	4211	0.	2449598.6
30	7.24E+08	300	1.33E+05	4508	0.	
						TOTALS
LWC	1.43E-01		5.37E-01		3.73E-11	9.16E-01
MED D	21		104		404	251

SAMPLE: 329 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-04 ON 24 JAN 79 1 SECOND AVERAGING
INTERVAL START: 22:17:54
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 46 GPM DISTANCE: 400 FT CAL FACTOR: 18.0

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 549.9
2	2.49E+09	23	1.37E+08	484	1.28E+15	ALT (KM)
4	1.42E+10	43	1.08E+08	647	0.	4.877
6	2.23E+10	62	4.52E+07	944	1.65E+01	
8	1.50E+10	82	2.11E+07	1241	0.	TEMP (C)
10	9.55E+09	102	9.47E+06	1538	0.	-15.6
12	3.93E+09	122	3.75E+06	1835	0.	
14	4.45E+09	142	2.26E+06	2132	0.	FROSTPOINT
16	1.09E+09	161	1.13E+06	2429	0.	-16.9
18	1.42E+09	181	8.94E+05	2726	0.	
20	8.38E+08	201	5.53E+05	3023	0.	TAS (M/S)
22	8.76E+08	221	5.46E+05	3320	0.	128.8
24	7.96E+08	241	1.79E+05	3617	0.	
26	7.88E+08	269	2.13E+05	3914	0.	NT (N/M3)
28	5.84E+08	288	2.55E+05	4211	0.	3693269.3
30	6.25E+08	309	2.28E+05	4508	0.	
						TOTALS
LWC	1.33E-01		9.59E-01		8.41E-01	1.88E+00
MED D	20		122		485	292

SAMPLE: XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:02:57
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 100 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.8
2	4.18E+08	23	3.38E+07	484	4.75E+14	ALT (KM)
4	6.83E+08	43	3.46E+07	647	2.74E+03	4.858
6	1.86E+09	62	1.57E+07	944	7.72E+02	
8	3.86E+09	82	1.39E+07	1241	1.51E+12	TEMP (C)
10	7.02E+09	102	5.51E+06	1538	1.28E+02	-11.7
12	9.31E+09	122	4.88E+06	1835	8.45E+01	
14	1.38E+10	142	2.32E+06	2132	2.24E+01	FROSTPOINT
16	1.24E+10	161	1.21E+06	2429	0.	-15.2
18	1.65E+10	181	1.26E+06	2726	0.	
20	1.14E+10	201	4.13E+05	3023	0.	TAS (M/S)
22	1.23E+10	221	4.98E+05	3320	0.	110.4
24	6.61E+09	241	3.11E+05	3617	0.	
26	8.53E+09	266	2.52E+05	3914	0.	NT (N/M3)
28	3.64E+09	286	2.84E+05	4211	0.	1538876.6
30	7.92E+09	308	1.62E+05	4508	0.	
						TOTALS
LWC	1.02E+00		7.51E-01		7.57E-01	1.91E+00
MED D	24		162		670	312

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:02:58*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.7
2	4.56E+08	23	1.54E+06	404	0.23E+04	ALT (KM)
4	1.01E+08	43	1.13E+08	647	8.04E+02	4.853
6	2.95E+09	62	5.21E+07	944	1.88E+02	
8	5.85E+09	82	3.39E+07	1241	9.45E+01	TEMP (C)
10	1.01E+10	102	2.22E+07	1538	0.	-11.8
12	1.12E+10	122	1.26E+07	1835	0.	
14	1.62E+10	142	9.13E+06	2132	2.25E+01	FROSTPOINT
16	1.32E+10	161	4.93E+06	2429	0.	-15.3
18	1.56E+10	181	3.24E+06	2726	0.	
20	9.39E+09	201	2.45E+06	3023	0.	TAS (M/S)
22	4.86E+09	221	2.16E+06	3320	0.	118.3
24	5.37E+09	241	1.24E+06	3617	0.	
26	7.16E+09	260	1.05E+06	3914	0.	NT (N/M3)
28	2.84E+09	281	3.35E+05	4211	0.	5456381.2
30	6.77E+09	300	5.17E+05	4508	0.	
						TOTALS
LWC	9.08E-01		2.82E+00		6.65E-01	3.48E+00
MED D	23		178		425	202

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:03:08*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.5
2	6.26E+08	23	2.50E+06	404	0.84E+04	ALT (KM)
4	2.32E+08	43	1.41E+08	647	8.84E+01	4.856
6	6.67E+09	62	3.57E+07	944	1.80E+01	
8	1.35E+10	82	5.25E+07	1241	0.	TEMP (C)
10	1.39E+10	102	3.56E+07	1538	0.	-12.2
12	1.34E+10	122	2.34E+07	1835	0.	
14	1.69E+10	142	1.79E+07	2132	0.	FROSTPOINT
16	1.14E+10	161	7.91E+06	2429	0.	-15.6
18	1.32E+10	181	5.95E+06	2726	0.	
20	7.64E+09	201	3.63E+06	3023	2.76E+01	TAS (M/S)
22	7.03E+09	221	4.23E+06	3320	0.	118.3
24	3.64E+09	241	1.98E+06	3617	0.	
26	4.98E+09	260	1.35E+06	3914	0.	NT (N/M3)
28	1.80E+09	280	1.32E+06	4211	0.	8468658.3
30	4.62E+09	300	1.11E+06	4508	0.	
						TOTALS
LWC	6.95E-01		4.85E+00		5.21E-01	5.37E+00
MED D	22		178		434	193

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:02:53*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.5
2	8.13E+08	23	2.95E+06	404	1.01E+05	ALT (KM)
4	2.68E+08	43	1.82E+08	647	1.11E+02	4.856
6	7.43E+09	62	3.59E+07	944	1.18E+02	
8	1.23E+10	82	5.35E+07	1241	3.79E+01	TEMP (C)
10	1.65E+10	102	3.12E+07	1538	0.	-12.0
12	1.44E+10	122	1.98E+07	1835	0.	
14	1.58E+10	142	1.22E+07	2132	0.	FROSTPOINT
16	9.31E+09	161	5.59E+06	2429	0.	-15.5
18	9.73E+09	181	5.28E+06	2726	0.	
20	4.38E+09	201	3.47E+06	3023	0.	TAS (M/S)
22	4.57E+09	221	3.76E+06	3320	0.	118.2
24	2.19E+09	241	2.18E+06	3617	0.	
26	3.27E+09	260	1.88E+06	3914	0.	NT (N/M3)
28	1.10E+09	280	1.69E+06	4211	0.	8279178.1
30	3.39E+09	300	1.38E+06	4508	0.	
						TOTALS
LWC	5.15E-01		4.43E+00		7.08E-01	5.14E+00
MED D	21		179		411	202

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:03:01*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 558.4
2	5.41E+08	23	3.74E+06	404	3.93E+04	ALT (KM)
4	1.17E+08	43	1.45E+08	647	1.71E+01	4.857
6	3.62E+09	62	3.01E+07	944	0.	
8	6.62E+09	82	5.30E+07	1241	1.83E+01	TEMP (C)
10	1.18E+10	102	3.13E+07	1538	1.99E+01	-12.5
12	1.21E+10	122	2.21E+07	1835	0.	
14	1.63E+10	142	1.38E+07	2132	0.	FROSTPOINT
16	1.35E+10	161	8.12E+06	2429	0.	-15.7
18	1.62E+10	181	5.90E+06	2726	0.	
20	9.39E+09	201	4.35E+06	3023	0.	TAS (M/S)
22	1.17E+10	221	3.95E+06	3320	0.	118.4
24	5.56E+09	241	2.37E+06	3617	0.	
26	6.81E+09	260	2.19E+06	3914	0.	NT (N/M3)
28	2.90E+09	280	2.03E+06	4211	0.	8987223.1
30	6.71E+09	300	1.79E+06	4508	0.	
						TOTALS
LWC	9.11E-01		5.09E+00		2.79E-01	5.37E+00
MED D	23		182		411	188

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:03:02*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	5.73E+08	23	3.68E+08	404	5.13E+04	ALT (KM)
4	7.28E+08	43	1.76E+08	647	5.14E+01	4.856
6	1.30E+09	62	9.46E+07	944	3.67E+01	
9	3.31E+09	82	5.45E+07	1241	1.89E+01	TEMP (C)
10	7.82E+09	102	3.12E+07	1538	0.	-12.7
12	9.35E+09	122	1.81E+07	1835	0.	
14	1.44E+10	142	1.25E+07	2132	2.25E+01	FROSTPOINT
16	1.29E+10	161	7.97E+06	2429	0.	-15.9
18	1.69E+10	181	5.19E+06	2726	0.	
20	1.16E+10	201	3.98E+06	3023	0.	TAS (M/S)
22	1.33E+10	221	3.75E+06	3320	0.	118.2
24	7.23E+09	241	2.31E+06	3617	0.	
26	9.66E+09	260	1.99E+06	3914	0.	NT (N/M3)
28	3.63E+09	281	1.73E+06	4211	0.	8168264.4
30	8.66E+09	300	9.65E+05	4508	0.	
						TOTALS
LWC	1.03E+00		4.45E+00		3.03E+01	5.03E+00
MED D	24		192		418	191

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:03:04*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	5.63E+08	23	4.18E+07	404	6.74E+03	ALT (KM)
4	3.11E+08	43	3.45E+07	647	1.72E+01	4.852
6	9.33E+08	62	1.74E+07	944	0.	
9	2.25E+09	82	7.59E+06	1241	0.	TEMP (C)
10	4.33E+09	102	5.27E+06	1538	0.	-12.8
12	7.63E+09	122	4.45E+06	1835	0.	
14	1.23E+10	142	3.37E+06	2132	2.26E+01	FROSTPOINT
16	1.23E+10	161	1.44E+06	2429	0.	-15.8
18	1.83E+10	181	1.41E+06	2726	0.	
20	1.23E+10	201	9.25E+05	3023	0.	TAS (M/S)
22	1.43E+10	221	9.13E+05	3320	0.	117.7
24	8.57E+09	241	5.32E+05	3617	0.	
26	1.11E+10	260	2.46E+05	3914	0.	NT (N/M3)
28	4.30E+09	281	2.14E+05	4211	0.	1558279.1
30	9.52E+09	300	1.23E+05	4508	0.	
						TOTALS
LWC	1.2?E+00		8.77E-01		9.20E-02	9.69E-01
MED D	24		171		462	181

SAMPLE# XTRA AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:13:38.3*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	7.86E+08	23	1.75E+08	404	3.35E+05	ALT (KM)
4	4.27E+08	43	9.66E+07	647	**	4.852
6	1.25E+09	62	4.75E+07	944	7.00E+01	
9	2.53E+09	82	2.73E+07	1241	**	TEMP (C)
10	5.97E+09	102	1.72E+07	1538	0.	-12.8
12	8.52E+09	122	1.13E+07	1835	0.	
14	1.37E+10	142	7.46E+06	2132	0.	FROSTPOINT
16	1.32E+10	161	3.66E+06	2429	0.	-15.9
18	1.69E+10	181	3.48E+06	2726	0.	
20	1.27E+10	201	2.11E+06	3023	0.	TAS (M/S)
22	1.44E+10	221	1.78E+06	3320	0.	118.8
24	8.89E+09	241	1.01E+06	3617	0.	
26	1.11E+10	260	9.72E+05	3914	**	NT (N/M3)
28	4.63E+09	281	5.69E+05	4211	0.	4270787.9
30	1.02E+10	300	5.99E+05	4508	0.	
						TOTALS
LWC	1.24E+00		2.37E+00		2.2JE+00	4.57E+00
MED D	24		172		+05	300

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:13:05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.98E+08	23	2.28E+07	404	5.75E+03	ALT (KM)
4	4.23E+08	43	1.65E+07	647	3.44E+01	4.852
6	1.24E+09	62	5.85E+06	944	1.81E+01	
9	3.03E+09	82	4.53E+06	1241	1.43E+01	TEMP (C)
10	6.06E+09	102	2.43E+06	1538	**	-12.6
12	8.45E+09	122	2.39E+06	1835	0.	
14	1.35E+10	142	1.75E+06	2132	0.	FROSTPOINT
16	1.25E+10	161	1.05E+06	2429	0.	-15.7
18	1.73E+10	181	4.69E+05	2726	0.	
20	1.22E+10	201	4.16E+05	3023	0.	TAS (M/S)
22	1.30E+10	221	2.42E+05	3320	0.	117.6
24	8.33E+09	241	2.75E+05	3617	7.23E+01	
26	9.57E+09	260	1.39E+05	3914	0.	NT (N/M3)
28	3.76E+09	281	7.75E+04	4211	0.	705823.5
30	8.43E+09	300	9.12E+04	4508	0.	
						TOTALS
LWC	1.10E+00		4.0?E-01		2.09E-01	6.09E-01
MED D	24		166		1548	252

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-0[illegible] ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 01 03 38 05*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 551.0
2	5.24E+08	23	1.46E+08	414	2.84E+05	ALT (KM)
4	6.23E+08	43	5.76E+07	647	0.	4.850
6	1.50E+09	62	3.62E+07	944	3.66E+01	
8	3.53E+09	82	2.12E+07	1241	0.	TEMP (C)
10	5.36E+09	102	1.06E+07	1538	0.	-12.3
12	8.99E+09	122	5.89E+06	1835	2.12E+01	
14	1.31E+10	142	4.50E+06	2132	0.	F-OSTPOINT
16	1.23E+10	161	2.27E+06	2429	..	-15.6
18	1.75E+10	181	2.16E+06	2726	0.	
20	1.64E+10	201	2.04E+06	3023	0.	TAS (M/S)
22	1.31E+10	221	1.46E+06	3320	0.	119.0
24	7.13E+09	241	5.55E+05	3617	0.	
26	9.53E+09	260	5.58E+05	3914	0.	NT (N/M3)
28	3.87E+09	281	5.55E+05	4211	0.	3712127.4
30	8.42E+09	300	4.79E+05	4508	0.	
						TOTALS
LWC	1.49E+00		1.64E+00		1.73E+10	3.42E+00
MED D	24		181		406	318

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 01 03 38 07*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MJ)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 550.9
2	5.04E+08	23	2.86E+08	414	4.62E+05	ALT (KM)
4	3.57E+08	43	1.73E+08	647	0.	4.852
6	1.15E+09	62	9.01E+07	944	3.61E+01	
8	2.65E+09	82	3.10E+07	1241	1.91E+01	TEMP (C)
10	5.39E+09	102	2.03E+07	1538	2.03E+01	-12.4
12	8.15E+09	122	1.19E+07	1835	2.12E+01	
14	1.03E+10	142	7.64E+06	2132	2.25E+01	F-OSTPOINT
16	1.23E+10	161	4.69E+06	2429	..	-15.5
18	1.72E+10	181	3.34E+06	2726	0.	
20	1.23E+10	201	2.04E+06	3023	0.	TAS (M/S)
22	1.41E+10	221	2.04E+06	3320	0.	117.9
24	8.23E+09	241	1.33E+06	3617	0.29E+01	
26	1.09E+10	260	1.41E+06	3914	0.	NT (N/M3)
28	4.10E+09	281	8.43E+05	4211	..	5551583.5
30	9.48E+09	300	8.20E+05	4508	0.	
						TOTALS
LWC	1.17E+00		2.09E+00		3.36E+10	6.24E+00
MED D	24		150		414	325

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-0[illegible] ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 01 03 38 09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 551.0
2	4.36E+08	23	2.81E+08	414	3.10E+04	ALT (KM)
4	6.77E+08	43	1.42E+08	647	1.72E+01	4.858
6	2.22E+09	62	7.65E+07	944	1.81E+01	
8	4.08E+09	82	4.25E+07	1241	0.	TEMP (C)
10	8.14E+09	102	2.79E+07	1538	2.01E+01	-12.7
12	1.11E+10	122	1.63E+07	1835	2.13E+01	
14	1.55E+10	142	1.05E+07	2132	0.	F-OSTPOINT
16	1.33E+10	161	5.74E+06	2429	..	-15.5
18	1.75E+10	181	5.77E+06	2726	2.59E+01	
20	1.07E+10	201	3.27E+06	3023	0.	TAS (M/S)
22	1.22E+10	221	2.15E+06	3320	0.	117.6
24	8.79E+09	241	1.84E+06	3617	0.	
26	9.44E+09	260	1.65E+06	3914	0.	NT (N/M3)
28	3.56E+09	280	1.33E+06	4211	..	6511[illegible].7
30	7.79E+09	300	7.58E+05	4508	0.	
						TOTALS
LWC	1.04E+00		1.42E+00		7.21E-01	4.14E+00
MED D	24		193		458	192

SAMPLE# XTRA1 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 01 03 38 09*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI 420 FLOW RATE# 54 GPM DISTANCE# 100 FT CAL FACTOR# 23.5

SIZE (MJ)	SCATTER PROBE	SIZE (MJ)	CLOUD PROBE	SIZE (MJ)	PRECIP PROBE	P (MB) 551.3
2	4.36E+08	23	3.87E+07	414	1.43E+04	ALT (KM)
4	1.35E+09	43	9.14E+07	647	5.17E+01	4.846
6	4.01E+09	62	3.53E+07	944	1.81E+01	
8	8.03E+09	82	1.76E+07	1241	0.	TEMP (C)
10	1.20E+10	102	9.50E+06	1538	..	-13.0
12	1.29E+10	122	5.41E+06	1835	0.	
14	1.06E+10	142	4.01E+06	2132	0.	FROSTPOINT
16	1.25E+10	161	2.91E+06	2429	..	-15.5
18	1.53E+10	181	1.77E+06	2726	0.	
20	6.53E+09	201	1.35E+06	3023	0.	TAS (M/S)
22	9.53E+09	221	1.63E+06	3320	0.	117.4
24	5.25E+09	241	5.66E+05	3617	0.	
26	6.73E+09	260	4.74E+05	3914	0.	NT (N/M3)
28	2.18E+09	280	3.87E+05	4211	..	2694868.6
30	5.91E+09	300	2.37E+05	4508	0.	
						TOTALS
LWC	8.[illegible]E-01		1.4[illegible]E+00		1.23E-01	1.53E+00
MED D	23		167		408	178

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01105115*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	2.46E+09	23	3.20E+07	404	3.14E+05	ALT (KM)
4	5.24E+09	43	4.45E+07	647	0.	4.847
6	1.11E+10	62	2.52E+07	944	0.	
8	9.71E+09	82	1.44E+07	1241	0.	TEMP (C)
10	7.61E+09	102	8.70E+06	1538	0.	-12.7
12	4.73E+09	122	5.75E+06	1835	0.	
14	4.21E+09	142	4.67E+06	2132	0.	FROSTPOINT
16	1.65E+09	161	2.54E+06	2429	0.	-16.2
18	1.23E+09	181	2.03E+06	2726	0.	
20	6.91E+08	201	1.01E+06	3023	0.	TAS (M/S)
22	6.24E+08	221	1.39E+06	3320	0.	121.8
24	3.08E+08	241	5.46E+05	3617	0.	
26	4.53E+08	260	9.36E+05	3914	0.	NT (N/M3)
28	1.73E+08	280	3.27E+05	4211	0.	2316623.6
30	3.91E+08	300	5.62E+05	4508	0.	
						TOTALS
LWC	9.51E-02		1.08E+00		2.06E+04	3.64E+00
MED D	17		136		404	332

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01105117*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	2.41E+09	23	4.63E+06	404	3.74E+05	ALT (KM)
4	6.32E+09	43	1.12E+08	647	0.	4.847
6	1.09E+10	62	3.10E+07	944	0.	
8	1.01E+10	82	9.14E+07	1241	0.	TEMP (C)
10	7.85E+09	102	1.68E+07	1538	0.	-13.0
12	4.72E+09	122	9.96E+06	1835	0.	
14	4.42E+09	142	5.72E+06	2132	0.	FROSTPOINT
16	1.65E+09	161	4.47E+06	2429	0.	-16.3
18	1.33E+09	181	2.85E+06	2726	0.	
20	7.07E+08	201	1.59E+06	3023	0.	TAS (M/S)
22	6.63E+08	221	2.11E+06	3320	0.	121.6
24	4.23E+08	241	9.45E+05	3617	0.	
26	5.42E+08	260	9.41E+05	3914	0.	NT (N/M3)
28	2.71E+08	280	7.41E+05	4211	0.	4663972.8
30	4.21E+08	300	5.51E+05	4508	0.	
						TOTALS
LWC	1.04E-01		2.41E+00		2.43E+04	4.66E+00
MED D	18		174		404	312

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01105115*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	1.95E+09	23	1.11E+06	404	3.56E+05	ALT (KM)
4	5.13E+09	43	1.25E+08	647	0.	4.847
6	1.08E+10	62	3.71E+07	944	0.	
8	1.04E+10	82	2.94E+07	1241	0.	TEMP (C)
10	8.26E+09	102	1.95E+07	1538	0.	-12.6
12	4.94E+09	122	1.13E+07	1835	0.	
14	4.40E+09	142	7.59E+06	2132	0.	FROSTPOINT
16	1.81E+09	161	4.47E+06	2429	0.	-16.2
18	1.38E+09	181	3.35E+06	2726	0.	
20	6.70E+08	201	1.83E+06	3023	0.	TAS (M/S)
22	7.15E+08	221	1.74E+06	3320	0.	121.6
24	4.51E+08	241	1.02E+06	3617	0.	
26	6.92E+08	260	9.33E+05	3914	0.	NT (N/M3)
28	2.33E+08	280	7.12E+05	4211	0.	4971847.0
30	4.82E+08	300	8.37E+05	4508	0.	
						TOTALS
LWC	1.10E-01		2.51E+00		2.34E+04	4.84E+00
MED D	18		167		404	301

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01105119*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	2.36E+09	23	1.44E+06	404	3.24E+05	ALT (KM)
4	5.05E+09	43	1.14E+08	647	0.	4.852
6	1.14E+10	62	5.77E+07	944	0.	
8	8.87E+09	82	2.51E+07	1241	0.	TEMP (C)
10	6.92E+09	102	1.72E+07	1538	0.	-13.2
12	4.01E+09	122	1.15E+07	1835	0.	
14	3.75E+09	142	8.80E+06	2132	0.	FROSTPOINT
16	1.33E+09	161	4.23E+06	2429	0.	-16.3
18	1.08E+09	181	2.58E+06	2726	0.	
20	5.72E+08	201	2.12E+06	3023	0.	TAS (M/S)
22	4.57E+08	221	2.14E+06	3320	0.	121.5
24	3.33E+08	241	7.19E+05	3617	0.	
26	4.83E+08	260	5.83E+05	3914	0.	NT (N/M3)
28	2.11E+08	280	5.48E+05	4211	0.	4704680.2
30	3.93E+08	300	5.50E+05	4508	0.	
						TOTALS
LWC	8.82E-02		2.32E+00		2.13E+04	4.46E+00
MED D	18		165		404	296

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 11:05:13*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	7.93E+09	23	1.20E+08	404	2.32E+05	ALT (KM)
4	9.84E+09	43	5.10E+07	647	0.	4.852
6	1.17E+10	62	3.44E+07	944	0.	
8	8.16E+09	82	1.90E+07	1241	0.	TEMP (C)
10	6.45E+09	102	1.13E+07	1538	0.	-13.3
12	3.26E+09	122	7.15E+06	1835	0.	
14	2.73E+09	142	5.0CE+06	2132	0.	FROSTPOINT
16	1.12E+09	161	3.41E+06	2429	0.	-16.4
18	8.73E+08	181	2.18E+06	2726	0.	
20	4.36E+08	201	1.42E+06	3023	0.	TAS (M/S)
22	3.11E+08	221	1.09E+06	3320	0.	121.6
24	2.49E+08	241	5.67E+05	3617	0.	
26	3.43E+08	261	5.13E+05	3914	0.	NT (N/M**)
28	1.56E+08	280	4.63E+05	4211	0.	29834454
30	2.71E+08	301	4.63E+05	4508	0.	
						TOTALS
LWC	6.83E-02		1.67E+00		1.53E+10	3.19E+00
MED D	16		173		404	298

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 11:05:21*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.2
2	5.41E+09	23	1.35E+08	404	3.13E+05	ALT (KM)
4	9.43E+09	43	5.35E+07	647	0.	4.847
6	9.51E+09	62	4.33E+07	944	0.	
8	6.98E+09	82	2.50E+07	1241	0.	TEMP (C)
10	4.83E+09	102	1.32E+07	1538	0.	-12.9
12	2.93E+09	122	9.44E+06	1835	0.	
14	2.41E+09	142	5.73E+06	2132	0.	FROSTPOINT
16	7.52E+08	161	3.56E+06	2429	0.	-16.4
18	6.62E+08	181	3.23E+06	2726	0.	
20	3.16E+08	201	1.92E+06	3023	0.	TAS (M/S)
22	3.38E+08	221	1.57E+06	3320	0.	121.7
24	2.71E+08	241	3.53E+05	3617	0.	
26	3.61E+08	261	7.71E+05	3914	0.	NT (N/M3)
28	1.65E+08	281	6.21E+05	4211	0.	3.73092.1
30	1.95E+08	300	5.55E+05	4508	0.	
						TOTALS
LWC	6.54E-02		2.19E+00		6.34E+10	4.18E+00
MED D	17		176		404	303

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 11:05:29*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	3.39E+09	23	5.72E+07	404	1.41E+05	ALT (KM)
4	9.74E+09	43	4.41E+07	647	0.	4.850
6	9.77E+09	62	2.29E+07	944	0.	
8	6.57E+09	82	1.45E+07	1241	0.	TEMP (C)
10	4.55E+09	102	9.13E+06	1538	0.	-13.1
12	2.69E+09	122	5.34E+06	1835	0.	
14	2.19E+09	142	4.47E+06	2132	0.	FROSTPOINT
16	7.52E+08	161	2.27E+06	2429	0.	-16.4
18	5.72E+08	181	2.04E+06	2726	0.	
20	2.18E+08	201	1.57E+06	3023	0.	TAS (M/S)
22	1.36E+09	221	1.23E+06	3320	0.	121.6
24	1.58E+08	241	2.49E+05	3617	0.	
26	1.36E+08	261	2.73E+05	3914	0.	NT (N/M3)
28	8.28E+07	280	2.57E+05	4211	0.	2184439.7
30	1.50E+08	300	2.53E+05	4508	0.	
						TOTALS
LWC	4.57E-02		1.47E+00		9.28E-11	2.26E+00
MED D	15		171		404	256

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-33 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START@ 11:05:22*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MU)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	2.32E+09	23	2.11E+07	404	4.06E+05	ALT (KM)
4	1.03E+10	43	1.65E+07	647	0.	4.850
6	1.02E+10	62	5.10E+07	944	0.	
8	7.55E+09	82	1.56E+07	1241	0.	TEMP (C)
10	5.25E+09	102	2.42E+07	1538	0.	-13.0
12	2.97E+09	122	1.45E+07	1835	0.	
14	2.48E+09	142	9.91E+06	2132	0.	FROSTPOINT
16	5.13E+08	161	5.33E+06	2429	0.	-16.4
18	6.47E+09	181	4.17E+06	2726	0.	
20	3.54E+08	201	2.54E+06	3023	0.	TAS (M/S)
22	3.91E+08	221	2.19E+06	3320	0.	121.6
24	2.33E+08	241	1.89E+06	3617	0.	
26	3.31E+08	260	1.56E+06	3914	0.	NT (N/M3)
28	1.73E+08	280	3.72E+05	4211	0.	6184458.9
30	2.48E+08	300	9.71E+05	4508	0.	
						TOTALS
LWC	6.24E-02		3.32E+00		3.19E+10	6.51E+00
MED D	17		175		404	305

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:23*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	2.54E+03	23	2.18E+08	404	3.67E+05	ALT (KM)
4	9.66E+09	43	1.73E+06	647	0.	4.852
6	1.88E+10	62	5.41E+07	944	0.	
8	8.72E+09	82	3.48E+07	1241	0.	TEMP (C)
10	6.13E+09	102	2.11E+07	1538	0.	-13.2
12	3.25E+09	122	1.29E+07	1835	0.	
14	2.88E+09	142	7.65E+06	2132	0.	FROSTPOINT
16	8.38E+08	161	4.71E+06	2429	0.	-16.5
18	6.49E+08	181	3.24E+06	2726	0.	
20	3.05E+08	201	2.51E+06	3023	0.	TAS (M/S)
22	4.87E+08	221	1.31E+06	3320	0.	121.3
24	2.11E+08	241	1.71E+05	3617	0.	
26	2.87E+08	260	1.12E+06	3914	0.	NT (N/M3)
28	1.21E+08	280	7.35E+05	4211	0.	5621407.1
30	2.44E+08	300	5.56E+05	4508	0.	
						TOTALS
LWC	5.28E-02		2.19E+01		2.41E+00	5.26E+00
MED D	15		172		404	247

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:24*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	2.88E+03	23	2.02E+08	404	4.33E+05	ALT (KM)
4	1.13E+10	43	1.63E+06	647	0.	4.852
6	1.28E+10	62	5.77E+07	944	0.	
8	1.02E+10	82	3.79E+07	1241	0.	TEMP (C)
10	6.94E+09	102	1.83E+07	1538	0.	-13.3
12	3.68E+09	122	1.25E+07	1835	0.	
14	3.83E+09	142	8.10E+06	2132	0.	FROSTPOINT
16	1.22E+09	161	4.42E+06	2429	0.	-16.5
18	7.46E+08	181	3.38E+06	2726	0.	
20	3.84E+08	201	2.79E+06	3023	0.	TAS (M/S)
22	3.56E+08	221	2.25E+06	3320	0.	121.5
24	2.49E+08	241	1.13E+06	3617	0.	
26	2.11E+08	260	3.72E+05	3914	0.	NT (N/M3)
28	9.84E+07	280	9.66E+05	4211	0.	5458842.2
30	1.73E+08	300	7.70E+05	4508	0.	
						TOTALS
LWC	6.31E-02		2.92E+00		2.83E+00	5.65E+00
MED D	14		170		404	310

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.8
2	3.36E+03	23	2.16E+08	404	6.25E+05	ALT (KM)
4	9.73E+09	43	1.68E+06	647	0.	4.858
6	1.04E+10	62	5.57E+07	944	0.	
8	9.44E+09	82	3.72E+07	1241	0.	TEMP (C)
10	5.94E+09	102	2.12E+07	1538	0.	-13.3
12	3.11E+09	122	1.43E+07	1835	0.	
14	2.49E+09	142	9.62E+06	2132	0.	FROSTPOINT
16	8.35E+08	161	5.29E+06	2429	0.	-16.4
18	7.48E+08	181	3.95E+06	2726	0.	
20	2.36E+08	201	2.76E+06	3023	0.	TAS (M/S)
22	2.71E+08	221	2.22E+06	3320	0.	121.4
24	1.38E+08	241	1.36E+06	3617	0.	
26	1.88E+08	260	1.31E+06	3914	0.	NT (N/M3)
28	7.53E+07	280	1.22E+06	4211	0.	6274882.7
30	1.29E+08	300	1.12E+06	4508	0.	
						TOTALS
LWC	5.34E-02		3.32E+00		4.41E+00	7.43E+00
MED D	14		183		404	328

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:25*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	3.55E+03	23	2.13E+08	404	3.62E+05	ALT (KM)
4	1.03E+10	43	1.71E+06	647	0.	4.853
6	1.15E+10	62	5.20E+07	944	0.	
8	8.48E+09	82	3.58E+07	1241	0.	TEMP (C)
10	5.97E+09	102	2.04E+07	1538	0.	-13.3
12	2.86E+09	122	1.21E+07	1835	0.	
14	2.49E+09	142	7.79E+06	2132	0.	FROSTPOINT
16	7.60E+08	161	4.57E+06	2429	0.	-16.4
18	5.42E+08	181	3.44E+06	2726	0.	
20	3.46E+08	201	2.71E+06	3023	0.	TAS (M/S)
22	3.54E+08	221	1.63E+06	3320	0.	121.5
24	1.51E+08	241	3.84E+05	3617	0.	
26	1.66E+08	260	8.41E+05	3914	0.	NT (N/M3)
28	7.53E+07	280	7.13E+05	4211	0.	5434068.1
30	1.66E+08	300	5.43E+05	4508	0.	
						TOTALS
LWC	5.38E-02		2.58E+00		2.36E+00	4.96E+00
MED D	14		162		404	298

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:27
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	3.96E+09	23	1.39E+06	404	4.93E+05	ALT (KM)
4	5.17E+09	43	1.22E+08	647	0.	4.852
6	2.26E+09	62	6.52E+07	944	0.	
8	1.36E+09	92	3.54E+07	1241	0.	TEMP (C)
10	8.35E+08	102	2.13E+07	1538	0.	-13.3
12	3.91E+08	122	1.36E+07	1835	2.06E+01	
14	3.84E+08	142	9.22E+06	2132	0.	FROSTPOINT
16	1.73E+08	161	5.45E+06	2429	0.	-16.3
18	1.58E+08	181	3.83E+06	2726	0.	
20	1.13E+08	201	2.72E+06	3023	0.	TAS (M/S)
22	1.58E+08	221	2.21E+06	3320	0.	121.6
24	6.12E+07	241	1.78E+05	3617	0.	
26	4.51E+07	266	3.52E+05	3914	0.	NT (N/M3)
28	6.77E+07	29.	9.38E+05	4211	0.	5705125.9
30	3.01E+07	308	9.34E+05	4508	0.	
						TOTALS
LWC	1.33E-02		3.6.E+00		3.30E+10	6.30E+00
MED D	19		172		405	319

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:23
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	4.11E+09	23	5.CCE+07	404	1.46E+05	ALT (KM)
4	5.30E+09	43	4.06E+07	647	0.	4.850
6	2.59E+09	62	2.13E+07	944	0.	
8	1.17E+09	82	1.21E+07	1241	0.	TEMP (C)
10	7.06E+08	102	6.50E+06	1538	0.	-13.1
12	5.11E+08	122	4.24E+06	1835	0.	
14	5.48E+08	142	2.87E+06	2132	0.	FROSTPOINT
16	2.63E+08	161	1.57E+06	2429	0.	-16.3
18	2.18E+08	181	1.03E+06	2726	0.	
20	1.73E+08	201	1.05E+06	3023	0.	TAS (M/S)
22	1.85E+08	221	6.12E+05	3320	0.	121.8
24	1.43E+08	241	5.29E+05	3617	0.	
26	9.77E+07	26.	3.93E+05	3914	0.	NT (N/M3)
28	3.76E+07	298	2.92E+05	4211	0.	1383097.4
30	6.76E+07	308	2.61E+05	4508	0.	
						TOTALS
LWC	1.71E-02		1.CCE+00		9.63E-01	1.96E+00
MED D	20		178		404	304

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:29
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	4.07E+09	23	1.32E+06	404	2.31E+05	ALT (KM)
4	4.91E+09	43	5.47E+07	647	0.	4.853
6	2.12E+09	62	3.49E+07	944	0.	
8	9.93E+08	92	1.75E+07	1241	0.	TEMP (C)
10	6.32E+08	102	1.01E+07	1538	0.	-13.3
12	3.59E+08	122	5.50E+06	1835	0.	
14	3.16E+08	142	4.46E+06	2132	0.	FROSTPOINT
16	2.18E+08	161	2.31E+06	2429	0.	-16.3
18	2.48E+08	131	1.87E+06	2726	0.	
20	1.65E+08	201	1.08E+06	3023	0.	TAS (M/S)
22	1.56E+08	221	1.33E+06	3320	0.	121.6
24	1.28E+08	241	5.57E+05	3617	0.	
26	1.35E+08	266	3.12E+05	3914	0.	NT (N/M3)
28	7.32E+06	288	4.81E+05	4211	0.	2351565.8
30	4.51E+07	308	4.13E+05	4508	0.	
						TOTALS
LWC	1.53E-02		1.49E+00		1.52E+10	3.01E+00
MED D	28		173		404	312

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:30
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	4.16E+09	23	4.59E+07	404	1.67E+05	ALT (KM)
4	7.13E+09	43	3.45E+07	647	0.	4.850
6	3.38E+09	62	2.06E+07	944	0.	
8	1.44E+09	92	1.36E+07	1241	0.	TEMP (C)
10	9.78E+08	102	7.68E+06	1538	0.	-12.9
12	7.75E+08	122	4.74E+06	1835	0.	
14	4.67E+08	142	3.98E+06	2132	0.	FROSTPOINT
16	2.55E+08	161	2.29E+06	2429	0.	-16.3
18	1.88E+08	181	1.82E+06	2726	0.	
20	1.28E+08	201	1.39E+06	3023	0.	TAS (M/S)
22	9.33E+07	221	1.09E+06	3320	0.	121.6
24	9.43E+07	241	5.15E+05	3617	0.	
26	9.83E+07	266	4.49E+05	3914	0.	NT (N/M3)
28	6.77E+07	288	3.34E+05	4211	0.	1867935.4
30	4.52E+07	308	2.99E+05	4508	0.	
						TOTALS
LWC	1.65E-02		1.24E+00		1.10E+10	2.34E+00
MED D	18		183		404	293

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:31
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.1
2	4.21E+09	23	1.12E+08	404	3.09E+05	ALT (KM)
4	7.75E+09	43	7.41E+07	647	0.	4.849
6	5.16E+09	62	4.23E+07	944	0.	
8	3.08E+09	82	2.12E+07	1241	0.	TEMP (C)
10	1.79E+09	102	1.52E+07	1538	0.	-12.8
12	1.00E+09	122	8.72E+06	1835	0.	
14	7.76E+08	142	4.98E+06	2132	0.	FROSTPOINT
16	3.77E+08	161	2.97E+06	2429	0.	-16.3
18	2.44E+08	181	2.22E+06	2726	0.	
20	1.23E+08	201	1.46E+06	3023	0.	TAS (M/S)
22	1.20E+08	221	9.55E+05	3320	0.	121.4
24	1.21E+08	241	5.06E+05	3617	0.	
26	4.52E+07	260	5.12E+05	3914	0.	NT (N/M3)
28	4.52E+07	280	6.17E+05	4211	0.	3550912.9
30	1.51E+07	300	3.53E+05	4508	0.	
						TOTALS
LWC	1.36E-02		1.79E+00		2.03E+10	3.82E+08
MED D	14		167		404	321

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:33
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.99E+09	23	1.45E+08	404	3.45E+05	ALT (KM)
4	3.92E+09	43	1.11E+08	647	0.	4.852
6	1.39E+09	62	5.22E+07	944	1.75E+01	
8	4.44E+08	82	2.97E+07	1241	0.	TEMP (C)
10	2.63E+08	102	1.78E+07	1538	0.	-13.1
12	1.36E+08	122	1.19E+07	1835	0.	
14	1.73E+08	142	5.75E+06	2132	0.	FROSTPOINT
16	1.51E+08	161	3.39E+06	2429	0.	-16.3
18	1.43E+08	181	3.26E+06	2726	0.	
20	1.15E+08	201	2.21E+06	3023	0.	TAS (M/S)
22	9.63E+07	221	2.14E+06	3320	0.	121.5
24	2.26E+07	241	1.10E+06	3617	0.	
26	3.76E+07	260	5.71E+05	3914	0.	NT (N/M3)
28	1.51E+07	280	5.91E+05	4211	0.	4.98268.6
30	7.53E+06	300	5.18E+05	4508	0.	
						TOTALS
LWC	7.25E-03		2.47E+00		2.27E+10	4.74E+08
MED D	18		175		405	299

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:32
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.62E+09	23	1.36E+08	404	3.32E+05	ALT (KM)
4	6.86E+09	43	3.52E+07	647	0.	4.852
6	3.45E+09	62	4.45E+07	944	1.75E+01	
8	1.98E+09	82	2.55E+07	1241	0.	TEMP (C)
10	1.38E+09	102	1.75E+07	1538	0.	-13.0
12	6.84E+08	122	9.91E+06	1835	0.	
14	5.54E+08	142	3.79E+06	2132	0.	FROSTPOINT
16	3.38E+08	161	3.57E+06	2429	0.	-16.3
18	3.31E+08	181	2.41E+06	2726	0.	
20	1.85E+08	201	1.76E+06	3023	0.	TAS (M/S)
22	1.58E+08	221	1.73E+06	3320	0.	121.7
24	8.27E+07	241	1.06E+06	3617	0.	
26	9.77E+07	260	8.30E+05	3914	0.	NT (N/M3)
28	2.26E+07	280	6.63E+05	4211	0.	4264560.1
30	8.27E+07	300	5.94E+05	4508	0.	
						TOTALS
LWC	1.89E-02		2.19E+00		2.18E+10	4.38E+08
MED D	18		175		405	309

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:34
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.45E+09	23	2.12E+08	404	4.36E+05	ALT (KM)
4	3.53E+09	43	1.14E+08	647	0.	4.852
6	1.31E+09	62	5.94E+07	944	3.51E+01	
8	4.99E+08	82	3.45E+07	1241	1.46E+01	TEMP (C)
10	3.17E+08	102	2.11E+07	1538	0.	-13.1
12	2.57E+08	122	1.12E+07	1835	0.	
14	9.82E+07	142	5.13E+06	2132	2.19E+01	FROSTPOINT
16	1.13E+08	161	4.62E+06	2429	0.	-16.2
18	8.31E+07	181	3.53E+06	2726	0.	
20	7.56E+07	201	2.27E+06	3023	0.	TAS (M/S)
22	6.45E+07	221	2.05E+06	3320	0.	121.1
24	3.02E+07	241	9.68E+05	3617	0.	
26	3.78E+07	260	9.29E+05	3914	0.	NT (N/M3)
28	1.51E+07	280	8.72E+05	4211	0.	5508674.2
30	3.02E+07	300	7.81E+05	4508	0.	
						TOTALS
LWC	6.83E-03		2.76E+00		2.91E+10	5.67E+08
MED D	19		171		406	315

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:35*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.15E+09	23	2.35E+08	404	2.41E+04	ALT (KM)
4	3.33E+09	43	1.44E+08	647	1.67E+01	4.852
6	9.36E+08	82	5.32E+07	944	0.	
8	3.95E+08	82	3.72E+07	1241	0.	TEMP (C)
10	2.62E+08	102	2.29E+07	1538	0.	-13.2
12	1.66E+08	122	1.43E+07	1835	0.	
14	1.66E+08	142	1.01E+06	2132	0.	FROSTPOINT
16	6.98E+07	161	4.72E+06	2429	0.	-16.2
18	1.51E+08	181	3.39E+06	2726	0.	
20	6.80E+07	201	2.52E+06	3023	0.	TAS (M/S)
22	4.53E+07	221	2.33E+06	3320	0.	121.2
24	6.04E+07	241	1.40E+06	3617	0.	
25	1.51E+07	260	1.16E+06	3914	0.	NT (N/M3)
28	0.	281	3.55E+05	4211	0.	6137638.2
30	1.51E+07	301	3.36E+05	4508	0.	
						TOTALS
LWC	5.01E-03		3.16E-01		1.59E-01	3.22E+00
MED D	18		171		405	177

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:37*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	5.16E+09	23	2.11E+08	404	4.89E+05	ALT (KM)
4	4.36E+09	43	1.28E+08	647	0.	4.852
6	1.24E+09	82	6.22E+07	944	1.74E+01	
8	3.47E+08	82	3.19E+07	1241	0.	TEMP (C)
10	1.27E+08	102	2.17E+07	1538	0.	-13.3
12	6.74E+07	122	1.34E+07	1835	0.	
14	7.43E+07	142	7.73E+06	2132	0.	FROSTPOINT
15	1.35E+08	161	4.81E+06	2429	0.	-16.8
18	5.24E+07	181	3.50E+06	2726	0.	
20	5.99E+07	201	2.34E+06	3023	0.	TAS (M/S)
22	5.99E+07	221	2.24E+06	3320	0.	122.2
24	4.49E+07	241	1.49E+06	3617	0.	
25	3.80E+07	260	1.08E+06	3914	0.	NT (N/M3)
28	7.49E+06	280	3.15E+05	4211	0.	5656887.4
30	7.49E+06	301	7.35E+05	4508	0.	
						TOTALS
LWC	4.99E-03		2.92E+00		2.68E+10	5.58E+00
MED D	20		173		405	180

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:36*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	4.33E+09	23	2.54E+08	404	4.35E+05	ALT (KM)
4	3.34E+09	43	1.39E+08	647	0.	4.852
6	1.88E+09	82	7.66E+07	944	0.	
8	3.61E+08	82	3.52E+07	1241	0.	TEMP (C)
10	1.66E+08	102	2.40E+07	1538	0.	-13.2
12	1.43E+08	122	1.33E+07	1835	0.	
14	1.66E+08	142	9.76E+06	2132	0.	FROSTPOINT
16	9.78E+07	161	3.94E+06	2429	0.	-16.1
18	3.76E+07	181	3.94E+06	2726	0.	
20	3.71E+07	201	2.57E+06	3023	0.	TAS (M/S)
22	7.52E+07	221	2.25E+06	3320	0.	121.6
24	3.01E+07	241	9.46E+05	3617	0.	
26	4.51E+07	260	9.17E+05	3914	0.	NT (N/M3)
28	7.52E+06	280	3.59E+05	4211	0.	6324643.1
30	0.	300	7.78E+05	4508	0.	
						TOTALS
LWC	5.00E-03		2.97E+00		2.86E+10	5.83E+00
MED D	19		166		404	305

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:38*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	6.34E+09	23	1.26E+08	404	2.83E+04	ALT (KM)
4	6.14E+09	43	9.44E+07	647	4.97E+01	4.853
6	2.04E+09	82	4.39E+07	944	5.22E+01	
8	8.01E+08	82	2.41E+07	1241	0.	TEMP (C)
10	4.04E+08	102	1.48E+07	1538	1.93E+01	-13.3
12	2.42E+08	122	1.02E+07	1835	0.	
14	2.11E+08	142	5.57E+06	2132	4.35E+01	FROSTPOINT
16	7.48E+07	161	3.27E+06	2429	2.32E+01	-15.9
18	1.12E+08	181	2.74E+06	2726	0.	
20	6.74E+07	201	1.53E+06	3023	2.67E+01	TAS (M/S)
22	5.24E+07	221	1.56E+06	3320	2.98E+01	122.3
24	7.48E+07	241	1.12E+06	3617	0.	
26	3.74E+07	260	5.73E+05	3914	0.	NT (N/M3)
28	7.48E+06	280	4.54E+05	4211	0.	3797264.4
30	2.25E+07	300	2.78E+05	4508	0.	
						TOTALS
LWC	7.83E-03		1.98E+00		5.55E-01	2.54E+00
MED D	18		166		2802	201

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:33*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	6.85E+09	23	7.64E+07	404	2.39E+05	ALT (KM)
4	6.26E+09	43	4.72E+07	647	0.	4.852
6	2.21E+09	62	2.51E+07	944	0.	
8	7.63E+08	82	1.47E+07	1241	0.	TEMP (C)
10	3.44E+08	102	9.01E+06	1538	0.	-13.3
12	1.87E+08	122	5.71E+06	1835	0.	
14	1.42E+08	142	3.13E+06	2132	0.	FROSTPOINT
16	1.57E+08	161	2.11E+06	2429	0.	-15.9
18	6.73E+07	181	2.09E+06	2726	0.	
20	2.39E+07	201	1.38E+06	3023	0.	TAS (M/S)
22	5.23E+07	221	9.13E+05	3320	0.	122.4
24	3.74E+07	241	5.54E+05	3617	0.	
26	4.49E+07	26.	5.19E+05	3914	0.	NT (N/M3)
28	1.50E+07	280	4.77E+05	4211	0.	2287913.5
30	7.48E+06	300	4.27E+05	4508	0.	
						TOTALS
LWC	6.58E-03		1.35E+00		1.57E+00	2.92E+00
MED D	16		184		404	323

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:41*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.9
2	8.96E+09	23	5.27E+07	404	1.54E+04	ALT (KM)
4	6.63E+09	43	3.47E+07	647	9.88E+01	4.852
6	1.45E+09	62	1.57E+07	944	5.19E+01	
8	2.46E+08	82	1.10E+07	1241	1.82E+01	TEMP (C)
10	1.04E+08	102	8.60E+06	1538	1.92E+01	-12.9
12	5.95E+07	122	4.59E+06	1835	6.11E+01	
14	6.78E+07	142	2.96E+06	2132	0.	FROSTPOINT
16	3.72E+07	161	1.44E+06	2429	0.	-15.7
18	1.49E+07	181	1.38E+06	2726	2.47E+01	
20	7.44E+06	201	1.14E+06	3023	2.66E+01	TAS (M/S)
22	1.49E+07	221	4.71E+05	3320	0.	122.9
24	2.23E+07	241	2.25E+05	3617	3.14E+01	
26	7.44E+06	260	2.14E+05	3914	0.	NT (N/M3)
28	7.44E+06	280	2.03E+05	4211	0.	1649338.4
30	0.	300	1.35E+05	4508	0.	
						TOTALS
LWC	2.75E-03		9.63E-01		6.11E-01	1.47E+00
MED D	12		158		2979	249

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:48*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	7.44E+09	23	4.57E+07	404	1.13E+04	ALT (KM)
4	6.13E+09	43	3.87E+07	647	3.33E+01	4.858
6	1.44E+09	62	1.57E+07	944	1.39E+02	
8	5.14E+08	82	1.27E+07	1241	0.	TEMP (C)
10	2.39E+08	102	5.85E+06	1538	9.62E+11	-13.1
12	8.94E+07	122	3.71E+06	1835	4.87E+01	
14	1.04E+08	142	3.16E+06	2132	2.16E+01	FROSTPOINT
16	5.36E+07	161	1.61E+06	2429	2.31E+01	-15.8
18	3.73E+07	181	1.32E+06	2726	2.47E+01	
20	9.98E+07	201	9.81E+05	3023	2.66E+01	TAS (M/S)
22	2.24E+07	221	5.77E+05	3320	0.	122.8
24	2.24E+07	241	2.25E+05	3617	0.	
26	7.45E+06	260	2.31E+05	3914	0.	NT (N/M3)
28	0.	280	2.39E+05	4211	0.	1781375.8
30	0.	300	1.48E+05	4508	0.	
						TOTALS
LWC	3.79E-03		9.24E-01		4.68E-01	1.39E+00
MED D	14		164		2338	228

SAMPLE# XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START#01:05:42*
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE# RAIN

PRESSURE# 10 PSI H2O FLOW RATE# 54 GPM DISTANCE# 200 FT CAL FACTOR# 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 551.0
2	6.37E+09	23	1.15E+08	404	3.18E+04	ALT (KM)
4	2.04E+09	43	5.86E+07	647	9.87E+01	4.858
6	2.16E+08	62	3.82E+07	944	1.21E+02	
8	3.72E+07	82	1.85E+07	1241	9.13E+01	TEMP (C)
10	2.23E+07	102	1.14E+07	1538	1.92E+01	-12.7
12	2.23E+07	122	7.40E+06	1835	2.03E+01	
14	2.98E+07	142	4.73E+06	2132	0.	FROSTPOINT
16	7.44E+06	161	2.54E+06	2429	0.	-15.7
18	2.23E+07	181	2.12E+06	2726	4.94E+01	
20	7.44E+06	201	1.13E+06	3023	2.65E+01	TAS (M/S)
22	1.49E+07	221	1.25E+06	3320	2.88E+01	123.0
24	7.44E+06	241	5.61E+05	3617	0.	
26	7.44E+06	260	5.71E+05	3914	0.	NT (N/M3)
28	0.	280	5.82E+05	4211	0.	2917833.6
30	7.44E+06	300	3.65E+05	4508	0.	
						TOTALS
LWC	1.35E-03		1.57E+00		7.15E-01	2.29E+00
MED D	19		172		2724	231

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	1.34E+09	23	1.72E+06	484	1.67E+04	ALT (KM)
4	3.36E+08	43	1.26E+05	647	1.65E+01	4.853
6	1.84E+08	62	3.34E+07	944	0.	
8	3.73E+07	82	2.82E+07	1241	1.82E+01	TEMP (C)
10	1.49E+07	102	1.61E+07	1538	1.92E+01	-12.8
12	3.73E+07	122	1.00E+07	1835	8.15E+01	
14	1.49E+07	142	6.73E+06	2132	0.	FROSTPOINT
16	0.	161	3.36E+06	2429	2.31E+01	-15.7
18	0.	181	2.30E+06	2726	7.42E+01	
20	7.46E+06	201	2.24E+06	3023	0.	TAS (M/S)
22	2.98E+07	221	1.96E+06	3320	0.	122.7
24	0.	241	5.03E+05	3617	0.	
26	0.	260	5.77E+05	3914	3.46E+01	NT (N/M3)
28	0.	280	5.54E+05	4211	0.	4516208.6
30	0.	300	3.17E+05	4508	0.	
						TOTALS
LWC	6.34E-06		2.14E+00		9.14E-01	2.95E+00
MED D	21		162		2769	208

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	1.34E+08	23	1.33E+08	484	2.37E+04	ALT (KM)
4	2.24E+07	43	1.27E+08	647	1.65E+01	4.856
6	0.	62	5.76E+07	944	3.46E+01	
8	0.	82	3.69E+07	1241	1.82E+01	TEMP (C)
10	0.	102	2.09E+07	1538	3.85E+01	-13.0
12	0.	122	1.33E+07	1835	2.84E+01	
14	0.	142	9.52E+06	2132	4.33E+01	FROSTPOINT
16	0.	161	4.63E+06	2429	2.31E+01	-15.4
18	0.	181	3.69E+06	2726	0.	
20	0.	201	1.84E+06	3023	0.	TAS (M/S)
22	0.	221	2.25E+06	3320	0.	122.7
24	0.	241	1.16E+06	3617	0.	
26	0.	260	1.05E+06	3914	0.	NT (N/M3)
28	0.	280	9.44E+05	4211	0.	5741326.5
30	0.	300	5.24E+05	4508	0.	
						TOTALS
LWC	4.34E-06		2.83E+00		3.25E-01	3.15E+00
MED D	3		166		1171	181

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:44
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	5.59E+08	23	2.52E+06	484	4.52E+04	ALT (KM)
4	1.84E+08	43	1.73E+08	647	5.25E+01	4.853
6	2.98E+07	62	6.65E+07	944	8.66E+01	
8	3.73E+07	82	3.91E+07	1241	0.	TEMP (C)
10	7.46E+06	102	2.46E+07	1538	1.15E+02	-12.9
12	0.	122	1.33E+07	1835	4.08E+01	
14	0.	142	1.12E+07	2132	0.	FROSTPOINT
16	0.	161	4.84E+06	2429	2.31E+01	-15.7
18	0.	181	4.58E+06	2726	0.	
20	0.	201	2.73E+06	3023	2.67E+01	TAS (M/S)
22	0.	221	2.63E+06	3320	0.	122.7
24	0.	241	1.15E+06	3617	0.	
26	0.	260	1.14E+06	3914	3.46E+01	NT (N/M3)
28	0.	280	1.13E+06	4211	0.	6169313.6
30	0.	300	5.75E+05	4508	0.	
						TOTALS
LWC	5.42E-06		3.75E+00		9.06E-01	4.16E+00
MED D	7		173		2491	207

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:45
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.5
2	3.73E+07	23	1.33E+08	484	3.82E+04	ALT (KM)
4	7.46E+06	43	1.05E+08	647	3.30E+01	4.856
6	0.	62	6.27E+07	944	1.56E+02	
8	0.	82	3.09E+07	1241	0.	TEMP (C)
10	0.	102	1.82E+07	1538	5.78E+01	-12.8
12	0.	122	1.27E+07	1835	4.08E+01	
14	0.	142	8.75E+06	2132	0.	FROSTPOINT
16	0.	161	4.27E+06	2429	6.94E+01	-15.8
18	0.	181	3.15E+06	2726	9.91E+01	
20	0.	201	2.03E+06	3023	0.	TAS (M/S)
22	0.	221	1.89E+06	3320	0.	122.6
24	0.	241	7.88E+05	3617	0.	
26	0.	260	9.74E+05	3914	3.47E+01	NT (N/M3)
28	0.	280	9.78E+05	4211	3.85E+01	4975909.2
30	0.	300	5.58E+05	4508	0.	
						TOTALS
LWC	1.12E-06		2.57E+00		1.53E+00	4.10E+00
MED D	3		166		3771	253

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:47
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	8.36E+07	23	1.65E+08	404	3.37E+04	ALT (KM)
4	7.46E+06	43	1.12E+08	647	6.61E+01	4.854
6	7.46E+06	62	5.88E+07	944	1.21E+02	
8	0.	82	2.89E+07	1241	5.48E+01	TEMP (C)
10	0.	102	1.99E+07	1538	3.85E+01	-12.6
12	0.	122	1.27E+07	1835	4.08E+01	
14	0.	142	7.38E+06	2132	0.	FROSTPOINT
16	0.	161	3.86E+06	2429	2.31E+01	-15.8
18	0.	181	2.91E+06	2726	2.48E+01	
20	0.	201	1.95E+06	3023	0.	TAS (M/S)
22	0.	221	1.35E+06	3320	0.	122.6
24	0.	241	1.28E+06	3617	0.	
26	0.	260	1.12E+06	3914	0.	NT (N/M3)
28	0.	280	9.79E+05	4211	0.	5053562.7
30	0.	301	4.87E+05	4508	0.	
						TOTALS
LWC	3.75E-05		2.48E+00		4.47E-01	2.92E+00
MED D	5		166		796	191

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:48
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.4
2	1.34E+08	23	1.65E+08	404	3.47E+04	ALT (KM)
4	1.49E+07	43	3.51E+07	647	1.32E+02	4.857
6	0.	62	4.68E+07	944	1.39E+02	
8	0.	82	2.44E+07	1241	3.65E+01	TEMP (C)
10	0.	102	1.43E+07	1538	5.78E+01	-12.6
12	0.	122	9.91E+06	1835	2.04E+01	
14	0.	142	5.68E+06	2132	0.	FROSTPOINT
16	0.	161	3.37E+06	2429	2.31E+01	-15.8
18	0.	181	2.81E+06	2726	0.	
20	0.	201	2.82E+06	3023	1.07E+02	TAS (M/S)
22	0.	221	1.15E+06	3320	0.	122.7
24	0.	241	1.11E+06	3617	0.	
26	0.	260	7.78E+05	3914	3.47E+01	NT (N/M3)
28	0.	280	5.37E+05	4211	3.85E+01	4119339.3
30	0.	300	3.88E+05	4508	0.	
						TOTALS
LWC	2.53E-06		2.05E+00		1.63E+00	3.64E+00
MED D	3		168		3154	273

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:49
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.6
2	2.24E+08	23	1.30E+08	404	7.83E+04	ALT (KM)
4	2.24E+07	43	9.52E+07	647	6.63E+01	4.854
6	0.	62	4.20E+07	944	1.21E+02	
8	0.	82	2.25E+07	1241	7.29E+01	TEMP (C)
10	0.	102	1.53E+07	1538	3.85E+01	-12.7
12	0.	122	9.26E+06	1835	0.	
14	0.	142	5.56E+06	2132	4.33E+01	FROSTPOINT
16	0.	161	3.64E+06	2429	0.	-15.8
18	0.	181	2.38E+06	2726	2.47E+01	
20	0.	201	1.83E+06	3023	0.	TAS (M/S)
22	0.	221	1.52E+06	3320	0.	122.7
24	0.	241	7.87E+05	3617	3.15E+01	
26	0.	260	7.37E+05	3914	0.	NT (N/M3)
28	0.	280	6.90E+05	4211	0.	3797541.3
30	0.	300	4.19E+05	4508	0.	
						TOTALS
LWC	4.84E-06		2.04E+00		6.77E-01	2.67E+00
MED D	2		175		2243	211

SAMPLE: XTRA2 AFFTC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:50
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 550.7
2	3.74E+08	23	1.49E+08	404	3.29E+04	ALT (KM)
4	5.98E+07	43	8.44E+07	647	4.96E+01	4.853
6	0.	62	5.14E+07	944	1.22E+02	
8	0.	82	2.97E+07	1241	3.66E+01	TEMP (C)
10	0.	102	1.71E+07	1538	1.93E+01	-12.8
12	0.	122	1.13E+07	1835	2.04E+01	
14	0.	142	7.38E+06	2132	6.69E+01	FROSTPOINT
16	0.	161	4.07E+06	2429	2.32E+01	-15.8
18	0.	181	3.24E+06	2726	0.	
20	0.	201	1.97E+06	3023	0.	TAS (M/S)
22	0.	221	1.62E+06	3320	0.	122.4
24	0.	241	1.32E+06	3617	3.16E+01	
26	0.	260	1.08E+06	3914	0.	NT (N/M3)
28	0.	280	8.83E+05	4211	3.86E+01	4202564.1
30	0.	300	5.22E+05	4508	0.	
						TOTALS
LWC	9.97E-06		2.51E+00		1.14E+00	3.66E+00
MED D	3		175		3613	237

SAMPLE: XTRA2 AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:58
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.9
2	4.72E+08	23	1.80E+06	404	3.58E+04	ALT (KM)
4	5.24E+07	43	1.16E+08	647	4.97E+01	4.852
6	2.25E+07	62	5.41E+07	944	8.69E+01	
8	0.	82	3.25E+07	1241	3.66E+01	TEMP (C)
10	7.49E+06	102	2.04E+07	1538	0.	-12.9
12	0.	122	1.12E+07	1835	4.09E+01	
14	0.	142	9.34E+06	2132	0.	FROSTPOINT
16	0.	161	4.13E+06	2429	0.	-15.8
18	0.	181	3.97E+06	2726	0.	
20	0.	201	2.63E+06	3023	2.63E+01	TAS (M/S)
22	0.	221	2.13E+06	3320	0.	122.2
24	7.49E+06	241	1.17E+06	3617	0.	
26	0.	261	1.09E+06	3914	0.	NT (N/M3)
28	0.	281	1.03E+06	4211	0.	5142875.8
30	0.	301	5.71E+05	4508	0.	
						TOTALS
LWC	1.34E-04		2.81E+06		4.15E-01	3.22E+08
MED D	23		178		476	195

SAMPLE: XTRA2 AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:58
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 950.6
2	1.28E+08	23	1.62E+08	404	4.69E+05	ALT (KM)
4	5.25E+07	43	1.17E+08	647	0.	4.854
6	1.58E+07	62	5.50E+07	944	5.23E+01	
8	..	82	3.54E+07	1241	1.63E+01	TEMP (C)
10	0.	102	2.02E+07	1538	0.	-13.8
12	..	122	1.15E+07	1835	2.89E+01	
14	0.	142	9.97E+06	2132	0.	FROSTPOINT
16	0.	161	4.49E+06	2429	2.32E+01	-15.9
18	0.	181	3.82E+06	2726	0.	
20	0.	201	1.91E+06	3023	0.	TAS (M/S)
22	0.	221	2.84E+06	3320	0.	122.8
24	0.	241	7.54E+05	3617	0.	
26	0.	261	8.42E+05	3914	0.	NT (N/M3)
28	0.	281	9.39E+05	4211	3.87E+01	5191238.1
30	0.	301	8.41E+05	4508	0.	
						TOTALS
LWC	9.97E-05		2.69E+06		3.62E+08	6.31E+08
MED D	4		172		421	339

SAMPLE: XTRA2 AFFIC ICING SPRAY TEST BY AFGL
FLIGHT E79-03 ON 21 JAN 79 1 SECOND AVERAGING
INTERVAL START: 01:05:52
PARTICLE SIZE DISTRIBUTIONS (NUMBER/M**3-MM)
TYPE: RAIN

PRESSURE: 10 PSI H2O FLOW RATE: 54 GPM DISTANCE: 200 FT CAL FACTOR: 23.5

SIZE (MU)	SCATTER PROBE	SIZE (MU)	CLOUD PROBE	SIZE (MU)	PRECIP PROBE	P (MB) 951.8
2	3.87E+08	23	2.98E+06	404	3.83E+04	ALT (KM)
4	5.23E+07	43	1.33E+08	647	4.96E+01	4.850
6	7.58E+06	62	7.13E+07	944	1.22E+02	
8	0.	82	4.16E+07	1241	5.58E+01	TEMP (C)
10	0.	102	2.52E+07	1538	3.87E+01	-13.8
12	0.	122	1.58E+07	1835	4.13E+01	
14	0.	142	1..8E+07	2132	2.18E+01	FROSTPOINT
16	0.	161	4.79E+06	2429	2.32E+01	-15.9
18	0.	181	3.82E+06	2726	0.	
20	0.	201	2.19E+06	[illegible]	2.68E+01	TAS (M/S)
22	0.	221	2.04E+06	[illegible]	0.	122.8
24	0.	241	1..2E+06	3617	0.	
26	0.	261	9.13E+05	3914	0.	NT (N/M3)
28	0.	281	8.23E+05	4211	3.87E+01	5185268.3
30	0.	301	4.66E+05	4508	0.	
						[illegible]
LWC	1.84E-05		2.94E+06		9.49E-01	[illegible]
MED D	3		198		[illegible]	[illegible]