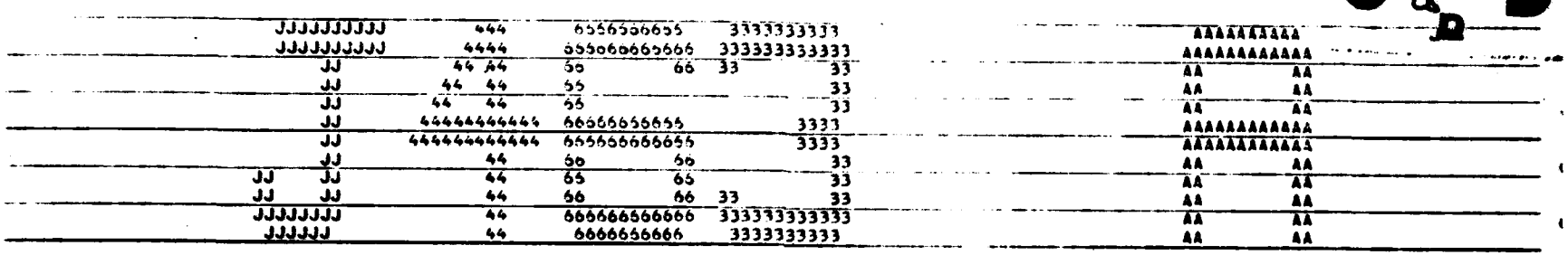
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*A START JOB  463 ADDKLKL  2      001 001 ETAC     K.LYNN          ROOM    1.59.44 PM 23 FEB 89 PRT1    IP01 START A*
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USAFETAC/DS-88/205

SURFACE OBSERVATION CLIMATIC SUMMARIES

FOR

MALMSTROM AFB MT

PREPARED BY

OL-A, USAFETAC
ASHEVILLE, NORTH CAROLINA
28801-2723

FEBRUARY 1989

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REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-88/205, SURFACE OBSERVATION CLIMATIC SUMMARIES FOR MALMSTROM AFB MT, FEBRUARY 1989, HAS BEEN REVIEWED AND IS APPROVED FOR PUBLIC RELEASE. THERE IS NO OBJECTION TO UNLIMITED DISTRIBUTION OF THIS DOCUMENT TO THE PUBLIC AT LARGE, OR BY THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC) TO THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS).

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FOR THE COMMANDER

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SCIENTIFIC AND TECHNICAL INFORMATION
PROGRAM MANAGER

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17. COSATI CODES: FIELD--04, GROUP--02

18. SUBJECT TERMS: *CLIMATOLOGY, METEOROLOGICAL DATA, ATMOSPHERIC PHENOMENA, WEATHER, CEILING, CLOUD COVER, SNOW DEPTH, HUMIDITY, PRESSURE, PRECIPITATION, SNOW, TEMPERATURE, VISIBILITY, WIND, SOCS, *MALMSTROM AFB MONTANA.

19. ABSTRACT: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) PROVIDE STATISTICAL CLIMATIC SUMMARIES OF SURFACE WEATHER OBSERVATIONS TAKEN AND RECORDED AT SPECIFIED USAF, CIVILIAN, AND FOREIGN OBSERVING STATIONS. HOURLY OBSERVATIONS ARE SUMMARIZED FROM A 10-YEAR PERIOD OF RECORD (POR). "SUMMARY OF DAY" (SOD) INFORMATION IS SUMMARIZED FROM ALL AVAILABLE DATA IN THE OL-A CLIMATIC DATABASE.

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PREFACE

EFFECTIVE 1 JULY 1988, THE SURFACE OBSERVATION CLIMATIC SUMMARY (SOCS) REPLACED TWO OTHER USAFETAC PRODUCTS OF LONG STANDING: THE RUSSWO (REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS) AND LISOCS (LIMITED SURFACE OBSERVATION CLIMATIC SUMMARY). RUSSWOS AND LISOCS NOW IN EXISTENCE WILL CONTINUE TO BE USED UNTIL THEY ARE EVENTUALLY REPLACED BY SOCS.

THIS PRODUCT HAS BEEN ISSUED IN OTHER FORMS UNDER SEVERAL OTHER NAMES. IT WAS INTRODUCED IN THE EARLY 1940'S AS THE "SFCSUM," OR "SURFACE SUMMARY." THE ORIGINAL "USSWO," OR "UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS," DEBUTED IN 1946. THE USSWO GRADUALLY EVOLVED INTO THE "RUSSWO" AND THE "LISOCS." IT FINALLY BECAME THE NEW "SURFACE OBSERVATION CLIMATIC SUMMARY" OR "SOCS" IN JULY 1988.

THE SOCS (LIKE ITS PREDECESSORS) IS PREPARED BY USAFETAC'S OPERATING LOCATION A AT ASHEVILLE, NC 28801-2723. HERE, CLIMATOLOGISTS USE STATE-OF-THE-ART COMPUTER TECHNOLOGY TO SUMMARIZE WEATHER OBSERVATIONS COLLECTED FROM SELECTED MILITARY, CIVILIAN, AND FOREIGN REPORTING STATIONS. SUMMARIES ARE PREPARED FROM DATA THAT HAS BEEN COLLECTED, QUALITY-CONTROLLED, AND STORED IN OL-A'S WORLDWIDE SURFACE WEATHER OBSERVATION DATABASE.

ALTHOUGH PREVIOUS VERSIONS OF THIS PRODUCT ONLY OFFERED SIX PARTS, SOCS PROVIDES EIGHT (A-H). THE ADDITIONS ARE THE CROSSWIND AND HEATING-COOLING DEGREE DAY SUMMARIES. PRECEDING EACH PART IS A BRIEF DISCUSSION OF THAT PARTICULAR PART, A DESCRIPTION OF THE DATA, AND AN EXPLANATION OF HOW THE DATA IS PRESENTED.

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INTRODUCTION

STATION PERIOD OF RECORD.

HOURLY OBSERVATIONS: JUNE 78 THROUGH MAY 88 (AIRWAYS).

SUMMARY OF DAY DATA: DECEMBER 42 THROUGH MAY 88 (FULL TIME).

HOURS SUMMARIZED: 0000 LST THROUGH 2300 LST.

DATA SOURCES. THESE SUMMARIES ARE COMPILED FROM "HOURLY OBSERVATIONS" AND/OR SUMMARY OF DAY DATA," DEPENDING ON THE PHENOMENA OR OCCURRENCE BEING SUMMARIZED. THE TWO SOURCES ARE DEFINED IN "TERMS EXPLAINED."

TERMS EXPLAINED:

BIVARIATE DISTRIBUTION: A BIVARIATE DISTRIBUTION GIVES THE JOINT DISTRIBUTIONS OF TWO RELATED VARIABLES. AN EXAMPLE IS THE BIVARIATE DISTRIBUTION OF CEILING AND VISIBILITIES IN PART D. EACH ROW AND EACH COLUMN OF A BIVARIATE DISTRIBUTION IS A FREQUENCY DISTRIBUTION. JOINT FREQUENCIES ARE FOUND AT THE ROW-COLUMN INTERSECTIONS.

HOURLY OBSERVATIONS: ALL RECORD OR RECORD-SPECIAL OBSERVATIONS ON AWS FORMS 10/10A (OR EQUIVALENT) AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY (SOD) DATA: DATA COMPILED FROM ALL AVAILABLE OBSERVATIONAL SOURCES, INCLUDING HOURLY OBSERVATIONS, SPECIAL OBSERVATIONS, REMARKS, AND ACTUAL "SUMMARY OF DAY" DATA RECORDED IN COLUMNS 44 -73 OF AWS FORMS 10/10A (OR EQUIVALENT) FOR ANY GIVEN DAY.

MEAN: THE SUM OF ALL THE VALUES DIVIDED BY THE NUMBER OF VALUES.

MEASURABLE AMOUNT: ANY PRECIPITATION OR SNOWFALL AMOUNT GREATER THAN A TRACE.

MEDIAN: THE MIDDLE VALUE WHEN THE VALUES ARE IN ASCENDING ORDER. IF THE NUMBER OF VALUES IS EVEN, THE MEDIAN IS HALFWAY BETWEEN THE TWO MIDDLE VALUES.

PERCENT OCCURRENCE FREQUENCY (POF): IN STATISTICS, FREQUENCY IS THE NUMBER OF TIMES A GIVEN COUNT OR EVENT OCCURS. IN THE SOCS, THIS IS EXPRESSED AS THE PERCENT OCCURRENCE FREQUENCY (POF), WHERE THE FREQUENCY (NUMBER OF OCCURRENCES) IS GIVEN AS A PERCENT OF ALL POSSIBLE OCCURRENCES IN THE SAMPLE (PERIOD SUMMARIZED). FOR EXAMPLE, IF SNOW FELL ON 5 OUT OF 100 DAYS WE COULD EXPRESS THE "PERCENT OCCURRENCE FREQUENCY" OF SNOW AS 5 PERCENT OVER THE 100-DAY PERIOD. MAY BE USED INTERCHANGEABLY WITH "PERCENT FREQUENCY OF OCCURRENCE."

PERIOD OF RECORD: THE SIZE OF THE OBSERVATIONAL DATA SAMPLE, IN YEARS.

PRECIPITATION: A TERM THAT INCLUDES BOTH LIQUID PRECIPITATION AND WATER EQUIVALENT.

STANDARD DEVIATION: A MEASURE OF DISPERSION ON THE VARIABILITY OF THE QUANTITY CONCERNED ABOUT ITS ARITHMETIC MEAN. THE LARGER THE STANDARD DEVIATION, THE GREATER THE VARIABILITY.

TIME CONVENTIONS: ALL TIMES IN THE SOCS ARE EXPRESSED IN LOCAL STANDARD TIME (LST). USERS SHOULD MAKE ADJUSTMENTS FOR DAYLIGHT SAVING TIMES IN THEIR AREAS. IN SUMMARIES THAT SHOW DIURNAL VARIATIONS, THE DATA IS SUMMARIZED USING THE FOLLOWING STANDARD 3-HOUR PERIODS (ALL LST):

0000-0200	1200-1400
0300-0500	1500-1700
0600-0800	1800-2000
0900-1100	2100-2300

ABBREVIATIONS USED:

AMT	AMOUNT	LT	LESS THAN
ANN	ANNUAL	M	METER
BARO	BAROMETER	MB	MILLIBAR
C	CENTIGRADE (CELSIUS)	MPS	METERS PER SECOND
DEG	DEGREE	MSL	MEAN SEA LEVEL
DB	DRY BULB TEMPERATURE	MEAS	MEASURABLE
DP	DEW POINT TEMPERATURE	NO.	NUMBER
EQ	EQUAL	OBS	OBSERVATION
F	FAHRENHEIT	OBST	OBSTRUCTION
FRZG	FREEZING	POF	PERCENT OCCURRENCE FREQUENCY
FT	FEET	PRECIP	PRECIPITATION
GE	GREATER THAN OR EQUAL TO	SD	STANDARD DEVIATION
GMT	GREENWICH MEAN TIME	SOD	SUMMARY OF DAY
GT	GREATER THAN	TEMP	TEMPERATURE
HG	INCHES OF MERCURY	TSTM	THUNDERSTORM
HT	HEIGHT	VSBY	VISIBILITY
KTS	KNOTS	VSN	VISION
LE	LESS THAN OR EQUAL TO	WB	WET BULB TEMPERATURE
LST	LOCAL STANDARD TIME	WBAN	AWS FORM 10/10A
		UTC	*COORDINATED UNIVERSAL TIME

SUMMARY DESCRIPTION: A BRIEF DESCRIPTION OF THE DATA PRECEDES EACH PART IN THE SOCS.

* UTC REPLACED GMT ON 1 AUGUST 1988

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FLD ELEV (FT)	CALL SIGN	WMO NMBR
727755	MALMSTROM AFB/GREAT FALLS, MT	N 47 30	W 111 11	3525	GFA	

STATION LOCATION AND INSTRUMENTATION HISTORY

NMBR OF LOC	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION FROM	AT THIS LOCATION TO	LATITUDE	LONGITUDE	ELEV ABOVE MSL FLD (FT)	ELEV ABOVE MSL BARO (FT)	OBS PER DAY
1	GORE FIELD, GREAT FALLS, MT	AAF	DEC 42	JAN 44	N 47 30	W 111 10	3456	3687	24
2	SAME	SAME	FEB 44	NOV 44	SAME	SAME	3438	3430	24
3	SAME	SAME	DEC 44	NOV 45	N 47 31	SAME	3442	3447	24
4	GREAT FALLS AAB, MT	SAME	DEC 45	FEB 46	SAME	W 111 11	3456	3460	24
5	SAME	SAME	MAR 46	MAY 49	SAME	SAME	SAME	3447	24
6	GREAT FALLS AFB, MT	AFB	JUN 49	SEP 49	SAME	SAME	SAME	3444	24
7	SAME	SAME	OCT 49	MAY 53	SAME	SAME	SAME	3447	24
8	SAME	SAME	JUN 53	JAN 54	SAME	W 111 10	3524	SAME	24
9	SAME	SAME	FEB 54	FEB 57	SAME	SAME	SAME	3465	24
10	MALMSTROM AFB, MT	SAME	MAR 57	MAR 65	SAME	SAME	SAME	SAME	24
11	SAME	SAME	APR 65	NOV 82	SAME	W111 11	3526	SAME	24
12	SAME	SAME	DEC 82	DEC 83	N 47 30	SAME	SAME	SAME	24
13	SAME	SAME	JAN 84	JAN 87	SAME	SAME	3525	3468	24

NMBR OF LOC	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
1	DEC 42	UNKNOWN				
2	JUN 53	ATOP HANGAR	AN/GMQ-1	ML-144C	57 FT	
3	FEB 54	ATOP CONTROL TOWER	SAME	SAME	112 FT	
4	MAR 56	SAME	SAME	NONE	107 FT	
5	APR 58	760° FROM CTRLINE	GMQ-11	RD-2/GMQ	15 FT	
6	APR 68	1. 500° NW OF RNWY,250° SW OF TAXIWAY S	SAME	SAME	SAME	
		2. 1000° SW OF RNWY 20, 500° SE OF CTR LINE	SAME	SAME	SAME	
7	NOV 77	1. SAME	SAME	SAME	13 FT	
		2. SAME	SAME	SAME	SAME	
8	OCT 82	1. SAME	AN/GMQ-20	RD-362	13 FT	
		2. SAME				
9	JAN 88	1. SAME	SAME	SAME	SAME	
		2. SAME				

PPPPPPPP AAAAAA RRRRRRRR TTTTTTTTTT AAAAAA
PPPPPPPPP AAAAAAAA RRRRRRRRR TTTTTTTTTT AAAAAAAA
PP PP AA AA RR RR TT AA AA
PP PP AA AA RR RR TT AA AA
PPPPPPPPP AA AA RRRRRRRRR TT AA AA
PPPPPPPP AAAAAAAAAA RRRRRRRR TT AAAAAAAAAA
PP AAAAAAAAAA RR RR TT AAAAAAAAAA
PP AA AA RR RR TT AA AA
PP AA AA RR RR TT AA AA
PP AA AA RR RR TT AA AA

PART A

ATMOSPHERIC PHENOMENA SUMMARIES

THIS PART SUMMARIZES SPECIFIED ATMOSPHERIC PHENOMENA IN CATEGORIES AS FOLLOWS:

THUNDERSTORMS: ALL REPORTED OCCURRENCES OF THUNDERSTORMS, TORNADOES, AND WATERSPOUTS.

LIQUID PRECIPITATION: RAIN OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING PRECIPITATION: FREEZING RAIN OR FREEZING DRIZZLE (GLAZE).

FROZEN PRECIPITATION: SNOW, SNOW PELLETS, SLEET, SNOW GRAINS, ICE CRYSTALS, ICE PELLETS. IN JANUARY 1968, SNOW PELLETS BECAME KNOWN AS SMALL HAIL.

HAIL: ALL OCCURRENCES OF HAIL.

ALL PRECIPITATION: INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY BE INCLUDED IN THE SAME OBSERVATION, THE SUM OF PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

FOG: INCLUDES ALL REPORTED FOG, ICE FOG, AND GROUND FOG.

SMOKE AND/OR HAZE: SMOKE, HAZE, OR COMBINATIONS OF THE TWO.

BLOWING SNOW: ALL REPORTS OF BLOWING SNOW, INCLUDING DRIFTING SNOW, WHEN REPORTED.

DUST AND/OR SAND: DUST, SAND, BLOWING DUST, BLOWING SAND, OR COMBINATIONS OF THESE.

BLOWING SPRAY: THE "ALL OBSTRUCTIONS TO VISION" CATEGORY ACCOUNTS FOR BLOWING SPRAY, IF AND AS REPORTED.

ALL OBSTRUCTIONS TO VISION: THIS CATEGORY INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION. SINCE THE OCCURRENCE OF MORE THAN ONE OBSTRUCTION TO VISION MAY BE REPORTED IN THE SAME OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY.
THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY (POF) FOR THE ATMOSPHERIC PHENOMENA SHOWN. THE DATA WAS TAKEN FROM HOURLY OBSERVATIONS ONLY, AND IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY (POF).
THIS TABLE IS THE ONLY ONE IN PART A THAT IS PRODUCED FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED MONTHLY AND ANNUALLY FOR ALL YEARS COMBINED.

THUNDERSTORMS--PERCENT OCCURRENCE FREQUENCY.
THIS TABLE GIVES THE PERCENT OCCURRENCE FREQUENCY OF THUNDERSTORMS REPORTED ON THE HOURLY OBSERVATION. DATA IS SUMMARIZED SAME AS FOR FIRST TABLE IN THIS PART.

SPECIFIED PHENOMENA VS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.
THESE TABLES INCLUDE SUMMARY OF MONTH FOR ALL HOURS AND YEARS COMBINED. WIND DIRECTION CATEGORIES ARE AS SPECIFIED BY THE LOCAL WEATHER STATION.

NOTE 1: REPORTING PRACTICES HAVE CHANGED WITH TIME. METAR AND SYNOPTIC REPORTING STATIONS RECORD (ON AWS FORMS 10/10A) AND TRANSMIT LONGLINE ONLY THE HIGHEST ORDER ATMOSPHERIC PHENOMENA THAT AFFECTS VISIBILITY. METAR STATIONS STARTED THIS PROCEDURE IN JANUARY 1968, BUT SYNOPTIC STATIONS ALWAYS DID IT THAT WAY. IN JANUARY 1970, METAR STATIONS STARTED RECORDING ALL ATMOSPHERIC PHENOMENA THAT AFFECTED VISIBILITY, BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE RECORDED OBSERVATION INCLUDED RAIN, FOG AND HAZE, ONLY THE RAIN WAS TRANSMITTED. BECAUSE OF THESE PROCEDURES, THE USAFETAC DATABASE WOULD SHOW ONLY RAIN AS AN OBSTRUCTION. THEREFORE, THE OBSTRUCTION TO VISION (AND TO A LESSER EXTENT, PRECIPITATION) SUMMARIES FOR METAR AND SYNOPTIC STATIONS ARE HIGHLY QUESTIONABLE.

NOTE 2: FOREIGN METAR REPORTING STATIONS FREQUENTLY DO NOT TRANSMIT OBSTRUCTIONS TO VISION WHEN VISIBILITIES EXCEED 1000 METERS.

NOTE 3: A VALUE OF ".0" IN ANY SUMMARY REPRESENTS ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		.2	.3	16.1		16.7	4.7				21.4	930
03-05		.1	.3	16.5		16.9	5.8		.3		23.0	930
06-08		.1	.4	18.3		18.8	6.8		.1		25.7	930
09-11		.3	.3	18.3		18.9	8.6	.3	.3		28.2	930
12-14		.2		16.5		16.7	7.3		.6		24.6	930
15-17		.1	.1	14.4		14.6	5.6		1.2		21.4	930
18-20		.1	.1	14.2		14.4	5.4		.8		20.5	930
21-23		.1	.2	17.5		17.8	5.4		.1		23.3	930
ALL HOURS		.2	.2	16.5		16.9	6.2	.0	.4		23.5	7440

MONTH: FEB

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		.6		19.0		19.6	8.4		.2		28.2	849
03-05		.2	.1	19.8		20.1	8.5	.2	.4		29.2	849
06-08		.8		18.6		19.4	7.1	.1	.8		27.4	849
09-11		.9		17.9		18.8	9.8		1.5	.1	30.3	849
12-14		1.4		14.0		15.4	7.9	.2	.9		24.4	849
15-17		1.5	.1	11.8		13.4	4.4	.6	.7	.2	19.3	849
18-20		1.3		13.1		14.4	6.0				20.4	849
21-23		.9		17.0		17.9	8.2		.2		26.4	849
ALL HOURS		1.0	.0	16.4		17.4	7.5	.1	.6	.0	25.7	6792

OPERATING LOCATION "A" — PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC — FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		3.9	.2	15.2		19.2	6.1		.3		25.7	930
03-05		3.0		17.7		20.8	10.0		.4		31.2	930
06-08		1.8	.3	16.5		18.6	12.8		.8		32.2	930
09-11		2.9	.3	16.5		19.7	11.3	.2	.9		32.0	930
12-14		2.4		15.7		18.1	9.1	.1	.6		28.0	930
15-17		3.1		12.5		15.6	6.5		.5		22.6	930
18-20		4.2		12.3		16.5	7.4		.1		24.0	930
21-23		3.8	.1	13.1		17.0	6.0		.3		23.3	930
ALL HOURS		3.1	.1	14.9		18.2	8.7	.0	.5		27.4	7440

MONTH: APR

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		4.6		7.7		12.2	4.1		.2		16.6	900
03-05		3.8		8.7		12.4	5.0		.6		18.0	900
06-08		3.2		8.0		11.2	5.4	.2	.7		17.6	900
09-11		3.3		8.1		11.4	4.0		.6		16.0	900
12-14	.1	4.9		5.3		10.2	1.8				12.0	900
15-17	.2	5.9		3.3		9.2	1.3				10.6	900
18-20	.1	5.9		5.0		10.9	2.2				13.1	900
21-23	.1	5.1		5.9		11.0	3.0				14.0	900
ALL HOURS	.1	4.6		6.5		11.1	3.4	.0	.3		14.7	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		9.2		2.7	.1	12.0	2.0			.5	14.6	930
03-05	.1	9.7		3.4		13.1	2.9			.6	16.7	930
06-08	.1	9.9		3.0		12.9	3.7		.2	.6	17.4	930
09-11	.3	10.1		2.8		12.9	2.7			.4	16.0	930
12-14	.8	9.7		2.0		11.7	2.6			.3	14.6	930
15-17	2.5	11.7		1.6		13.3	2.5			.4	16.3	929
18-20	1.5	12.0		1.1		13.1	1.2			.3	14.6	927
21-23	.6	10.7		2.0		12.7	1.8			.5	15.1	927
ALL HOURS	.7	10.4		2.3	.0	12.7	2.4		.0	.5	15.7	7433

MONTH: JUN

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.8	6.8				6.8	.3				7.1	899
03-05	.6	6.8				6.8	.6				7.3	900
06-08	.3	6.7				6.7	1.7	.2			8.6	900
09-11		4.2				4.2	.8	.2			5.2	900
12-14	1.1	5.4				5.4	.4				5.9	900
15-17	3.6	7.1			.1	7.2	.2			.1	7.6	900
18-20	6.1	8.9				8.9	.2				9.1	900
21-23	4.8	10.0				10.0					10.0	900
ALL HOURS	2.3	7.0			.0	7.0	.5	.1		.0	7.6	7199

FORM NO 413 1

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.4	4.2				4.2				.1	4.3	930
03-05	.6	4.8				4.9	.8				5.6	930
06-08	.1	4.0				4.0	.4				4.4	930
09-11	.1	4.3				4.3	.2				4.5	930
12-14	.6	4.2				4.2	.4				4.6	930
15-17	2.9	4.8				4.8	.2				5.1	930
18-20	3.4	5.8				5.8					5.8	930
21-23	2.7	4.6				4.6					4.6	930
ALL HOURS	1.5	4.6				4.6	.3			.0	4.9	7440

MONTH: AUG

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.4	5.2				5.2	.6				5.8	930
03-05	.6	5.5				5.5	.4				5.9	930
06-08		4.8				4.8	.6	.3			5.8	930
09-11	.3	4.3				4.3	.6	.2			5.2	930
12-14	.4	4.8				4.8	.6	.2			5.7	930
15-17	2.2	5.9				5.9	.4				6.3	930
18-20	2.7	7.3				7.3	.6			.2	8.2	930
21-23	1.9	6.9			.1	7.0	.4				7.4	930
ALL HOURS	1.2	5.6			.0	5.6	.6	.1		.0	6.3	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.1	10.3		3.2		13.6	3.6		.2		17.3	900
03-05		10.1		4.1		14.2	5.0				19.2	900
06-08		8.4		3.4		11.9	4.8				16.7	900
09-11		7.3		2.4		9.8	3.9				13.7	900
12-14		8.1		2.3		10.4	2.2				12.7	900
15-17	.4	7.6		2.2		9.8	2.1				11.9	900
18-20	.7	7.8		1.9		9.7	1.4				11.1	900
21-23	.4	10.9		3.2		14.1	2.4				16.6	900
ALL HOURS	.2	8.8		2.9		11.7	3.2		.0		14.9	7200

MONTH: OCT

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		3.4		4.9		8.4	1.9				10.3	930
03-05		3.8		5.7		9.5	3.4				12.9	930
06-08		4.4	.3	6.3		11.1	4.7		.2		16.0	930
09-11		4.4	.1	6.1		10.6	5.1		.3		16.0	930
12-14	.1	4.5		4.4		8.9	3.3		.3		12.6	930
15-17		4.3		3.5		7.8	2.6		.2		10.6	930
18-20		3.7		4.1		7.7	2.0				9.8	930
21-23		3.5		4.2		7.7	1.4				9.1	930
ALL HOURS	.0	4.0	.1	4.9		9.0	3.1		.1		12.2	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		1.1	.4	14.6		16.1	6.1		.4		22.7	900
03-05		1.3	.3	16.0		17.7	6.0		.3		24.0	900
06-08		.1	.1	16.6		16.8	8.4	.1	.7		26.0	900
09-11		.7		15.3		16.0	8.6		.7	.1	25.3	900
12-14		1.1		15.0		16.1	7.6	.1	.9		24.7	900
15-17		1.9		13.3		15.2	7.1	.1	1.2		23.7	900
18-20		1.4		14.2		15.7	6.9		.7		23.2	900
21-23		1.1	.2	16.7		18.0	8.0		.6		26.6	900
ALL HOURS		1.1	.1	15.2		16.4	7.3	.0	.7	.0	24.5	7200

MONTH: DEC

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		.1	.2	19.6		19.9	8.1	.1	.6		28.7	930
03-05		.3		19.7		20.0	7.5		.4		28.0	930
06-08				19.2		19.2	7.6		.1		27.0	930
09-11		.3		15.8		16.1	9.5	.2	.4		26.2	930
12-14		.1		14.5		14.6	8.4		.2		23.2	930
15-17		.2	.1	14.5		14.8	7.7		.5		23.1	930
18-20		.1	.2	15.3		15.6	5.6		1.0		22.2	930
21-23		.3	.4	17.1		17.8	6.0		.4		24.3	930
ALL HOURS		.2	.1	17.0		17.3	7.6	.0	.5		25.3	7440

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF VARIOUS ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN		.2	.2	16.5		16.9	6.2	.0	.4		23.5	7440
FEB		1.0	.0	16.4		17.4	7.5	.1	.6	.0	25.7	6792
MAR		3.1	.1	14.9		18.2	8.7	.0	.5		27.4	7440
APR	.1	4.6		6.5		11.1	3.4	.0	.3		14.7	7200
MAY	.7	10.4		2.3	.0	12.7	2.4		.0	.5	15.7	7433
JUN	2.3	7.0			.0	7.0	.5	.1		.0	7.6	7199
JUL	1.5	4.6				4.6	.3			.0	4.9	7440
AUG	1.2	5.6			.0	5.6	.6	.1		.0	6.3	7440
SEP	.2	8.8		2.9		11.7	3.2		.0		14.9	7200
OCT	.0	4.0	.1	4.9		9.0	3.1		.1		12.2	7440
NOV		1.1	.1	15.2		16.4	7.3	.0	.7	.0	24.5	7200
DEC		.2	.1	17.0		17.3	7.6	.0	.5		25.3	7440
ANNUAL	.5	4.2	.1	8.0	.0	12.3	4.2	.0	.3	.1	16.8	87664

FORM NO 413

OPERATING LOCATION 'A' PERCENTAGE FREQUENCY OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4901-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN		5.7	.8	47.4		50.1	25.3	1.9	4.8		52.5	1238
FEB	.2	7.5	.9	43.9	.1	47.1	24.9	1.7	3.6		49.4	1127
MAR	.2	15.3	.8	42.8	.1	50.4	22.3	1.0	3.4	.1	52.9	1239
APR	2.0	30.3	.8	30.3	.6	47.9	16.8	.6	1.2		48.9	1199
MAY	11.2	52.1	.1	7.9	1.7	53.5	10.4	.7	.2	.1	54.1	1239
JUN	22.4	52.6		.9	2.4	52.6	6.9	.1		.2	52.7	1168
JUL	22.7	38.4		.1	2.1	38.4	2.3	.1		.1	38.6	1209
AUG	19.5	40.9		.1	1.5	40.9	3.1	.2		.2	41.1	1209
SEP	4.4	37.7	.3	7.3	.3	40.0	8.3	.1	.2		40.8	1170
OCT	.8	24.6	1.1	15.6	.2	33.0	10.4	.2	.4		34.6	1209
NOV		14.0	1.3	30.6		39.4	17.6	.9	3.0	.3	42.4	1168
DEC	.1	7.8	1.7	40.6		44.3	22.8	1.3	4.1		46.4	1208
ANNUAL	7.0	27.3	.6	22.3	.8	44.8	14.3	.7	1.7	.1	46.2	14383

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF THUNDERSTORMS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
00-02						1.8	1.4	1.4	.1			
03-05					.1	.6	.6	.6				
06-08					.1	.3	.1					
09-11					.3		.1	.3				
12-14				.1	.8	1.1	.6	.4		.1		
15-17				.2	2.5	3.6	2.9	2.2	.4			
18-20				.1	1.5	6.1	3.4	2.7	.7			
21-23				.1	.6	4.8	2.7	1.9	.4			
ALL HOURS				.1	.7	2.3	1.5	1.2	.2	.0		
TOTAL OBS	7440	6792	7440	7200	7433	7199	7440	7440	7200	7440	7200	7440

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS								
LIQUID PRECIP	16.7		25.0	16.7		16.7	25.0	12
FREEZING PRECIP	15.8		42.1	26.3			15.8	19
FROZEN PRECIP	17.6		31.2	8.3	2.2	13.3	27.4	1369
FOG	24.6		32.0	8.9	1.1	11.6	21.7	447
FOG WITH VIS GE 1/2 MILES	21.5		33.3	8.6	.8	12.4	23.5	396
TOTAL OBS	865	0	732	378	413	3823	1229	7440

MONTH: FEB HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS								
LIQUID PRECIP	3.0		30.3	3.0	3.0	27.3	33.3	66
FREEZING PRECIP			100.0					2
FROZEN PRECIP	15.9		39.5	10.6	2.8	12.1	19.1	1186
FOG	20.4		35.2	16.5	2.8	9.0	16.1	509
FOG WITH VIS GE 1/2 MILES	17.5		37.5	16.8	2.1	7.7	18.4	429
TOTAL OBS	802	0	375	566	413	3143	993	6792

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS								
LIQUID PRECIP	5.2		24.9	12.9	6.0	17.6	33.5	233
FREEZING PRECIP	11.1		44.4			11.1	33.3	9
FROZEN PRECIP	8.8		43.8	9.7	1.3	6.8	29.6	1150
FOG	9.0		43.7	9.8	1.3	8.9	27.3	620
FOG WITH VIS GE 1/2 MILES	8.6		43.2	9.4	1.4	9.0	28.3	555
TOTAL OBS	773	0	1221	757	458	2692	1538	7439

MONTH: APR HOURS: ALL

TSTMS				60.0		40.0		5
LIQUID PRECIP	6.7		21.9	13.4	2.7	14.3	41.0	329
FREEZING PRECIP								
FROZEN PRECIP	7.9		46.0	10.9	.9	6.4	28.1	470
FOG	14.9		44.2	17.4	.8	2.5	20.2	242
FOG WITH VIS GE 1/2 MILES	15.2		43.5	17.3	.8	2.5	20.7	237
TOTAL OBS	570	0	959	955	455	2524	1635	7198

LST TO UTC: + 7 MONTH: MAY HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS	3.6		19.6	23.2	7.1	8.9	37.5	56
LIQUID PRECIP	5.9		26.8	13.1	2.8	15.0	36.4	740
FREEZING PRECIP								
FROZEN PRECIP	5.0		44.4	6.1		1.7	42.8	180
FOG	3.4		36.0	5.1	.6	5.6	49.4	178
FOG WITH VIS GE 1/2 MILES	3.4		35.8	5.1	.6	5.7	49.4	176
TOTAL OBS	657	0	925	1416	500	2017	1918	7433

MONTH: JUN HOURS: ALL

TSTMS	5.4		17.3	20.8	8.9	16.7	31.0	168
LIQUID PRECIP	8.3		18.6	13.7	6.9	22.5	29.9	408
FREEZING PRECIP								
FROZEN PRECIP								
FOG	7.9		31.6	15.8	5.3	5.3	34.2	38
FOG WITH VIS GE 1/2 MILES	7.9		31.6	15.8	5.3	5.3	34.2	38
TOTAL OBS	773	0	751	1170	547	2244	1713	7198

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS	7.1		20.4	18.6	8.8	15.9	29.2	113
LIQUID PRECIP	3.7		21.3	17.2	7.8	22.8	27.2	268
FREEZING PRECIP								
FROZEN PRECIP								
FOG	15.8		36.8	15.8	10.5		21.1	19
FOG WITH VIS GE 1/2 MILES	12.5		43.8	6.3	12.5		25.0	16
TOTAL OBS	760	0	891	1299	593	2046	1851	7440

MONTH: AUG HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS	4.4		10.0	22.2	7.8	13.3	42.2	90
LIQUID PRECIP	5.6		25.2	13.7	3.1	17.4	35.0	357
FREEZING PRECIP								
FROZEN PRECIP								
FOG	2.4		23.8			23.8	50.0	42
FOG WITH VIS GE 1/2 MILES	2.4		23.8			23.8	50.0	42
TOTAL OBS	924	0	990	1275	522	1853	1876	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS			20.0	26.7	6.7	13.3	33.3	15
LIQUID PRECIP	6.6		32.9	8.5	2.8	14.6	34.5	632
FREEZING PRECIP								
FROZEN PRECIP	5.8		51.4	20.2	1.0	2.4	19.2	208
FOG	7.9		43.4	11.0	.4	10.1	27.2	228
FOG WITH VIS GE 1/2 MILES	7.6		43.6	11.1	.4	10.2	27.1	225
TOTAL OBS	835	0	965	872	450	2424	1654	7200

MONTH: OCT HOURS: ALL

TSTMS				100.0				1
LIQUID PRECIP	5.7		27.2	7.4	1.7	19.5	38.6	298
FREEZING PRECIP			75.0	25.0				4
FROZEN PRECIP	8.2		41.5	3.6	.5	6.0	40.2	366
FOG	14.5		49.6	3.5	2.2	9.2	21.1	228
FOG WITH VIS GE 1/2 MILES	12.4		50.5	2.9	2.4	10.0	21.9	210
TOTAL OBS	893	0	645	504	575	3354	1469	7440

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
USAFETAC, ASHEVILLE NC VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS								
LIQUID PRECIP	21.5		26.6	2.5	1.3	20.3	27.8	79
FREEZING PRECIP	20.0		70.0				10.0	10
FROZEN PRECIP	14.3		39.3	5.5	1.1	8.5	31.4	1189
FOG	16.2		39.8	4.8	.6	9.6	29.0	500
FOG WITH VIS GE 1/2 MILES	15.6		40.2	4.7	.4	9.8	29.3	488
TOTAL OBS	781	0	695	293	401	3899	1131	7200

MONTH: DEC HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS								
LIQUID PRECIP	7.1		7.1	7.1		50.0	28.6	14
FREEZING PRECIP			88.9	11.1				9
FROZEN PRECIP	13.0		29.7	6.6	2.0	20.4	28.2	1385
FOG	14.9		32.6	5.0	1.7	14.5	31.3	543
FOG WITH VIS GE 1/2 MILES	14.6		32.4	5.0	1.5	14.8	31.6	519
TOTAL OBS	795	0	695	301	337	4155	1157	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTHS: ALL

PHENOMENA	CALM	VARIABLE	341 - 040	041 - 170	171 - 209	210 - 250	251 - 340	NO OF OBS
TSTMS	5.1		16.7	21.7	8.3	15.0	33.3	448
LIQUID PRECIP	6.5		25.8	11.8	3.8	17.7	34.5	3436
FREEZING PRECIP	11.3		60.4	13.2		1.9	13.2	53
FROZEN PRECIP	12.9		37.8	8.3	1.7	11.3	28.0	7503
FOG	14.8		38.4	9.2	1.4	9.8	26.4	3594
FOG WITH VIS GE 1/2 MILES	13.5		38.9	8.9	1.3	9.9	27.5	3331
TOTAL OBS	9428	0	10344	9786	5664	34274	18164	87660

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT      BBBBBBBBB
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT      BBBBBBBBBB
PP      PP     AA    AA     RR      RR        TT          BB      BB
PP      PP     AA    AA     RR      RR        TT          BB      BB
PPPPPPPPP      AA    AA     RRRRRRRRR       TT          BBBBBBBBB
PPPPPPPP       AAAAAAAAAA    RRRRRRRR        TT          BBBBBBBBB
PP             AAAAAAAAAA    RR    RR        TT          BB      BB
PP             AA    AA      RR     RR       TT          BB      BB
PP             AA    AA      RR      RR      TT          BBBBBBBBB
PP             AA    AA      RR       RR     TT          BBBBBBBBB
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PART B

PRECIPITATION, SNOWFALL, SNOW DEPTH SUMMARIES

ALL TABLES IN PART B ARE CREATED FROM SUMMARY OF DAY (SOD) DATA.

PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY OF PRECIPITATION, SNOWFALL AND SNOW DEPTH. DATA IS SUMMARIZED FOR ALL YEARS COMBINED. SUMMARIES INCLUDE THE PERCENT OF DAYS WITH MEASURABLE AMOUNTS, PERCENT OF DAYS WITH NO AMOUNTS, PERCENT OF DAYS WITH TRACES, AND PERCENT OF DAYS WITH SPECIFIED AMOUNTS. SUMMARIES ALSO PROVIDE AN OBSERVATION COUNT. A VALUE OF ".0" INDICATES ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

MONTHLY TOTALS.

THESE TABLES GIVE THE TOTAL MONTHLY PRECIPITATION AND SNOWFALL RESPECTIVELY. THEY ARE SUMMARIZED BY MONTH FOR ALL YEARS. THE TABLES ALSO GIVE THE GREATEST AMOUNTS, LEAST AMOUNTS, MEAN, MEDIAN, STANDARD DEVIATIONS, AND TOTAL AVAILABLE OBSERVATIONS. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF DATA ARE AVAILABLE. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH.

DAILY EXTREMES.

THESE TABLES GIVE THE MAXIMUM DAILY REPORTED AMOUNTS (BY INDIVIDUAL YEAR-MONTH) FOR PRECIPITATION, SNOWFALL, AND SNOW DEPTH, RESPECTIVELY. THEY SHOW THE GREATEST AMOUNTS FOR EACH MONTH AND THE TOTAL NUMBER OF AVAILABLE OBSERVATIONS FOR EACH MONTH AND YEAR. AN ASTERISK (*) INDICATES A MONTH FOR WHICH LESS THAN 90% OF DATA ARE AVAILABLE. ".00" MEANS NO PRECIPITAION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH, AND "0" MEANS NO SNOW DEPTH FOR THE MONTH.

SNOWFALL/SNOW DEPTH--FIRST AND LAST DAYS OF OCCURRENCE BY SNOW YEAR.

THIS SUMMARY GIVES THE FIRST AND LAST OCCURRENCES OF SNOWFALL AND SNOW DEPTH FOR THE SNOW-YEAR DURING THE PERIOD OF RECORD. FOR THIS SUMMARY, THE SNOW-YEAR IS CONSIDERED TO RUN FROM 1 AUGUST TO 31 JULY. TABLES SUMMARIZE THE DATA BY SNOW-YEAR, BY MONTH, AND BY DAY. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OF AWS FORMS 10/10A (OR EQUIVALENT) AS EITHER A TRACE OR A MEASURABLE AMOUNT DEFINES THE FIRST (OR LAST) SNOWFALL FOR THE THE YEAR. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OTHER THAN ".0" OR "TRACE" DEFINES THE FIRST (OR LAST) MEASURABLE SNOWFALL. FINALLY, THE 1200 GMT ENTRY COLUMN 70 OF AWS FORM 10/10A (OR EQUIVALENT) DEFINES THE FIRST (OR LAST) OCCURRENCE OF SNOW DEPTH. THE LAST SNOW DEPTH IS CONSIDERED THE LAST SNOW MELT.

NOTE 1. IF THE MINIMUM AMOUNT RECORDED IN THE MONTHLY TOTALS OR DAILY EXTREMES IS A TRACE, THE WORD "TRACE" WILL APPEAR IN THE APPROPRIATE COLUMN.

NOTE 2. TABLES INCLUDE STATISTICAL DATA ONLY WHEN 10 SETS OF MONTHLY DATA, OR MORE, ARE AVAILABLE.

NOTE 3. THE OBSERVATION COUNTS OR THE STATION HISTORY MIGHT PROVIDE CLUES AS TO WHY CERTAIN DATA ARE MISSING. FOR EXAMPLE, ONLY A FEW MISSING OBSERVATIONS MIGHT IMPLY MISSING DATA BECAUSE OF EQUIPMENT MALFUNCTION, BUT MORE THAN SEVERAL MISSING OBSERVATIONS USUALLY MEANS THE STATION IS (OR HAS BEEN) CLOSED.

NOTE 4. IN DAILY AND MONTHLY AMOUNTS SUMMARIES, THE LAST ENTRY ON THE PAGE GIVES THE GREATEST AMOUNT FOR THE PERIOD OF RECORD.

NOTE 5. BEFORE JANUARY 1956, SNOWFALL OCCURRENCES IN THE SUMMARY OF DAY INCLUDED HAIL.

NOTE 6. SNOW DEPTH REPORTING TIMES FOR USAF, NAVY AND CIVIL STATIONS ARE AS FOLLOWS:

AIR FORCE		NAVY AND NATIONAL WEATHER SERVICE	
THROUGH 1945:	0800 LST	THROUGH JUN 1952:	0030 GMT
JAN 1946 TO MAY 1957:	1230 LST	JUN 1952 TO MAY 1957:	1230 GMT
JUN 1957 TO PRESENT:	1200 GMT	JUN 1957 TO PRESENT:	1200 GMT

CONVERSIONS:

- 1 INCH = 25.39998 MILLIMETERS

- 1 MILLIMETER = .03937 INCHES

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	51.3	52.4	49.8	51.9	46.8	45.3	61.4	59.4	60.5	67.7	59.5	56.2	55.1
TRACE	23.5	23.5	23.5	22.4	22.0	18.8	16.6	17.9	15.5	14.4	19.5	21.2	19.9
.01	4.3	4.7	4.2	4.3	2.7	3.7	2.9	2.5	3.2	2.3	2.7	4.0	3.5
.02-.05	8.9	8.5	9.6	7.5	7.6	8.2	5.5	6.1	6.5	5.0	7.4	7.8	7.4
.06-.10	5.9	5.2	4.6	4.5	4.0	6.1	3.5	4.0	3.8	3.7	4.8	3.9	4.5
.11-.25	4.6	4.3	5.5	5.9	8.1	7.6	5.2	4.4	5.9	4.5	4.5	4.8	5.5
.26-.50	1.1	1.3	2.5	2.7	4.4	5.0	3.0	3.5	2.9	1.6	1.2	1.8	2.6
.51-1.00	.4	.2	.4	.7	2.7	3.6	1.4	1.4	1.3	.7	.2	.2	1.1
1.01-2.50	.1		.1	.2	1.7	1.6	.6	.7	.4	.1		.1	.5
2.51-5.00						.1					.1		.0
5.01-10.00													
10.01-20.00													
OVER 20.00													
DAYS WITH MEAS AMTS	25.2	24.1	26.7	25.7	31.2	35.9	22.1	22.7	24.0	18.0	21.0	22.6	24.9
TOTAL NO. OF OBSERVATIONS	1426	1300	1426	1380	1425	1349	1395	1395	1350	1364	1320	1426	16536

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42												.12	.12*
43	1.55	.75	.45	1.70	.64	5.57	.84	.93	.54	.28	.41	.27	13.93
44	TRACE	.93	.73	.69	.60	3.79	.32	1.55	1.32	.06	.62	.41	11.02
45	.20	.45	.48	.27	1.51	2.93	.02	.43	2.08			1.52	9.89*
46	.13	.19	.67	.54	2.03	3.51	1.49	.70	1.76	1.80	1.23	.35	14.40
47	.54	.79	1.18	.24	.31	2.02	.09	.30	.99	.36	1.28	.90	9.08
48	.73	.37	.93	.47	3.58	3.38	1.76	.59	.33	.39	.43	2.01	14.97
49	2.46	.73	1.00	.06	2.87	1.70	1.41	.24	.61	.93	.02	.76	12.79
50	.87	.01	1.88	1.13	.66	2.01	3.75	3.20	.44	.05	1.13	.28	15.41
51	.42	.95	1.61	2.24	1.85	2.04	2.88	1.84	1.51	1.04	.35	1.85	18.58
52	.19	.93	.77	.40	1.18	1.11	.13	.78	.19	.12	.75	.09	6.64
53	.19	.61	.48	2.02	6.55	5.19	TRACE	1.40	1.06	.18	.08	1.04	18.80
54	.58	.45	.75	.64	.78	4.82	.72	1.96	1.82	1.72	.08	.02	14.34
55	1.11	1.21	1.52	2.52	4.02	1.12	3.75	.06	.10	.61	2.01	.86	18.89
56	.63	.21	.23	.68	1.44	2.22	1.19	1.20	.24	.75	.19	.58	9.56
57	1.38	.58	.47	.62	2.60	3.10	.49	1.07	1.31	.92	.67	.12	13.33
58	.32	1.65	.56	.52	1.34	4.63	2.26	.61	.15	.39	.63	1.01	14.07
59	.82	.53	.24	.67	3.26	2.38	.21	.60	1.55	1.08	3.93	.25	15.52
60	.20	.42	.09	1.60	2.25	.83	.45	3.74	.40	.05	.67	.10	10.80
61	.10	.33	.67	.84	1.61	.33	1.32	.24	1.58	.24	.79	.20	8.25
62	1.51	.47	.46	.52	5.31	2.70	1.45	1.70	.40	1.54	.28	.71	17.05
63	.81	.21	.36	1.03	1.70	3.21	.94	.42	.49	1.15	.17	.88	11.37
64	.40	.35	1.64	1.70	5.17	4.76	1.59	1.41	.39	TRACE	.70	.87	18.98
65	1.10	1.03	.45	1.57	1.43	5.19	1.77	1.95	1.92	TRACE	1.04	.66	18.11
66	1.71	.82	1.07	.91	1.21	2.38	1.31	1.67	.32	1.72	1.48	.83	15.43
67	.72	.48	2.49	2.21	1.88	3.42	1.53	.24	2.71	1.63	.49	1.72	19.52
68	1.16	.25	.83	1.32	2.88	3.32	.12	2.76	3.41	.04	.87	1.31	18.27
69	1.46	.35	.61	.30	1.48	4.79	1.37	.20	.18	1.03	.13	.50	12.40
70	.96	1.30	.62	.92	4.43	4.50	1.27	.49	.32	.66	.41	.42	16.30
71	.75	.46	.71	.44	2.59	.82	.35	1.50	1.60	.48	.13	.73	10.56
72	.89	.31	.62	.60	2.20	.24	1.96	1.56	.78	.71	.20	1.21	11.28
73	.09	.20	.26	2.87	1.04	1.35	.09	.99	1.41	.88	.86	1.32	11.36
74	.40	.12	.69	.63	4.33	1.74	.68	4.89	1.01	.43	.20	.19	15.31
75	.86	.31	.75	3.31	3.90	4.69	1.44	2.39	.73	2.79	.54	.20	21.90

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	.27	.28	.40	1.21	1.16	4.04	1.99	2.57	.31	.20	.59	.53	13.55
77	.71	.12	.57	.25	2.59	1.39	2.18	1.88	2.28	.56	.34	1.38	14.25
78	1.14	.83	.22	1.46	4.02	2.37	1.97	1.09	3.04	.25	.99	.70	18.08
79	.57	.43	.66	1.72	.71	1.32	.31	.23	.31	.77	.22	.24	7.49
80	.46	1.16	.81	.57	4.07	3.35	.41	1.07	1.18	1.95	.28	.37	15.68
81	.20	.21	2.31	.09	5.66	1.41	.91	.51	.46	1.02	.20	.22	13.20
82	.70	.83	1.67	.83	3.70	2.60	1.74	.77	1.93	.68	.46	.76	16.67
83	.07	.26	1.44	.40	1.46	3.35	4.15	.53	1.75	.78	1.05	.56	15.80
84	.98	.91	1.28	.57	1.21	2.18	.01	.96	.89	1.18	.67	2.00	12.84
85	.51	.50	1.12	.37	2.13	.56	.49	4.73	4.07	1.04	1.16	.39	17.07
86	.59	.76	.41	2.22	1.70	3.64	2.42	1.28	2.64	1.06	.41	.31	17.46
87	.04	.12	2.13	.79	2.44	.90	2.38	1.91	1.19	TRACE	.22	.26	12.38
88	.60	.42	.70	.72	2.09								4.53*
LEAST	TRACE	.01	.09	.06	.31	.24	TRACE	.06	.10	TRACE	.02	.02	.12
GREATEST	2.46	1.65	2.49	3.31	6.55	5.57	4.15	4.89	4.07	2.79	3.93	2.01	21.90
MEAN	.70	.56	.87	1.03	2.42	2.73	1.29	1.36	1.19	.76	.67	.69	14.38
MEDIAN	.62	.46	.70	.71	2.06	2.60	1.31	1.07	1.01	.70	.52	.57	14.37
SD	.515	.361	.573	.773	1.502	1.467	1.041	1.127	.948	.629	.662	.535	3.496
TOTAL OBS	1426	1300	1426	1380	1425	1349	1395	1395	1350	1364	1320	1426	16556

THE GREATEST VALUE OF 6.55 OCCURRED ON 05/'3

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42												.03	.03*
43	.47	.17	.19	.68	.20	1.17	.32	.38	.20	.16	.38	.24	1.17
44	TRACE	.39	.18	.35	.34	1.64	.11	.66	.65	.06	.15	.16	1.64
45	.07	.13	.16	.12	.43	.93	.01	.14	.93			.65	.93*
46	.11	.09	.35	.38	.67	1.28	.57	.26	.56	.56	.64	.17	1.28
47	.31	.27	.72	.06	.20	1.13	.05	.18	.34	.20	.25	.32	1.13
48	.14	.09	.20	.20	1.14	1.19	.80	.35	.15	.39	.19	1.30	1.30
49	.88	.31	.35	.04	1.72	.73	.84	.15	.26	.40	.01	.30	1.72
50	.25	.01	.50	.29	.22	.94	1.59	2.00	.32	.02	.31	.13	2.00
51	.27	.73	.42	2.02	1.06	.46	1.05	.66	.70	.20	.19	.30	2.02
52	.08	.37	.26	.38	.32	.87	.13	.52	.14	.12	.18	.09	.87
53	.05	.32	.16	.46	2.05	3.01	TRACE	.91	.73	.18	.08	.35	3.01
54	.13	.20	.11	.17	.22	2.24	.41	.82	.73	1.27	.06	.02	2.24
55	.99	.36	.29	.75	1.28	.45	1.05	.05	.07	.33	.46	.34	1.28
56	.20	.08	.12	.24	.31	.72	.51	.35	.18	.24	.11	.28	.72
57	.14	.25	.13	.17	1.79	.74	.24	.33	.65	.14	.39	.05	1.79
58	.10	.44	.15	.25	.64	.87	.67	.21	.11	.16	.23	.30	.87
59	.21	.21	.09	.22	1.41	1.02	.11	.40	.75	.33	3.19	.22	3.19
60	.07	.25	.03	.53	.57	.43	.16	1.35	.13	.05	.30	.06	1.35
61	.08	.27	.47	.18	.64	.23	.53	.12	.39	.12	.26	.12	.64
62	1.11	.14	.20	.39	1.84	1.15	.31	1.16	.28	.75	.18	.18	1.84
63	.18	.13	.31	.43	.80	.79	.43	.20	.14	.33	.10	.30	.80
64	.37	.24	.42	.31	1.64	3.12	.42	.62	.12	TRACE	.23	.38	3.12
65	.64	.23	.09	.35	.51	1.80	.67	.80	.74	TRACE	.50	.30	1.80
66	.62	.31	.53	.39	1.03	.75	.62	1.09	.22	1.04	.31	.25	1.09
67	.34	.13	.84	.67	.48	.30	.49	.12	1.23	.82	.17	.38	1.23
68	.37	.08	.36	.63	1.48	1.06	.10	1.14	1.13	.03	.80	.76	1.48
69	.33	.14	.30	.10	.76	1.86	.50	.12	.10	.19	.11	.32	1.86
70	.26	.37	.22	.39	1.58	1.91	.46	.45	.12	.24	.12	.15	1.91
71	.17	.14	.36	.30	.57	.52	.19	.80	.98	.20	.04	.19	.98
72	.33	.19	.25	.22	1.02	.13	1.28	.43	.36	.22	.14	.42	1.28
73	.09	.08	.12	1.88	.58	.54	.07	.49	.70	.38	.18	.52	1.88
74	.16	.05	.22	.33	.92	1.57	.37	1.22	.47	.25	.13	.10	1.57
75	.31	.03	.26	1.82	.99	.93	.72	.54	.34	.95	.26	.07	1.82

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	.11	.19	.27	.50	.31	1.21	.59	1.61	.21	.15	.40	.16	1.61
77	.20	.07	.18	.13	.77	1.11	1.41	.45	1.02	.34	.10	.34	1.41
78	.21	.26	.13	.35	1.35	.57	.48	.36	1.54	.12	.27	.25	1.54
79	.15	.14	.35	.54	.25	.70	.14	.10	.19	.39	.07	.20	.70
80	.14	.23	.29	.19	1.80	.69	.22	.30	.39	.87	.10	.14	1.80
81	.08	.08	.67	.05	1.10	.78	.32	.38	.29	.44	.14	.08	1.10
82	.18	.47	.41	.19	1.47	1.18	.81	.57	1.34	.23	.17	.33	1.47
83	.07	.11	.46	.09	.93	.83	1.90	.33	.48	.36	.74	.20	1.90
84	.27	.66	.47	.17	.45	1.52	.01	.62	.41	.45	.28	.45	1.52
85	.20	.26	.45	.10	.51	.37	.26	1.13	.78	.59	.36	.17	1.13
86	.24	.39	.31	.87	.47	1.35	1.12	.50	.43	.38	.21	.18	1.35
87	.02	.09	1.23	.23	.63	.25	1.07	1.13	.48	TRACE	.17	.09	1.23
88	.45	.18	.32	.22	1.25								1.25*
GREATEST	1.11	.73	1.23	2.02	2.05	3.12	1.90	2.00	1.54	1.27	3.19	1.30	3.19
TOTAL OBS	1426	1300	1426	1380	1425	1349	1395	1395	1350	1364	1320	1426	16556

THE GREATEST VALUE OF 3.19 OCCURRED ON 11/11/59

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4601-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	53.3	55.6	56.9	69.8	92.3	99.2	99.9	99.9	92.7	84.5	67.6	59.4	77.6
TRACE	21.6	22.4	20.6	15.8	5.0	.5	.1	.1	4.6	8.6	15.2	19.0	11.1
0.1-0.4	8.9	8.6	7.7	5.1	1.0				.7	2.1	4.9	7.8	3.9
0.5-1.4	10.1	8.6	8.5	5.4	.3	.2			1.0	2.5	7.1	6.8	4.2
1.5-2.4	2.9	2.4	3.1	1.6	.4	.1			.4	1.0	2.5	3.7	1.5
2.5-3.4	1.7	1.2	1.5	1.1	.4				.5	.5	1.4	2.1	.9
3.5-4.4	.8	.5	.5	.5		.1			.1	.5	.5	.8	.3
4.5-6.4	.6	.4	.8	.5	.2				.1	.2	.6	.5	.3
6.5-10.4	.2	.3	.3	.2						.2	.2		.1
10.5-15.4			.1	.1	.1								.0
15.5-25.4													
25.5-50.4													
OVER 50.4													
DAYS WITH MEAS AMTS	25.1	22.1	22.4	14.4	2.7	.3			2.7	6.9	17.2	21.7	11.3
TOTAL NO. OF OBSERVATIONS	1333	1215	1333	1290	1333	1260	1302	1302	1260	1302	1260	1302	15492

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4601-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
46	3.0	2.6	4.5	.1	TRACE	.0	.0	.0	.0	4.7	10.3	9.5	34.7
47	5.4	7.9	11.6	1.2	.0	.0	.0	.0	2.4	.2	12.6	6.1	47.4
48	6.0	3.4	9.5	3.8	.4	.0	.0	.0	TRACE	3.9	3.3	6.0	36.3
49	10.6	7.3	10.1	TRACE	2.0	.0	.0	.0	2.3	7.3	TRACE	8.3	47.9
50	9.1	.1	18.8	5.9	1.5	4.5	.0	.0	2.7	TRACE	11.4	2.3	56.3
51	4.3	12.2	16.5	2.2	3.9	1.0	.0	.0	.3	5.5	3.4	18.3	67.6
52	1.9	9.8	6.9	.2	.0	.0	.0	.0	.0	.0	7.5	.9	27.2
53	1.4	6.1	3.1	3.0	1.3	.0	.0	.0	.0	.0	TRACE	10.5	25.4
54	7.4	1.8	8.3	6.1	.3	TRACE	.0	.0	10.0	8.9	.7	.2	43.7
55	9.0	12.6	15.3	19.0	3.8	.0	.0	.0	TRACE	.8	18.1	8.3	86.9
56	6.0	2.1	2.3	5.6	5.0	.0	.0	.0	TRACE	2.2	1.4	8.3	32.9
57	16.3	6.1	2.0	6.4	.0	.0	.0	.0	.5	6.1	6.2	.1	43.7
58	1.7	21.5	6.3	1.6	.0	.0	.0	.0	TRACE	.1	7.8	14.2	53.2
59	20.5	13.7	3.6	3.9	TRACE	.0	.0	.0	.9	7.1	15.4	3.8	68.9
60	3.5	6.2	1.2	12.8	2.4	.0	.0	.0	.0	TRACE	10.6	3.1	39.8
61	1.5	.2	5.5	2.7	TRACE	.0	.0	.0	.1	.5	14.2	3.4	28.1
62	14.5	6.4	3.6	TRACE	TRACE	.0	.0	.0	1.6	.0	1.8	3.4	31.4
63	8.4	2.1	3.6	8.6	TRACE	.0	.0	.0	.0	.0	1.1	8.8	32.6
64	6.2	3.4	10.4	7.4	TRACE	.0	.0	.0	TRACE	TRACE	6.2	10.1	43.7
65	9.4	11.5	5.1	8.8	.1	TRACE	.0	.0	2.9	.0	8.5	7.4	53.7
66	16.8	7.7	10.7	4.0	TRACE	.0	.0	TRACE	.0	2.7	16.0	8.6	66.5
67	8.2	4.8	21.8	20.6	3.8	.0	.0	.0	.0	.6	8.4	17.2	85.4
68	11.5	1.7	9.4	8.5	.2	.0	.0	.0	3.4	.1	4.1	18.0	56.9
69	23.4	4.8	6.6	1.1	TRACE	2.2	.0	.0	.0	4.1	.7	5.4	48.3
70	8.9	15.2	5.5	17.4	2.2	.0	.0	.0	1.8	3.3	6.6	6.9	67.8
71	16.4	7.0	6.8	2.0	TRACE	.0	.0	.0	TRACE	4.8	2.1	11.4	50.5
72	17.8	6.7	9.4	2.2	TRACE	.0	TRACE	.0	.8	6.3	4.7	13.4	61.3
73	.9	2.1	1.7	20.5	TRACE	.0	.0	.0	3.9	1.7	15.1	9.1	55.0
74	10.4	1.7	5.4	2.1	TRACE	.0	.0	.0	.4	.7	TRACE	2.7	23.4
75	10.7	4.7	12.9	16.4	TRACE	.0	.0	.0	.0	13.3	4.5	2.2	64.7
76	2.7	3.5	6.6	9.3	TRACE	.0	.0	.0	.0	.3	6.2	9.3	37.9
77	7.4	1.0	6.5	1.3	1.6	.0	.0	.0	.0	3.4	4.7	15.6	41.5
78	22.3	17.7	4.2	.7	TRACE	.0	.0	.0	TRACE	TRACE	20.4	18.7	84.0
79	12.4	9.7	8.8	3.7	.9	TRACE	.0	.0	.0	TRACE	3.8	5.1	44.4
80	10.6	13.4	9.5	6.3	.0	.0	.0	.0	.0	13.5	2.7	7.7	63.7

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: +07

PERIOD OF RECORD: 4601-8805
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
81	4.5	5.8	18.1	TRACE	TRACE	TRACE	.0	.0	.0	6.8	TRACE	3.8	39.0
82	13.5	9.0	21.0	13.5	19.3	.0	.0	.0	TRACE	1.5	9.9	10.8	98.5
83	1.0	2.0	9.6	3.8	8.6	.0	.0	.0	6.9	.0	13.4	13.7	59.0
84	17.2	10.3	13.9	5.0	TRACE	.0	.0	.0	6.5	8.7	5.6	21.2	88.4
85	5.1	5.0	10.3	.6	.0	.0	.0	.0	3.2	7.1	11.5	5.7	48.5
86	3.4	12.0	.7	4.9	TRACE	.0	.0	.0	TRACE	1.4	3.5	3.1	29.0
87	.3	1.0	23.0	.1	.8	.0	.0	.0	TRACE	TRACE	.2	4.1	29.5
88	12.8	7.5	5.9	3.2	.0								29.4*
LEAST	.3	.1	.7	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.1	23.4
GREATEST	23.4	21.5	23.0	20.6	19.3	4.5	TRACE	TRACE	10.0	13.5	20.4	21.2	98.5
MEAN	8.9	6.8	8.7	5.7	1.3	.2	TRACE	TRACE	1.2	3.0	6.8	8.2	51.1
MEDIAN	8.4	6.1	6.9	3.8	TRACE	.0	.0	.0	TRACE	1.5	5.9	8.0	48.1
SD	6.146	4.971	5.713	5.844	3.309	.776	.000	.000	2.211	3.678	5.532	5.431	18.936
TOTAL OBS	1333	1215	1333	1290	1333	1260	1302	1302	1260	1302	1260	1302	15492

THE GREATEST VALUE OF 23.4 OCCURRED ON 01/69

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4601-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
46	2.2	.9	3.5	.1	TRACE	.0	.0	.0	.0	1.4	6.5	6.0	6.5
47	3.1	2.7	7.2	.9	.0	.0	.0	.0	1.7	.2	2.3	2.3	7.2
48	1.4	.9	2.0	2.0	.4	.0	.0	.0	TRACE	3.9	1.9	2.4	3.9
49	3.8	3.1	3.6	TRACE	1.9	.0	.0	.0	2.3	4.0	TRACE	3.0	4.0
50	2.8	.1	4.6	3.4	1.4	4.0	.0	.0	2.7	TRACE	3.2	1.3	4.6
51	2.8	9.8	4.3	1.3	2.5	1.0	.0	.0	.3	1.8	1.9	3.0	9.8
52	.8	3.7	2.6	.2	.0	.0	.0	.0	.0	.0	1.8	.9	3.7
53	.5	3.2	1.5	1.4	1.3	.0	.0	.0	.0	.0	TRACE	3.5	3.5
54	1.3	1.8	1.5	1.8	.3	TRACE	.0	.0	6.3	7.7	.7	.2	7.7
55	8.0	3.6	2.9	7.6	2.4	.0	.0	.0	TRACE	.8	5.8	3.4	8.0
56	2.6	.8	1.2	2.4	2.6	.0	.0	.0	TRACE	1.5	.7	3.1	3.1
57	3.7	2.5	.5	3.9	.0	.0	.0	.0	.5	1.6	3.9	.1	3.9
58	1.1	8.1	2.8	1.0	.0	.0	.0	.0	TRACE	.1	2.6	4.4	8.1
59	5.7	6.0	1.8	1.9	TRACE	.0	.0	.0	.8	3.3	9.5	3.5	9.5
60	.9	2.9	.6	5.5	2.4	.0	.0	.0	.0	TRACE	3.4	1.0	5.5
61	.8	.2	5.5	1.7	TRACE	.0	.0	.0	.1	.5	4.6	1.5	5.5
62	4.6	3.0	1.9	TRACE	TRACE	.0	.0	.0	1.6	.0	1.8	1.8	4.6
63	2.3	1.3	3.1	4.3	TRACE	.0	.0	.0	.0	.0	1.0	3.0	4.3
64	6.1	2.0	3.3	2.5	TRACE	.0	.0	.0	TRACE	TRACE	1.7	3.8	6.1
65	6.4	2.3	.9	2.5	.1	TRACE	.0	.0	2.1	.0	5.0	3.0	6.4
66	5.9	3.1	5.4	1.4	TRACE	.0	.0	TRACE	.0	2.2	3.1	3.0	5.9
67	3.6	1.3	6.3	7.0	3.3	.0	.0	.0	.0	.6	4.9	3.8	7.0
68	3.7	.5	5.6	6.3	.2	.0	.0	.0	3.4	.1	3.4	6.0	6.3
69	7.0	1.6	3.0	1.1	TRACE	2.2	.0	.0	.0	1.6	.5	3.2	7.0
70	2.5	3.9	2.4	9.6	1.4	.0	.0	.0	1.2	1.6	2.5	2.1	9.6
71	3.7	1.6	1.7	1.8	TRACE	.0	.0	.0	TRACE	2.2	1.6	2.8	3.7
72	5.4	5.0	3.6	2.1	TRACE	.0	TRACE	.0	.8	3.6	4.1	3.6	5.4
73	.9	.5	.6	14.5	TRACE	.0	.0	.0	3.2	1.6	5.3	3.5	14.5
74	4.6	.6	1.6	.9	TRACE	.0	.0	.0	.4	.5	TRACE	1.4	4.6
75	3.3	1.4	5.6	5.5	TRACE	.0	.0	.0	.0	5.9	1.7	.7	5.9
76	1.1	1.9	5.5	4.6	TRACE	.0	.0	.0	.0	.3	4.0	2.9	5.5
77	2.4	.7	2.5	1.1	1.6	.0	.0	.0	.0	3.4	2.5	4.5	4.5
78	4.2	7.6	2.9	.7	TRACE	.0	.0	.0	TRACE	TRACE	5.9	6.4	7.6
79	3.0	2.8	3.9	2.5	.9	TRACE	.0	.0	.0	TRACE	1.1	4.2	4.2
80	2.8	4.7	3.4	3.8	.0	.0	.0	.0	.0	6.6	1.5	2.9	6.6

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4601-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
81	1.6	2.1	6.5	TRACE	TRACE	TRACE	.0	.0	.0	4.4	TRACE	1.8	6.5
82	2.5	3.9	9.0	3.4	11.1	.0	.0	.0	TRACE	.8	2.7	4.7	11.1
83	1.0	2.0	4.0	1.4	5.9	.0	.0	.0	3.0	.0	8.0	3.0	8.0
84	4.0	8.0	8.0	4.0	TRACE	.0	.0	.0	4.1	3.5	2.2	5.5	8.0
85	2.0	2.6	4.5	.6	.0	.0	.0	.0	1.4	5.9	4.2	2.2	5.9
86	1.4	5.7	.4	3.6	TRACE	.0	.0	.0	TRACE	.8	2.1	1.8	5.7
87	.2	.9	15.0	.1	.8	.0	.0	.0	TRACE	TRACE	.2	1.8	15.0
88	8.1	3.2	2.4	2.2	.0								8.1*
GREATEST	8.1	9.8	15.0	14.5	11.1	4.0	TRACE	TRACE	6.3	7.7	9.5	6.4	15.0
TOTAL OBS	1333	1215	1333	1290	1333	1260	1302	1302	1260	1302	1260	1302	15492

THE GREATEST VALUE OF 15.0 OCCURRED ON 03/19/87

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	33.0	41.9	55.0	85.0	97.5	99.9	100.0	100.0	97.7	92.4	66.1	43.3	75.9
TRACE	15.8	15.4	12.8	6.1	1.5				1.1	3.5	9.7	13.7	6.6
1	12.0	10.3	7.2	3.6	.3				.7	1.5	5.8	9.3	4.2
2	8.9	8.3	6.3	1.3	.4	.1			.3	1.1	5.0	9.3	3.4
3	6.7	7.5	5.7	1.2	.1				.1	1.0	3.5	6.9	2.7
4-6	12.6	11.5	9.7	1.7	.1	.1			.1	.5	7.4	10.8	4.6
7-12	9.3	4.1	2.8	.7	.1						2.3	6.3	2.2
13-24	1.8	1.1	.4	.3							.2	.5	.4
25-36													
37-48													
49-60													
61-120													
OVER 120													
DAYS WITH MEAS AMTS	51.1	42.7	32.2	8.9	1.0	.1			1.2	4.0	24.2	43.1	17.4
TOTAL NO. OF OBSERVATIONS	1426	1300	1426	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42												7	7*
43	12	9	4	1	2	0	0	0	TRACE	TRACE	5	3	12
44	TRACE	4	8	0	0	0	0	0	0	0	4	5	8
45	3	5	4	1	0	0	0	0	TRACE			16	16*
46	2	2	0	0	0	0	0	0	0	2	7	6	7
47	3	4	5	1	0	0	0	0	1	TRACE	4	2	5
48	5	2	4	2	TRACE	0	0	0	0	0	1	2	5
49	6	7	6	TRACE	2	0	0	0	1	5	0	6	7
50	6	3	8	2	TRACE	4	0	0	2	3	4	4	8
51	3	10	15	1	TRACE	0	0	0	TRACE	3	3	11	15
52	10	7	7	TRACE	0	0	0	0	0	0	7	6	10
53	1	2	6	TRACE	TRACE	0	0	0	0	0	TRACE	4	6
54	9	2	4	2	1	0	0	0	1	2	1	TRACE	9
55	8	4	6	13	2	0	0	0	0	TRACE	7	7	13
56	3	3	1	1	3	0	0	0	0	1	1	4	4
57	7	9	2	1	0	0	0	0	1	3	4	TRACE	9
58	1	11	8	TRACE	0	0	0	0	0	TRACE	4	9	11
59	8	17	2	1	0	0	0	0	0	3	11	2	17
60	5	5	4	8	0	0	0	0	0	0	6	3	8
61	2	TRACE	4	2	0	0	0	0	0	1	7	3	7
62	10	3	3	TRACE	0	0	0	0	0	0	2	4	10
63	7	7	TRACE	5	0	0	0	0	0	0	1	7	7
64	6	2	4	4	0	0	0	0	0	0	6	9	9
65	7	5	5	3	0	0	0	0	2	0	5	3	7
66	12	4	6	1	0	0	0	0	0	0	8	7	12
67	4	1	7	7	1	0	0	0	0	0	5	8	8
68	9	3	7	5	0	0	0	0	2	0	0	10	10
69	18	14	8	0	0	2	0	0	0	2	1	4	18
70	5	5	9	7	0	0	0	0	1	3	2	4	9
71	14	3	3	3	0	0	0	0	0	2	2	5	14
72	10	5	4	TRACE	0	0	0	0	TRACE	4	4	6	10
73	3	1	1	17	TRACE	0	0	0	TRACE	TRACE	6	4	17
74	7	4	2	1	0	0	0	0	0	TRACE	0	3	7
75	4	5	6	14	0	0	0	0	0	3	6	3	14

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	3	2	6	3	0	0	0	0	0	TRACE	5	4	6
77	7	1	7	3	0	0	0	0	0	1	4	8	8
78	17	18	7	TRACE	0	0	0	0	0	0	13	8	18
79	9	3	8	4	TRACE	0	0	0	0	0	1	4	9
80	7	8	4	3	0	0	0	0	0	3	1	4	8
81	1	3	5	0	0	0	0	0	0	3	TRACE	3	5
82	5	8	13	7	3	0	0	0	0	1	5	5	13
83	1	2	2	1	9	0	0	0	4	0	9	15	15
84	14	6	6	3	TRACE	0	0	0	3	3	3	6	14
85	4	6	4	1	0	0	0	0	1	4	6	8	8
86	2	7	TRACE	5	0	0	0	0	0	1	4	2	7
87	1	1	12	TRACE	1	0	0	0	0	TRACE	2	2	12
88	9	4	2	2	0								9*
GREATEST	18	18	15	17	9	4	0	0	4	5	13	16	18
TOTAL OBS	1426	1300	1426	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

THE GREATEST VALUE OF 18 OCCURRED ON 01/27/69

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT

PERIOD OF RECORD: 4212-4509,4512-8805
SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
42 - 43			DEC 01			MAY 11
43 - 44			NOV 24			MAR 28
44 - 45			NOV 11			APR 17
45 - 46	JAN 06	JAN 10	DEC 08	MAY 09	APR 30	FEB 13
46 - 47	OCT 07	OCT 07	OCT 26	APR 22	APR 22	APR 04
47 - 48	SEP 17	SEP 17	SEP 18	MAY 09	MAY 09	APR 12
48 - 49	SEP 25	OCT 15	NOV 02	MAY 23	MAY 23	MAY 23
49 - 50	SEP 10	SEP 11	SEP 11	JUN 08	JUN 08	JUN 08
50 - 51	SEP 14	SEP 30	SEP 30	JUN 07	JUN 07	APR 21
51 - 52	SEP 23	SEP 26	OCT 20	APR 20	APR 07	MAR 25
52 - 53	NOV 01	NOV 15	NOV 16	MAY 12	MAY 11	MAR 21
53 - 54	NOV 17	DEC 01	DEC 02	JUN 01	MAY 01	MAY 02
54 - 55	SEP 20	SEP 28	SEP 28	MAY 27	MAY 16	MAY 16
55 - 56	SEP 09	OCT 22	NOV 11	MAY 05	MAY 04	MAY 02
56 - 57	SEP 02	OCT 26	OCT 28	APR 26	APR 25	APR 10
57 - 58	SEP 18	SEP 18	SEP 19	APR 28	APR 26	MAR 26
58 - 59	SEP 23	OCT 09	NOV 15	MAY 05	APR 24	APR 24
59 - 60	SEP 28	SEP 28	OCT 07	MAY 18	MAY 05	APR 28
60 - 61	OCT 09	NOV 03	NOV 04	MAY 07	APR 14	APR 14
61 - 62	SEP 02	SEP 29	OCT 22	MAY 07	MAR 23	MAR 23
62 - 63	SEP 02	SEP 07	NOV 21	MAY 03	APR 20	APR 17
63 - 64	NOV 06	NOV 20	NOV 21	MAY 04	APR 25	APR 07
64 - 65	SEP 10	NOV 20	NOV 25	JUN 07	MAY 06	APR 17
65 - 66	SEP 15	SEP 15	SEP 15	MAY 22	APR 28	APR 28
66 - 67	AUG 20	OCT 12	NOV 04	MAY 12	MAY 11	MAY 11
67 - 68	OCT 23	OCT 31	NOV 02	MAY 07	MAY 07	APR 21
68 - 69	SEP 20	SEP 21	SEP 21	JUN 12	JUN 12	JUN 12
69 - 70	OCT 03	OCT 11	OCT 13	MAY 19	MAY 12	APR 29
70 - 71	SEP 11	SEP 11	SEP 12	MAY 20	APR 26	APR 01

FORM NO 417

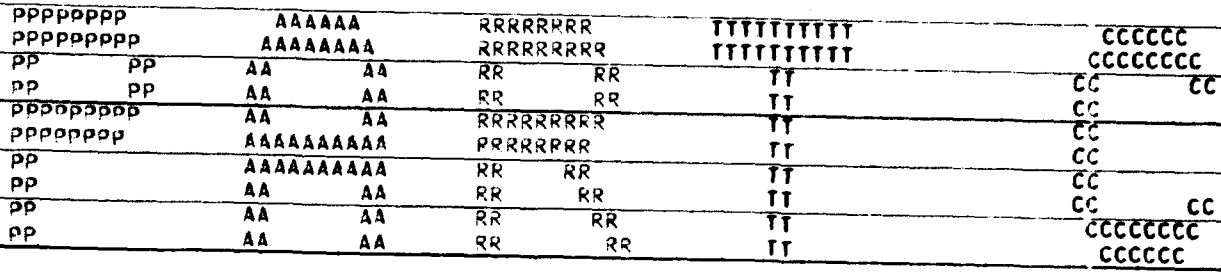
OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT

PERIOD OF RECORD: 4212-4509,4512-8805
SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
71 - 72	SEP 15	OCT 15	OCT 16	JUL 18	APR 16	MAR 29
72 - 73	SEP 24	SEP 27	OCT 11	MAY 10	APR 30	APR 23
73 - 74	SEP 14	SEP 14	NOV 01	MAY 21	APR 28	APR 28
74 - 75	SEP 10	SEP 11	DEC 12	MAY 24	APR 29	APR 15
75 - 76	OCT 07	OCT 08	OCT 14	MAY 06	APR 26	APR 26
76 - 77	OCT 17	OCT 23	NOV 26	MAY 17	MAY 17	APR 03
77 - 78	OCT 04	OCT 09	OCT 10	MAY 18	APR 18	MAR 08
78 - 79	SEP 18	NOV 08	NOV 09	JUN 07	MAY 07	APR 24
79 - 80	OCT 19	NOV 04	NOV 04	APR 11	APR 10	APR 02
80 - 81	OCT 15	OCT 15	OCT 15	JUN 09	MAR 30	MAR 31
81 - 82	OCT 11	OCT 11	OCT 12	MAY 30	MAY 29	MAY 30
82 - 83	SEP 14	OCT 17	OCT 19	MAY 10	MAY 10	MAY 13
83 - 84	SEP 17	SEP 18	SEP 19	MAY 06	APR 26	APR 26
84 - 85	SEP 22	SEP 23	SEP 23	APR 26	APR 06	APR 06
85 - 86	SEP 05	SEP 22	SEP 23	MAY 15	APR 13	APR 16
86 - 87	SEP 13	OCT 02	OCT 31	MAY 21	MAY 20	MAY 20
87 - 88	SEP 16	NOV 16	NOV 17	APR 25	APR 25	APR 25
MEDIAN-DATE	SEP 20	OCT 09	OCT 27	MAY 12	APR 29	APR 19


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PART C

SURFACE WIND SUMMARIES

PEAK WINDS.
THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA. SPEEDS ARE IN KNOTS. DIRECTIONS ARE TO 16 COMPASS POINTS FROM THE BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968, BUT IN JULY 1968, ALL STATIONS EXCEPT THOSE OF THE NATIONAL WEATHER SERVICE STARTED RECORDING DIRECTIONS IN TENS OF DEGREES. DATA IS SUMMARIZED BY MONTH FOR EACH YEAR FOR THE ENTIRE PERIOD OF RECORD AVAILABLE. GIVEN: THE GREATEST MONTHLY VALUE FOR ALL YEARS COMBINED, THE GREATEST YEARLY VALUE FOR ALL YEARS COMBINED, AND THE DATE OF THE ABSOLUTE PEAK WIND RECORDED FOR THE ENTIRE PERIOD OF RECORD. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF PEAK SPEEDS ARE AVAILABLE.

PEAK WINDS--PERCENT OCCURRENCE FREQUENCY.
ALSO FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED BY MONTH, FOR ALL YEARS COMBINED, FOR ELEVEN WIND SPEED GROUPS. THE 1-4 KNOT SPEED GROUP INCLUDES CALM WINDS. IF THE PEAK WIND IS REPORTED FOR A PARTICULAR DAY AS "CALM," THAT COUNT GOES INTO THE "1-4 KNOT" CATEGORY. TABLES INCLUDE MEANS, MEDIANS, AND TOTAL OBSERVATION COUNTS. THE VALUES IN THIS SUMMARY ACCOUNT FOR A PEAK WIND BEING RECORDED FOR EACH DAY OF EACH MONTH.

WIND DIRECTION VS WIND SPEED--PERCENT OCCURRENCE FREQUENCY.
THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS. THEY SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).

- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).

- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

THESE TABLES GIVE A BIVARIATE DISTRIBUTION OF THE PERCENT OCCURRENCE FREQUENCY (POF) FOR ELEVEN WIND SPEED GROUPS VERSUS TWELVE WIND DIRECTION SECTORS GIVEN IN 30 DEGREE INCREMENTS. "CALM" AND "VARIABLE" WINDS ARE GIVEN SEPARATELY. CARDINAL WIND DIRECTIONS (N,E,S,W) APPEAR FOR REFERENCE. TOTAL PERCENTAGES, MEANS, AND MEDIANS FOR EACH SECTOR, ALONG WITH TOTAL OBSERVATION COUNTS, ARE PRINTED BELOW EACH SUMMARY.

ALSO PROVIDED: A BIVARIATE DISTRIBUTION OF WIND DIRECTION VERSUS WIND SPEED FOR SPECIFIED CEILING/VISIBILITY CONDITIONS. THESE CONDITIONS ARE:

WHEN THE VISIBILITY IS GREATER THAN OR EQUAL TO 1/2 MILES (0800 METERS) THE CEILING MUST BE GREATER THAN OR EQUAL TO 200 FEET BUT LESS THAN 1500 FEET. IF THIS CONDITION IS NOT MET, THEN THE FOLLOWING CONDITION IS TESTED: WHEN THE CEILING IS GREATER THAN OR EQUAL TO 200 FEET, THE VISIBILITY MUST BE GREATER THAN OR EQUAL TO 1/2 (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS).

CONVERSION: 1 KNOT = .514791 METERS PER SECOND

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4708-5401,5711-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
47								WSW 54	WSW 50	SW 45	SW 35	*	WSW*54
48	*	W 61	S 59	SW 43	SW 49	W 37	W 56	SSW 43	SW 45	SSW 45	SSW 49	SSW 54	W *61
49	SW 50	WSW 57	WSW 46	SSW 47	WNW 39	SSW 45	WSW*43	SSW 61	SW 57	WNW 62	WSW 63	W 52	WSW*63
50	WSW 49	WNW 45	WSW 54	WSW 63	W 44	WSW 43	W 50	WSW 44	WSW 42	WSW 50	WSW 49	SW 43	WSW 63
51	W 46	WSW 49	WNW 52	NNW 36	WNW 55	NNE 42	SW 54	WSW 30	WSW 33	S 47	W 48	SW 40	WNW 55
52	WSW 44	WSW 50	WNW 43	WSW*36	W *41	W 51	NW 58	WNW 43	WSW 41	WSW 43	W 44	WSW 47	NW *58
53	SSW 52	W 48	WSW 49	WSW 42	WSW 53	WNW 39	W 38	WSW 60	W 46	WNW 35	W 43	W 57	WSW 60
54	SW *50												SW *50
57											W 51	WSW 41	W *51
58	SSW 38	SSW 36	WNW 37	WSW 40	W 32	WSW 53	NW 35	W 45	WSW 52	W 40	W 42	WSW 46	WSW 53
59	W 38	SW 39	W 40	WSW 41	W 38	WSW 34	W 33	WNW 40	WSW 48	WSW 35	WSW 37	SSW 40	WSW 48
60	SW 38	W 46	WSW 37	WSW 40	WSW 44	WSW 41	WSW 50	N 35	WSW 49	W 38	NW 42	SW 34	WSW 50
61	WSW 43	SW 48	WSW 52	WSW 41	WNW 41	N 40	WNW 42	WSW*38	W *43	WNW*41	WSW*45	SW 54	SW *54
62	SW 46	SW 43	SW 38	W 50	SW 48	SW 37	N 39	SW 41	W 44	WSW 40	SW 62	NW 46	SW 62
63	NNW 51	W 45	S 42	SW 37	W 36	W 49	SW 50	W 43	NW *35	W *40	WSW*44	W *49	NNW*51
64	SW 44	W 41	WSW 42	NNW 42	WSW 40	W 43	WSW 52	SSW 44	NW 42	W 42	SSW 39	SW 43	WSW 52
65	WSW 43	WSW 53	NNW 31	W 39	SSW 44	WNW 39	SW 42	W 39	WSW 34	W 53	WSW 39	WSW 50	WSW 53
66	W 54	WSW 43	WSW 39	WSW 41	SSW 45	S 35	SW 40	WSW 41	WSW 47	W 44	SSW 58	SSW 45	SSW 58
67	S 54	WSW 51	NNE 46	WSW 43	W 59	W 32	W 50	E 42	WSW 41	W 60	WSW 49	SW 45	W 60
68	SW 48	SW 36	WSW 42	WSW 48	W 39	WSW 47	34/*50	22/*54	27/ 38	26/ 39	26/ 43	21/ 50	22/*54
69	21/ 33	22/ 38	24/ 38	24/ 43	30/ 39	04/ 33	28/ 41	25/ 50	25/*41	22/*36	*	21/*37	25/*50
70	24/ 50	28/ 54	24/ 44	26/ 48	24/ 34	26/ 78	24/ 48	28/ 40	24/ 50	23/ 41	25/ 46	24/ 46	26/ 78
71	25/ 46	24/ 45	27/ 44	05/ 49	26/ 45	26/ 36	28/ 38	24/ 49	36/ 42	29/ 50	30/ 49	25/ 44	29/ 50
72	26/ 50	24/ 55	25/ 50	25/ 40	22/ 37	30/ 39	27/ 54	32/ 30	25/ 31	24/ 35	22/ 48	25/ 55	24/ 55
73	25/ 38	24/ 31	26/ 43	28/ 40	26/ 48	13/ 53	26/ 42	30/ 62	25/ 35	25/ 44	25/ 40	23/ 44	30/ 62
74	27/ 53	27/ 40	25/ 54	28/ 40	26/ 42	02/ 36	29/ 44	29/ 32	25/ 36	28/ 39	24/ 44	24/ 54	25/ 54
75	24/ 43	24/ 36	24/ 40	35/ 31	26/ 35	24/ 33	24/ 50	24/ 41	28/ 35	27/ 45	25/ 51	23/ 46	25/ 51
76	24/ 48	24/ 50	25/ 45	36/ 39	2?/ 41	27/ 54	22/ 47	25/ 37	32/ 32	23/ 38	23/ 42	23/ 45	27/ 54
77	23/ 41	25/ 44	25/ 45	20/ 36	26/ 35	27/ 39	22/ 44	02/ 46	33/ 32	23/ 39	22/ 48	24/ 43	22/ 48
78	23/ 32	23/ 34	24/ 39	25/ 56	26/ 37	23/ 50	34/ 45	26/ 50	24/ 47	24/ 50	25/ 69	23/ 51	25/ 69
79	23/ 34	23/ 44	26/ 42	31/ 38	26/ 40	25/ 46	24/ 40	28/ 34	25/ 37	25/ 32	33/ 29	23/ 51	23/ 51
80	21/ 46	24/ 34	26/ 40	25/ 34	10/ 35	27/ 52	23/ 38	26/ 44	22/ 42	24/ 34	24/ 42	24/ 48	27/ 52

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4708-5401,5711-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
81	24/ 28	25/ 49	34/ 36	28/ 44	27/ 48	33/ 40	32/ 46	22/ 67	25/ 36	23/ 42	28/ 48	25/ 48	22/ 67
82	29/ 41	24/ 37	27/ 47	25/ 36	32/ 40	31/ 38	24/ 36	21/ 48	27/ 33	24/ 36	22/ 30	22/ 52	22/ 52
83	26/ 59	23/ 44	29/ 36	32/ 40	25/ 33	26/ 41	28/ 50	23/ 60	24/ 38	24/ 37	31/ 43	23/ 42	23/ 60
84	23/ 48	24/ 40	29/ 31	27/ 37	29/ 48	26/ 41	24/ 32	27/ 60	24/ 46	24/ 43	21/ 38	21/ 44	27/ 60
85	27/ 41	29/ 44	25/ 35	26/ 44	29/ 48	35/ 54	34/ 37	25/ 40	35/ 40	25/ 40	23/ 32	24/ 40	35/ 54
86	23/ 39	22/ 31	24/ 43	28/ 36	27/ 44	27/ 40	24/ 44	29/ 32	24/ 32	35/ 31	24/ 50	25/ 43	24/ 50
87	25/ 37	25/ 47	33/ 39	25/ 44	30/ 45	21/ 46	28/ 35	25/ 37	23/ 36	25/ 36	23/ 32	23/ 46	25/ 47
88	23/ 48	26/ 53	27/ 40	26/ 47	26/ 44								26/*53
GREATEST	26/ 59 W	61 S	59 WSW	63 W	59	26/ 78 NW	58	22/ 67 SW	57	WNW 62	25/ 69 W	57	26/ 78
TOTAL OBS	1133	1041	1143	1099	1135	1080	1089	1119	1078	1116	1086	1126	13244

THE PEAK WIND OF 78 FROM 26/ OCCURRED ON 06/27/70

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH
$THE VALUE IS 100 OR GREATER WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY PEAK WINDS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4708-5401,5711-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

	WIND SPEEDS IN KNOTS													
MONTH	CALM-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	MEAN WIND	MEDIAN WIND	TOTAL OBS
JAN	.3	8.5	15.4	12.4	18.4	15.0	13.1	8.4	7.8	1.0	.0	23.7	23.0	1133
FEB	.4	7.3	16.2	16.7	15.9	16.5	12.2	7.2	6.2	1.2	.0	23.1	22.0	1041
MAR	.2	5.2	17.1	17.3	19.3	16.7	11.8	7.9	3.7	.7	.0	22.7	22.0	1143
APR	.0	1.5	9.7	18.5	26.8	17.5	14.0	7.4	4.5	.3	.0	24.2	23.0	1098
MAY	.0	.8	10.7	21.0	25.1	17.7	13.6	6.4	4.3	.4	.0	23.9	23.0	1135
JUN	.0	.8	13.4	23.1	25.0	17.3	10.7	5.3	3.4	.7	.1	23.1	22.0	1080
JUL	.0	1.1	15.1	27.3	22.5	14.0	10.7	5.1	3.2	1.2	.0	22.5	21.0	1089
AUG	.0	.5	16.2	24.2	25.0	14.7	9.9	4.6	3.8	.9	.1	22.5	21.0	1119
SEP	.0	3.5	19.4	23.3	21.8	14.2	10.1	4.6	2.7	.4	.0	21.4	20.0	1078
OCT	.1	3.6	16.8	18.3	20.1	17.4	12.5	6.5	4.0	.9	.0	23.0	22.0	1116
NOV	.3	6.5	14.5	14.2	19.0	15.7	15.4	8.1	5.4	.9	.1	23.8	23.0	1086
DEC	.0	6.2	14.7	14.6	14.7	16.8	12.4	10.3	9.0	1.3	.0	24.8	24.0	1126
ANNUAL	.1	3.8	14.9	19.2	21.1	16.1	12.2	6.8	4.8	.8	.0	23.2	22.0	13244

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	1.2	.4									2.6	6.0	6.0
020-040	2.6	3.1	.4									6.1	5.2	6.0
050-070	1.3	1.2										2.5	4.4	4.0
(E) 080-100	.1											.1	1.0	1.0
110-130	.4											.4	3.0	3.0
140-160	.6	.1										.8	3.0	3.0
(S) 170-190	2.6	.9	.5	.2								4.2	5.3	4.0
200-220	3.8	6.0	5.2	2.0	1.0	.1						18.1	9.5	8.0
230-250	4.6	11.2	11.2	8.8	3.1	.5	.1					39.6	11.5	11.0
(W) 260-280	2.0	3.3	1.1	1.1	.2	.2						8.0	8.6	7.0
290-310	.6	1.3	.1									2.0	5.6	5.0
320-340	1.1	1.2	.4	.3								3.0	7.0	5.5
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	12.7	//////////	//////////
TOTALS	20.7	29.5	19.3	12.4	4.3	.8	.1					100.0	8.1	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	1.2	.5	.1								2.5	6.8	6.0
020-040	3.1	2.0	.9									6.0	5.6	4.0
050-070	1.4	.9										2.3	4.2	4.0
(E) 080-100	.3											.3	2.7	3.0
110-130	.6	.2										.9	2.9	2.5
140-160	.4											.4	2.5	2.5
(S) 170-190	1.4	.8	.3									2.5	4.9	4.0
200-220	3.8	6.8	5.5	2.8	1.2	.3						20.3	10.0	9.0
230-250	4.6	10.9	11.7	6.7	2.8	1.0						37.6	11.3	11.0
(W) 260-280	1.5	3.9	2.5	1.1	.3							9.4	9.1	8.0
290-310	1.7	1.4	.2	.1								3.4	5.5	4.5
320-340	1.1	.4	.4									1.9	5.4	4.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	12.5	////	////
TOTALS	20.6	28.5	22.0	10.8	4.3	1.3						100.0	8.2	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	1.2	.8									2.6	7.4	7.5
020-040	1.7	3.0	.6									5.4	6.0	6.0
050-070	1.4	.3	.1									1.8	4.1	3.0
(E) 080-100	.4	.1										.5	2.4	2.0
110-130	.1			.1								.2	9.5	9.5
140-160	.4											.4	2.3	2.0
(S) 170-190	1.2	.6	.3	.3								2.5	6.5	5.0
200-220	3.3	6.0	6.0	3.7	.4	.3	.1					20.3	10.1	10.0
230-250	4.8	10.1	10.1	6.9	3.0	.8						35.7	11.3	11.0
(W) 260-280	3.3	5.2	2.0	1.2	.6							12.4	8.4	8.0
290-310	.9	1.4	.6									2.9	6.3	6.0
320-340	1.3	1.1	.8									3.1	6.3	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	12.2	//////////	
TOTALS	19.9	29.0	21.3	12.2	4.0	1.1	.1					100.0	8.3	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.3	.3	.1	.1							3.0	6.2	5.0
020-040	2.3	3.3	.4	.2	.1							6.3	6.1	6.0
050-070	1.3	1.3										2.6	4.7	4.5
(E) 080-100	.3	.1										.4	3.0	2.5
110-130	.1											.1	1.0	1.0
140-160	.8											.8	2.0	2.0
(S) 170-190	1.4	.8	.4									2.6	5.3	4.0
200-220	2.9	3.3	4.9	3.7	1.4	.2	.1					16.6	11.3	11.0
230-250	3.5	9.0	12.3	7.8	4.6	.5						36.8	12.4	12.0
(W) 260-280	2.5	3.4	2.7	1.7	1.1	.2						11.6	10.3	9.0
290-310	1.3	1.5	.8	.4	.1							4.1	7.9	6.0
320-340	1.6	1.4	.5	.2								3.8	6.5	5.0
VARIABLE														
CALM	//////////////

FORM NO 1-1

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.4	.4	.4								3.4	6.8	5.0
020-040	2.8	3.8	.5	.1								7.2	5.7	5.0
050-070	1.6	1.7	.2	.1								3.7	4.7	5.0
(E) 080-100	.5	.1										.6	3.2	2.5
110-130	.4	.1	.1									.6	4.3	3.5
140-160	.3	.1										.4	3.3	2.0
(S) 170-190	.6	.3										1.0	4.1	4.0
200-220	1.1	1.3	4.2	2.2	2.0	.6						11.4	14.1	14.0
230-250	2.2	6.5	11.9	11.5	5.8	1.1	.4					39.4	14.1	14.0
(W) 260-280	1.5	3.7	3.7	2.5	1.3	.1						12.7	11.4	12.0
290-310	1.2	2.4	1.0	.3	.1							4.9	7.7	7.0
320-340	1.3	2.4	2.0	.3	.1							6.1	8.4	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	8.5	//////////	
TOTALS	14.7	23.8	24.0	17.4	9.3	1.8	.4					100.0	10.4	11.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 15-17

	DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N)	350-010	1.7	2.3	.9	.2								5.1	6.3	6.0
	020-040	4.3	3.9	.9	.2								9.2	5.9	5.0
	050-070	1.6	1.9	.4									4.0	5.5	5.0
(E)	080-100	.9											.9	2.3	2.0
	110-130		.1										.1	5.0	5.0
	140-160	.9											.9	2.3	2.0
(S)	170-190	.5	.6		.1								1.4	5.6	5.0
	200-220	2.4	4.7	4.7	2.3	1.3	.2						15.6	10.8	10.0
	230-250	2.4	8.6	11.1	7.0	4.3	1.5	.1					34.9	13.0	12.0
(W)	260-280	.6	3.9	3.0	1.3	1.3	.2						10.3	11.5	11.0
	290-310	1.2	1.0	.3	.3	.1							2.9	7.5	6.0
	320-340	1.3	1.9	1.6	.3	.1							5.3	8.6	8.0
	VARIABLE														
	CALM	////	////	////	////	////	////	////	////	////	////	////	9.5	////	////
	TOTALS	17.9	28.9	22.9	11.7	7.1	1.9	.1					100.0	9.3	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	1.5	.5	.4								4.1	6.9	6.0
020-040	2.6	2.4	.6									5.6	5.3	5.0
050-070	1.4	1.1	.1									2.6	4.4	4.0
(E) 080-100	.1											.1	1.0	1.0
110-130	.2											.2	2.0	2.0
140-160	.9	.9	.2									1.9	4.7	5.0
(S) 170-190	2.5	2.5	.4		.1							5.5	5.7	5.0
200-220	3.3	8.3	5.7	2.6	.8	.5						21.2	9.8	9.0
230-250	2.4	9.6	8.8	6.8	3.2	1.0	.1	.1				31.9	12.4	12.0
(W) 260-280	1.6	2.8	1.0	.9	.5	.1						6.9	9.2	8.0
290-310	1.2	.5	.4	.3								2.5	6.9	5.0
320-340	1.1	.8	.5	.4								2.8	7.5	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	14.7	//////////	
TOTALS	18.9	30.4	18.2	11.4	4.6	1.6	.1	.1				100.0	8.1	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.8	.8	.3								4.3	7.1	7.5
020-040	2.9	1.9	.4									5.3	5.1	4.0
050-070	1.8	.5										2.4	3.5	3.0
(E) 080-100	.6											.6	1.8	1.5
110-130	.5											.5	2.2	2.0
140-160	1.4	.1										1.5	2.1	2.0
(S) 170-190	1.7	1.8	.4									4.0	5.4	5.0
200-220	5.5	8.9	4.4	2.2	1.2	.2						22.4	8.8	8.0
230-250	3.2	11.6	9.5	7.2	3.2	.5						35.3	11.5	11.0
(W) 260-280	1.5	2.5	1.2	1.0	.4				.1			6.7	9.7	7.0
290-310	1.3	1.3	.4	.1	.1							2.9	7.3	6.0
320-340	.9	.5	1.1		.1							2.6	7.6	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.6	////	////
TOTALS	22.4	30.9	18.2	10.8	5.0	.7			.1			100.0	8.0	8.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 4.3

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.5	.6	.2	.0							3.4	6.7	6.0
020-040	2.8	2.9	.6	.1	.0							6.4	5.6	5.0
050-070	1.5	1.1	.1	.0								2.7	4.5	4.0
(E) 080-100	.4	.0										.5	2.4	2.0
110-130	.3	.1	.0	.0								.4	3.5	2.0
140-160	.7	.1	.0									.9	3.0	2.0
(S) 170-190	1.5	1.0	.3	.1	.0							2.9	5.5	4.0
200-220	3.3	5.7	5.1	2.7	1.2	.3	.0					18.2	10.3	10.0
230-250	3.5	9.5	10.8	7.8	3.9	.9	.1	.0				36.4	12.2	12.0
(W) 260-280	1.3	3.6	2.1	1.3	.7	.1			.0			9.7	9.9	8.0
290-310	1.1	1.3	.5	.2	.1							3.2	7.0	6.0
320-340	1.2	1.2	.3	.2	.0							3.6	7.4	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.6	////	////
TOTALS	19.3	29.0	21.0	12.6	5.8	1.3	.1					100.0	8.7	9.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	6.1	1.8	1.0								11.8	7.3	6.0
020-040	7.9	10.4	4.9	.4								23.6	6.7	6.0
050-070	2.9	4.1	.6	.2								7.7	6.0	6.0
(E) 080-100	.4											.4	2.5	2.5
110-130	.2											.2	2.0	2.0
140-160	.2											.2	3.0	3.0
(S) 170-190														
200-220	2.4	.6	.2									3.3	4.0	4.0
230-250	2.2	2.8	.6	.8	.4							6.9	7.9	6.0
(W) 260-280	1.6	2.4	.2									4.3	5.1	5.0
290-310	3.5	3.0	1.2	.6								8.3	6.3	5.0
320-340	4.3	5.9	4.5	1.4	.2							16.3	8.4	8.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	1.1	.8									2.8	6.5	6.0
020-040	3.2	2.8	1.2									7.2	5.5	5.0
050-070	1.6	.7	.2									2.6	4.8	4.0
(E) 080-100	.5											.5	2.8	2.5
110-130	.7											.7	2.0	2.0
140-160	.5	.7										1.2	4.7	5.0
(S) 170-190	2.2	1.2	.4	.4	.1							4.2	6.1	4.0
200-220	4.4	8.0	6.6	1.8	1.1							21.8	9.1	8.0
230-250	4.9	12.2	9.1	5.1	.8	.5						32.6	9.8	9.0
(W) 260-280	1.8	3.4	2.0	.5								7.7	7.7	6.0
290-310	.6	1.1	.1	.2								2.0	7.5	7.0
320-340	1.1	.9	.5	.1								2.6	6.4	5.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	14.1	////	////
TOTALS	22.4	32.1	20.9	9.1	2.0	.5						100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	1.5	.1									2.9	5.2	5.0
020-040	2.5	3.2	1.2	.6	.4							7.8	7.6	6.0
050-070	1.3	.6	.5									2.4	5.6	4.0
(E) 080-100	.4											.4	1.3	1.0
110-130	.1											.1	2.0	2.0
140-160	.6	.1										.7	3.3	3.0
(S) 170-190	2.1	1.6	.1	.1								4.0	4.8	4.0
200-220	4.0	9.2	4.5	2.4	.7	.2						21.0	8.9	8.0
230-250	4.4	10.1	8.2	5.5	1.9	.5	.1	.1				30.9	10.8	10.0
(W) 260-280	2.4	3.3	2.0	.6	.4							8.6	8.0	7.0
290-310	.8	1.8	.2									2.8	6.3	7.0
320-340	1.9	.8	.2									2.8	4.9	4.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	15.7	////	////
TOTALS	21.7	32.2	17.0	9.2	3.4	.7	.1	.1				100.0	7.3	8.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	1.4	.4									3.1	5.5	6.0
020-040	2.5	2.6	1.8	.4								7.2	7.0	6.0
050-070	1.5	.5										2.0	3.4	3.0
(E) 080-100	.5											.5	2.0	1.5
110-130														
140-160	.6	.1										.7	2.8	3.0
(S) 170-190	2.2	.9	.4	.1								3.7	4.9	3.0
200-220	4.4	6.5	7.3	1.3	.5	.1	.1	.1				20.3	9.1	8.0
230-250	5.3	10.7	10.0	5.1	2.0	.4						33.5	10.3	10.0
(W) 260-280	2.7	2.6	.9	.5	.4							7.1	7.3	6.0
290-310	1.4	1.2	.5	.1								3.2	5.9	5.0
320-340	2.4	.9	.2	.2								3.8	5.0	4.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	15.2	//////////	
TOTALS	24.8	27.4	21.5	7.7	2.9	.5	.1	.1				100.0	7.1	8.0

TOTAL NUMBER OF OBSERVATIONS 949

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	1.5	.5	.2								4.1	6.0	6.0
020-040	3.3	2.8	1.4	.9	.1							8.6	7.3	6.0
050-070	2.8	1.2		.1								4.1	4.1	4.0
(E) 080-100	.7											.7	1.8	1.5
110-130	.4	.1										.5	3.3	2.0
140-160	.9	.1	.1									1.2	4.0	3.5
(S) 170-190	1.3	.4	.4	.1								2.1	5.6	4.0
200-220	2.8	4.7	6.2	3.4	1.6							18.8	11.0	10.0
230-250	2.6	6.9	9.0	10.0	3.7	.6		.1				32.9	13.0	14.0
(W) 260-280	1.8	2.2	1.5	.9	1.4	.1						8.0	10.9	9.5
290-310	1.3	1.5	.5	.4								3.7	6.7	6.0
320-340	1.5	1.2	.2	.6								3.5	6.5	5.5
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.8	//////////	
TOTALS	21.3	22.6	19.8	16.6	6.8	.7		.1				100.0	8.9	10.0

TOTAL NUMBER OF OBSERVATIONS 649

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	2.0	.8	.1								5.2	5.9	6.0
020-040	4.1	4.0	1.6	.6								10.4	6.5	6.0
050-070	3.7	3.1	.2	.1								7.1	5.0	4.0
(E) 080-100	1.3	.4										1.6	3.4	2.5
110-130	.9	.1										1.1	2.4	2.0
140-160	.6	.1										.7	3.2	2.5
(S) 170-190	1.2	.4	.1									1.6	4.0	2.5
200-220	1.5	1.9	5.1	4.5	1.3	.4	.2					14.8	13.2	14.0
230-250	.8	2.8	8.8	9.8	6.8	1.8	.2					31.1	15.9	16.0
(W) 260-280	.9	2.2	3.2	2.1	1.3	.2	.4					10.4	13.0	12.0
290-310	1.5	1.8	.9	.4	.2	.1						4.9	8.1	6.5
320-340	.8	1.9	.8	.4	.1	.1						4.1	8.5	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	6.9	////	////
TOTALS	19.5	20.7	21.5	18.0	9.7	2.6	.8					100.0	10.5	10.0

TOTAL NUMBER OF OBSERVATIONS 349

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	2.4	.6	.4								4.9	7.0	6.0
020-040	3.7	4.6	1.9									10.1	6.0	6.0
050-070	3.9	2.9	.5	.4								7.7	5.4	4.0
(E) 080-100	3.3	.4										3.7	3.3	4.0
110-130	.7	.2	.2									1.2	5.0	3.0
140-160	.5	.8										1.4	4.9	6.0
(S) 170-190	.9	.6	.1									1.6	4.4	4.0
200-220	1.3	4.6	4.8	2.7	.7	.2						14.4	11.0	10.5
230-250	1.2	3.8	11.5	7.9	4.2	1.4	.2					30.3	14.4	14.0
(W) 260-280	.7	1.2	3.2	2.5	1.2	.1			.1			9.0	13.6	14.0
290-310	.3	1.1	.3	.6	.2	.2						3.8	10.5	9.0
320-340	1.2	1.6	.9	.1								3.9	6.8	7.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	1.2	.7	.2								3.7	6.3	5.0
020-040	4.2	5.4	2.0	.1	.1							11.9	6.4	6.0
050-070	2.6	2.1	.1	.1								4.9	4.6	4.0
(E) 080-100	.7											.7	2.2	2.0
110-130	.7	.2	.1	.1								1.2	5.9	4.0
140-160	1.4	.5										1.9	3.7	3.0
(S) 170-190	3.2	2.4	.5									6.0	4.8	4.0
200-220	2.7	9.7	4.6	1.3	.7							19.0	8.6	8.0
230-250	2.0	6.1	9.1	5.7	2.8	.5	.1					26.3	12.5	12.0
(W) 260-290	.5	2.0	3.4	1.1	.1	.1						7.2	11.0	10.0
290-310	.3	1.3	.2		.2							2.6	7.3	6.0
320-340	.6	1.6	1.1		.1							3.4	8.0	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.3	////	////
TOTALS	20.9	32.5	21.8	9.6	4.0	.6	.1					100.0	7.8	8.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.3	.1	.2								3.1	5.9	5.0
020-040	4.7	3.9	1.2	.2	.1							10.1	5.8	5.0
050-070	2.1	.8	.2									3.2	4.4	4.0
(E) 080-100	.4											.4	2.0	2.0
110-130	.7		.1									.8	3.7	3.0
140-160	1.4	.2	.2									1.9	4.0	3.5
(S) 170-190	2.7	3.5	.1		.1							6.5	5.3	5.0
200-220	3.9	9.1	4.4	2.7	.7	.1						20.8	8.9	7.0
230-250	3.7	10.2	9.5	4.5	1.5	.2	.2					29.9	10.5	10.0
(W) 260-280	1.3	2.7	2.0	.4	.4							6.7	8.8	7.0
290-310	.5	1.3	.2									2.0	6.5	7.0
320-340	1.2	1.6	.4	.1								3.3	5.2	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.3	////	////
TOTALS	24.0	34.6	18.4	8.1	2.8	.3	.2					100.0	7.3	7.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	1.5	.5	.1								3.7	6.1	6.0
020-040	3.5	3.7	1.5	.4	.1							9.2	6.5	6.0
050-070	2.4	1.5	.2	.1								4.2	4.8	4.0
(E) 080-100	1.0	.1										1.0	2.9	2.0
110-130	.5	.1	.1	.0								.7	3.9	2.0
140-160	.3	.3	.0									1.2	4.0	3.0
(S) 170-190	2.0	1.4	.3	.1	.0							3.7	5.1	4.0
200-220	3.1	6.7	5.4	2.5	.9	.1	.0	.0				18.9	9.8	9.0
230-250	3.1	7.9	9.4	6.7	3.0	.7	.1	.0				30.9	12.1	12.0
(W) 260-280	1.5	2.5	2.3	1.1	.6	.1	.0		.0			8.1	10.2	10.0
290-310	1.0	1.4	.4	.2	.1	.0						3.1	7.5	7.0
320-340	1.3	1.3	.5	.2	.0	.0						3.4	6.6	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.8	////	////
TOTALS	21.7	28.4	20.6	11.4	4.7	.9	.1					100.0	8.2	8.0

TOTAL NUMBER OF OBSERVATIONS 6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	6.7	3.9	1.0								13.6	8.2	7.0
020-040	7.5	12.6	6.7	1.8	1.0							29.6	7.9	6.0
050-070	3.9	3.0	1.4	.4								8.7	6.1	5.0
(E) 080-100	2.2											2.2	2.7	2.0
110-130	.4											.4	1.5	1.5
140-160	.4	.2										.6	3.0	2.0
(S) 170-190	1.4	.2	.2									1.8	3.4	2.0
200-220	2.4	.6			.2	.2						3.4	6.1	3.0
230-250	2.2	2.8	.4	1.0	.6							6.9	8.5	7.0
(W) 260-280	1.0	1.2	1.2	.2								3.6	7.4	6.0
290-310	1.4	1.6	.4	.2								3.6	6.3	6.5
320-340	4.1	4.3	2.4	1.2	.2							12.2	7.6	7.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	2.5	1.4	.1								5.6	6.9	6.5
020-040	3.1	2.3	1.4	.6								7.4	6.8	6.0
050-070	1.8	.5	.2									2.6	4.3	4.0
(E) 080-100	.3											.3	3.0	3.0
110-130	.4	.3		.1								.9	5.4	4.0
140-160	1.9	.1		.1								2.2	3.6	3.0
(S) 170-190	2.8	1.7	.2	.2								4.9	4.7	4.0
200-220	6.8	10.4	2.0	.6								19.9	6.3	6.0
230-250	4.5	11.6	8.6	2.7	.8	.1						28.3	9.1	8.0
(W) 260-280	2.7	3.7	1.5	.8	.3							8.9	8.0	7.0
290-310	1.4	1.1	.3		.3							3.1	6.8	5.0
320-340	.8	1.7	.5	.3								3.3	7.8	8.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	1.3	1.2	.8								4.5	8.5	7.5
020-040	3.0	3.1	.9	.5								7.5	6.3	6.0
050-070	2.4	.5										2.9	3.1	3.0
(E) 080-100	.6	.2										.9	3.8	4.0
110-130	.8											.8	1.9	2.0
140-160	1.1	.3	.1									1.5	3.7	2.5
(S) 170-190	2.5	1.2	.2									3.9	4.2	4.0
200-220	6.8	8.0	3.7	.8								19.1	6.7	6.0
230-250	6.5	9.6	8.5	3.2	.9							28.6	9.0	8.0
(W) 260-280	1.2	4.1	1.9	.9								8.1	8.5	8.0
290-310	1.1	1.0	.9	.2								3.1	7.2	7.0
320-340	1.4	2.3	1.2	.1	.1							5.1	7.2	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	14.1	////	////
TOTALS	29.7	31.6	18.6	6.5	1.0							100.0	6.4	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	3.2	.6	.6								5.7	7.5	6.0
020-040	3.7	2.8	.5	.9								7.8	6.2	5.0
050-070	2.5	.6										3.1	3.4	4.0
(E) 080-100	1.1											1.1	2.5	3.0
110-130	.5	.1										.6	3.0	2.0
140-160	.9	.1										1.0	2.2	2.0
(S) 170-190	1.9	1.2		.1								3.2	4.4	4.0
200-220	4.9	5.7	4.3	1.0								15.9	7.5	7.0
230-250	5.2	9.8	10.8	3.3	.5	.2						29.8	9.5	9.0
(W) 260-280	1.9	3.9	2.4	.2	.6	.1						9.1	8.7	8.0
290-310	1.4	.6	.4	.1								2.6	5.7	4.0
320-340	1.4	1.4	.8		.2							3.8	6.8	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	16.2	////	////
TOTALS	26.6	29.4	19.8	6.2	1.3	.3						100.0	6.4	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	2.0	1.2	.2								5.4	6.7	6.0
020-040	4.9	3.3	.8	.3								9.4	5.3	4.0
050-070	3.8	1.8										5.6	3.6	4.0
(E) 080-100	1.4	.3										1.7	2.8	3.0
110-130	.9	.1										1.0	2.7	2.0
140-160	1.2	.5										1.7	3.9	4.0
(S) 170-190	.2	.4	.1									.8	6.0	6.0
200-220	1.4	1.7	3.3	2.5	.8	.2						9.9	12.1	12.0
230-250	2.3	4.6	10.0	8.4	4.9	.5						30.8	13.4	14.0
(W) 260-280	1.8	3.8	3.1	2.5	1.2	.5	.1					13.0	11.7	12.0
290-310	3.1	2.7	.9	.3								7.0	6.0	5.0
320-340	1.5	2.7	.9	.3	.2							5.6	7.6	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	8.3	//////////	
TOTALS	24.4	23.9	20.3	14.5	7.1	1.2	.1					100.0	8.9	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	4.0	2.2	.8								8.7	7.9	8.0
020-040	3.8	5.2	2.4	.6								11.9	6.8	6.0
050-070	3.3	1.7	.3									5.4	4.5	4.0
(E) 080-100	.9	.8	.1									1.7	5.3	4.5
110-130	.2	.6	.1									1.0	6.1	6.0
140-160	.8	.2										1.0	3.4	4.0
(S) 170-190	1.3	.6	.1	.1								2.2	5.2	4.0
200-220	.5	1.7	1.8	1.8	.5							6.5	11.9	12.0
230-250	1.1	3.4	8.0	8.4	4.5	.8	.1					26.2	14.6	15.0
(W) 260-280	1.9	3.4	3.4	3.2	2.5	.8	.1					15.4	12.9	14.0
290-310	1.7	3.9	1.3	.3	.4							7.6	7.8	6.0
320-340	2.0	2.8	2.2	.5	.2	.3						8.1	9.1	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	4.4	////	////
TOTALS	19.3	29.3	21.9	15.7	8.1	1.9	.2					100.0	9.9	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	2.8	2.3	.8	.5							9.0	8.7	8.0
020-040	2.9	7.0	3.2	.4	.2							13.8	7.5	7.0
050-070	4.6	3.0	1.0	.2								8.8	5.5	4.0
(E) 080-100	1.4	.5										1.9	3.8	3.5
110-130	1.2	.5	.2									1.9	5.1	4.0
140-160	.6	.5	.2	.1								1.5	6.2	6.0
(S) 170-190	1.1	.5	.3	.1								2.0	5.9	4.0
200-220	1.0	3.0	3.1	1.1	.3	.1						8.6	10.2	10.0
230-250	.6	3.4	7.0	5.1	3.0	.3	.1					20.0	14.2	14.0
(W) 260-280	1.1	2.2	2.9	3.5	2.8	.5						13.0	14.4	15.0
290-310	1.4	2.4	1.3	.5	.4							6.0	8.9	8.0
320-340	2.3	3.8	1.7	.8	.2	.2						8.9	8.5	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	4.4	//////////	//////////
TOTALS	20.9	29.6	23.2	12.6	7.4	1.6	.1					100.0	9.6	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	2.6	.6	.4	.1							5.8	6.9	6.0
020-040	4.7	6.3	2.5	1.0	.2							14.7	7.2	6.0
050-070	2.7	2.7	.8	.1								6.2	5.6	5.0
(E) 080-100	1.6	.9										2.5	3.4	2.0
110-130	.6	1.2	.2									2.0	5.8	6.0
140-160	2.0	.5	.5									3.1	4.9	4.0
(S) 170-190	2.3	2.5	.3									5.1	5.3	5.0
200-220	2.2	5.9	2.2	.2								10.4	7.1	7.0
230-250	1.3	7.3	6.5	3.4	1.4							19.9	10.8	10.0
(W) 260-280	.9	3.3	2.4	1.0	.6	.1						8.2	10.6	9.5
290-310	1.4	2.6	.5	.9	.1	.1						5.6	8.6	7.0
320-340	1.6	2.0	.9	.4	.2							5.2	7.5	6.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.3	////	////
TOTALS	23.2	37.8	17.4	7.4	2.6	.2						100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.5	2.2	.2								5.3	7.9	7.0
020-040	2.8	3.2	1.7	.5	.4							8.7	7.6	6.0
050-070	2.0	1.2	.1	.2	.1							3.7	5.2	4.0
(E) 080-100	.4	.1	.1									.6	4.7	3.0
110-130	.5	1.0										1.5	5.2	5.0
140-160	1.9	1.3	.3									3.5	5.2	4.0
(S) 170-190	4.6	4.0										8.6	4.4	4.0
200-220	4.7	9.4	2.8	.2								17.1	6.5	6.0
230-250	2.5	11.4	8.4	1.7	.4							24.4	9.3	9.0
(W) 260-280	1.3	3.4	1.4	.2	.3							6.7	8.4	7.5
290-310	.9	1.8	1.0	.1								3.8	7.5	7.0
320-340	1.6	1.6	1.1									4.3	6.7	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.8	//////////	//////////
TOTALS	24.6	39.9	19.1	3.1	1.2							100.0	6.5	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	2.5	1.5	.5	.1							6.2	7.7	7.0
020-040	3.6	4.2	1.7	.6	.1							10.2	6.8	6.0
050-070	2.9	1.5	.3	.1	.0							4.8	4.6	4.0
(E) 080-100	1.0	.3	.0									1.3	3.7	3.0
110-130	.6	.5	.1	.0								1.2	4.8	4.0
140-160	1.3	.5	.1	.0								1.9	4.4	4.0
(S) 170-190	2.1	1.5	.2	.1								3.8	4.8	4.0
200-220	3.5	5.7	2.9	1.0	.2	.0						13.4	7.8	7.0
230-250	3.0	7.6	8.5	4.5	2.1	.3	.0					26.0	11.1	10.0
(W) 260-280	1.6	3.5	2.4	1.5	1.0	.3	.0					10.3	10.9	10.0
290-310	1.5	2.0	.8	.3	.2	.0						4.9	7.5	6.0
320-340	1.6	2.3	1.1	.3	.1	.1						5.5	7.9	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	10.4	////	////
TOTALS	24.4	32.1	19.6	9.9	3.8	.7						100.0	7.6	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: MAR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	9.5	6.5	2.5	.3							20.1	9.6	9.0
020-040	5.2	11.8	8.0	4.3	.4							30.6	9.1	8.0
050-070	4.4	1.8	.3	.1	.1							6.7	4.5	4.0
(E) 080-100	.6											.6	2.8	3.0
110-130	.3	.1										.4	3.7	4.0
140-160	.5	.1										.6	3.6	4.0
(S) 170-190	.6	.3										.9	3.4	3.0
200-220	1.2	.6	.1									1.9	4.5	4.0
230-250	2.2	3.7	.5	.6	.4							6.5	7.6	6.0
(W) 260-280	1.2	3.1	.6		.1							5.1	6.9	6.0
290-310	1.9	3.8	1.4	.6	.3							8.0	8.0	8.0
320-340	1.2	6.1	3.2	.4	.3	.3						11.9	9.3	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	6.6	////	////
TOTALS	20.7	39.9	21.5	8.5	2.4	.3						100.0	7.8	7.0

TOTAL NUMBER OF OBSERVATIONS 772

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.8	1.0	.2								4.4	6.9	6.0
020-040	2.6	3.4	1.4	.1	.4							8.0	7.4	6.0
050-070	1.3	.8	.6									2.7	5.8	4.5
(E) 080-100	.5	.1										.7	2.5	2.0
110-130	.4	1.0	.1									1.6	6.0	6.0
140-160	1.9	2.0	.3									4.2	5.2	5.0
(S) 170-190	4.0	4.3	.3									8.7	5.1	5.0
200-220	7.7	10.3	2.1									20.1	5.8	6.0
230-250	4.9	12.7	8.4	2.2	1.0							29.2	9.0	8.0
(W) 260-280	1.3	2.6	1.4	.2	.2	.1						5.9	8.5	8.0
290-310	1.3	1.2	.4	.1								3.1	5.1	5.5
320-340	1.0	.9	.8									2.7	6.4	6.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	1.4	.8	.3	.1							4.4	6.8	6.0
020-040	1.4	1.9	.8	.3								4.4	6.8	6.0
050-070	.9	.3	.3	.3								1.9	7.0	5.0
(E) 080-100	.4	.1	.2									.8	5.6	4.0
110-130	.4	.1	.1									.7	4.7	3.0
140-160	1.3	1.3	.1	.1								2.9	4.8	5.0
(S) 170-190	2.9	1.9	.1	.1								5.0	4.7	4.0
200-220	6.9	8.1	3.0	.8								18.8	6.3	5.0
230-250	6.7	12.6	9.4	2.3	.9	.2						32.1	8.8	8.0
(W) 260-280	2.6	2.6	.9	.3	.2	.1						6.7	6.8	6.0
290-310	.7	2.0	.6									3.2	6.6	6.0
320-340	1.7	1.7	1.2	.4								5.0	7.7	7.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	1.9	.7	.2								4.9	6.2	5.5
020-040	1.6	2.8	.8	.3	.2							5.7	7.7	6.0
050-070	1.7	.3	.4	.2								2.7	5.5	3.0
(E) 080-100	.6	.2	.1									.9	5.5	4.0
110-130	.4	.2										.7	3.2	2.5
140-160	1.4	.4	.2									2.1	4.2	3.0
(S) 170-190	2.2	1.1	.8	.1								4.2	5.7	4.0
200-220	4.6	6.2	4.0	.8	.2							15.8	7.4	6.0
230-250	5.0	10.4	11.6	4.6	1.9	.1						33.6	10.1	10.0
(W) 260-280	2.0	3.3	.8	.8	.2							7.1	7.5	6.0
290-310	.9	2.0	.6	.2								3.7	6.7	6.0
320-340	1.7	1.9	1.0	.1								4.7	6.8	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	14.1	//////////	//////////
TOTALS	24.2	30.7	21.0	7.3	2.5	.1						100.0	6.9	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.4	2.3	.7	.1								5.6	5.8	5.0
020-040	4.7	2.6	1.0	.6								8.8	5.6	4.0
050-070	1.3	2.8	.6	.2								4.9	6.7	6.0
(E) 080-100	1.0	.4	.1									1.6	3.9	3.0
110-130	1.1	.2	.1	.1								1.6	4.5	3.0
140-160	.6	.3	.1	.1								1.1	6.3	5.0
(S) 170-190	.6	.7	.7	.1	.1							2.1	8.5	6.0
200-220	1.2	1.8	3.4	1.9	.7							9.0	11.5	12.0
230-250	1.4	4.9	10.0	6.7	4.3	1.7	.1					29.6	14.0	14.0
(W) 260-280	3.1	4.0	5.7	3.9	1.3	.8						19.2	11.7	12.0
290-310	1.7	2.1	1.4	.6	.2							6.0	8.2	7.0
320-340	1.7	1.6	2.0	.3								5.6	8.0	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	5.1	//////////	//////////
TOTALS	21.3	23.7	25.8	14.6	7.1	2.5	.1					100.0	9.9	10.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	2.6	2.2	.6	.1							6.6	8.9	9.0
020-040	3.1	3.6	1.3	.1								8.1	5.9	5.0
050-070	2.1	2.9	.9	.3								6.2	6.6	6.0
(E) 080-100	1.4	1.1		.1								2.7	4.7	4.0
110-130	.7	.6	.1	.2								1.6	6.4	5.5
140-160	.6	.8	.1	.2								1.7	6.8	6.0
(S) 170-190	.7	.8	.2	.2	.1							2.0	8.3	7.5
200-220	1.1	2.9	3.4	.9	.4	.1						8.9	10.4	11.0
230-250	2.2	6.2	8.1	5.2	2.8	1.3	.3					26.2	12.8	12.0
(W) 260-280	1.1	3.8	5.3	4.1	2.6	1.1	.3					18.8	13.9	13.0
290-310	1.4	1.9	2.0	1.6	.3	.1						7.3	10.5	10.0
320-340	1.4	2.3	2.2	.4	.1	.1						6.7	8.8	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	3.3	////	////
TOTALS	16.9	29.5	26.3	13.9	6.4	2.7	.6					100.0	10.2	10.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	2.3	2.1	.4								6.8	7.9	8.0
020-040	2.4	4.7	3.3									10.4	7.5	7.0
050-070	1.7	3.7	1.9									7.2	7.1	7.0
(E) 080-100	1.2	1.2	.9	.1								3.4	6.9	6.0
110-130	1.1	1.7	1.0	.1								3.9	6.7	5.0
140-160	.8	.4	.4		.1							1.8	6.9	5.5
(S) 170-190	.4	.3	.3	.1								1.2	7.5	7.0
200-220	1.2	4.0	2.0	1.0	.1							8.3	8.8	8.0
230-250	2.1	4.1	7.1	5.2	2.8	.9	.1					22.3	13.1	13.0
(W) 260-280	.9	3.0	5.4	4.2	3.3	.6						17.4	14.0	14.0
290-310	1.4	2.2	2.3	1.6								7.6	9.4	10.0
320-340	.7	3.8	1.3	.6	.3							6.7	9.0	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.9	////	////
TOTALS	15.8	31.4	28.0	13.3	6.6	1.5	.1					100.0	9.9	10.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	1.6	1.9	.2								5.4	7.7	8.0
020-040	2.9	4.2	2.6	.6	.1							10.3	7.6	8.0
050-070	2.2	2.4	1.8	.1								6.6	6.8	6.0
(E) 080-100	2.6	1.2	.2									4.0	4.4	4.0
110-130	.6	1.9	1.0	.3	.2							4.0	9.2	8.0
140-160	1.9	1.6	.4	.1								4.0	6.1	5.5
(S) 170-190	2.1	1.7	.2									4.0	4.7	4.0
200-220	2.4	5.3	1.0	.7								9.4	7.1	6.0
230-250	1.7	4.9	7.0	1.9	.9	.2						16.6	10.8	10.0
(W) 260-280	.6	4.0	6.3	4.0	1.3	.2						16.4	12.6	12.0
290-310	1.4	2.6	2.0	.8	.1		.1					7.0	9.3	8.0
320-340	2.2	1.8	.9	.4								5.3	6.7	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	6.9	////	////
TOTALS	22.4	33.2	25.3	9.1	2.6	.4	.1					100.0	8.2	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	1.3	.7	.3								3.9	6.8	6.0
020-040	2.6	3.9	2.0	.2	.1	.1						8.9	7.4	7.5
050-070	2.0	1.7	.7									4.3	5.6	5.0
(E) 080-100	1.3	.6										1.9	3.4	2.0
110-130	1.3	1.2	.6	.1								3.2	6.1	6.0
140-160	2.6	4.3	.7									7.6	5.6	6.0
(S) 170-190	3.9	6.2	.3									10.4	5.4	5.0
200-220	2.7	8.7	1.0	.4	.1							12.9	6.8	6.0
230-250	2.8	10.8	7.2	1.2	.6	.3	.1					23.0	9.1	8.0
(W) 260-280	2.1	4.1	2.9	.4	.1	.1						9.8	8.1	7.5
290-310	.9	.9	.8									2.6	6.3	6.0
320-340	1.2	1.4	.4	.2	.1							3.4	6.9	6.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	1.9	1.3	.3	.0							5.2	7.2	6.0
020-040	2.7	3.4	1.7	.3	.1	.0						8.1	7.0	6.0
050-070	1.7	1.9	.9	.2								4.6	6.5	6.0
(E) 080-100	1.1	.6	.2	.0								2.0	4.9	4.0
110-130	.3	.9	.4	.1	.0							2.1	6.7	6.0
140-160	1.4	1.4	.3	.1	.0							3.2	5.6	5.0
(S) 170-190	2.1	2.1	.4	.1	.0							4.7	5.6	5.0
200-220	3.5	5.9	2.5	.8	.2	.0						12.9	7.5	6.0
230-250	3.4	8.3	8.6	3.7	1.9	.6	.1					26.6	10.9	10.0
(W) 260-280	1.7	3.4	3.7	2.3	1.2	.4	.0					12.7	11.5	11.0
290-310	1.2	1.9	1.3	.6	.1	.0	.0					5.1	8.5	8.0
320-340	1.4	1.9	1.2	.3	.1	.0						5.0	7.8	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	7.9	//////////	//////////
TOTALS	22.8	33.6	22.5	8.8	3.6	1.0	.1					100.0	8.1	8.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

		WIND SPEED IN KNOTS												
	DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
	(DEGREES)												%	WIND	WIND
(N)	350-010	5.1	5.1	3.5	1.9	.3							15.9	8.1	8.0
	020-040	4.9	14.1	12.2	3.8	.5	.3						35.7	9.2	9.0
	050-070	1.1	3.2	4.6	2.4								11.4	10.5	10.5
(E)	080-100	.3											.3	1.0	1.0
	110-130	.3	.5										.8	5.7	6.0
	140-160		.3										.3	8.0	8.0
(S)	170-190	.3											.3	2.0	2.0
	200-220	1.4											1.4	3.4	4.0
	230-250		1.9	.5									2.4	7.4	8.0
(W)	260-280		4.1	.8									4.9	7.9	8.0
	290-310	1.4	2.7	1.9	.8								6.8	8.1	8.0
	320-340	2.7	3.5	5.7	.8	.3							13.0	9.2	10.0
	VARIABLE														
	CALM	////	////	////	////	////	////	////	////	////	////	////	7.0	////	////
	TOTALS	17.5	35.4	29.2	9.7	1.1	.3						100.0	8.2	8.0

TOTAL NUMBER OF OBSERVATIONS 370

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.0	.6	.1	.1							3.0	7.1	6.0
020-040	1.7	2.6	.3									4.6	5.9	6.0
050-070	1.5	.9										2.4	3.8	3.5
(E) 080-100	1.3	.2										1.5	3.3	3.0
110-130	1.6	.6	.2	.1								2.6	4.9	3.5
140-160	2.4	2.5	.6									5.5	5.6	6.0
(S) 170-190	6.0	4.6	.1									10.8	4.5	4.0
200-220	8.0	6.6	1.0									15.5	5.0	4.0
230-250	5.3	12.4	4.1	1.3	.1							23.1	7.4	7.0
(W) 260-280	2.2	5.2	1.5	.3								9.1	7.0	6.0
290-310	1.6	2.4	1.3	.2								5.5	7.2	7.0
320-340	1.9	1.6	.5	.3	.3							4.7	7.4	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.7	//////////	
TOTALS	34.7	40.6	10.2	2.3	.5							100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.4	.6	.1	.1							3.4	6.9	6.0
020-040	1.3	2.0	.9									4.2	6.2	6.0
050-070	1.9	.6	.1									2.7	3.9	4.0
(E) 080-100	.3	.3		.1								1.2	4.9	4.0
110-130	1.0	.1	.1									1.2	3.5	3.0
140-160	2.5											2.5	2.6	3.0
(S) 170-190	5.3	2.7										8.0	4.0	4.0
200-220	10.0	5.9	1.2	.2								17.3	4.8	4.0
230-250	7.8	13.4	3.9	1.4	.3							26.9	7.1	6.0
(W) 260-280	2.6	4.2	1.0	.2	.1							8.1	6.3	6.0
290-310	1.2	2.4	.8	.1								4.4	6.9	6.0
320-340	1.7	2.3	.1	1.0	.1							5.2	7.6	5.5
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	1.8	1.1	.5								4.7	8.0	7.0
020-040	2.4	2.2	1.0	.3								5.8	6.4	5.5
050-070	2.4	.8		.1								3.2	3.8	3.0
(E) 080-100	.3	.5										.9	4.3	5.0
110-130	1.5	.4										1.9	3.0	2.5
140-160	2.2	.5	.2									2.9	3.4	2.0
(S) 170-190	2.8	.3	.4	.1								3.7	4.0	2.0
200-220	5.3	3.7	2.3	.1								11.3	5.7	5.0
230-250	5.3	11.3	7.7	2.7	.5	.2						28.0	8.9	8.0
(W) 260-280	5.1	4.9	1.5	.3	.1							11.9	6.1	5.0
290-310	1.9	3.0	.8	.2	.2	.1						6.2	7.2	6.0
320-340	1.4	1.3	.9	.9	.1							4.5	8.5	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	14.9	//////////	//////////
TOTALS	31.9	30.7	15.9	5.2	1.2	.3						100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	1.8	.8	.2	.2							6.0	6.1	4.5
020-040	2.5	3.2	1.8	.4	.1	.1						8.2	7.5	6.5
050-070	2.7	3.0	1.0									6.7	5.6	5.0
(E) 080-100	2.4	.8	.1									3.2	3.7	3.0
110-130	1.6	.8	.1									2.5	3.7	2.0
140-160	.9	.2										1.1	3.0	2.5
(S) 170-190	1.5	.4	.3	.1								2.4	5.3	4.0
200-220	1.8	2.8	1.8	.5								7.0	7.8	7.0
230-250	3.1	5.2	7.3	3.2	1.3	.8	.1					21.0	11.1	11.0
(W) 260-280	5.1	5.9	4.8	2.3	.9	.2	.2					19.4	9.1	8.0
290-310	3.0	3.4	2.2	.5	.1							9.2	7.2	6.0
320-340	2.4	2.2	1.6	.4	.3							6.9	7.8	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	6.6	//////////	
TOTALS	30.0	29.7	21.8	7.6	2.9	1.1	.3					100.0	7.6	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	2.2	1.1	.2	.1							5.3	7.1	6.0
020-040	3.2	4.3	3.0	.5								11.1	7.6	7.0
050-070	2.7	4.4	2.3	.2								9.6	6.9	6.0
(E) 080-100	2.6	1.5	.8	.1	.1							5.1	6.1	4.0
110-130	1.3	.9		.3								2.5	6.0	4.0
140-160	1.1	.8	.2									2.0	4.7	4.0
(S) 170-190	1.0	1.0	.3	.1								2.4	5.8	5.0
200-220	1.3	2.7	2.5	.9	.3							7.5	9.5	9.0
230-250	2.5	4.2	7.1	3.2	1.3	.1						18.4	11.4	12.0
(W) 260-280	2.0	5.2	3.7	2.0	1.2	.6	.1					14.8	11.0	10.0
290-310	1.6	3.5	1.9	.3	.1	.1						7.6	8.0	7.0
320-340	2.6	3.7	2.2	1.0	.4							9.8	8.3	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	4.0	//////////	//////////
TOTALS	23.6	34.4	25.1	8.7	3.5	.8	.1					100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.5	3.1	1.9	.9								8.4	7.8	8.0
020-040	3.1	5.5	3.1	.5								12.3	7.4	7.5
050-070	3.1	4.5	3.1	.3	.1							11.2	7.5	7.0
(E) 080-100	1.9	2.0	1.3	.3								5.6	7.2	6.0
110-130	.9	1.0	.4	.8								3.0	9.2	8.5
140-160	1.3	.9	.6	.4	.2							3.4	8.2	7.0
(S) 170-190	1.4	1.4	1.6	.4								4.8	7.8	8.0
200-220	.8	2.7	1.4	.5								5.4	8.3	8.0
230-250	1.2	3.2	5.1	2.4	1.3	.3						13.5	11.9	12.0
(W) 260-280	2.2	2.8	4.5	3.8	1.8	.2	.1					15.4	12.4	12.0
290-310	1.5	1.8	2.3	1.0	.2	.1	.1					7.0	10.2	10.0
320-340	1.5	2.7	1.6	1.1	.3							7.2	9.2	9.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.8	////	////
TOTALS	21.4	31.6	26.9	12.4	3.9	.6	.2					100.0	9.1	8.0

TOTAL NUMBER OF OBSERVATIONS 929

FORM NO 4.3

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	1.8	1.2	.3								4.9	7.4	7.0
020-040	2.7	3.9	2.2	.1	.1	.1						9.1	7.1	6.0
050-070	3.6	5.2	3.1	.3								12.2	7.2	7.0
(E) 080-100	3.8	3.1	.5	.2								7.7	5.3	5.0
110-130	1.9	1.9	1.0	.6	.1							5.6	7.4	6.0
140-160	1.1	1.8	.5	.1								3.6	6.8	7.0
(S) 170-190	1.4	2.4	.8	.1								4.6	6.6	6.0
200-220	1.7	3.3	1.3	.3								6.7	7.2	7.0
230-250	1.7	3.5	4.6	1.5	.3	.1						11.8	10.1	10.0
(W) 260-280	1.4	2.5	4.5	2.9	.8	.1						12.2	11.6	12.0
290-310	.9	2.9	2.8	.6	.4		.1					7.8	10.3	10.0
320-340	1.6	3.2	2.0	1.1	.1							8.1	8.7	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	5.9	//////////	
TOTALS	23.3	35.5	24.5	8.1	1.8	.3	.1					100.0	7.8	8.0

TOTAL NUMBER OF OBSERVATIONS 927

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.2	.4	.2								3.0	6.6	5.0
020-040	1.6	2.4	1.1	.4	.1							5.6	7.4	6.0
050-070	1.9	2.4	.3	.1								4.7	5.2	5.0
(E) 080-100	1.8	.6										2.5	3.4	3.0
110-130	2.7	2.3	.8	.2								5.9	5.9	5.0
140-160	4.0	4.2	.8									9.0	5.4	5.0
(S) 170-190	5.3	5.3	.2									10.8	4.8	5.0
200-220	3.8	6.6	.5	.1								11.0	5.6	5.0
230-250	2.6	7.7	4.6	1.2	.3							16.4	8.4	8.0
(W) 260-280	1.2	5.3	3.2	.9	.2							10.8	9.0	8.0
290-310	1.2	3.1	.5	.3		.1						5.3	7.8	7.0
320-340	1.3	2.6	.9	.4	.1							5.3	8.0	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	9.7	////	////
TOTALS	28.6	43.7	13.3	3.8	.7	.1						100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 927

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: ALL

DIRECTION	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	1.7	1.8	1.0	.3	.1							4.8	7.2	6.0
020-040	2.3	3.3	1.7	.3	.0	.0						7.6	7.1	7.0
050-070	2.5	2.7	1.2	.1	.0							6.6	6.3	6.0
(E) 080-100	1.9	1.1	.3	.1	.0							3.4	5.3	4.0
110-130	1.6	1.0	.3	.3	.0							3.1	6.0	5.0
140-160	1.9	1.4	.4	.1	.0							3.7	5.4	4.0
(S) 170-190	3.1	2.3	.5	.1								5.9	5.1	4.0
200-220	4.1	4.3	1.5	.3	.0							10.2	6.2	5.0
230-250	3.7	7.6	5.6	2.1	.7	.2	.0					19.9	9.2	8.0
(W) 260-280	2.7	4.5	3.1	1.6	.6	.1	.1					12.7	9.4	8.0
290-310	1.6	2.8	1.6	.4	.1	.1	.0					6.6	8.2	7.0
320-340	1.8	2.4	1.2	.8	.2							6.5	8.3	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	8.8	//////////	//////////
TOTALS	28.9	35.2	18.4	6.5	1.7	.4	.1					100.0	6.9	6.0

TOTAL NUMBER OF OBSERVATIONS 7433

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

		WIND SPEED IN KNOTS												
	DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N)	350-010	3.3	6.9	4.8	1.7	.5							17.1	8.9	9.0
	020-040	2.4	13.3	5.5	.7		.2						22.1	8.2	8.0
	050-070	1.4	3.8	.7	.2								6.2	6.8	7.0
(E)	080-100	.2	.2	.2	.2								1.0	9.8	9.5
	110-130	.5											.5	2.0	2.0
	140-160														
(S)	170-190			.2									.2	10.0	10.0
	200-220	.5	.5	.5									1.4	6.8	6.5
	230-250	1.2	4.5	2.9	.2								8.8	8.4	8.0
(W)	260-280	1.4	4.8	2.6	1.4	.5							10.7	9.5	8.0
	290-310	1.2	4.8	2.9	1.0	.7	.2						10.7	10.3	9.0
	320-340	2.6	6.4	2.6	3.3	1.4							16.4	9.9	8.0
	VARIABLE														
	CALM	////	////	////	////	////	////	////	////	////	////	////	4.8	////	////
	TOTALS	14.7	45.2	22.9	3.7	3.1	.4						100.0	8.5	8.0

TOTAL NUMBER OF OBSERVATIONS 420

FORM NO 43

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	.6	.8									2.9	5.9	4.0
020-040	1.0	2.3	.7									4.0	6.5	6.0
050-070	.9	.6	.2									1.7	5.1	4.0
(E) 080-100	.7	.2										.9	3.9	4.0
110-130	1.1	.9	.4	.1								2.6	6.3	5.0
140-160	3.8	1.4	.6									5.8	4.6	4.0
(S) 170-190	6.9	4.6	.1									11.6	4.5	4.0
200-220	9.3	9.3	.8									19.5	4.9	5.0
230-250	6.5	12.1	4.8	.8	.1							24.2	7.0	6.0
(W) 260-280	3.1	3.0	1.0	.1	.1	.1						7.5	6.3	5.0
290-310	1.6	1.6	.6									3.7	5.9	6.0
320-340	.9	.9	.3		.1							2.2	6.6	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	13.6	//////////	//////////
TOTALS	37.4	37.5	10.3	1.0	.3	.1						100.0	5.0	5.0

TOTAL NUMBER OF OBSERVATIONS 899

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.1										2.6	4.6	4.0
020-040	1.6	1.3	.6									3.4	5.5	5.0
050-070	.8	.9										1.7	4.1	5.0
(E) 080-100	.2	.4	.1									.8	5.9	5.0
110-130	.4	.1										.6	2.4	2.0
140-160	1.3	.2										1.6	2.9	2.0
(S) 170-190	5.8	1.4	.3									7.6	3.6	3.0
200-220	12.1	10.0	1.2									23.3	4.8	4.0
230-250	8.9	12.6	4.0	1.3	.1							26.9	6.7	6.0
(W) 260-280	4.4	3.3	.6	.2								8.6	4.9	4.0
290-310	1.8	1.4	.4	.2								3.9	5.9	6.0
320-340	.9	.6	.4	.2								2.1	6.7	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.1	//////////	//////////
TOTALS	39.6	33.3	7.6	1.9	.1							100.0	4.5	5.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 418

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	.4	.1	.1								2.8	3.8	3.0
020-040	1.7	1.7	.8									4.1	5.9	5.0
050-070	1.7	.2										1.9	3.4	3.0
(E) 080-100	.9	.3										1.2	3.9	3.0
110-130	.4											.4	3.0	3.5
140-160	1.3	.4										1.8	3.5	2.0
(S) 170-190	2.7	.8										3.4	3.2	2.0
200-220	5.8	5.7	2.0	.4	.1							14.0	6.2	5.0
230-250	8.7	9.4	9.9	3.8	.7							32.4	8.7	8.0
(W) 260-280	3.[illegible]	4.2	1.9	.8								10.7	6.8	6.0
290-310	2.4	2.8	.3									5.6	5.1	5.0
320-340	1.9	1.2	.6	.2								3.9	5.8	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.8	//////////	
TOTALS	33.4	27.1	15.6	5.3	.8							100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	2.0	.6		.1							5.7	5.0	4.0
020-040	3.8	1.8	.4									6.0	4.4	4.0
050-070	4.6	1.8	.4									6.8	4.4	4.0
(E) 080-100	1.6	.9										2.4	3.9	3.5
110-130	1.3	.2	.2	.1								1.9	4.6	4.0
140-160	.9	.2	.1									1.2	4.1	3.0
(S) 170-190	1.1	.3	.2	.1								1.8	5.2	4.0
200-220	2.2	2.7	2.1	.8								7.8	8.1	8.0
230-250	4.8	7.3	9.3	5.6	1.3	.4						28.8	10.7	11.0
(W) 260-280	3.8	6.9	5.8	2.2	1.6							20.2	9.6	9.0
290-310	2.2	2.2	.9	.4								5.8	6.4	6.0
320-340	2.2	1.8	.9	.3	.1							5.2	6.5	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	6.4	//////////	//////////
TOTALS	31.5	28.1	20.8	9.5	3.1	.4						100.0	7.5	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	2.2	.8		.3							5.1	7.0	6.0
020-040	2.7	2.4	1.1	.2								6.4	6.2	5.5
050-070	3.0	3.6	.7	.1								7.3	5.5	5.0
(E) 080-100	2.2	2.9	.3									5.4	5.2	5.0
110-130	1.1	.9	.3	.1	.2							2.7	6.6	5.0
140-160	.8	.9	.1									1.8	5.1	5.0
(S) 170-190	1.0	.8	.3	.1								2.2	5.8	5.0
200-220	2.0	2.9	2.0	.3								7.2	7.5	7.0
230-250	3.0	5.1	8.4	4.1	2.0	.9						23.6	11.7	11.5
(W) 260-290	2.0	4.3	5.4	3.4	1.1	.4						16.8	11.5	12.0
290-310	2.4	3.1	3.7	.6	.1							9.9	8.1	9.0
320-340	2.2	2.7	1.3	.3		.1						6.7	7.0	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	4.9	//////////	//////////
TOTALS	24.2	31.8	24.4	9.2	3.7	1.4						100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	1.7	1.8	.3	.2	.1						5.9	8.2	8.0
020-040	3.4	4.1	2.0	.2								9.8	6.5	6.0
050-070	1.9	5.0	1.2	.4								8.6	7.1	7.0
(E) 080-100	2.8	2.3	.4	.3								5.9	5.9	5.0
110-130	1.3	1.3	.6	.2								3.4	6.5	6.0
140-160	1.6	1.3	.6									3.4	5.7	5.0
(S) 170-190	1.8	1.9	.4	.1								4.2	5.5	5.0
200-220	2.1	4.2	.9	.2								7.4	6.6	6.0
230-250	2.0	3.4	6.1	3.7	1.3	.4						17.0	11.9	12.0
(W) 260-280	2.1	5.0	5.9	3.8	1.7	.6	.1					19.1	11.9	11.5
290-310	.7	2.2	3.1	.8	.4							7.2	10.5	10.0
320-340	1.0	1.8	1.1	.3	.1	.1						4.4	8.4	7.5
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	2.0	1.1	.3								4.7	7.7	8.0
020-040	3.2	3.7	2.4	.3								9.7	7.2	7.0
050-070	3.7	4.4	1.7									9.8	6.0	6.0
(E) 080-100	3.3	2.2	.4									6.0	4.6	4.0
110-130	2.3	2.1	1.4	.3								6.2	6.9	5.5
140-160	1.6	1.7	.4									3.7	6.0	5.0
(S) 170-190	2.3	2.0	.7	.1	.1							5.2	5.7	5.0
200-220	2.9	2.2	.6	.1	.2							6.0	5.8	5.0
230-250	2.1	3.8	3.9	1.2	.2							11.2	9.1	9.0
(W) 260-280	1.3	4.1	4.3	3.1	.9	.3						14.1	11.6	11.0
290-310	1.2	3.4	3.2	.6	.3							8.8	8.9	8.0
320-340	1.3	2.6	1.6	.2	.1							5.8	7.9	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	8.9	//////////	
TOTALS	26.4	34.2	21.7	6.2	1.8	.3						100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.1	1.1	.3								3.8	7.6	6.5
020-040	2.9	2.7	1.0		.1							6.7	5.9	5.0
050-070	2.1	1.7	.8									4.6	5.6	5.0
(E) 080-100	1.4	.6	.3									2.3	4.3	3.0
110-130	2.6	1.9	.1	.3								4.9	5.3	4.0
140-160	3.6	2.9	.3	.1								6.9	5.1	4.0
(S) 170-190	6.1	4.6	.7									11.3	4.7	4.0
200-220	5.6	6.6	.7									12.8	5.1	5.0
230-250	3.6	7.2	3.9									14.7	7.1	6.0
(W) 260-280	2.0	3.9	2.3	1.6	.1							9.9	8.9	8.0
290-310	1.6	2.4	.8		.1	.1						5.0	7.0	6.0
320-340	.9	1.0	1.2	.4								3.6	8.4	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.7	////	////
TOTALS	33.6	36.6	13.2	2.7	.3	.1						100.0	5.4	5.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	1.4	.8	.1	.1	.0						4.2	6.5	5.0
020-040	2.5	2.5	1.1	.1	.0							6.3	6.1	6.0
050-070	2.3	2.3	.6	.1								5.3	5.6	5.0
(E) 080-100	1.6	1.2	.2	.0								3.1	4.9	4.0
110-130	1.3	.9	.4	.2	.0							2.8	6.0	5.0
140-160	1.8	1.1	.3	.0								3.3	4.9	4.0
(S) 170-190	3.5	2.0	.3	.1	.0							5.9	4.7	4.0
200-220	5.3	5.4	1.3	.2	.0							12.3	5.7	5.0
230-250	4.9	7.6	6.3	2.6	.7	.2						22.4	9.1	8.0
(W) 260-280	2.8	4.3	3.4	1.9	.7	.2	.0					13.3	9.6	8.0
290-310	1.7	2.4	1.6	.3	.1	.0						6.2	7.6	7.0
320-340	1.4	1.6	.9	.3	.1	.0						4.2	7.2	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	10.1	////	////
TOTALS	30.9	32.7	17.2	5.9	1.7	.4						100.0	6.5	6.0

TOTAL NUMBER OF OBSERVATIONS 7199

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	2.8	4.2									9.7	7.4	8.0
020-040		9.3	6.9									15.3	8.5	9.0
050-070	1.4	2.8	4.2									8.3	8.3	9.5
(E) 080-100	1.4	2.8										4.2	5.7	5.0
110-130														
140-160														
(S) 170-190														
200-220	1.4											1.4	1.0	1.0
230-250	2.8	4.2										6.9	4.6	5.0
(W) 260-280	1.4	8.3	1.4	2.8								13.9	8.4	7.5
290-310	2.8	4.2	2.8	1.4								11.1	8.5	8.0
320-340		5.6	8.3									13.9	9.6	10.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	15.3	//////////	//////////
TOTALS	14.0	39.0	27.8	4.2								100.0	6.7	8.0

TOTAL NUMBER OF OBSERVATIONS 72

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	.8	.2	.1								3.2	4.5	4.0
020-040	2.0	2.4	.6	.1	.1							5.3	6.1	5.0
050-070	2.3	.4	.4									3.1	4.4	3.0
(E) 080-100	1.8	.2	.3									2.4	4.3	3.0
110-130	1.8	.4	.3									2.6	4.0	3.0
140-160	3.1	1.6	.1									4.8	4.2	4.0
(S) 170-190	7.5	5.4										12.9	4.2	4.0
200-220	11.2	7.5	.9									19.6	4.7	4.0
230-250	5.6	9.6	2.8		.1							18.1	6.4	6.0
(W) 260-280	1.1	2.4	.4		.1							4.0	6.4	6.0
290-310	2.7	1.5	.2	.2	.1							4.7	5.4	4.0
320-340	1.6	1.2	.1									2.9	4.6	4.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	16.5	//////////	
TOTALS	42.9	33.4	6.3	.4	.4							100.0	4.3	4.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	.5	.1									2.2	4.3	4.0
020-040	.4	1.0	.5									1.9	7.2	7.0
050-070	.9	.3	.2									1.4	5.1	3.0
(E) 080-100	.6	.3										1.0	3.8	2.0
110-130	1.2	.5		.1								1.8	4.1	4.0
140-160	1.8	.5										2.4	3.3	3.0
(S) 170-190	8.6	2.5	.1									11.2	3.6	4.0
200-220	14.0	8.6	1.5	.1								24.2	4.8	4.0
230-250	10.0	11.1	2.0	.1								23.2	5.6	5.0
(W) 260-280	4.8	3.7	.1	.1								8.7	4.6	4.0
290-310	1.3	.5	.2	.1								2.2	5.4	4.0
320-340	2.3	.8	.1									3.1	3.6	3.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	16.8	//////////	//////////
TOTALS	47.4	30.3	4.8	.5								100.0	4.0	4.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	.4	.1									2.4	3.6	2.0
020-040	1.9	1.5	.3	.1								3.9	5.4	4.5
050-070	.9	.6	.2									1.7	5.2	4.5
(E) 080-100	1.0	.2										1.2	3.3	3.0
110-130	.8	.1	.1									1.0	3.4	2.0
140-160	1.6	.3	.1	.1								2.2	4.0	2.5
(S) 170-190	4.2	1.1	.1									5.4	3.5	3.0
200-220	7.7	5.2	1.9	.2	.1							15.2	5.3	4.0
230-250	9.1	12.2	6.6	1.9	.4							30.2	7.6	7.0
(W) 260-280	5.7	4.2	1.0		.1							11.0	5.1	4.0
290-310	2.5	1.9	.1									4.5	4.3	4.0
320-340	3.5	.6	.1	.1								4.4	3.7	3.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	17.1	////	////
TOTALS	40.7	28.3	10.6	2.4	.6							100.0	4.8	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.3	1.1	.6	.1								5.2	4.8	4.0
020-040	3.2	2.5	.3									6.0	5.0	4.0
050-070	2.5	3.2	.4									6.1	5.4	5.0
(E) 080-100	1.6	1.4	.1									3.1	4.4	4.0
110-130	1.1	.3	.1	.1								1.6	5.0	4.0
140-160	1.0	.3										1.3	3.3	2.5
(S) 170-190	1.2	.4	.2									1.8	4.6	4.0
200-220	1.4	1.6	1.0	.3	.1							4.4	7.8	7.0
230-250	4.0	7.5	8.9	4.2	.8	.3						25.7	10.4	10.0
(W) 260-280	5.1	11.8	5.4	1.6	.2							24.1	7.8	7.0
290-310	4.4	3.4	.8	.2								8.8	5.1	4.5
320-340	3.4	1.2	.3									4.9	3.9	3.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	6.9	////	////
TOTALS	32.2	34.7	19.1	6.5	1.1	.3						100.0	6.7	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	1.6	1.0	.2								5.6	6.1	4.5
020-040	1.9	5.9	.8									8.6	6.3	6.0
050-070	1.8	4.7	1.1	.3								8.0	6.5	6.0
(E) 080-100	1.9	1.8	.1									3.9	4.4	4.5
110-130	1.4	.3	.3	.3	.2							2.6	7.6	4.0
140-160	1.0	1.0		.1								2.0	5.3	6.0
(S) 170-190	1.9	1.0		.2								3.1	4.5	4.0
200-220	1.5	2.2	2.4	.2	.1							6.3	8.3	8.0
230-250	2.6	6.2	5.8	4.2	1.2	.3						20.3	11.0	10.0
(W) 260-280	3.7	7.4	7.3	1.5	.6	.2						20.8	9.2	9.0
290-310	3.4	4.3	1.6	.3	.1							9.8	6.5	6.0
320-340	1.9	3.2	.6	.3	.1							6.2	6.6	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	2.8	//////////	
TOTALS	25.8	39.6	21.0	7.6	2.3	.5						100.0	7.7	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	2.6	1.0	.4								6.1	7.0	6.0
020-040	3.0	4.7	2.7	.2								10.6	6.9	6.0
050-070	2.2	4.9	1.7	.1								8.9	6.6	6.0
(E) 080-100	1.7	1.9	.4									4.1	5.3	5.0
110-130	.9	1.6	.5	.2								3.2	7.1	7.0
140-160	1.1	1.1	1.2	.2								3.5	7.7	6.0
(S) 170-190	1.5	.8	1.1	.4								3.8	7.9	6.0
200-220	1.7	2.3	1.4	.5		.1						6.0	8.0	6.0
230-250	2.8	4.2	6.6	3.0	.4	.1						17.1	10.0	10.0
(W) 260-280	2.2	3.3	6.1	4.6	1.3	.2						17.7	11.8	12.0
290-310	2.4	3.5	2.7	1.3	.1							10.0	8.5	8.0
320-340	1.6	2.3	1.9	.3	.1							6.2	7.9	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.6	////	////
TOTALS	23.3	33.2	27.3	11.2	1.9	.4						100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	2.9	1.1	.6	.1							7.5	6.8	6.0
020-040	4.5	4.2	3.1	1.0		.1						12.9	7.5	6.0
050-070	4.3	6.2	1.3	.2								12.0	6.0	5.0
(E) 080-100	2.3	3.0	.8	.2								6.2	6.3	6.0
110-130	2.0	2.3	.9	.4								5.6	6.5	5.0
140-160	2.2	1.1	.8	.1								4.1	5.8	4.0
(S) 170-190	.6	1.5	.6	.1								2.9	7.2	7.0
200-220	2.9	1.8	.9									5.5	5.2	4.0
230-250	1.6	2.7	3.8	1.6	.2	.2						10.1	10.3	10.0
(W) 260-280	1.0	3.5	4.4	1.3	.4							10.6	10.3	10.0
290-310	1.2	4.5	3.9	1.3	.3							11.2	9.8	9.0
320-340	1.5	2.3	1.9	.1	.2							6.0	8.0	7.5
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	5.3	//////////	
TOTALS	26.9	36.0	23.5	6.9	1.2	.3						100.0	7.4	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	1.7	.8	.1								5.3	5.4	4.0
020-040	3.7	4.2	1.2	.1								9.1	6.0	5.0
050-070	3.3	1.7	.2	.1								5.4	4.7	4.0
(E) 080-100	3.4	.5	.2									4.2	3.4	2.0
110-130	1.7	1.8										3.5	4.5	5.0
140-160	4.8	3.3	.3									8.5	4.5	4.0
(S) 170-190	6.0	5.3	.1									11.4	4.4	4.0
200-220	4.4	6.0	1.0	.3								11.7	5.8	6.0
230-250	1.9	4.9	2.6	.3	.1							9.9	7.7	7.0
(W) 260-280	1.7	3.7	1.7	.1								7.2	7.2	7.0
290-310	1.8	2.0	.6	.2								4.7	6.0	5.0
320-340	1.9	2.4	.6	.2								5.2	5.9	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.9	////	////
TOTALS	37.3	37.5	9.3	1.4	.1							100.0	4.8	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.4	1.5	.6	.2	.0							4.7	5.7	4.0
020-040	2.6	3.3	1.2	.2	.0	.0						7.3	6.5	6.0
050-070	2.3	2.8	.7	.1								5.8	5.8	5.0
(E) 080-100	1.8	1.2	.2	.0								3.3	4.8	4.0
110-130	1.4	.9	.3	.1	.0							2.7	5.7	5.0
140-160	2.1	1.2	.3	.1								3.6	4.9	4.0
(S) 170-190	4.0	2.2	.3	.1								6.6	4.5	4.0
200-220	5.6	4.4	1.4	.2	.0	.0						11.6	5.6	5.0
230-250	4.7	7.3	4.9	1.9	.4	.1						19.3	8.5	8.0
(W) 260-280	3.1	5.0	3.3	1.2	.3	.1						13.0	8.4	8.0
290-310	2.5	2.7	1.3	.5	.1							7.0	6.9	6.0
320-340	2.2	1.7	.7	.1	.1							4.9	5.9	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	10.2	////	////
TOTALS	34.7	34.2	15.2	4.7	.9	.2						100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	5.5	4.4	4.4	2.2								16.5	8.6	6.0
020-040	2.2	4.4	8.8	3.3								18.7	10.8	12.0
050-070	3.3	7.7	8.8	2.2								22.0	9.5	9.5
(E) 080-100	2.2											2.2	2.0	2.0
110-130														
140-160														
(S) 170-190	3.3											3.3	4.0	4.0
200-220														
230-250														
(W) 260-280		8.8	2.2									11.0	7.2	6.0
290-310		6.6	1.1									7.7	7.1	7.0
320-340	2.2	6.6	2.2	1.1								12.1	7.5	7.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	1.1	.4									3.3	4.9	4.0
020-040	2.5	1.3	.3	.2								4.3	5.1	4.0
050-070	1.7	.6										2.4	3.6	4.0
(E) 080-100	1.0	.5	.1	.1								1.7	5.5	4.0
110-130	1.0	.2	.1									1.3	4.3	3.5
140-160	3.7	3.1										6.8	4.3	4.0
(S) 170-190	6.6	4.1	.1									10.8	4.2	4.0
200-220	9.2	7.4	.9									17.5	4.9	4.0
230-250	6.9	9.4	1.9	.4	.1							18.7	6.0	5.0
(W) 260-280	2.5	2.5	.5	.3								5.8	6.0	5.0
290-310	1.7	1.5	.1									3.3	4.9	4.0
320-340	1.6	1.6	.6									3.9	6.0	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	20.2	////	////
TOTALS	40.2	33.3	5.0	1.0	.1							100.0	4.1	4.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	.8	1.1	.1								3.3	6.9	6.0
020-040	1.3	.8	.2	.1								2.9	4.4	4.0
050-070	1.3	.1	.1									1.5	3.5	3.0
(E) 080-100	.4	.3										.8	4.0	4.0
110-130	.6	.4	.1									1.2	4.1	3.0
140-160	2.3	1.3	.1									4.2	3.5	2.0
(S) 170-190	7.2	1.6										8.8	3.4	3.5
200-220	12.8	7.3	.5									20.6	4.3	4.0
230-250	9.1	9.5	1.7	.5	.2							21.1	5.7	5.0
(W) 260-280	4.6	3.2	.6									8.5	4.9	4.0
290-310	2.2	1.4	.3									3.9	4.8	4.0
320-340	1.4	1.4	.4									3.2	5.8	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	20.0	////	////
TOTALS	45.6	28.1	5.1	.7	.2							100.0	3.8	4.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.3	.5	.4	.2								4.5	4.7	3.0
020-040	2.4	1.0	.3									3.7	4.2	3.5
050-070	1.0	.2										1.2	3.1	3.0
(E) 080-100	1.1											1.1	2.7	2.0
110-130	1.3	.1										1.4	2.8	3.0
140-160	1.4	.3	.4									2.2	4.6	3.0
(S) 170-190	4.4	1.3	.2									5.9	3.6	3.0
200-220	9.1	4.7	1.2	.1								15.2	4.6	4.0
230-250	10.5	7.2	2.7	1.4	.5							22.4	6.4	5.0
(W) 260-280	6.7	4.0	1.2									11.8	4.9	4.0
290-310	4.3	1.6	.3	.1								6.3	4.4	4.0
320-340	2.0	2.5	.2	.1								4.8	5.2	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	19.6	//////////	
TOTALS	47.5	23.4	6.9	1.9	.5							100.0	4.0	4.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.4	2.5	.4									6.3	4.5	4.0
020-040	3.5	2.2	.3	.1	.1							6.2	4.8	4.0
050-070	2.9	1.1	.2									4.2	3.8	3.0
(E) 080-100	2.5	.6	.1									3.2	3.7	3.0
110-130	1.8	.2										2.0	3.1	3.0
140-160	1.1	.5	.1									1.7	3.4	2.5
(S) 170-190	.8	.6										1.4	4.1	4.0
200-220	1.4	1.8	1.1	.3	.1							4.7	7.5	7.5
230-250	4.3	5.8	6.3	2.8	1.3	.4	.1					21.1	10.0	10.0
(W) 260-280	8.5	8.0	3.8	.9		.3						21.4	6.5	5.0
290-310	4.9	3.7	1.5	.2								10.3	5.4	5.0
320-340	4.2	2.9	.9	.1								8.1	5.1	4.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	9.2	//////////	
TOTALS	39.3	29.9	14.7	4.4	1.5	.7	.1					100.0	5.9	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.7	3.7	1.5									9.9	5.4	5.0
020-040	4.4	5.3	1.2	.1								11.0	5.5	6.0
050-070	3.4	2.8	.2	.2								6.7	5.1	4.0
(E) 080-100	1.2	1.5	.1	.1								2.9	5.3	5.0
110-130	1.6	.6	.1	.1								2.5	4.6	4.0
140-160	.9	.5										1.4	4.6	4.0
(S) 170-190	1.2	1.0	.3									2.5	5.0	5.0
200-220	2.0	1.7	.6	.3								4.7	6.2	5.0
230-250	3.5	4.9	4.8	2.6	1.1	.1	.1					17.2	10.0	10.0
(W) 260-280	4.0	6.5	4.6	2.4	.9	.2						18.5	9.3	9.0
290-310	4.0	3.5	1.3	.2	.2							9.2	6.2	5.0
320-340	3.2	4.4	1.6	.1								9.4	6.1	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	4.2	//////////	
TOTALS	34.1	36.4	16.3	6.1	2.2	.3	.1					100.0	6.8	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	2.3	1.7		.1							6.0	7.1	6.0
020-040	3.5	7.3	1.7	.2	.1							12.9	6.8	6.0
050-070	2.3	3.7	1.7	.2								7.8	6.9	7.0
(E) 080-100	2.0	2.9	.4									5.4	5.0	5.0
110-130	1.3	1.1	.9	.3								3.5	7.4	6.0
140-160	.4	1.1	.2	.1								1.8	7.4	8.0
(S) 170-190	1.4	.8	.2									2.4	4.8	3.0
200-220	1.9	1.9	.2	1.0		.1						5.2	8.0	5.5
230-250	1.9	5.2	5.3	1.9	1.2		.1					15.6	10.6	10.0
(W) 260-280	2.8	4.8	4.6	3.5	1.2	.1						17.1	10.7	10.0
290-310	2.4	3.0	1.9	1.0	.3							8.6	8.4	7.0
320-340	3.1	2.9	2.0	.2								8.3	6.8	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	5.4	//////////	
TOTALS	24.9	37.0	20.8	8.4	2.9	.2	.1					100.0	7.8	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.5	2.2	1.9	.5	.3							7.4	8.1	8.0
020-040	3.2	4.7	3.1	.2	.2							11.5	7.5	7.0
050-070	5.1	6.7	2.3	.3								14.3	6.3	6.0
(E) 080-100	4.4	2.0	.1									6.6	3.9	4.0
110-130	1.6	1.6	1.3	.1								4.6	6.7	6.0
140-160	1.7	1.0	.6	.1		.1						3.5	6.3	5.0
(S) 170-190	1.5	1.1	.4	.1	.1							3.2	5.9	5.0
200-220	2.4	2.8	1.0	.4								6.6	6.8	6.0
230-250	1.7	4.9	2.2	1.1	.5				.1			10.5	9.1	7.5
(W) 260-280	1.9	5.1	2.9	1.0	.3	.1						11.3	8.9	8.0
290-310	1.5	3.3	2.6	.4		.1						8.0	8.2	8.0
320-340	2.0	1.6	1.5	.1								5.3	7.2	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	7.2	////	////
TOTALS	29.5	37.0	19.9	4.3	1.4	.3			.1			100.0	6.8	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.5	1.2	.5	.2	.1							4.5	6.1	4.0
020-040	3.0	3.9	1.2	.4	.1							8.6	6.5	5.0
050-070	4.4	2.2	.1	.1								6.8	4.2	3.0
(E) 080-100	2.2	.8										2.9	3.5	3.0
110-130	2.8	1.9	.3									5.1	4.5	4.0
140-160	5.3	2.6	.4									8.3	4.2	3.0
(S) 170-190	5.8	5.5	.3	.2								11.8	4.8	5.0
200-220	6.5	5.5	.8	.3								13.0	5.4	5.0
230-250	2.9	6.1	1.4	.2	.1							10.8	6.5	6.0
(W) 260-280	2.3	3.1	1.0	.2								6.6	6.3	6.0
290-310	1.4	1.6	.5	.1								3.7	6.3	6.0
320-340	2.3	1.8	.4									4.5	5.1	4.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.5	////	////
TOTALS	41.4	36.2	6.9	1.7	.3							100.0	4.6	5.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	1.8	1.0	.1	.1							5.7	6.0	5.0
020-040	3.1	3.3	1.0	.2	.1							7.6	6.1	5.0
050-070	2.8	2.2	.6	.1								5.6	5.4	5.0
(E) 080-100	1.8	1.1	.1	.0								3.1	4.3	4.0
110-130	1.5	.8	.3	.1								2.7	5.2	4.0
140-160	2.2	1.3	.2	.0		.0						3.7	4.6	4.0
(S) 170-190	3.6	2.0	.2	.0	.0							5.8	4.3	4.0
200-220	5.7	4.2	.8	.3	.0	.0						10.9	5.3	4.0
230-250	5.1	6.6	3.3	1.4	.6	.1	.0		.0			17.2	7.9	6.0
(W) 260-280	4.2	4.6	2.4	1.0	.3	.1						12.6	7.6	6.0
290-310	2.8	2.5	1.1	.3	.1	.0						6.7	6.3	5.0
320-340	2.5	2.4	1.0	.1								5.9	6.0	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	12.4	//////////	//////////
TOTALS	38.0	32.8	12.0	3.6	1.2	.2						100.0	5.5	5.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	8.8	16.3	10.0	1.3								36.3	7.5	7.0
020-040	3.8	6.3	1.3									11.3	5.6	5.0
050-070		1.3										1.3	9.0	9.0
(E) 080-100	1.3											1.3	1.0	1.0
110-130			1.3									1.3	13.0	13.0
140-160		1.3										1.3	6.0	6.0
(S) 170-190														
200-220		3.8										3.8	6.7	7.0
230-250	1.3	2.5										3.8	5.0	6.0
(W) 260-280	1.3	6.3	2.5									10.0	7.1	7.0
290-310	1.3	1.3	3.8									6.3	9.2	11.0
320-340	2.5	15.0	2.5									20.0	6.8	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	3.8	//////////	
TOTALS	20.3	54.1	21.4	1.3								100.0	6.8	7.0

TOTAL NUMBER OF OBSERVATIONS 80

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	1.4	.7		.1							4.0	5.9	5.0
020-040	2.8	2.6	.7									6.0	5.2	5.0
050-070	.9	1.0	.4									2.3	6.1	6.0
(E) 080-100	.7	.2										.9	3.6	2.0
110-130	1.4	.3	.1									1.9	4.1	4.0
140-160	1.9	1.0	.4									3.4	5.0	4.0
(S) 170-190	4.4	3.6	.4	.2								8.7	4.8	4.0
200-220	9.4	8.3	1.7									19.4	5.2	5.0
230-250	6.7	12.6	3.2	1.0	.1							23.6	6.8	6.0
(W) 260-280	3.0	4.2	.7	.1								8.0	5.7	5.0
290-310	1.7	1.2	.6	.3	.2							4.0	7.0	6.0
320-340	1.2	.4	1.0									2.7	6.7	5.5
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	2.3	.7	.1								4.4	6.5	6.0
020-040	2.4	1.7	.8									4.9	5.5	4.5
050-070	1.0	.3	.7									2.0	6.3	4.5
(E) 080-100	.3	.3										.7	4.2	4.0
110-130	.7											.7	2.8	3.0
140-160	1.4	.6										2.0	3.8	4.0
(S) 170-190	3.7	2.0										5.7	3.8	3.0
200-220	9.7	8.1	2.1	.7	.1							20.7	5.7	5.0
230-250	8.1	14.4	3.5	.9	.1	.1						27.2	6.8	6.0
(W) 260-280	2.8	3.0	1.2		.1		.1					7.2	6.6	6.0
290-310	1.9	1.9	.4	.1	.1							4.3	6.1	5.0
320-340	.8	.7	.9									2.3	6.9	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.9	//////////	
TOTALS	34.0	35.3	10.4	1.9	.4	.1	.1					100.0	4.9	5.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.1	.7									3.0	6.1	6.0
020-040	2.9	1.7	.5									5.1	4.8	4.0
050-070	.8	.6	.9	.1								2.3	7.6	8.0
(E) 080-100	.8											.8	2.1	2.0
110-130	.9											.9	2.1	2.0
140-160	1.4	.2										1.7	3.0	2.0
(S) 170-190	3.0	.2										3.2	2.7	2.0
200-220	7.0	5.1	2.9	.8	.3							16.1	6.6	6.0
230-250	8.4	11.6	6.9	2.0	1.0							29.9	8.0	8.0
(W) 260-280	4.7	4.8	1.3	.6								11.3	6.1	5.0
290-310	1.8	1.6	.4	.1								3.9	5.6	5.0
320-340	1.6	1.4	.7	.6								4.2	7.1	5.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	17.6	////	////
TOTALS	34.5	28.3	14.4	4.2	1.3							100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.9	1.3	1.0		.1							5.3	5.5	4.0
020-040	3.3	2.4	1.2									7.4	5.4	4.0
050-070	1.9	.6	.6	.3								3.3	5.8	4.0
(E) 080-100	1.1	.2										1.3	2.7	2.0
110-130	.8	.8										1.6	4.4	4.5
140-160	.9	.5										1.4	4.1	4.0
(S) 170-190	1.0	.2										1.2	3.2	3.0
200-220	1.8	2.4	2.6	1.3	.2	.2						8.6	9.8	10.0
230-250	2.4	4.7	11.0	6.9	3.6	.1	.1	.1				30.9	12.5	12.0
(W) 260-280	6.7	5.9	3.7	1.1	.1							17.4	6.9	6.0
290-310	3.4	2.0	1.4									6.9	5.5	4.5
320-340	2.6	2.8	.6	.7								6.6	6.4	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	8.0	////	////
TOTALS	29.3	25.9	22.1	10.3	4.0	.3	.1	.1				100.0	7.8	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A" — PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC — FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	2.0	.7	.6	.1							6.3	6.4	5.0
020-040	5.1	3.1	1.0	.3								9.6	5.5	4.0
050-070	3.4	2.6	.6	.1								6.7	5.3	4.0
(E) 080-100	1.8	.6										2.3	3.1	3.0
110-130	.7	.1										.8	3.0	2.0
140-160	1.1	.3										1.4	3.1	3.0
(S) 170-190	1.0	.2	.1	.2								1.6	5.6	2.0
200-220	1.4	.9	3.0	1.1	.2							6.7	10.3	11.5
230-250	2.7	5.0	8.8	6.0	2.6	.8		.1				25.9	12.5	12.0
(W) 260-280	4.1	5.3	6.7	2.4	.6							19.1	9.1	10.0
290-310	2.6	3.0	1.8	.2	.3							7.9	7.6	8.0
320-340	2.2	3.9	1.9	.6								8.6	7.3	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	3.2	////	////
TOTALS	29.1	27.0	24.6	11.5	3.8	.8		.1				100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	2.1	1.7	.2	.1							5.4	8.3	8.0
020-040	5.7	4.6	2.7	.2								13.1	6.1	5.0
050-070	5.4	5.6	1.6	.1								12.7	5.8	5.0
(E) 080-100	2.3	.2	.1									2.7	3.6	3.0
110-130	.1	.3										.4	5.3	6.0
140-160	.3	.2										.6	3.8	4.0
(S) 170-190	.7	.4	.2	.1								1.4	6.1	5.0
200-220	1.0	2.2	2.8	.6								6.6	9.1	10.0
230-250	2.4	3.8	7.6	4.2	1.4	.2	.2					19.9	12.1	12.0
(W) 260-280	2.7	4.0	5.6	2.4	1.3	.1	.1					16.2	10.8	10.0
290-310	2.3	2.1	2.0	1.1	.2							7.8	8.4	7.5
320-340	1.9	3.0	2.3	.4	.1							7.8	8.0	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	5.4	//////////	
TOTALS	26.1	28.5	26.6	9.3	3.1	.3	.3					100.0	8.2	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	2.0	.8	.2								5.2	6.0	5.0
020-040	5.7	5.1	2.6	.1								13.4	6.2	6.0
050-070	5.7	3.7	.9	.1								10.3	4.9	4.0
(E) 080-100	1.6	.7	.1									2.3	4.0	4.0
110-130	1.8	1.6		.2								3.6	5.1	4.5
140-160	1.0	.4	.1	.1								1.7	4.7	3.0
(S) 170-190	1.7	.7				.1						2.4	5.0	4.0
200-220	3.1	5.3	.7	.1								9.2	5.9	6.0
230-250	3.4	5.8	4.2	.9	.8	.2						15.3	8.8	8.0
(W) 260-280	2.3	3.1	4.3	.8	.1							10.7	8.6	8.5
290-310	.9	2.4	2.4	.7	.4							6.9	9.8	10.0
320-340	1.4	2.0	2.0									5.4	7.6	8.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	13.4	//////////	
TOTALS	30.8	32.8	18.1	3.2	1.3	.3						100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	1.6	.7									4.3	5.5	5.0
020-040	4.0	3.7	1.8	.1								9.6	6.1	5.5
050-070	2.6	.6	.4									3.6	4.6	4.0
(E) 080-100	1.3	.3										1.7	3.5	3.0
110-130	1.1	.9	.2									2.2	4.6	4.5
140-160	3.1	2.8	.2									6.1	4.6	4.0
(S) 170-190	8.1	4.8	.1									13.0	4.3	4.0
200-220	6.4	6.1	.7									13.2	4.9	5.0
230-250	3.4	11.3	3.8	.7	.3	.1						19.7	7.8	7.0
(W) 260-280	1.1	4.4	.9	.2	.1							6.8	7.2	7.0
290-310	1.0	2.0	.7	.1								3.8	6.6	6.0
320-340	1.3	1.0	1.2	.3	.1							4.0	8.1	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	12.1	////	////
TOTALS	35.5	39.5	10.7	1.4	.5	.1						100.0	5.2	5.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO. 4-3

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	1.7	.8	.1	.1							4.8	6.3	5.0
020-040	4.0	3.1	1.4	.1								8.6	5.7	5.0
050-070	2.7	1.8	.8	.1								5.4	5.5	4.0
(E) 080-100	1.2	.3	.0									1.6	3.4	3.0
110-130	.9	.5	.0	.0								1.5	4.3	4.0
140-160	1.4	.8	.1	.0								2.3	4.3	4.0
(S) 170-190	2.9	1.5	.1	.1		.0						4.7	4.3	4.0
200-220	5.0	4.8	2.0	.6	.1	.0						12.6	6.5	6.0
230-250	4.7	8.9	6.1	2.8	1.2	.2	.0	.0				24.0	9.5	8.0
(W) 260-280	3.4	4.3	3.0	1.0	.3	.0	.0					12.1	8.0	7.0
290-310	1.9	2.0	1.2	.3	.2							5.7	7.3	7.0
320-340	1.6	1.9	1.3	.3	.0							5.2	7.3	6.5
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.6	//////////	
TOTALS	31.7	31.6	16.8	5.4	1.9	.2						100.0	6.4	6.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

	WIND SPEED IN KNOTS												
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	5.8	6.5	1.7	.2								14.2	5.9	5.5
020-040	15.7	17.0	4.5									37.2	5.6	5.0
050-070	3.9	3.0	1.7	.9								9.5	7.0	6.0
(E) 080-100	.2											.2	2.0	2.0
110-130														
140-160	.2											.2	4.0	4.0
(S) 170-190														
200-220	.4	.4	1.1									1.9	7.8	10.0
230-250	1.3	2.8	.4		.2							4.7	7.0	7.5
(W) 260-280	1.5	.6	.2	.2	.4							3.0	7.6	5.0
290-310	1.9	3.0	1.3	.4	1.3							8.0	9.4	8.0
320-340	2.6	4.5	5.4	2.6	.2							15.3	9.7	10.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	5.8	////	////
TOTALS	33.5	37.8	16.3	4.3	2.1							100.0	6.6	6.0

TOTAL NUMBER OF OBSERVATIONS 465

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	1.0	.9	.1								2.9	7.2	6.0
020-040	1.3	.6	.8	.1	.1							2.9	6.7	5.0
050-070	.4	.2	.1									.8	5.0	4.0
(E) 080-100	.3			.1								.4	6.5	3.0
110-130	.1											.1	1.0	1.0
140-160	1.0	.3										1.3	2.9	2.0
(S) 170-190	4.3	1.8	.3	.2								6.7	4.6	4.0
200-220	10.1	10.0	3.1	.2	.2							23.7	5.9	5.0
230-250	6.7	14.3	6.8	1.7	.1	.3						29.9	7.9	7.5
(W) 260-280	3.4	3.1	1.9	.2								8.7	6.5	6.0
290-310	1.4	1.1	.4	.1								3.0	5.6	5.0
320-340	1.5	1.3	.8	.2								3.8	6.7	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	15.9	//////////	
TOTALS	31.5	33.7	15.1	2.9	.4	.3						100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.1	.5									3.0	6.0	5.0
020-040	1.2	1.2	.9	.3								3.5	7.5	7.0
050-070	.5		.1									.6	5.0	4.0
(E) 080-100	.1											.1	2.0	2.0
110-130	.1											.1	2.0	2.0
140-160	1.3	.2										1.5	2.6	2.0
(S) 170-190	3.7	2.2	.5									6.3	4.6	4.0
200-220	6.3	8.5	4.2	.2								19.2	6.7	6.0
230-250	10.2	12.9	7.2	2.3	.5	.2						33.3	7.7	7.0
(W) 260-280	3.8	3.3	.5									7.7	5.3	5.0
290-310	2.2	2.2	.6	.2	.1							5.3	6.6	6.0
320-340	1.2	1.2	.2	.1								2.7	5.9	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	16.5	////	////
TOTALS	32.0	32.8	14.8	3.1	.6	.2						100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	.6	.3									2.6	4.6	4.0
020-040	.6	1.6	.6	.2								3.1	8.6	8.0
050-070	.4	.3										.8	4.0	3.0
(E) 080-100	.4	.1										.5	1.8	1.0
110-130	.3	.1										.9	3.0	3.0
140-160	1.3											1.3	1.9	2.0
(S) 170-190	3.1	1.9	.3	.1								5.5	4.9	4.0
200-220	6.2	8.3	4.5	.4	.1							19.6	7.0	6.0
230-250	8.3	10.8	8.7	2.6		.2						30.5	8.1	8.0
(W) 260-290	3.7	4.1	1.3	.2	.1							9.4	6.1	6.0
290-310	1.4	1.2	.6	.3	.3							3.9	7.8	5.5
320-340	1.5	1.3	.6		.1							3.5	6.5	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	18.5	////	////
TOTALS	29.3	30.3	16.9	3.8	.6	.2						100.0	5.7	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.4	1.4	.8	.3								2.9	8.7	8.0
020-040	2.2	1.7	1.0									4.8	6.1	5.0
050-070	1.0	.3										1.3	3.3	3.0
(E) 080-100	.4	.1										.5	3.2	3.0
110-130	.4	.1										.5	3.0	2.0
140-160	1.2	.1										1.3	2.7	2.5
(S) 170-190	1.4	.5	.4	.3	.1							2.8	7.3	4.5
200-220	2.5	2.3	3.5	2.3	.8							11.3	10.7	11.0
230-250	4.0	10.2	13.1	8.6	3.4	.3						40.1	11.9	12.0
(W) 260-280	3.5	6.5	2.7	1.9	.2	.1						14.9	8.3	7.0
290-310	2.3	.8	.3	.1								3.4	5.0	4.0
320-340	2.0	1.8	1.7	.3	.2	.2						6.3	8.3	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	9.7	////	////
TOTALS	21.3	25.8	23.5	13.8	4.7	1.1						100.0	8.8	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	2.3	1.5	.3								5.9	7.5	7.0
020-040	2.3	2.0	1.3	.3								5.9	6.8	6.0
050-070	1.4	1.8	.5									3.8	6.0	6.0
(E) 080-100	1.0	1.0	.1									2.0	4.6	5.0
110-130	.6	.2										.9	3.5	3.0
140-160	.1											.1	1.0	1.0
(S) 170-190	.9	.2	.5	.2								1.8	7.6	6.0
200-220	.6	1.5	3.5	2.0	.4	.1						8.3	12.2	12.0
230-250	1.9	7.2	12.3	8.9	4.4	.9						35.5	13.3	13.0
(W) 260-290	3.3	5.3	4.7	2.6	1.8	.4						18.2	10.8	10.0
290-310	1.9	2.2	1.7	.2								6.0	7.2	6.5
320-340	1.4	2.4	1.9	.5	.1							6.3	8.6	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	5.3	////	////
TOTALS	17.1	25.1	28.0	15.0	6.7	1.4						100.0	10.0	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	2.0	1.7	.1								4.8	7.8	8.0
020-040	3.2	5.1	1.9	.2								10.4	6.6	6.0
050-070	3.1	2.7	.9	.1								6.8	5.6	5.0
(E) 080-100	.8											.8	2.7	3.0
110-130	.5	.1										.6	2.3	2.0
140-160	.3	.1										.4	3.5	3.0
(S) 170-190	1.1	.9	.1	.2								2.3	6.0	5.0
200-220	1.6	5.3	3.2	.9	.3	.1						11.4	9.9	8.0
230-250	3.0	10.1	9.2	6.7	2.6	.2						31.8	11.4	11.0
(W) 260-280	2.6	3.2	4.0	2.2	.8		.1					12.8	10.2	10.0
290-310	1.8	3.5	1.5	.4								7.3	7.2	7.0
320-340	1.7	2.2	1.5	.4	.1		.1					6.0	8.0	6.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	4.5	////	////
TOTALS	20.7	35.2	24.0	11.2	3.8	.3	.2					100.0	8.6	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	1.7	.4	.1	.1							2.9	7.3	6.0
020-040	2.3	2.0	1.4	.1								6.3	6.4	6.0
050-070	2.4	.8	.2									3.3	3.9	3.0
(E) 080-100	1.1		.1									1.2	2.8	2.0
110-130	1.2	.6										1.8	3.8	3.0
140-160	2.8	.5										3.3	3.4	3.0
(S) 170-190	5.2	2.3	.1									7.5	4.1	4.0
200-220	5.1	11.3	3.3	.4	.2							20.3	6.9	6.0
230-250	4.1	10.8	5.9	3.3	.3							24.4	8.8	8.0
(W) 260-280	1.8	3.8	3.2	.2	.1							9.1	8.4	8.0
290-310	1.6	1.7	.5	.1								4.0	5.7	5.0
320-340	1.6	1.5	.8	.1								4.0	6.4	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.7	//////////	
TOTALS	30.2	37.0	15.9	4.3	.7							100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	1.1	.6	.2	.2							4.1	7.0	5.0
020-040	.8	1.0	.8	.6								3.1	8.5	8.0
050-070	.3	.2	.2									.8	6.4	7.0
(E) 080-100	.4											.4	2.3	2.0
110-130	.8	.3										1.1	3.6	3.0
140-160	2.7	1.4	.3									4.4	3.9	4.0
(S) 170-190	5.5	4.1	.2									9.8	4.3	4.0
200-220	7.0	11.2	2.5	.2	.3	.1						21.3	6.4	6.0
230-250	5.7	14.7	6.8	2.0	.3							29.6	8.1	7.0
(W) 260-280	1.3	4.1	1.0									6.3	6.7	6.0
290-310	1.0	.9	.6	.1								2.6	7.1	6.0
320-340	1.1	1.2	.1	.2								2.6	5.9	5.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.4	.8	.1	.0							3.6	7.1	6.0
020-040	1.8	1.9	1.1	.2	.0							5.0	6.9	6.0
050-070	1.2	.8	.3	.0								2.3	5.1	4.0
(E) 080-100	.6	.1	.0	.0								.8	3.6	3.0
110-130	.6	.2										.8	3.3	3.0
140-160	1.3	.3	.0									1.7	3.2	3.0
(S) 170-190	3.1	1.7	.3	.1	.0							5.3	4.9	4.0
200-220	4.9	7.3	3.5	.8	.3	.0						16.9	7.4	6.0
230-250	5.5	11.4	8.8	4.5	1.5	.3						31.9	9.8	9.0
(W) 260-280	2.9	4.2	2.4	.9	.4	.1	.0					10.9	8.3	7.0
290-310	1.7	1.7	.8	.2	.1							4.4	6.7	6.0
320-340	1.5	1.6	1.0	.2	.1	.0	.0					4.4	7.4	6.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	12.0	//////	//////
TOTALS	26.3	32.6	19.0	7.0	2.4	.4						100.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

	WIND SPEED IN KNOTS													
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	5.0	8.7	6.1									19.8	7.3	7.0
020-040	2.3	9.9	8.7	2.3	.3							23.6	9.6	9.0
050-070	.9	.9	.3									2.0	5.6	5.0
(E) 080-100	.3											.3	2.0	2.0
110-130	.3											.3	2.0	2.0
140-160	.3											.3	2.0	2.0
(S) 170-190	.3	.3										.6	5.0	5.0
200-220	1.5	.9										2.3	3.8	4.0
230-250	2.3	1.2	.9									4.4	5.7	4.0
(W) 260-280	1.7	2.0	.9									4.7	6.1	6.5
290-310	5.2	6.4	2.3	.3	.9							15.2	7.2	6.0
320-340	3.5	7.6	5.5	1.2	.9		.3					19.0	9.1	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	7.6	////	////
TOTALS	23.6	37.9	24.7	3.8	2.1		.3					100.0	7.3	7.0

TOTAL NUMBER OF OBSERVATIONS 343

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.8	.7	.3								3.0	7.4	8.0
020-040	1.9	2.0	.8									4.7	6.0	6.5
050-070	.3	.1	.1									.6	5.4	4.0
(E) 080-100	.3											.3	2.3	2.0
110-130		.1										.1	6.0	6.0
140-160	.8	.1										.9	2.5	2.0
(S) 170-190	2.8	1.1	.2									4.1	4.1	4.0
200-220	5.1	9.7	5.2	1.0								21.0	7.5	7.0
230-250	6.3	14.6	12.1	4.0	1.2	.2	.2	.1				38.8	9.6	9.0
(W) 260-280	2.7	1.6	1.1	.3	.2	.1						6.0	7.2	5.0
290-310	2.1	.9	.2									3.2	4.3	4.0
320-340	1.3	1.2	1.2	.4								4.2	7.8	6.5
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	13.1	//////////	
TOTALS	24.8	32.2	21.6	6.0	1.4	.3	.2	.1				100.0	6.9	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.7	.4	.4								2.3	7.8	8.0
020-040	1.1	1.8	.6									3.4	6.2	6.0
050-070	.8	.2										1.0	3.2	2.0
(E) 080-100														
110-130														
140-160	.4	.1										.6	3.4	3.0
(S) 170-190	2.3	1.7	.4									4.4	4.8	4.0
200-220	4.9	10.0	4.3	1.1								20.3	7.5	7.0
230-250	6.0	14.3	13.4	5.0	1.3	.2	.3					40.7	9.9	9.5
(W) 260-280	2.7	3.0	.7	.2	.1							6.7	6.3	5.5
290-310	1.2	1.3	.7									3.2	6.5	6.0
320-340	.9	2.2	.8	.2								4.1	7.5	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.2	////	////
TOTALS	21.1	35.3	21.3	6.9	1.4	.2	.3					100.0	7.1	9.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	1.1	.7	.3	.1							3.6	7.6	6.0
020-040	1.6	1.8	.7	.1	.1							4.2	6.5	5.0
050-070	1.4	.2	.2									1.9	4.3	3.0
(E) 080-100	.1											.1	1.0	1.0
110-130	.2											.2	2.5	2.5
140-160	.7											.7	2.2	2.0
(S) 170-190	1.1	.7	.2	.1								2.1	5.5	4.0
200-220	5.3	9.6	6.7	1.9	.2							23.7	8.1	8.0
230-250	5.1	15.1	11.6	4.2	1.2	.6	.1					37.9	10.0	9.0
(W) 260-280	2.2	2.6	1.1	.3								6.2	6.9	7.0
290-310	1.1	1.1	.1									2.3	4.9	5.0
320-340	1.6	1.5	.8	.1								4.0	6.1	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.1	////	////
TOTALS	21.7	33.8	22.1	7.0	1.6	.6	.1					100.0	7.3	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	2.0	.7	.2	.2							4.0	8.2	7.5
020-040	3.0	2.4	.7	.1	.1							6.3	5.8	5.0
050-070	1.2	.7	.2									2.1	4.4	4.0
(E) 080-100	.4											.4	1.8	2.0
110-130	.2	.3										.6	4.6	5.0
140-160	1.2											1.2	2.1	2.0
(S) 170-190	1.3	.8	.3	.1								2.6	5.2	4.0
200-220	1.6	5.2	6.7	3.3	.6							17.3	10.8	10.0
230-250	4.2	9.1	15.3	8.7	2.4	.9			.1			40.7	12.0	12.0
(W) 260-280	2.1	3.1	.9	.6	.3	.1	.2					7.3	9.0	7.0
290-310	1.4	1.4	.4									3.3	5.5	5.0
320-340	1.1	1.9	.6	.1								3.7	6.5	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	10.4	//////////	
TOTALS	18.6	26.9	25.8	13.1	3.6	.9	.2		.1			100.0	8.8	9.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	1.9	1.1	.2	.2							4.2	8.3	7.0
020-040	2.4	4.1	.9	.3								7.8	6.6	6.0
050-070	2.0	.7										2.7	3.6	3.5
(E) 080-100	1.1											1.1	1.9	2.0
110-130	.3											.3	2.7	2.0
140-160	.8	1.1										1.9	4.4	5.0
(S) 170-190	.6	.3	.2									1.1	5.8	5.0
200-220	1.0	2.4	5.1	3.0	1.4							13.0	12.7	13.0
230-250	1.6	5.7	14.7	11.8	3.7	.9	.1					38.3	13.6	14.0
(W) 260-280	2.3	3.8	3.2	2.8	1.0	.6	.1	.1				13.9	11.4	10.0
290-310	.8	2.2	1.4	.1								4.6	8.0	8.0
320-340	1.0	1.6	1.4	.2								4.2	8.1	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	6.9	////	////
TOTALS	14.7	23.8	28.0	18.4	6.3	1.5	.2	.1				100.0	10.3	11.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	1.7	1.0	.1	.3							3.8	8.7	8.0
020-040	3.6	4.1	1.4	.3	.1							9.6	6.5	5.5
050-070	2.0	1.0	.1									3.1	4.0	4.0
(E) 080-100	.6											.6	1.8	2.0
110-130	.1	.1										.2	3.5	3.5
140-160	.3	.2										1.0	3.4	3.0
(S) 170-190	1.2	.4	.2									1.9	4.2	4.0
200-220	2.8	4.9	3.7	1.6	.9	.2						14.0	9.6	8.0
230-250	3.2	10.2	14.4	7.6	3.0	.3						38.8	11.7	12.0
(W) 260-280	1.1	3.2	2.8	2.2	.6	.1						10.0	10.9	10.0
290-310	1.3	1.8	.6	.3								4.4	6.7	6.0
320-340	1.8	1.7	1.3	.3								5.1	7.4	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	7.6	////	////
TOTALS	19.7	29.3	25.5	12.4	4.9	.6						100.0	8.9	9.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.1	.4	.3								3.3	6.8	5.5
020-040	3.1	3.1	1.2									7.4	6.0	6.0
050-070	1.1	.4										1.6	3.8	3.0
(E) 080-100	.2	.1										.3	3.3	3.0
110-130	.1	.2										.3	4.7	6.0
140-160	1.6	.1										1.7	2.7	2.0
(S) 170-190	2.9	1.6										4.4	4.3	4.0
200-220	4.2	11.4	4.7	1.4	.3	.2						22.3	8.1	7.0
230-250	2.4	13.7	12.6	2.6	1.7	.1	.1					33.1	10.2	10.0
(W) 260-280	1.7	3.2	1.8	.6	.2							7.4	8.3	7.0
290-310	.9	1.4	.6	.1								3.0	6.9	7.0
320-340	1.3	1.9	1.1	.2								4.6	7.6	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	10.4	//////	//////
TOTALS	20.9	38.2	22.4	5.2	2.2	.3	.1					100.0	7.4	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	1.2	.8	.1								3.8	6.6	7.0
020-040	1.4	3.6	.7	.1								5.8	6.4	6.0
050-070	.9	.1										1.0	3.1	2.0
(E) 080-100	.3											.3	2.3	2.0
110-130		.2										.2	6.0	6.0
140-160	.2	.3										.6	4.0	5.0
(S) 170-190	2.9	2.0	.4									5.3	5.0	4.0
200-220	4.3	9.2	4.6	1.4								19.6	7.6	7.0
230-250	4.4	15.2	11.8	4.2	1.1	.4	.1					37.3	9.8	9.0
(W) 260-280	2.3	3.6	1.7	.1								7.7	6.9	6.0
290-310	1.9	1.1	.2									3.2	5.0	4.0
320-340	1.0	1.4	.7	.1								3.2	6.8	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	12.0	////	////
TOTALS	21.3	37.9	20.9	6.0	1.1	.4	.1					100.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	1.3	.7	.3	.1							3.5	7.7	7.0
020-040	2.3	2.9	.9	.1	.0							6.2	6.3	6.0
050-070	1.2	.4	.1									1.7	3.9	3.0
(E) 080-100	.4	.0										.4	2.1	2.0
110-130	.1	.1										.3	4.2	4.5
140-160	.8	.3										1.1	3.1	2.5
(S) 170-190	1.9	1.1	.3	.0								3.2	4.8	4.0
200-220	3.7	7.8	5.1	1.8	.4	.1						18.9	8.7	8.0
230-250	4.2	12.2	13.2	6.0	2.0	.4	.1	.0	.0			38.2	10.9	10.0
(W) 260-280	2.1	3.0	1.7	.9	.3	.1	.0	.0				8.2	8.8	8.0
290-310	1.4	1.4	.5	.1								3.4	6.1	6.0
320-340	1.3	1.7	1.0	.2								4.1	7.3	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	10.8	////	////
TOTALS	20.5	32.2	23.5	9.4	2.8	.6	.1					100.0	8.0	8.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

	WIND SPEED IN KNOTS													
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.3	9.1	4.9	1.1	.2							19.6	7.7	7.0
020-040	6.3	13.2	4.9	.5								24.9	6.9	6.0
050-070	2.1	1.3	.9									4.3	5.8	5.0
(E) 080-100	.2											.2	1.0	1.0
110-130		.2										.2	6.0	6.0
140-160	.5											.5	2.3	3.0
(S) 170-190														
200-220	1.6	.9	.5									3.0	5.2	4.0
230-250	1.7	1.3	.3						.2			3.5	7.1	4.5
(W) 260-280	3.6	3.0	1.3									7.9	5.8	5.0
290-310	3.8	2.7	1.3	.2								7.9	5.9	5.0
320-340	2.7	8.0	4.6	1.4								16.7	8.3	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.5	////	////
TOTALS	26.3	39.7	18.7	3.2	.2				.2			100.0	6.2	6.0

TOTAL NUMBER OF OBSERVATIONS 634

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	2.0	.6	.4								4.1	7.6	6.5
020-040	1.9	1.6	.5	.2								4.3	6.3	6.0
050-070	.6	.3	.1									1.1	5.1	4.0
(E) 080-100	.1	.1										.2	3.5	3.5
110-130	.1											.1	4.0	4.0
140-160	.2	.1										.3	5.7	4.0
(S) 170-190	2.3	.3	.2									2.8	3.5	3.0
200-220	3.2	6.2	5.4	3.7	.9	.2	.1					19.7	10.4	10.0
230-250	4.3	11.3	13.4	8.2	3.7	.6	.1	.1				41.7	11.7	11.5
(W) 260-280	2.9	3.0	1.9	.6	.2	.1						8.8	7.7	6.5
290-310	1.2	1.2	.1									2.5	4.7	5.0
320-340	.5	1.4	.4	.2	.1							2.7	8.6	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.7	////	////
TOTALS	19.3	27.5	22.6	13.3	4.9	.9	.2	.1				100.0	8.7	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	1.5	.3	.1								2.9	5.8	6.0
020-040	1.3	1.6	.3	.4								3.7	6.7	5.5
050-070	1.5	.4	.2									2.2	4.3	3.0
(E) 080-100	.4											.4	2.3	2.5
110-130	.1		.1									.2	8.0	8.0
140-160	.5	.1										.6	3.3	3.5
(S) 170-190	1.7	.8	.2	.2								2.9	5.4	4.0
200-220	5.1	6.0	5.1	3.0	2.4	.4						21.9	10.5	9.0
230-250	4.4	9.5	12.2	8.3	2.5	1.0	.4					38.2	11.9	12.0
(W) 260-280	2.3	3.9	.9	.9	.2							8.1	7.7	6.0
290-310	1.1	1.1	.6									2.8	6.2	6.0
320-340	1.2	.6	.5	.3								2.7	7.3	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	13.4	//////////	//////////
TOTALS	20.6	25.5	20.4	13.2	5.1	1.4	.4					100.0	8.6	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	1.5	.3									3.5	5.2	5.0
020-040	2.0	2.2	.4									4.6	5.6	5.0
050-070	1.1	.8	.2									2.0	5.0	4.0
(E) 080-100	.1											.1	3.0	3.0
110-130	.1											.1	3.0	3.0
140-160	.3											.3	2.7	2.0
(S) 170-190	1.2	.1	.1	.1								1.5	4.8	3.5
200-220	3.0	6.3	5.7	2.8	1.8	.2						19.9	10.7	10.0
230-250	4.5	11.5	11.5	8.0	3.0	1.2	.8					40.4	12.0	11.0
(W) 260-280	2.8	2.8	1.2	.6	.2							7.6	7.2	6.0
290-310	1.3	1.4	.2	.1								3.5	5.3	4.0
320-340	1.3	1.3	.2	.2	.1							3.1	6.8	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	13.1	//////////	
TOTALS	19.9	27.9	19.8	11.8	5.1	1.4	.8					100.0	8.5	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.5	1.1	.2								4.0	7.5	8.0
020-040	1.9	2.4	1.3									5.6	6.8	6.5
050-070	1.8	.9	.3									3.0	4.4	4.0
(E) 080-100	.5	.1										.6	2.8	3.0
110-130	.2	.1										.3	4.0	2.0
140-160	.4	.1										.5	3.2	2.0
(S) 170-190	1.2	.3	.1		.1							1.7	5.0	3.5
200-220	2.9	4.4	5.2	3.8	1.7	.3	.2					18.5	11.6	11.0
230-250	4.4	8.4	11.0	9.6	5.5	2.2	.5	.1				41.6	13.4	13.0
(W) 260-280	1.9	2.4	1.3	.6	.4	.3						7.0	9.3	8.0
290-310	1.3	1.0	.3		.1							2.7	6.1	5.0
320-340	1.1	1.4	.8	.2								3.4	7.7	7.5
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.0	//////////	//////////
TOTALS	18.8	23.0	21.4	14.4	7.8	2.8	.7	.1				100.0	9.7	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	2.0	1.0	.2								4.5	7.4	8.0
020-040	2.5	2.9	.8									6.1	5.8	5.0
050-070	2.2	1.2										3.3	3.7	4.0
(E) 080-100	1.2											1.2	2.7	2.0
110-130	.5	.2										.8	3.3	2.0
140-160	.2											.2	1.0	1.0
(S) 170-190	.8											.8	2.1	2.0
200-220	1.5	2.3	3.8	3.3	1.3	.3	.1					12.6	12.8	13.0
230-250	1.9	5.2	11.1	11.7	7.1	3.1	.9					40.9	15.4	15.0
(W) 260-280	1.0	2.3	2.4	1.7	1.8	1.3	.3					10.8	14.9	14.0
290-310	1.6	2.6	.8	.1								5.1	6.4	6.0
320-340	1.3	2.8	1.6	.6								6.3	8.1	8.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	2.2	.5									4.1	5.8	5.5
020-040	3.4	3.5	.6	.1	.1							7.8	5.5	5.0
050-070	2.8	1.9										4.7	4.3	4.0
(E) 080-100	.6	.1										.8	2.7	2.0
110-130	.3											.3	2.3	2.0
140-160	.2											.2	3.5	3.5
(S) 170-190	1.0	.1	.6	.1								1.8	7.6	4.0
200-220	1.7	5.8	3.5	1.3	.3	.4						13.1	9.7	8.0
230-250	2.5	6.9	13.9	9.1	5.8	1.4	.6					40.2	14.0	14.0
(W) 260-280	1.0	2.2	2.8	1.1	1.0	.4						8.4	12.1	11.0
290-310	1.0	1.8	.3	.2	.2	.1						3.7	8.2	6.0
320-340	2.2	2.3	1.1	.6	.1							6.2	7.7	7.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	8.6	////	////
TOTALS	19.1	26.8	23.3	12.5	7.5	2.3	.6					100.0	9.7	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	1.8	1.1									4.6	6.5	6.0
020-040	2.9	2.9	.5	.1	.1							6.6	5.6	5.0
050-070	1.0	.6										1.6	3.7	3.0
(E) 080-100	.2	.1										.3	3.0	2.0
110-130	.1	.1										.2	3.5	3.5
140-160	.3											.3	3.0	3.0
(S) 170-190	2.0	.3	.2									3.0	4.2	3.0
200-220	4.3	8.3	5.5	2.0	.8	.2	.2	.1				21.4	9.5	8.0
230-250	3.0	11.1	11.5	6.6	4.1	1.1	.1					37.4	12.1	11.0
(W) 260-280	1.3	2.8	1.8	1.3	.6							7.8	10.1	9.0
290-310	.9	1.6	.3	.2								3.0	6.8	6.0
320-340	2.2	1.6	.8		.1							4.6	6.1	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	9.0	//////////	
TOTALS	19.9	31.7	21.7	10.2	5.7	1.3	.3	.1				100.0	8.7	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.2	.9	.1								3.3	6.7	6.0
020-040	2.4	1.6	.8	.2								4.9	6.2	5.0
050-070	.8	.6										1.4	4.6	4.0
(E) 080-100	.2											.2	2.5	2.5
110-130	.1	.3										.4	6.0	6.0
140-160	.3											.3	2.0	2.0
(S) 170-190	2.5	.5		.1								3.1	3.7	3.0
200-220	3.0	5.6	5.6	1.9	.9	.5						17.5	10.2	10.0
230-250	4.7	13.8	13.8	6.6	3.8	1.0	.4	.1				44.1	11.5	11.0
(W) 260-280	1.7	3.0	1.7	.6	.5	.1						7.7	9.3	8.0
290-310	1.0	1.4	.1									2.5	5.6	5.0
320-340	1.1	1.5	.4	.2	.1							3.3	6.6	5.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.1	//////////	//////////
TOTALS	19.0	29.5	23.3	9.7	5.3	1.6	.4	.1				100.0	8.7	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	1.7	.7	.1								3.9	6.6	6.0
020-040	2.3	2.3	.7	.1	.0							5.5	6.0	5.0
050-070	1.5	.8	.1									2.4	4.3	4.0
(E) 080-100	.4	.1										.5	2.8	2.0
110-130	.2	.1	.0									.3	4.2	3.0
140-160	.3	.0										.4	3.1	2.0
(S) 170-190	1.6	.4	.2	.1	.0							2.2	4.6	3.0
200-220	3.1	5.6	5.0	2.7	1.3	.3	.1	.0				18.1	10.6	10.0
230-250	3.7	9.7	12.3	8.5	4.4	1.4	.5	.0				40.6	12.8	12.0
(W) 260-280	1.9	2.8	1.7	.9	.6	.3	.0					8.3	10.0	8.0
290-310	1.2	1.5	.3	.1	.0	.0						3.2	6.3	5.0
320-340	1.3	1.6	.7	.3	.1							4.1	7.4	7.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	10.7	//////////	//////////
TOTALS	18.8	26.6	21.7	12.8	5.4	2.0	.6					100.0	9.2	9.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.5	11.0	4.0	.5								18.9	7.6	7.0
020-040	8.4	8.9	3.3	1.6	.2							22.4	7.0	5.0
050-070	3.0	1.4	.2									4.7	4.7	4.0
(E) 080-100														
110-130	.2											.2	2.0	2.0
140-160														
(S) 170-190	.7	.5										1.2	3.8	4.0
200-220	3.0	2.1										5.1	3.9	3.0
230-250	.5	2.8	2.6	1.4	.5							7.7	10.7	11.0
(W) 260-280	2.1	3.0	.9									6.1	6.1	6.0
290-310	2.6	3.0	1.2	.2								7.0	6.7	6.0
320-340	3.3	9.3	4.0	2.1	.7							19.4	8.7	8.0
VARIABLE														
CALM	//////////////

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: ALL HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	1.7	.9	.2	.0	.0						4.5	6.7	6.0
020-040	2.8	3.1	1.2	.2	.0	.0						7.3	6.4	6.0
050-070	2.1	1.7	.5	.1	.0							4.3	5.4	5.0
(E) 080-100	1.1	.5	.1	.0	.0							1.7	4.4	4.0
110-130	.8	.5	.2	.1	.0							1.6	5.4	4.0
140-160	1.3	.7	.2	.0	.0	.0						2.3	4.6	4.0
(S) 170-190	2.6	1.6	.3	.1	.0	.0						4.6	4.8	4.0
200-220	4.2	5.6	3.0	1.2	.4	.1	.0	.0				14.5	8.0	7.0
230-250	4.1	8.7	8.1	4.4	1.8	.5	.1	.0	.0			27.8	10.7	10.0
(W) 260-280	2.5	3.8	2.6	1.3	.6	.1	.0	.0	.0			11.0	9.3	8.0
290-310	1.6	2.0	1.0	.3	.1	.0	.0					5.0	7.2	6.0
320-340	1.6	1.9	1.0	.3	.1	.0	.0					4.7	7.2	6.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	10.8	//////////	//////////
TOTALS	26.4	31.7	19.1	8.2	3.0	.7	.1					100.0	7.3	7.0

TOTAL NUMBER OF OBSERVATIONS: 87664

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: ALL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.6	7.9	4.4	1.2	.1							17.2	8.0	8.0
020-040	6.6	12.1	6.5	1.8	.3	.0						27.2	7.8	7.0
050-070	2.8	2.5	1.3	.4	.0							7.0	6.7	6.0
(E) 080-100	.6	.1	.0	.0								.7	3.6	2.5
110-130	.2	.1	.0									.3	4.0	2.0
140-160	.3	.1										.3	3.6	3.0
(S) 170-190	.4	.1	.0									.6	3.9	4.0
200-220	1.5	.8	.3		.0	.0						2.6	4.9	4.0
230-250	1.6	2.5	.9	.4	.2				.0			5.7	8.0	7.0
(W) 260-280	1.5	3.0	1.0	.2	.1							5.9	7.1	6.0
290-310	2.4	3.4	1.5	.5	.3	.0						8.1	7.7	7.0
320-340	2.8	6.4	4.1	1.5	.5	.0	.0					15.3	8.8	8.0
VARIABLE														
CALM	//////////////

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT      DDDDDDDD
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT      DDDDDDDDD
PP      PP     AA    AA     RR     RR        TT           DD      DD
PP      PP     AA    AA     RR     RR        TT           DD      DD
PPPPPPPPP      AA    AA     RRRRRRRRR        TT           DD      DD
PPPPPPPP       AAAAAAAAAA     RRRRRRRR       TT           DD      DD
PP             AAAAAAAAAA     RR    RR       TT           DD      DD
PP             AA    AA     RR     RR        TT           DD      DD
PP             AA    AA     RR     RR        TT           DDDDDDDDD
PP             AA    AA     RR     RR        TT           DDDDDDDDD
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PART D

CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CEILING VS VISIBILITY--PERCENT OCCURRENCE FREQUENCY (POF).
CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY IS A BIVARIATE DISTRIBUTION OF PERCENTAGE FREQUENCY BY CLASSES OF CEILING (FROM ZERO FEET TO 20,000 FEET--"NO CEILING" IS A SEPARATE CLASS) VERSUS VISIBILITY CLASSES (FROM ZERO MILES (METERS) TO GREATER THAN OR EQUAL TO 7 STATUTE MILES (11,200 METERS)). THE TABLES SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).

- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).

- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

BECAUSE OF THE CUMULATIVE NATURE OF THESE SUMMARIES, IT IS POSSIBLE TO DETERMINE THE PERCENTAGE OCCURRENCE FREQUENCY (POF) FOR ANY GIVEN CEILING AND/OR VISIBILITY LIMIT(S), EITHER SEPARATELY OR IN ANY COMBINATION. TOTALS PROGRESS FROM RIGHT TO LEFT AND FROM BOTTOM TO TOP. TO DETERMINE CEILING ALONE, REFER TO THE EXTREME RIGHT-HAND COLUMN (ZERO VISIBILITY). TO DETERMINE VISIBILITY ALONE, REFER TO THE BOTTOM ROW (ZERO CEILINGS). DETERMINE THE POF THAT MEETS OR EXCEEDS ANY GIVEN SET OF MAXIMA BY READING THE VALUE AT THE INTERSECTION OF THE APPROPRIATE CEILING ROW AND VISIBILITY COLUMN.

NOTE 1: IN JANUARY 1968, METAR STATIONS BEGAN REPORTING VISIBILITIES TO 6 STATUTE MILES OR 9000 METERS. VALUES EXCEEDING 9000 METERS ARE REPORTED AS "9999."

NOTE 2: FOR OVERSEAS CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS GREATER THAN 5000 FEET APPEAR IN THE 5000 FEET CLASS.

CONVERSIONS: 1 STATUTE MILE = 1,609.344 METERS = .868391 NAUTICAL MILES.
FOR CONVENIENCE, THE CONVERSION OFTEN USED IS 1 STATUTE MILE = 1,600 METERS.

SKY COVER--PERCENT OCCURRENCE FREQUENCY.
ALSO CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY GIVES PERCENTAGE OCCURRENCE FREQUENCY (POF) OF SKY COVER IN EIGHTHS FOR SYNOPTIC STATIONS, BUT AS CLEAR, SCATTERED, BROKEN, OVERCAST, PARTIALLY OBSCURRED, OR TOTALLY OBSCURRED FOR AIRWAYS STATIONS. FOR AIRWAYS STATIONS, THIS SUMMARY ALSO GIVES POF FOR SKY COVER GREATER THAN ONE-HALF (I.E., 6/10). DATA IS SUMMARIZED THE SAME AS FOR PREVIOUS TABLE.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR METAR REPORTING STATIONS.

NOTE 2. AIRWAYS STATIONS THAT HAVE REPORTED IN SYNOPTIC CODE HAVE HAD THEIR SYNOPTIC SKY COVER REPORTS CONVERTED AS FOLLOWS:

0/8.....CLEAR

1/8 THRU 4/8.....SCATTERED

5/8 THRU 7/8.....BROKEN

9/8.....OVERCAST

NOTE 3. "PARTIAL OBSCURATION" IS A SEPARATE CATEGORY NOT INCLUDED IN COMPUTATION OF "GREATER THAN 1/2" PERCENTAGES. "TOTAL OBSCURATIONS," HOWEVER, ARE INCLUDED.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.5	56.5	57.0	57.3	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.5
GE 20000	62.6	62.9	63.1	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.7	63.7	63.7	63.7
GE 18000	62.9	63.2	63.4	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0
GE 16000	63.4	63.8	64.0	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5
GE 14000	64.3	64.6	64.8	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4
GE 12000	67.6	68.0	68.2	68.5	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.7
GE 10000	74.7	75.1	75.3	75.6	75.6	75.7	75.8	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0
GE 9000	75.4	75.7	75.9	76.2	76.2	76.3	76.5	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.7
GE 8000	81.0	81.3	81.5	81.8	81.8	81.9	82.0	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.4
GE 7000	81.9	82.4	82.6	82.9	82.9	83.0	83.1	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4
GE 6000	82.0	82.5	82.7	83.0	83.0	83.1	83.2	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5
GE 5000	82.5	82.9	83.1	83.4	83.4	83.5	83.7	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0
GE 4500	83.1	83.5	83.9	84.2	84.2	84.3	84.4	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7
GE 4000	85.3	85.7	86.2	86.6	86.6	86.7	86.8	87.0	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1
GE 3500	86.0	86.6	87.2	87.6	87.7	87.8	88.3	88.5	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6
GE 3000	87.1	87.7	88.4	88.8	88.9	89.0	89.7	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1
GE 2500	88.0	88.6	89.4	89.8	90.0	90.1	90.8	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2
GE 2000	88.6	89.2	90.0	90.6	91.2	91.3	91.9	92.3	92.3	92.5	92.5	92.5	92.6	92.6	92.6	92.6
GE 1800	89.1	89.8	90.5	91.4	92.0	92.2	92.8	93.1	93.1	93.3	93.3	93.3	93.4	93.4	93.4	93.4
GE 1500	89.7	90.3	91.2	92.0	92.7	92.8	93.4	94.2	94.3	94.5	94.5	94.5	94.6	94.6	94.6	94.6
GE 1200	90.1	90.8	91.7	92.8	93.7	93.9	94.5	95.3	95.4	95.7	95.7	95.7	95.9	95.9	95.9	95.9
GE 1000	90.2	90.9	91.9	93.4	94.3	94.6	95.4	96.2	96.3	96.7	96.7	96.7	96.9	96.9	96.9	96.9
GE 900	90.2	90.9	92.0	93.5	94.5	94.8	95.6	96.5	96.6	97.1	97.1	97.1	97.3	97.3	97.3	97.3
GE 800	90.3	91.0	92.3	93.8	94.7	95.1	95.9	96.8	96.9	97.4	97.4	97.4	97.6	97.6	97.6	97.6
GE 700	90.4	91.1	92.5	94.0	94.9	95.3	96.1	97.0	97.1	97.7	97.8	97.8	98.1	98.1	98.1	98.1
GE 600	90.5	91.2	92.6	94.2	95.2	95.5	96.3	97.2	97.3	98.1	98.2	98.2	98.4	98.4	98.4	98.4
GE 500	90.6	91.3	92.7	94.3	95.3	95.7	96.7	97.5	97.6	98.4	98.5	98.5	98.7	98.7	98.7	98.7
GE 400	90.6	91.3	92.7	94.3	95.3	95.7	96.7	97.5	97.6	98.4	98.5	98.5	98.7	98.7	98.7	98.7
GE 300	90.6	91.3	92.7	94.4	95.4	95.8	96.8	97.6	97.7	98.5	98.6	98.6	99.0	99.0	99.0	99.0
GE 200	90.6	91.3	92.7	94.5	95.5	95.9	96.9	97.7	97.8	98.7	98.8	98.8	99.4	99.6	99.7	99.7
GE 100	90.6	91.3	92.7	94.5	95.5	95.9	96.9	97.7	97.8	98.7	98.8	98.8	99.4	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.5	55.6	55.7	55.8	56.6	56.6	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8	56.9	57.0
GE 20000	61.2	61.2	61.3	61.4	62.2	62.2	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.5	62.6
GE 18000	61.2	61.2	61.3	61.4	62.2	62.2	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.5	62.6
GE 16000	61.3	61.3	61.4	61.5	62.3	62.3	62.4	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.6	62.7
GE 14000	62.0	62.0	62.2	62.3	63.0	63.0	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.3	63.4
GE 12000	64.8	64.8	64.9	65.1	65.8	65.8	65.9	65.9	65.9	66.0	66.1	66.1	66.1	66.1	66.2	66.5
GE 10000	73.1	73.1	73.5	73.7	74.4	74.4	74.5	74.5	74.5	74.6	74.7	74.7	74.7	74.7	74.8	75.1
GE 9000	73.8	73.8	74.2	74.3	75.1	75.1	75.2	75.2	75.2	75.3	75.4	75.4	75.4	75.4	75.5	75.7
GE 8000	78.5	78.6	79.1	79.4	80.1	80.1	80.2	80.2	80.2	80.3	80.4	80.4	80.4	80.4	80.5	80.8
GE 7000	79.1	79.2	79.8	80.0	80.8	80.8	80.9	80.9	80.9	81.0	81.1	81.1	81.1	81.1	81.2	81.4
GE 6000	79.5	79.6	80.1	80.3	81.1	81.1	81.2	81.2	81.2	81.3	81.4	81.4	81.4	81.4	81.5	81.7
GE 5000	80.6	80.8	81.3	81.5	82.3	82.3	82.5	82.5	82.5	82.6	82.7	82.7	82.7	82.7	82.8	83.0
GE 4500	81.7	81.8	82.5	82.7	83.4	83.4	83.7	83.7	83.7	83.8	83.9	83.9	83.9	83.9	84.0	84.2
GE 4000	83.5	83.7	84.7	84.9	85.7	85.7	85.9	85.9	85.9	86.0	86.1	86.1	86.1	86.1	86.2	86.5
GE 3500	84.3	84.4	85.5	85.8	86.6	86.6	87.0	87.0	87.0	87.1	87.2	87.2	87.2	87.2	87.3	87.5
GE 3000	85.8	85.9	87.0	87.3	88.4	88.5	88.9	88.9	88.9	89.0	89.1	89.1	89.1	89.1	89.2	89.5
GE 2500	86.5	86.6	87.6	88.0	89.0	89.1	89.6	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.9	90.1
GE 2000	87.3	87.4	88.7	89.1	90.2	90.3	90.8	90.8	90.9	91.0	91.1	91.1	91.1	91.1	91.2	91.4
GE 1800	87.4	87.5	89.0	89.5	90.6	90.8	91.2	91.2	91.3	91.4	91.5	91.5	91.5	91.5	91.6	91.8
GE 1500	88.5	88.7	90.2	90.8	92.2	92.3	92.8	93.1	93.2	93.5	93.7	93.7	93.7	93.7	93.8	94.0
GE 1200	88.7	89.0	90.8	91.4	93.0	93.2	93.8	94.1	94.3	95.1	95.2	95.2	95.2	95.2	95.3	95.5
GE 1000	88.7	89.0	90.8	91.5	93.1	93.3	93.9	94.7	94.9	95.7	95.8	95.8	95.8	95.8	95.9	96.1
GE 900	88.7	89.0	90.8	91.5	93.2	93.4	94.0	94.8	95.1	95.9	96.0	96.0	96.0	96.0	96.1	96.3
GE 800	88.7	89.0	90.8	91.5	93.2	93.4	94.0	94.8	95.1	95.9	96.0	96.0	96.0	96.0	96.1	96.3
GE 700	88.7	89.0	90.8	91.5	93.2	93.4	94.0	94.8	95.1	96.0	96.1	96.1	96.1	96.1	96.2	96.5
GE 600	88.7	89.0	90.8	91.5	93.2	93.4	94.1	94.9	95.2	96.2	96.3	96.3	96.3	96.3	96.5	96.7
GE 500	88.8	89.1	90.9	91.7	93.4	93.7	94.3	95.2	95.4	96.7	96.8	96.8	96.8	96.8	96.9	97.1
GE 400	89.0	89.4	91.1	92.0	94.0	94.2	94.9	95.8	96.0	97.3	97.4	97.4	97.4	97.4	97.5	97.7
GE 300	89.0	89.4	91.1	92.0	94.0	94.2	94.9	96.2	96.5	97.8	98.0	98.0	98.3	98.3	98.5	98.7
GE 200	89.0	89.4	91.2	92.2	94.2	94.4	95.2	96.5	96.7	98.1	98.3	98.3	98.6	98.9	99.2	99.6
GE 100	89.0	89.4	91.2	92.3	94.3	94.5	95.3	96.7	96.9	98.3	98.5	98.5	98.8	99.1	99.7	100.0

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 5	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.5	48.6	48.9	49.0	49.2	49.5	49.5	49.5	49.5	49.5	49.6	49.6	49.6	49.7	49.7	49.8
GE 20000	56.7	56.8	57.1	57.2	57.4	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.8	57.8	58.0
GE 18000	57.2	57.3	57.6	57.7	58.0	58.2	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.4	58.4	58.5
GE 16000	57.3	57.4	57.7	57.8	58.1	58.3	58.3	58.3	58.3	58.3	58.4	58.4	58.4	58.5	58.5	58.6
GE 14000	59.2	59.4	59.7	59.8	60.0	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.4	60.4	60.5
GE 12000	62.8	62.9	63.2	63.3	63.5	63.8	63.8	63.9	63.8	63.8	63.9	63.9	63.9	64.0	64.0	64.1
GE 10000	71.4	71.5	71.8	71.9	72.3	72.5	72.5	72.5	72.5	72.5	72.6	72.6	72.6	72.7	72.7	72.8
GE 9000	71.7	71.8	72.2	72.3	72.6	72.8	72.8	72.8	72.8	72.8	72.9	72.9	72.9	73.0	73.0	73.1
GE 8000	75.2	75.3	75.7	75.9	76.2	76.5	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.7	76.7	76.8
GE 7000	75.3	75.4	75.8	76.0	76.3	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.8	76.8	76.9
GE 6000	76.1	76.2	76.8	77.0	77.3	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.7	77.7	77.8
GE 5000	77.7	77.8	78.4	78.6	78.9	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.4	79.4	79.5
GE 4500	78.8	78.9	79.5	79.8	80.1	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.5	80.5	80.6
GE 4000	81.2	81.3	82.0	82.6	83.0	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.4	83.4	83.5
GE 3500	82.0	82.3	83.2	84.0	84.6	84.9	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.3	85.3	85.4
GE 3000	84.7	84.9	86.0	86.9	87.6	88.0	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.4	88.4	88.5
GE 2500	85.7	85.9	87.0	88.1	89.1	89.5	89.8	89.8	89.8	89.8	89.9	89.9	89.9	90.0	90.0	90.1
GE 2000	86.0	86.5	87.6	88.7	89.9	90.3	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.1	91.1	91.2
GE 1800	86.2	86.7	87.8	88.9	90.3	90.8	91.5	91.5	91.5	91.5	91.6	91.6	91.6	91.7	91.7	91.8
GE 1500	86.9	87.5	88.8	89.9	91.5	91.9	92.7	93.1	93.1	93.1	93.3	93.3	93.3	93.4	93.4	93.5
GE 1200	87.3	88.0	89.2	90.3	92.2	92.6	93.3	93.9	93.9	94.3	94.5	94.5	94.5	94.6	94.6	94.7
GE 1000	87.6	88.3	89.7	90.9	92.8	93.2	94.2	94.7	94.8	95.3	95.6	95.6	95.7	95.8	95.8	95.9
GE 900	87.6	88.3	89.7	90.9	92.8	93.2	94.2	94.7	94.8	95.3	95.6	95.6	95.7	95.8	95.8	95.9
GE 800	87.6	88.3	89.7	90.9	92.9	93.3	94.3	95.1	95.2	95.6	95.9	95.9	96.0	96.1	96.1	96.2
GE 700	87.7	88.4	89.8	91.0	93.1	93.5	94.5	95.3	95.4	95.8	96.1	96.1	96.2	96.3	96.3	96.5
GE 600	87.8	88.5	89.9	91.1	93.4	93.9	94.8	95.8	95.9	96.3	96.7	96.7	96.8	96.9	96.9	97.0
GE 500	87.8	88.5	89.9	91.1	93.4	93.9	94.8	95.8	95.9	96.5	96.8	96.8	97.0	97.1	97.1	97.2
GE 400	87.8	88.5	90.0	91.2	93.8	94.2	95.2	96.2	96.3	96.9	97.2	97.2	97.4	97.5	97.6	97.8
GE 300	87.8	88.5	90.0	91.2	93.8	94.2	95.3	96.5	96.6	97.2	97.6	97.6	98.0	98.4	98.5	98.7
GE 200	87.8	88.5	90.0	91.5	94.1	94.5	95.6	96.8	96.9	97.7	98.2	98.2	98.6	99.0	99.2	99.6
GE 100	87.9	88.5	90.0	91.5	94.1	94.5	95.7	96.9	97.0	97.8	98.3	98.3	98.7	99.2	99.5	99.9
GE 000	87.9	88.5	90.0	91.5	94.1	94.5	95.7	96.9	97.0	97.8	98.3	98.3	98.7	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	45.7	46.0	46.3	46.9	47.2	47.2	47.2	47.3	47.3	47.4	47.4	47.5	47.5	47.5	47.5	47.5
GE 20000	53.4	54.0	54.4	54.9	55.3	55.3	55.3	55.4	55.4	55.5	55.5	55.6	55.6	55.6	55.6	55.6
GE 18000	54.3	54.8	55.3	55.3	56.1	56.1	56.1	56.2	56.2	56.3	56.3	56.5	56.5	56.5	56.5	56.5
GE 16000	55.3	55.8	56.2	56.8	57.1	57.1	57.1	57.2	57.2	57.3	57.3	57.4	57.4	57.4	57.4	57.4
GE 14000	59.1	59.7	60.1	60.6	61.0	61.0	61.0	61.1	61.1	61.2	61.2	61.3	61.3	61.3	61.3	61.3
GE 12000	63.9	64.4	64.8	65.4	65.7	65.7	65.7	65.8	65.8	65.9	65.9	66.0	66.0	66.0	66.0	66.0
GE 10000	71.2	71.7	72.2	72.7	73.0	73.0	73.0	73.1	73.1	73.2	73.2	73.3	73.3	73.3	73.3	73.3
GE 9000	72.0	72.6	73.0	73.5	74.0	74.0	74.2	74.3	74.3	74.4	74.4	74.5	74.5	74.5	74.5	74.5
GE 8000	76.0	76.6	77.0	77.5	78.1	78.1	78.3	78.4	78.4	78.5	78.5	78.6	78.6	78.6	78.6	78.6
GE 7000	76.6	77.1	77.5	78.1	78.6	78.6	78.8	78.9	78.9	79.0	79.0	79.1	79.1	79.1	79.1	79.1
GE 6000	77.4	78.0	78.4	79.0	79.7	79.7	80.0	80.1	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3
GE 5000	78.2	78.7	79.1	79.8	80.4	80.4	80.8	80.9	80.9	81.0	81.0	81.1	81.1	81.1	81.1	81.1
GE 4500	79.1	79.7	80.2	81.0	81.6	81.6	81.9	82.0	82.0	82.2	82.2	82.3	82.3	82.3	82.3	82.3
GE 4000	81.5	82.0	82.8	83.5	84.2	84.2	84.5	84.6	84.6	84.7	84.7	84.8	84.8	84.8	84.8	84.8
GE 3500	82.7	83.2	84.4	85.3	86.2	86.3	86.7	86.8	86.8	86.9	86.9	87.0	87.0	87.0	87.0	87.0
GE 3000	83.4	84.0	85.3	86.2	87.6	87.8	88.3	88.4	88.5	88.8	88.8	88.9	88.9	88.9	88.9	88.9
GE 2500	83.9	84.5	85.9	87.1	88.7	89.0	89.5	89.7	89.8	90.2	90.2	90.3	90.3	90.3	90.3	90.3
GE 2000	84.4	85.1	86.5	87.8	89.6	90.0	90.8	91.0	91.1	91.5	91.5	91.6	91.6	91.6	91.6	91.6
GE 1800	84.7	85.4	86.8	88.2	89.9	90.5	91.3	91.5	91.6	92.0	92.0	92.2	92.3	92.3	92.3	92.3
GE 1500	85.2	85.8	87.3	88.7	90.5	91.2	91.9	92.5	92.7	93.2	93.2	93.3	93.4	93.4	93.4	93.4
GE 1200	85.3	85.9	87.5	88.9	90.9	91.5	92.4	93.0	93.2	94.0	94.1	94.3	94.4	94.4	94.4	94.4
GE 1000	85.6	86.2	87.8	89.2	91.2	91.8	92.7	93.8	94.1	95.1	95.4	95.6	95.7	95.7	95.7	95.7
GE 900	85.6	86.2	87.8	89.2	91.2	91.8	92.7	93.9	94.2	95.2	95.5	95.7	95.8	95.8	95.8	95.8
GE 800	85.9	86.6	88.2	89.6	91.6	92.3	93.1	94.3	94.6	95.8	96.3	96.6	96.9	97.0	97.0	97.0
GE 700	85.9	86.6	88.2	89.6	91.6	92.3	93.1	94.3	94.6	95.8	96.3	96.6	96.9	97.0	97.0	97.0
GE 600	85.9	86.6	88.2	89.7	91.7	92.4	93.2	94.4	94.8	96.0	96.6	96.8	97.1	97.2	97.2	97.2
GE 500	85.9	86.6	88.2	89.7	91.7	92.4	93.2	94.4	94.8	96.1	96.8	97.0	97.3	97.4	97.5	97.5
GE 400	85.9	86.6	88.3	89.8	91.9	92.6	93.4	94.6	95.1	96.5	97.2	97.4	97.7	97.8	98.0	98.0
GE 300	86.1	86.8	88.5	90.1	92.3	92.9	94.0	95.2	95.6	97.0	97.7	98.0	98.5	98.6	98.9	98.9
GE 200	86.1	86.8	88.7	90.3	92.5	93.1	94.2	95.4	95.8	97.2	98.0	98.2	98.8	98.9	99.4	99.5
GE 100	86.1	86.8	88.7	90.3	92.5	93.1	94.2	95.4	95.8	97.3	98.2	98.4	99.0	99.1	99.7	99.8
GE 000	86.1	86.8	88.7	90.3	92.5	93.1	94.2	95.4	95.8	97.3	98.2	98.4	99.0	99.1	99.8	100.0

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.3	48.4	48.4	48.5	48.6	48.6	48.7	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 20000	57.3	57.4	57.5	57.6	57.7	57.7	57.8	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 18000	57.7	57.8	58.0	58.1	58.2	58.2	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 16000	59.2	59.4	59.5	59.6	59.7	59.7	59.8	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 14000	62.0	62.2	62.3	62.4	62.5	62.5	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 12000	67.8	68.0	68.1	68.2	68.3	68.3	68.4	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 10000	75.5	75.6	75.8	75.9	76.0	76.0	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 9000	76.3	76.5	76.7	76.8	77.0	77.0	77.1	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 8000	80.0	80.2	80.4	80.9	81.2	81.2	81.5	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 7000	81.2	81.4	81.7	82.2	82.5	82.5	82.8	82.9	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 6000	82.8	83.0	83.3	84.1	84.4	84.4	84.7	84.8	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 5000	83.3	83.5	83.9	84.6	84.9	84.9	85.3	85.4	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 4500	83.7	83.9	84.2	84.9	85.4	85.4	85.7	85.8	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 4000	84.3	84.6	84.9	85.9	86.5	86.5	86.8	86.9	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 3500	85.1	85.4	85.9	87.2	87.8	87.8	88.2	88.3	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 3000	85.4	85.9	86.9	88.4	89.5	89.5	89.9	90.1	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 2500	85.6	86.1	87.3	89.0	90.1	90.2	91.1	91.4	91.8	92.4	92.5	92.5	92.5	92.5	92.5	92.5
GE 2000	85.8	86.3	87.7	89.9	91.1	91.3	92.3	92.7	93.2	93.8	93.9	93.9	93.9	93.9	93.9	93.9
GE 1800	85.9	86.5	87.8	90.0	91.2	91.4	92.4	92.8	93.3	93.9	94.0	94.0	94.0	94.0	94.0	94.0
GE 1500	86.0	86.7	88.2	90.4	91.6	91.8	93.0	93.7	94.3	94.9	95.1	95.1	95.1	95.1	95.1	95.1
GE 1200	86.0	86.7	88.2	90.4	91.8	92.3	93.8	94.4	95.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3
GE 1000	86.3	87.1	88.6	91.0	92.6	93.0	94.7	95.4	96.0	97.6	97.7	97.7	97.7	97.7	97.7	97.7
GE 900	86.7	87.4	88.9	91.3	92.9	93.3	95.1	95.7	96.3	98.0	98.1	98.1	98.1	98.1	98.1	98.1
GE 800	86.7	87.4	88.9	91.3	92.9	93.4	95.2	95.9	96.5	98.2	98.4	98.4	98.4	98.4	98.4	98.4
GE 700	86.7	87.4	88.9	91.4	93.1	93.7	95.4	96.2	96.9	98.5	98.7	98.7	98.8	98.8	98.8	98.8
GE 600	86.9	87.6	89.1	91.6	93.3	93.9	95.6	96.5	97.1	98.8	99.0	99.0	99.1	99.1	99.2	99.2
GE 500	86.9	87.6	89.1	91.6	93.3	93.9	95.6	96.5	97.1	98.8	99.0	99.0	99.1	99.1	99.2	99.2
GE 400	86.9	87.6	89.1	91.6	93.4	94.0	95.7	96.6	97.2	98.9	99.1	99.1	99.4	99.4	99.5	99.5
GE 300	87.0	87.7	89.2	91.7	93.5	94.1	95.8	96.8	97.4	99.1	99.4	99.4	99.7	99.7	99.9	99.9
GE 200	87.0	87.7	89.2	91.7	93.5	94.1	95.8	96.8	97.4	99.1	99.4	99.4	99.8	99.8	100.0	100.0
GE 100	87.0	87.7	89.2	91.7	93.5	94.1	95.8	96.8	97.4	99.1	99.4	99.4	99.8	99.8	100.0	100.0
GE 000	87.0	87.7	89.2	91.7	93.5	94.1	95.8	96.8	97.4	99.1	99.4	99.4	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.6	48.6	49.0	49.0	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 20000	57.8	58.1	58.5	58.5	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 18000	59.4	59.6	60.0	60.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 16000	60.2	60.4	60.9	60.9	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 14000	62.9	63.1	63.5	63.5	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
GE 12000	68.9	69.1	69.6	69.6	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 10000	76.2	76.6	77.0	77.0	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 9000	77.6	78.0	78.4	78.4	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 8000	81.5	81.8	82.5	82.5	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 7000	82.6	82.9	83.7	83.8	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 6000	83.1	83.4	84.2	84.3	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 5000	84.2	84.5	85.3	85.5	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 4500	84.6	84.9	85.7	85.9	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 4000	86.5	86.8	87.7	88.0	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 3500	86.9	87.3	88.6	88.8	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 3000	87.2	87.6	88.9	89.1	91.2	91.3	91.7	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0
GE 2500	87.5	88.1	89.4	90.0	92.0	92.3	92.8	92.9	92.9	92.9	93.1	93.1	93.2	93.2	93.2	93.2
GE 2000	87.5	88.1	89.4	90.3	92.4	92.6	93.1	93.3	93.3	93.4	94.0	94.0	94.1	94.1	94.1	94.1
GE 1800	87.5	88.1	89.4	90.3	92.4	92.6	93.1	93.4	93.4	93.8	94.3	94.3	94.4	94.4	94.4	94.4
GE 1500	87.7	88.3	89.6	90.6	92.8	93.1	93.7	94.2	94.2	94.5	95.1	95.1	95.2	95.2	95.2	95.2
GE 1200	88.0	88.5	89.8	90.9	93.1	93.5	94.1	94.8	94.8	95.5	96.0	96.0	96.1	96.1	96.1	96.1
GE 1000	88.2	88.7	90.0	91.1	93.8	94.3	94.8	95.7	95.7	96.5	97.1	97.1	97.3	97.3	97.3	97.3
GE 900	88.3	88.8	90.1	91.3	94.1	94.6	95.2	96.0	96.0	96.8	97.5	97.5	97.7	97.7	97.7	98.0
GE 800	88.3	88.8	90.1	91.4	94.2	94.7	95.3	96.3	96.3	97.2	98.0	98.0	98.2	98.2	98.2	98.4
GE 700	88.3	88.8	90.1	91.5	94.3	94.8	95.4	96.5	96.5	97.6	98.4	98.4	98.6	98.6	98.6	98.8
GE 600	88.6	89.1	90.4	91.8	94.6	95.2	95.7	96.9	96.9	98.3	99.0	99.0	99.4	99.4	99.4	99.7
GE 500	88.6	89.2	90.5	91.9	94.7	95.3	95.8	97.0	97.0	98.4	99.1	99.1	99.5	99.5	99.5	99.8
GE 400	88.6	89.4	90.6	92.0	94.8	95.4	95.9	97.1	97.1	98.5	99.2	99.2	99.6	99.6	99.6	99.9
GE 300	88.6	89.4	90.6	92.0	94.9	95.5	96.0	97.2	97.2	98.6	99.4	99.4	99.7	99.7	99.7	100.0
GE 200	88.6	89.4	90.6	92.0	94.9	95.5	96.0	97.2	97.2	98.6	99.4	99.4	99.7	99.7	99.7	100.0
GE 100	88.6	89.4	90.6	92.0	94.9	95.5	96.0	97.2	97.2	98.6	99.4	99.4	99.7	99.7	99.7	100.0
GE 000	88.6	89.4	90.6	92.0	94.9	95.5	96.0	97.2	97.2	98.6	99.4	99.4	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.9	53.0	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3	53.3
GE 20000	58.8	58.9	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2
GE 18000	59.6	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0
GE 16000	59.9	60.0	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.3	60.3
GE 14000	61.5	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9	61.9
GE 12000	66.7	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1
GE 10000	74.4	74.5	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8
GE 9000	75.8	75.9	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2
GE 8000	80.4	80.5	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9
GE 7000	82.2	82.3	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8
GE 6000	83.0	83.1	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.8	83.8
GE 5000	84.5	84.6	84.8	85.1	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.4	85.4
GE 4500	84.7	84.9	85.2	85.4	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.7	85.7
GE 4000	86.1	86.5	86.9	87.1	87.3	87.3	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.6	87.6
GE 3500	86.8	87.1	87.6	87.8	88.2	88.2	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	89.0	89.0
GE 3000	87.5	87.8	88.6	88.9	89.7	89.8	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.8	90.8
GE 2500	88.9	89.2	90.1	90.4	91.2	91.4	92.5	92.5	92.5	92.7	92.7	92.7	92.7	92.7	92.8	92.8
GE 2000	89.6	90.0	91.0	91.5	92.5	92.7	93.8	93.9	94.0	94.2	94.3	94.3	94.4	94.4	94.5	94.5
GE 1800	89.6	90.1	91.2	91.7	92.7	92.9	94.0	94.1	94.2	94.4	94.5	94.5	94.6	94.6	94.7	94.7
GE 1500	89.7	90.2	91.3	91.9	92.9	93.1	94.2	94.5	94.6	94.9	95.1	95.1	95.2	95.2	95.3	95.3
GE 1200	89.7	90.2	91.5	92.2	93.4	93.9	95.1	95.8	96.0	96.5	96.6	96.6	96.8	96.8	96.9	96.9
GE 1000	89.8	90.3	91.6	92.3	93.7	94.2	95.4	96.2	96.5	97.1	97.3	97.3	97.6	97.6	97.7	97.7
GE 900	90.0	90.5	91.9	92.6	94.0	94.5	95.7	96.7	96.9	97.5	97.7	97.7	98.1	98.1	98.2	98.2
GE 800	90.2	90.8	92.2	92.8	94.2	94.7	95.9	97.1	97.3	98.0	98.2	98.2	98.6	98.6	98.7	98.7
GE 700	90.2	90.8	92.2	92.8	94.2	94.7	95.9	97.2	97.4	98.1	98.3	98.3	98.7	98.7	98.8	98.8
GE 600	90.2	90.8	92.2	92.9	94.3	94.8	96.0	97.3	97.5	98.2	98.4	98.4	98.8	98.8	98.9	98.9
GE 500	90.3	90.9	92.3	93.0	94.5	95.1	96.2	97.5	97.7	98.4	98.6	98.6	99.0	99.0	99.1	99.1
GE 400	90.3	90.9	92.3	93.0	94.5	95.1	96.2	97.5	97.7	98.4	98.6	98.6	99.0	99.0	99.1	99.1
GE 300	90.3	90.9	92.3	93.0	94.6	95.2	96.3	97.6	97.8	98.5	98.7	98.7	99.1	99.1	99.2	99.2
GE 200	90.3	90.9	92.3	93.0	94.6	95.2	96.3	97.6	97.8	98.5	98.7	98.7	99.1	99.1	99.2	99.2
GE 100	90.3	90.9	92.3	93.0	94.7	95.3	96.5	97.8	98.2	98.8	99.0	99.0	99.5	99.5	99.6	99.7
GE 000	90.3	90.9	92.3	93.0	94.7	95.3	96.5	97.8	98.2	98.8	99.0	99.0	99.5	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.2	55.4	55.7	55.9	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.2	56.2	56.2	56.3
GE 20000	61.3	61.5	61.8	62.0	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.5
GE 18000	61.3	61.5	61.8	62.0	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.5
GE 16000	61.5	61.7	62.0	62.3	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.6	62.6	62.6	62.7
GE 14000	62.9	63.1	63.4	63.7	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.1
GE 12000	68.4	68.6	68.9	69.1	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.5	69.6
GE 10000	74.4	74.6	74.9	75.2	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.6
GE 9000	75.4	75.6	75.9	76.1	76.2	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.7
GE 8000	80.6	80.9	81.2	81.4	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	82.0
GE 7000	82.2	82.4	82.7	82.9	83.1	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.5
GE 6000	82.5	82.7	83.0	83.2	83.4	83.7	83.8	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.1
GE 5000	83.9	84.1	84.4	84.6	84.8	85.1	85.2	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.5
GE 4500	84.4	84.6	84.9	85.3	85.6	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.2
GE 4000	85.4	85.7	86.2	86.7	87.0	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5	87.6
GE 3500	85.6	86.0	86.8	87.2	87.8	88.1	88.5	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.8
GE 3000	86.9	87.3	88.1	88.5	89.2	89.5	89.9	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.2
GE 2500	88.3	88.8	89.6	90.0	91.0	91.4	91.8	92.0	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.3
GE 2000	88.8	89.5	90.3	90.6	91.8	92.3	92.8	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.2
GE 1800	88.9	89.6	90.4	90.9	91.9	92.4	92.9	93.1	93.1	93.2	93.2	93.2	93.3	93.3	93.3	93.4
GE 1500	89.1	89.8	90.6	91.1	92.3	92.7	93.4	93.8	93.8	93.9	94.1	94.1	94.2	94.2	94.2	94.3
GE 1200	89.6	90.2	91.7	92.3	93.7	94.1	94.9	95.7	95.7	95.9	96.1	96.1	96.5	96.5	96.5	96.6
GE 1000	89.6	90.2	91.7	92.4	93.8	94.4	95.5	95.6	95.6	96.8	97.0	97.0	97.3	97.3	97.3	97.4
GE 900	89.6	90.2	91.8	92.5	93.9	94.5	95.6	96.9	96.9	97.1	97.4	97.4	97.7	97.7	97.7	97.8
GE 800	89.6	90.3	91.9	92.6	94.1	94.7	95.8	97.1	97.1	97.3	97.6	97.6	98.0	98.0	98.0	98.1
GE 700	89.8	90.5	92.2	92.8	94.3	94.9	96.0	97.4	97.4	97.6	98.0	98.0	98.3	98.3	98.3	98.4
GE 600	89.8	90.5	92.2	92.8	94.3	94.9	96.0	97.4	97.4	97.6	98.0	98.0	98.3	98.3	98.3	98.4
GE 500	89.9	90.6	92.3	92.9	94.5	95.2	96.3	97.7	97.7	98.0	98.3	98.3	98.6	98.6	98.6	98.7
GE 400	89.9	90.6	92.3	92.9	94.5	95.2	96.3	97.7	97.7	98.0	98.4	98.4	98.7	98.7	98.7	98.8
GE 300	89.9	90.6	92.3	92.9	94.5	95.2	96.3	97.7	97.7	98.0	98.4	98.4	98.7	98.7	98.7	98.8
GE 200	89.9	90.6	92.3	92.9	94.5	95.2	96.3	97.7	97.7	98.0	98.5	98.5	98.8	98.8	98.9	99.0
GE 100	89.9	90.6	92.3	92.9	94.5	95.2	96.3	97.8	97.8	98.1	98.6	98.6	98.9	99.0	99.2	99.6
GE 000	89.9	90.6	92.3	92.9	94.5	95.2	96.3	97.8	97.8	98.1	98.6	98.6	98.9	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.4	51.5	51.8	52.0	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.4	52.5
GE 20000	58.6	58.8	59.1	59.3	59.5	59.5	59.6	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.8
GE 18000	59.2	59.4	59.7	59.8	60.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3
GE 16000	59.8	60.0	60.2	60.4	60.5	60.6	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.9	60.9
GE 14000	61.8	62.0	62.2	62.4	62.6	62.6	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.9	62.9
GE 12000	66.4	66.6	66.8	67.0	67.2	67.2	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.5
GE 10000	73.9	74.1	74.4	74.6	74.8	74.8	74.9	74.9	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.1
GE 9000	74.8	75.0	75.3	75.5	75.7	75.8	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.1	76.1
GE 8000	79.2	79.4	79.8	80.0	80.3	80.4	80.5	80.5	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.8
GE 7000	80.1	80.4	80.8	81.0	81.3	81.4	81.5	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.8
GE 6000	80.8	81.1	81.5	81.8	82.1	82.2	82.3	82.4	82.4	82.5	82.5	82.5	82.5	82.6	82.6	82.6
GE 5000	81.9	82.1	82.5	82.9	83.2	83.3	83.4	83.5	83.5	83.6	83.6	83.6	83.6	83.7	83.7	83.7
GE 4500	82.5	82.8	83.3	83.6	84.0	84.1	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.5	84.5
GE 4000	84.2	84.5	85.2	85.7	86.1	86.2	86.4	86.4	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.7
GE 3500	84.9	85.3	86.2	86.7	87.3	87.4	87.8	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.1	88.1
GE 3000	86.0	86.4	87.4	88.0	89.0	89.2	89.6	89.7	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.1
GE 2500	86.8	87.2	88.3	89.0	90.1	90.4	91.0	91.1	91.2	91.3	91.4	91.4	91.5	91.5	91.5	91.6
GE 2000	87.3	87.7	88.9	89.9	91.1	91.3	92.0	92.2	92.3	92.5	92.6	92.7	92.7	92.7	92.8	92.8
GE 1800	87.4	87.9	89.1	90.1	91.4	91.7	92.4	92.6	92.7	92.9	93.1	93.1	93.1	93.2	93.2	93.2
GE 1500	87.8	88.4	89.7	90.7	92.1	92.4	93.1	93.6	93.8	94.1	94.2	94.3	94.3	94.3	94.4	94.4
GE 1200	88.1	88.7	90.1	91.1	92.7	93.1	94.0	94.6	94.8	95.4	95.6	95.6	95.7	95.7	95.8	95.8
GE 1000	88.3	88.8	90.3	91.5	93.1	93.6	94.6	95.4	95.6	96.3	96.6	96.6	96.8	96.8	96.8	96.9
GE 900	88.3	88.9	90.4	91.6	93.3	93.8	94.7	95.6	95.8	96.6	96.9	96.9	97.1	97.1	97.1	97.2
GE 800	88.4	89.0	90.5	91.7	93.5	94.0	94.9	95.9	96.1	96.9	97.2	97.3	97.5	97.5	97.5	97.6
GE 700	88.5	89.1	90.6	91.8	93.6	94.1	95.1	96.1	96.3	97.2	97.5	97.5	97.7	97.7	97.8	97.8
GE 600	88.6	89.2	90.7	91.9	93.9	94.2	95.2	96.3	96.5	97.4	97.8	97.8	98.0	98.1	98.1	98.2
GE 500	88.6	89.2	90.7	92.0	93.9	94.4	95.4	96.5	96.7	97.6	98.0	98.0	98.3	98.3	98.3	98.4
GE 400	88.6	89.3	90.8	92.1	94.0	94.5	95.6	96.6	96.9	97.8	98.2	98.2	98.5	98.5	98.6	98.7
GE 300	88.7	89.3	90.8	92.2	94.1	94.6	95.7	96.9	97.1	98.1	98.5	98.5	98.9	98.9	99.1	99.2
GE 200	88.7	89.3	90.9	92.3	94.2	94.7	95.9	97.0	97.2	98.2	98.6	98.7	99.1	99.2	99.4	99.6
GE 100	88.7	89.3	90.9	92.3	94.3	94.8	95.8	97.0	97.3	98.3	98.8	98.8	99.2	99.4	99.7	99.9
GE 000	88.7	89.3	90.9	92.3	94.3	94.8	95.8	97.0	97.3	98.3	98.8	98.8	99.2	99.4	99.7	100.0

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.4	51.5	51.6	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.9	52.4	52.4	52.4
GE 20000	58.5	58.7	58.8	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.2	59.2	59.4	59.8	59.8	59.8
GE 18000	58.8	58.9	59.0	59.2	59.2	59.2	59.4	59.4	59.4	59.4	59.5	59.5	59.6	60.1	60.1	60.1
GE 16000	59.2	59.4	59.5	59.7	59.7	59.7	59.8	59.8	59.8	59.8	60.0	60.0	60.1	60.5	60.5	60.5
GE 14000	60.1	60.2	60.3	60.5	60.5	60.5	60.7	60.7	60.7	60.7	60.8	60.8	60.9	61.4	61.4	61.4
GE 12000	63.3	63.4	63.5	63.7	63.7	63.7	63.8	63.8	63.8	63.8	64.0	64.0	64.1	64.5	64.5	64.5
GE 10000	69.4	69.5	69.6	69.8	69.8	69.8	70.1	70.1	70.1	70.1	70.2	70.2	70.3	70.8	70.8	70.8
GE 9000	70.6	70.7	70.8	71.0	71.0	71.0	71.3	71.3	71.3	71.3	71.4	71.4	71.5	72.0	72.0	72.0
GE 8000	73.6	73.7	73.9	74.1	74.1	74.1	74.3	74.3	74.3	74.3	74.4	74.4	74.6	75.0	75.0	75.0
GE 7000	74.1	74.2	74.3	74.6	74.6	74.6	74.8	74.8	74.8	74.8	74.9	74.9	75.0	75.5	75.5	75.5
GE 6000	74.9	75.0	75.1	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.7	75.7	75.9	76.3	76.3	76.3
GE 5000	76.9	77.0	77.1	77.4	77.4	77.4	77.6	77.6	77.6	77.6	77.7	77.7	77.9	78.3	78.3	78.3
GE 4500	77.5	77.6	77.9	78.1	78.1	78.1	78.3	78.3	78.3	78.3	78.4	78.4	78.6	79.0	79.0	79.0
GE 4000	79.9	80.0	80.2	80.4	80.4	80.4	80.7	80.7	80.7	80.7	80.8	80.8	80.9	81.4	81.4	81.4
GE 3500	80.9	81.0	81.9	82.1	82.2	82.3	82.7	82.7	82.7	82.7	82.8	82.8	82.9	83.4	83.4	83.4
GE 3000	83.7	83.9	84.8	85.3	85.6	85.7	86.2	86.2	86.2	86.2	86.3	86.3	86.5	86.9	86.9	86.9
GE 2500	84.7	84.8	86.3	86.8	87.2	87.6	88.2	88.2	88.2	88.3	88.5	88.5	88.6	89.0	89.0	89.0
GE 2000	84.8	85.0	86.6	87.2	87.6	88.1	88.7	88.9	88.9	89.0	89.2	89.2	89.3	89.8	89.8	89.8
GE 1800	84.8	85.0	86.6	87.2	87.6	88.2	88.8	89.0	89.2	89.3	89.4	89.4	89.5	90.0	90.0	90.0
GE 1500	85.5	85.7	87.3	87.9	88.3	88.9	89.5	89.8	90.0	90.1	90.2	90.2	90.3	90.8	90.8	90.8
GE 1200	86.0	86.2	87.8	88.3	88.8	89.4	90.0	90.3	90.7	90.8	90.9	90.9	91.0	91.5	91.5	91.5
GE 1000	86.2	86.5	88.1	88.8	89.4	90.3	90.9	91.3	92.1	92.2	92.3	92.3	92.5	92.9	92.9	92.9
GE 900	86.3	86.7	88.2	88.9	89.5	90.5	91.0	91.4	92.2	92.3	92.5	92.5	92.6	93.1	93.1	93.1
GE 800	86.6	86.9	88.5	89.2	89.8	90.7	91.3	91.6	92.5	92.7	92.9	92.9	93.1	93.5	93.5	93.5
GE 700	87.0	87.5	89.0	89.8	90.3	91.3	91.9	92.2	93.2	93.5	93.8	93.8	93.9	94.3	94.3	94.3
GE 600	87.0	87.6	89.2	89.9	90.5	91.4	92.1	92.9	94.1	94.6	94.8	94.8	94.9	95.4	95.4	95.4
GE 500	87.3	87.9	89.4	90.1	90.7	91.6	92.3	93.4	94.6	95.3	95.5	95.5	95.6	96.1	96.1	96.1
GE 400	87.5	88.1	89.6	90.5	91.0	92.1	92.8	93.9	95.1	95.9	96.2	96.2	96.3	96.8	96.8	96.8
GE 300	87.8	88.3	89.9	90.8	91.5	92.6	93.5	94.6	95.8	96.9	97.3	97.3	97.4	98.0	98.0	98.0
GE 200	87.8	88.3	89.9	90.8	91.5	92.6	93.6	94.7	95.9	97.1	97.5	97.5	98.1	98.7	98.9	98.9
GE 100	87.8	88.3	89.9	90.8	91.5	92.6	93.6	94.7	95.9	97.1	97.5	97.5	98.1	98.7	98.9	99.5
GE 000	87.8	88.3	89.9	90.8	91.5	92.6	93.6	94.7	95.9	97.1	97.5	97.5	98.1	98.7	98.9	100.0

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.1	50.1	50.2	50.2	50.4	50.4	50.5	50.5	50.5	50.5	50.5	50.5	51.0	51.0	51.4	51.4
GE 20000	58.9	58.9	59.0	59.0	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.8	59.8	60.2	60.2
GE 18000	58.9	58.9	59.0	59.0	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.8	59.8	60.2	60.2
GE 16000	59.4	59.4	59.7	59.7	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.5	60.5	60.9	60.9
GE 14000	60.7	60.7	61.0	61.0	61.2	61.2	61.4	61.4	61.4	61.4	61.4	61.4	61.8	61.8	62.2	62.2
GE 12000	62.7	62.7	63.0	63.0	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.8	63.8	64.2	64.2
GE 10000	68.3	68.3	68.7	68.8	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.7	69.7	70.1	70.1
GE 9000	69.0	69.0	69.4	69.5	69.8	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.4	70.4	70.8	70.8
GE 8000	72.3	72.3	72.7	72.8	73.1	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.7	73.7	74.1	74.1
GE 7000	73.0	73.0	73.4	73.5	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.4	74.4	74.8	74.8
GE 6000	73.9	73.9	74.2	74.3	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	75.3	75.3	75.6	75.6
GE 5000	75.6	75.6	76.0	76.1	76.4	76.4	76.6	76.6	76.6	76.6	76.6	76.6	77.0	77.0	77.4	77.4
GE 4500	76.9	77.0	77.5	77.6	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.6	78.6	78.9	78.9
GE 4000	79.2	79.3	79.9	80.0	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.9	80.9	81.3	81.3
GE 3500	81.0	81.2	82.3	82.6	83.0	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.6	83.6	84.0	84.0
GE 3000	84.2	84.5	86.1	86.5	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.9	87.9	88.2	88.2
GE 2500	84.8	85.0	87.2	87.6	88.6	88.7	88.8	88.9	88.9	88.9	88.9	88.9	89.4	89.4	89.8	89.8
GE 2000	85.0	85.3	87.6	88.1	89.2	89.3	89.4	89.6	89.6	89.6	89.6	89.6	90.1	90.1	90.5	90.5
GE 1800	85.3	85.5	87.9	88.3	89.4	89.5	89.6	89.9	89.9	89.9	89.9	89.9	90.3	90.3	90.7	90.7
GE 1500	85.6	85.9	88.2	88.7	89.8	89.9	90.1	90.6	90.6	90.6	90.6	90.6	91.0	91.0	91.4	91.4
GE 1200	85.9	86.1	88.6	89.0	90.2	90.5	90.7	91.2	91.2	91.2	91.2	91.2	91.6	91.6	92.0	92.0
GE 1000	86.0	86.3	88.9	89.5	91.2	91.4	91.8	92.7	92.8	93.1	93.1	93.1	93.5	93.5	93.9	93.9
GE 900	86.3	86.7	89.3	89.9	91.5	91.8	92.1	93.1	93.2	93.5	93.6	93.6	94.1	94.1	94.5	94.5
GE 800	86.5	86.8	89.4	90.0	91.6	91.9	92.2	93.3	93.4	93.9	94.0	94.0	94.5	94.5	94.8	94.8
GE 700	86.8	87.2	89.8	90.3	92.0	92.2	92.6	94.0	94.1	94.7	94.8	94.8	95.3	95.3	95.6	95.6
GE 600	86.8	87.2	89.8	90.3	92.0	92.2	92.7	94.2	94.3	95.1	95.3	95.3	95.9	95.9	96.2	96.2
GE 500	86.9	87.3	89.9	90.6	92.2	92.5	92.9	94.5	94.6	95.4	95.6	95.6	96.2	96.2	96.6	96.6
GE 400	87.3	87.6	90.2	90.9	92.6	93.1	93.6	95.2	95.3	96.1	96.3	96.3	97.2	97.2	97.5	97.5
GE 300	87.3	87.6	90.5	91.2	92.8	93.4	94.1	95.6	95.8	96.8	97.1	97.1	98.1	98.1	98.5	98.5
GE 200	87.3	87.6	90.5	91.3	92.9	93.5	94.2	95.8	95.9	96.9	97.3	97.3	98.4	98.4	98.9	99.2
GE 100	87.3	87.6	90.5	91.3	92.9	93.5	94.2	95.8	95.9	96.9	97.4	97.4	98.5	98.5	99.4	99.9
GE 000	87.3	87.6	90.6	91.3	92.9	93.5	94.2	95.8	95.9	96.9	97.4	97.4	98.5	98.5	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 349

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	45.7	45.8	45.9	45.9	46.1	46.1	46.1	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.6	46.6
GE 20000	52.9	53.0	53.1	53.1	53.2	53.2	53.2	53.4	53.4	53.5	53.5	53.5	53.5	53.6	53.8	53.8
GE 18000	53.2	53.4	53.5	53.5	53.6	53.6	53.6	53.7	53.7	53.8	53.8	53.8	53.8	53.9	54.2	54.2
GE 16000	53.4	53.5	53.6	53.6	53.7	53.7	53.7	53.8	53.8	53.9	53.9	53.9	53.9	54.1	54.3	54.3
GE 14000	56.2	56.3	56.4	56.4	56.5	56.5	56.5	56.7	56.7	56.8	56.8	56.8	56.8	56.9	57.1	57.1
GE 12000	59.2	59.4	59.5	59.5	59.6	59.6	59.6	59.7	59.7	60.1	60.1	60.1	60.1	60.2	60.4	60.4
GE 10000	68.1	68.2	68.3	68.4	68.6	68.6	68.6	68.7	68.7	69.0	69.0	69.0	69.0	69.1	69.4	69.4
GE 9000	69.7	69.8	70.0	70.1	70.2	70.2	70.2	70.3	70.3	70.7	70.7	70.7	70.7	70.8	71.0	71.0
GE 8000	73.4	73.5	73.7	74.0	74.1	74.1	74.1	74.2	74.2	74.6	74.6	74.6	74.6	74.7	74.9	74.9
GE 7000	74.2	74.4	74.7	74.9	75.0	75.0	75.0	75.1	75.1	75.5	75.5	75.5	75.5	75.6	75.9	75.9
GE 6000	75.0	75.3	75.5	75.7	75.9	75.9	75.9	76.0	76.0	76.3	76.3	76.3	76.3	76.4	76.7	76.7
GE 5000	76.6	76.8	77.0	77.3	77.4	77.4	77.4	77.5	77.5	77.9	77.9	77.9	77.9	78.0	78.2	78.2
GE 4500	77.6	77.9	78.1	78.3	78.4	78.4	78.4	78.6	78.6	78.9	78.9	78.9	78.9	79.0	79.3	79.3
GE 4000	79.0	79.3	79.7	80.2	80.4	80.4	80.6	80.7	80.7	81.0	81.0	81.0	81.0	81.2	81.4	81.4
GE 3500	79.9	80.1	80.9	81.4	81.6	81.6	81.7	81.9	81.9	82.2	82.2	82.2	82.2	82.3	82.6	82.6
GE 3000	83.0	83.4	84.3	84.8	85.0	85.0	85.2	85.5	85.5	85.9	85.9	85.9	85.9	86.0	86.2	86.2
GE 2500	83.6	84.0	84.9	85.4	85.7	85.7	85.9	86.2	86.2	86.6	86.6	86.6	86.6	86.7	86.9	86.9
GE 2000	84.0	84.3	85.3	85.7	86.2	86.3	86.5	86.9	86.9	87.4	87.4	87.4	87.4	87.5	87.8	87.8
GE 1800	84.2	84.7	85.7	86.2	86.8	86.9	87.0	87.5	87.5	88.0	88.0	88.0	88.0	88.1	88.3	88.3
GE 1500	84.8	85.3	86.8	87.5	88.3	88.6	88.9	89.6	89.8	90.3	90.3	90.3	90.3	90.5	90.7	90.7
GE 1200	85.4	85.9	87.5	88.3	89.2	89.4	90.1	90.9	91.2	91.9	91.9	91.9	92.0	92.1	92.3	92.3
GE 1000	86.1	86.6	88.5	89.4	90.2	90.5	91.2	92.0	92.5	93.5	93.5	93.5	93.6	93.8	94.1	94.1
GE 900	86.2	86.7	88.6	89.5	90.3	90.6	91.3	92.1	92.7	93.6	93.6	93.6	93.8	93.9	94.2	94.2
GE 800	86.2	86.7	88.6	89.6	90.6	90.8	91.5	92.5	93.1	94.1	94.3	94.3	94.5	94.6	94.9	94.9
GE 700	86.7	87.2	89.0	90.1	91.2	91.4	92.1	93.1	93.6	94.7	95.1	95.1	95.2	95.3	95.6	95.6
GE 600	86.7	87.2	89.3	90.3	91.4	91.6	92.6	93.5	94.3	95.4	95.8	95.8	95.9	96.0	96.3	96.3
GE 500	86.9	87.4	89.6	90.8	91.9	92.1	93.1	94.0	94.8	95.9	96.5	96.5	96.6	96.7	97.1	97.1
GE 400	87.3	87.8	90.0	91.2	92.3	92.6	93.5	94.6	95.4	96.5	97.1	97.1	97.2	97.3	97.6	97.6
GE 300	87.4	87.9	90.1	91.3	92.5	92.8	93.8	94.8	95.8	96.9	97.6	97.6	97.9	98.0	98.4	98.4
GE 200	87.4	87.9	90.1	91.4	92.6	92.9	93.9	95.1	96.0	97.2	97.9	97.9	98.5	98.6	98.9	99.1
GE 100	87.4	87.9	90.1	91.4	92.6	92.9	93.9	95.1	96.1	97.3	98.1	98.1	98.8	98.9	99.3	100.0
GE 000	87.4	87.9	90.1	91.4	92.6	92.9	93.9	95.1	96.1	97.3	98.1	98.1	98.8	98.9	99.3	100.0

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	42.4	42.8	42.9	43.3	43.5	43.5	43.5	43.5	43.6	43.7	43.7	43.7	43.7	43.7	44.3	44.3
GE 20000	49.8	50.2	50.3	51.0	51.2	51.2	51.2	51.2	51.4	51.5	51.5	51.5	51.5	51.5	52.1	52.1
GE 18000	50.3	50.6	50.8	51.5	51.7	51.7	51.7	51.7	51.8	51.9	51.9	51.9	51.9	51.9	52.5	52.5
GE 16000	51.1	51.5	51.6	52.3	52.5	52.5	52.5	52.5	52.7	52.8	52.8	52.8	52.8	52.8	53.4	53.4
GE 14000	55.7	56.1	56.2	56.9	57.1	57.1	57.1	57.1	57.2	57.4	57.4	57.4	57.4	57.4	58.0	58.0
GE 12000	61.5	61.8	62.0	62.7	62.9	62.9	62.9	62.9	63.0	63.1	63.1	63.1	63.1	63.1	63.7	63.7
GE 10000	68.3	68.7	68.8	69.5	69.7	69.7	69.7	69.7	69.8	70.0	70.0	70.0	70.0	70.0	70.6	70.6
GE 9000	70.4	70.8	70.9	71.6	71.8	71.8	71.8	71.8	72.0	72.1	72.1	72.1	72.1	72.1	72.7	72.7
GE 8000	73.5	73.9	74.0	74.9	75.4	75.4	75.5	75.5	75.6	75.7	75.7	75.7	75.7	75.7	76.3	76.3
GE 7000	74.4	74.9	75.0	76.0	76.4	76.4	76.6	76.6	76.7	76.9	76.8	76.8	76.8	76.8	77.4	77.4
GE 6000	75.6	76.1	76.2	77.1	77.6	77.6	77.7	77.7	77.9	78.0	78.0	78.0	78.0	78.0	78.6	78.6
GE 5000	77.0	77.5	77.6	78.3	79.4	79.4	79.6	79.6	79.7	80.0	80.0	80.0	80.0	80.0	80.6	80.6
GE 4500	77.9	78.3	78.4	79.7	80.3	80.3	80.6	80.6	80.7	80.9	80.9	80.9	80.9	80.9	81.5	81.5
GE 4000	79.2	79.6	79.9	81.4	82.4	82.4	82.7	82.7	82.8	83.0	83.0	83.0	83.0	83.0	83.6	83.6
GE 3500	80.0	80.4	80.7	82.3	83.4	83.4	83.6	83.6	83.7	84.0	84.0	84.0	84.0	84.0	84.7	84.7
GE 3000	82.1	82.7	82.9	84.9	86.2	86.3	86.7	86.8	87.0	87.4	87.4	87.4	87.4	87.4	88.1	88.1
GE 2500	82.4	83.0	83.4	85.6	87.2	87.3	87.8	87.9	88.2	88.6	88.6	88.6	88.6	88.6	89.3	89.3
GE 2000	83.2	83.9	84.5	86.8	88.7	88.8	89.4	89.9	90.2	90.7	90.8	90.8	90.8	90.8	91.5	91.5
GE 1800	83.3	84.0	84.6	86.9	88.8	88.9	89.5	90.0	90.3	90.8	90.9	90.9	90.9	90.9	91.6	91.6
GE 1500	83.4	84.1	84.8	87.5	89.8	90.0	90.7	91.2	91.5	92.0	92.1	92.1	92.1	92.1	92.8	92.8
GE 1200	83.7	84.5	85.2	87.9	90.1	90.5	91.2	91.6	92.1	92.7	92.8	92.8	92.8	92.8	93.5	93.5
GE 1000	83.9	84.6	85.3	88.0	90.3	90.7	91.4	92.0	92.5	93.5	93.6	93.6	93.6	93.8	94.5	94.5
GE 900	83.9	84.7	85.4	88.2	90.6	90.9	91.6	92.2	92.7	93.8	93.9	93.9	93.9	94.0	94.7	94.7
GE 800	84.0	84.8	85.5	88.3	90.7	91.0	91.9	92.6	93.1	94.2	94.5	94.5	94.5	94.6	95.3	95.3
GE 700	84.0	84.8	85.5	88.3	91.0	91.4	92.2	93.2	93.6	94.8	95.2	95.2	95.2	95.4	96.2	96.2
GE 600	84.0	84.9	85.5	88.3	91.0	91.6	92.5	93.4	94.5	96.0	96.5	96.5	96.5	96.7	97.5	97.5
GE 500	84.0	85.0	85.9	88.7	91.4	92.0	92.8	93.8	94.8	96.3	96.8	96.8	96.8	97.1	97.9	97.9
GE 400	84.0	85.2	86.1	88.9	91.6	92.3	93.2	94.3	95.4	97.1	97.5	97.5	97.5	97.8	98.6	98.6
GE 300	84.0	85.2	86.1	88.9	91.6	92.3	93.4	94.6	95.6	97.3	97.8	97.8	97.8	98.0	98.8	98.8
GE 200	84.0	85.2	86.1	88.9	91.6	92.5	93.5	94.7	95.8	97.5	98.0	98.0	98.0	98.5	99.4	99.4
GE 100	84.0	85.2	86.1	88.9	91.6	92.5	93.5	94.7	95.8	97.5	98.0	98.0	98.0	98.7	99.6	100.0
GE 000	84.0	85.2	86.1	88.9	91.6	92.5	93.5	94.7	95.8	97.5	98.0	98.0	98.0	98.7	99.6	100.0

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	40.8	40.8	41.0	41.5	41.6	41.7	41.8	41.8	41.9	41.9	41.9	41.9	42.0	42.0	42.0	42.3
GE 20000	51.7	51.9	52.3	52.9	53.0	53.1	53.2	53.2	53.4	53.4	53.4	53.4	53.5	53.5	53.5	53.7
GE 18000	52.3	52.5	52.9	53.5	53.6	53.7	53.8	53.8	53.9	53.9	53.9	53.9	54.1	54.1	54.1	54.3
GE 16000	53.1	53.4	53.7	54.3	54.4	54.5	54.7	54.7	54.8	54.8	54.8	54.8	54.9	54.9	54.9	55.1
GE 14000	56.9	57.1	57.5	58.1	58.2	58.3	58.4	58.4	58.5	58.5	58.5	58.5	58.7	58.7	58.7	58.9
GE 12000	63.6	64.0	64.3	64.9	65.0	65.1	65.3	65.3	65.4	65.4	65.4	65.4	65.5	65.5	65.5	65.7
GE 10000	71.3	71.6	72.2	72.8	72.9	73.0	73.1	73.1	73.3	73.3	73.3	73.3	73.4	73.4	73.4	73.6
GE 9000	72.7	73.0	73.6	74.2	74.4	74.6	74.7	74.7	74.8	74.8	74.8	74.8	74.9	74.9	74.9	75.1
GE 8000	77.4	77.7	78.4	79.0	79.3	79.4	79.5	79.5	79.6	79.6	79.6	79.6	79.7	79.7	79.7	80.0
GE 7000	78.6	78.9	79.6	80.2	80.4	80.6	80.7	80.7	80.8	80.8	80.8	80.8	80.9	80.9	80.9	81.2
GE 6000	79.4	79.7	80.4	81.0	81.3	81.4	81.5	81.5	81.6	81.6	81.6	81.6	81.7	81.7	81.7	82.0
GE 5000	81.3	81.6	82.6	83.2	83.4	83.5	83.6	83.7	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.2
GE 4500	81.6	82.0	82.9	83.5	83.7	83.9	84.0	84.1	84.2	84.2	84.2	84.2	84.3	84.3	84.3	84.6
GE 4000	83.6	84.0	85.0	86.0	86.3	86.5	86.7	86.9	87.0	87.0	87.0	87.0	87.2	87.2	87.2	87.4
GE 3500	84.7	85.0	86.1	87.0	87.5	87.6	87.9	88.1	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.6
GE 3000	86.0	86.3	87.5	88.8	89.5	89.6	90.0	90.2	90.3	90.3	90.5	90.5	90.6	90.6	90.6	90.8
GE 2500	86.2	86.7	88.0	89.3	90.1	90.3	90.8	91.0	91.2	91.2	91.3	91.3	91.4	91.4	91.4	91.6
GE 2000	86.8	87.5	89.0	90.3	91.3	91.5	92.5	92.9	93.2	93.2	93.3	93.3	93.4	93.4	93.4	93.6
GE 1800	86.9	87.6	89.2	90.5	91.5	91.8	92.7	93.2	93.4	93.4	93.5	93.5	93.6	93.6	93.6	93.9
GE 1500	87.0	87.8	89.3	90.3	91.9	92.2	93.5	94.3	94.7	95.1	95.2	95.2	95.3	95.3	95.3	95.5
GE 1200	87.0	87.8	89.3	90.3	91.9	92.2	93.5	94.3	94.7	95.1	95.2	95.2	95.3	95.3	95.3	95.5
GE 1000	87.2	88.0	89.5	91.2	92.2	92.7	94.0	94.9	95.3	95.6	95.8	95.8	95.9	95.9	95.9	96.1
GE 900	87.8	88.6	90.1	91.9	92.9	93.4	94.9	95.9	96.2	96.7	96.8	96.8	96.9	96.9	96.9	97.2
GE 800	87.8	88.6	90.1	91.9	92.9	93.4	94.9	95.9	96.3	96.8	96.9	96.9	97.1	97.1	97.1	97.3
GE 700	87.8	88.6	90.1	91.9	93.1	93.5	95.1	96.0	96.5	96.9	97.1	97.1	97.3	97.3	97.3	97.5
GE 600	88.1	88.9	90.5	92.2	93.5	94.1	95.6	96.8	97.4	97.9	98.0	98.2	98.6	98.6	98.6	98.8
GE 500	88.1	88.9	90.5	92.2	93.5	94.1	95.6	96.8	97.4	97.9	98.0	98.2	98.6	98.6	98.6	98.8
GE 400	88.1	88.9	90.5	92.3	93.6	94.2	95.9	97.1	97.6	98.2	98.4	98.6	98.9	98.9	99.1	99.3
GE 300	88.1	88.9	90.5	92.3	93.6	94.2	95.9	97.2	97.8	98.5	98.7	98.9	99.4	99.4	99.5	99.8
GE 200	88.1	88.9	90.5	92.3	93.6	94.2	95.9	97.2	97.8	98.5	98.7	98.9	99.4	99.4	99.5	99.9
GE 100	88.1	88.9	90.5	92.3	93.6	94.2	95.9	97.2	97.8	98.5	98.7	98.9	99.4	99.4	99.5	100.0
GE 000	88.1	88.9	90.5	92.3	93.6	94.2	95.9	97.2	97.8	98.5	98.7	98.9	99.4	99.4	99.5	100.0

FORM NO 433

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.3	44.6	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 20000	54.4	54.8	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 18000	55.8	56.2	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
GE 16000	56.4	56.8	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 14000	58.7	59.0	59.2	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
GE 12000	64.3	64.9	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 10000	71.6	72.2	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 9000	73.4	74.0	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 8000	77.7	78.6	78.9	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 7000	79.2	80.0	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 6000	81.3	82.1	82.4	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 5000	84.1	84.9	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 4500	85.3	86.2	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 4000	87.6	88.6	89.0	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 3500	88.3	89.3	89.9	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 3000	89.3	90.3	91.0	91.5	91.6	91.8	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
GE 2500	90.3	91.5	92.2	92.8	92.9	93.1	93.3	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 2000	90.9	92.2	93.1	93.9	94.1	94.2	94.5	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1800	91.0	92.3	93.2	94.0	94.5	94.6	94.8	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 1500	91.2	92.5	93.3	94.5	95.1	95.4	96.0	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 1200	91.2	92.5	93.4	94.6	95.3	95.6	96.3	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1000	91.2	92.5	93.4	94.6	95.4	95.8	96.5	96.9	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 900	91.2	92.7	93.6	94.8	95.6	96.0	96.7	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 800	91.3	92.8	93.8	94.9	95.8	96.1	96.8	97.3	97.6	98.1	98.1	98.4	98.4	98.4	98.4	98.4
GE 700	91.4	92.9	93.9	95.1	95.9	96.2	96.9	97.4	97.8	98.2	98.2	98.5	98.5	98.5	98.5	98.5
GE 600	91.4	92.9	94.0	95.2	96.0	96.3	97.1	97.5	98.0	98.5	98.5	98.7	98.7	98.7	98.7	98.7
GE 500	91.5	93.1	94.2	95.4	96.2	96.6	97.3	97.8	98.2	98.7	98.7	98.9	98.9	98.9	98.9	98.9
GE 400	91.6	93.2	94.3	95.5	96.3	96.7	97.4	97.9	98.4	98.8	98.8	99.1	99.1	99.1	99.1	99.1
GE 300	91.6	93.2	94.3	95.5	96.5	96.8	97.5	98.0	98.5	99.1	99.1	99.3	99.3	99.3	99.3	99.3
GE 200	91.6	93.2	94.3	95.5	96.5	96.8	97.5	98.0	98.5	99.1	99.3	99.5	99.5	99.5	99.5	99.6
GE 100	91.6	93.2	94.3	95.5	96.5	96.8	97.5	98.0	98.5	99.1	99.4	99.6	99.8	99.8	99.8	100.0
GE 000	91.6	93.2	94.3	95.5	96.5	96.8	97.5	98.0	98.5	99.1	99.4	99.6	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 849

FORM NO 433

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.2	49.2	49.2	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 20000	54.9	54.9	55.0	55.1	55.2	55.2	55.2	55.2	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5
GE 18000	56.3	56.3	56.4	56.5	56.7	56.7	56.7	56.7	56.7	56.8	56.9	56.9	56.9	56.9	56.9	56.9
GE 16000	56.5	56.5	56.7	56.8	56.9	56.9	56.9	56.9	56.9	57.0	57.1	57.1	57.1	57.1	57.1	57.1
GE 14000	58.0	58.0	58.1	58.2	58.3	58.3	58.3	58.3	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5
GE 12000	61.7	61.7	62.0	62.1	62.2	62.2	62.2	62.2	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4
GE 10000	71.5	71.5	71.8	72.2	72.3	72.3	72.3	72.3	72.3	72.4	72.6	72.6	72.6	72.6	72.6	72.6
GE 9000	73.5	73.5	74.0	74.3	74.4	74.4	74.4	74.4	74.4	74.6	74.7	74.7	74.7	74.7	74.7	74.7
GE 8000	77.4	77.4	77.9	78.2	78.3	78.3	78.3	78.3	78.3	78.4	78.6	78.6	78.6	78.6	78.6	78.6
GE 7000	78.0	78.0	78.4	78.8	78.9	78.9	78.9	78.9	78.9	79.0	79.2	79.2	79.2	79.2	79.2	79.2
GE 6000	79.7	79.7	80.2	80.6	80.7	80.7	80.7	80.7	80.7	80.8	80.9	80.9	80.9	80.9	80.9	80.9
GE 5000	82.2	82.2	82.7	83.0	83.2	83.2	83.2	83.2	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4
GE 4500	83.4	83.5	84.0	84.3	84.5	84.5	84.5	84.5	84.5	84.6	84.7	84.7	84.7	84.7	84.7	84.7
GE 4000	85.5	85.6	86.1	86.5	86.7	86.7	86.7	86.7	86.7	86.8	86.9	86.9	86.9	86.9	86.9	86.9
GE 3500	86.7	86.8	87.6	88.0	88.2	88.2	88.2	88.2	88.2	88.3	88.5	88.5	88.5	88.5	88.5	88.5
GE 3000	88.5	88.6	89.5	90.0	90.2	90.2	90.2	90.3	90.3	90.7	90.8	90.8	90.8	90.8	90.8	90.8
GE 2500	89.6	89.8	90.7	91.2	91.5	91.5	91.6	91.8	91.8	92.1	92.2	92.2	92.2	92.2	92.2	92.2
GE 2000	90.0	90.1	91.3	91.8	92.5	92.5	92.6	92.7	92.8	93.4	93.5	93.5	93.5	93.5	93.5	93.5
GE 1800	90.2	90.3	91.6	92.1	92.8	92.8	92.9	93.1	93.2	93.8	93.9	93.9	93.9	93.9	93.9	93.9
GE 1500	90.2	90.3	91.8	92.3	93.1	93.1	93.4	93.8	93.9	94.5	94.6	94.6	94.6	94.6	94.6	94.6
GE 1200	90.3	90.5	92.0	92.6	93.3	93.3	93.8	94.1	94.3	94.9	95.1	95.1	95.1	95.1	95.1	95.1
GE 1000	90.7	90.8	92.6	93.2	93.9	93.9	94.6	94.9	95.2	95.9	96.1	96.1	96.1	96.1	96.2	96.2
GE 900	90.7	90.8	92.6	93.2	93.9	93.9	94.6	94.9	95.2	95.9	96.1	96.1	96.1	96.1	96.2	96.2
GE 800	90.9	91.0	92.8	93.4	94.1	94.1	94.8	95.2	95.4	96.3	96.6	96.7	96.7	96.7	96.8	96.8
GE 700	90.9	91.0	92.8	93.4	94.1	94.1	94.8	95.2	95.4	96.6	96.8	96.9	96.9	96.9	97.1	97.1
GE 600	91.2	91.5	93.3	93.9	94.6	94.7	95.4	95.8	96.0	97.2	97.4	97.5	97.5	97.5	97.6	97.6
GE 500	91.2	91.5	93.3	93.9	94.7	94.8	95.5	95.9	96.2	97.4	97.6	97.8	97.8	97.8	97.9	97.9
GE 400	91.4	91.8	93.5	94.1	94.9	95.1	95.9	96.2	96.7	98.1	98.4	98.5	98.5	98.5	98.6	98.6
GE 300	91.4	91.8	93.5	94.1	94.9	95.1	95.9	96.2	96.7	98.1	98.4	98.5	98.5	98.6	98.7	98.7
GE 200	91.4	91.8	93.5	94.1	94.9	95.1	95.9	96.2	96.7	98.2	98.5	98.6	98.7	98.8	99.1	99.3
GE 100	91.4	91.8	93.5	94.1	94.9	95.1	95.9	96.2	96.7	98.2	98.5	98.6	98.7	98.8	99.2	99.9
GE 000	91.4	91.8	93.5	94.1	94.9	95.1	95.9	96.2	96.7	98.2	98.5	98.6	98.7	98.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAPETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.7	51.8	51.9	52.3	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.4	52.5	52.5	52.7	52.7
GE 20000	57.8	58.0	58.1	58.4	58.4	58.4	58.4	58.4	58.5	58.5	58.5	58.5	58.7	58.7	58.8	58.8
GE 18000	58.8	58.9	59.0	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.6	59.6	59.7	59.7
GE 16000	58.9	59.0	59.1	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.7	59.7	59.8	59.8
GE 14000	59.8	60.0	60.1	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.7	60.7	60.8	60.8
GE 12000	63.4	63.5	63.6	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.2	64.2	64.3	64.3
GE 10000	71.7	71.8	72.0	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.6	72.6	72.7	72.7
GE 9000	73.5	73.6	73.7	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.3	74.3	74.4	74.4
GE 8000	74.6	74.7	74.8	75.1	75.1	75.1	75.1	75.1	75.3	75.3	75.3	75.3	75.4	75.4	75.5	75.5
GE 7000	75.4	75.5	75.6	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.2	76.2	76.3	76.3
GE 6000	76.7	76.8	76.9	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.5	77.5	77.6	77.6
GE 5000	78.1	78.2	78.3	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.9	78.9	79.0	79.0
GE 4500	79.4	79.5	79.6	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.2	80.2	80.3	80.3
GE 4000	82.0	82.1	82.4	82.8	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.2	83.2	83.3	83.3
GE 3500	83.3	83.4	83.7	84.1	84.2	84.3	84.3	84.3	84.5	84.6	84.6	84.6	84.7	84.7	84.8	84.8
GE 3000	85.2	85.5	85.9	86.7	86.9	87.0	87.2	87.3	87.4	87.6	87.6	87.6	87.8	87.8	87.9	87.9
GE 2500	86.2	86.6	87.4	88.2	88.5	88.7	88.8	88.9	89.0	89.4	89.4	89.4	89.5	89.5	89.6	89.6
GE 2000	86.6	86.9	87.9	88.7	88.9	89.2	89.6	90.1	90.2	90.6	90.6	90.6	90.7	90.7	90.8	90.8
GE 1800	86.6	86.9	87.9	88.7	88.9	89.3	89.8	90.2	90.3	90.7	90.7	90.7	90.8	90.8	90.9	90.9
GE 1500	87.3	87.9	88.8	89.8	90.1	90.5	90.9	91.5	91.6	92.2	92.2	92.2	92.3	92.3	92.5	92.5
GE 1200	87.6	88.2	89.2	90.1	90.6	90.9	91.4	92.0	92.1	92.7	92.7	92.7	92.8	92.8	92.9	92.9
GE 1000	87.8	88.3	89.3	90.3	90.8	91.2	92.0	92.6	92.8	93.4	93.4	93.4	93.5	93.5	93.6	93.6
GE 900	88.1	88.9	90.0	91.0	91.5	91.9	92.7	93.3	93.5	94.1	94.1	94.1	94.2	94.2	94.3	94.3
GE 800	88.2	89.0	90.1	91.2	91.8	92.1	93.1	93.8	94.0	94.7	94.8	94.8	94.9	94.9	95.1	95.1
GE 700	88.3	89.2	90.2	91.3	91.9	92.2	93.2	93.9	94.2	94.9	95.1	95.1	95.2	95.2	95.3	95.3
GE 600	88.6	89.4	90.6	91.6	92.3	92.7	93.9	94.8	95.2	96.1	96.2	96.2	96.3	96.3	96.5	96.5
GE 500	88.7	89.5	90.7	92.0	92.7	93.1	94.2	95.3	95.8	96.8	96.9	96.9	97.1	97.1	97.2	97.2
GE 400	88.8	89.6	90.8	92.1	93.2	93.5	94.7	95.9	96.6	97.6	97.8	97.8	97.9	97.9	98.0	98.0
GE 300	88.8	89.6	90.8	92.1	93.3	93.6	94.9	96.1	96.8	98.0	98.1	98.1	98.4	98.5	98.6	98.6
GE 200	88.8	89.6	90.8	92.1	93.3	93.6	94.9	96.1	96.8	98.1	98.2	98.2	98.8	98.9	99.1	99.1
GE 100	88.8	89.6	90.8	92.1	93.3	93.6	94.9	96.1	96.8	98.1	98.2	98.2	98.8	98.9	99.1	99.3
GE 000	88.8	89.6	90.8	92.1	93.3	93.6	94.9	96.1	96.8	98.1	98.2	98.2	98.8	98.9	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: FEB HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.9	47.1	47.2	47.4	47.5	47.5	47.5	47.6	47.6	47.6	47.6	47.6	47.7	47.8	48.0	48.0
GE 20000	54.9	55.0	55.2	55.5	55.6	55.6	55.6	55.6	55.7	55.7	55.8	55.8	55.9	55.9	56.1	56.1
GE 18000	55.6	55.7	55.9	56.1	56.2	56.3	56.3	56.3	56.4	56.4	56.4	56.4	56.5	56.6	56.8	56.8
GE 16000	56.0	56.2	56.3	56.6	56.7	56.7	56.8	56.8	56.8	56.9	56.9	56.9	57.0	57.1	57.3	57.3
GE 14000	58.2	58.4	58.6	58.9	59.0	59.0	59.0	59.1	59.1	59.1	59.2	59.2	59.3	59.3	59.5	59.5
GE 12000	62.5	62.7	62.9	63.2	63.3	63.3	63.3	63.3	63.4	63.5	63.5	63.5	63.6	63.7	63.8	63.9
GE 10000	70.0	70.2	70.5	70.8	71.0	71.0	71.0	71.0	71.1	71.2	71.2	71.2	71.3	71.4	71.5	71.6
GE 9000	71.6	71.8	72.1	72.4	72.6	72.6	72.6	72.6	72.7	72.8	72.8	72.8	72.9	73.0	73.1	73.2
GE 8000	75.0	75.2	75.5	75.9	76.1	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.4	76.5	76.7	76.7
GE 7000	75.9	76.1	76.4	76.8	77.0	77.0	77.1	77.1	77.1	77.2	77.2	77.2	77.3	77.4	77.6	77.6
GE 6000	77.1	77.3	77.6	78.0	78.2	78.2	78.3	78.3	78.3	78.4	78.4	78.4	78.5	78.6	78.8	78.8
GE 5000	79.0	79.2	79.6	80.0	80.2	80.2	80.3	80.3	80.3	80.4	80.5	80.5	80.6	80.6	80.8	80.8
GE 4500	79.9	80.3	80.6	81.1	81.2	81.2	81.3	81.4	81.4	81.5	81.5	81.5	81.6	81.7	81.9	81.9
GE 4000	82.0	82.3	82.8	83.3	83.6	83.6	83.8	83.8	83.8	83.9	84.0	84.0	84.1	84.1	84.3	84.3
GE 3500	83.1	83.4	84.1	84.7	85.1	85.1	85.2	85.3	85.3	85.4	85.5	85.5	85.6	85.6	85.8	85.8
GE 3000	85.2	85.6	86.5	87.3	87.8	87.9	88.1	88.2	88.3	88.5	88.5	88.5	88.6	88.7	88.9	88.9
GE 2500	86.0	86.4	87.5	88.4	89.0	89.1	89.4	89.6	89.6	89.8	89.9	89.9	90.0	90.1	90.2	90.3
GE 2000	86.4	86.9	88.1	89.1	89.8	90.0	90.4	90.8	90.9	91.1	91.2	91.2	91.3	91.4	91.5	91.6
GE 1800	86.5	87.1	88.3	89.3	90.0	90.3	90.7	91.0	91.2	91.4	91.5	91.5	91.6	91.7	91.8	91.9
GE 1500	86.9	87.4	88.8	89.9	90.8	91.1	91.6	92.2	92.3	92.7	92.7	92.7	92.8	92.9	93.1	93.1
GE 1200	87.1	87.7	89.1	90.2	91.2	91.5	92.1	92.7	92.9	93.3	93.3	93.3	93.5	93.5	93.7	93.7
GE 1000	87.4	88.0	89.4	90.6	91.7	92.0	92.8	93.4	93.8	94.3	94.4	94.4	94.5	94.6	94.8	94.8
GE 900	87.6	88.2	89.7	90.9	92.0	92.4	93.1	93.8	94.1	94.7	94.8	94.8	94.9	95.0	95.2	95.2
GE 800	87.7	88.3	89.8	91.1	92.2	92.5	93.3	94.0	94.4	95.1	95.3	95.3	95.4	95.5	95.7	95.8
GE 700	87.9	88.5	90.0	91.3	92.4	92.8	93.6	94.4	94.8	95.6	95.7	95.8	95.9	96.0	96.2	96.3
GE 600	88.0	88.7	90.3	91.5	92.7	93.1	94.0	94.9	95.5	96.3	96.6	96.6	96.8	96.9	97.1	97.1
GE 500	88.1	88.8	90.4	91.7	92.9	93.3	94.2	95.2	95.8	96.7	97.0	97.0	97.2	97.3	97.5	97.6
GE 400	88.3	89.0	90.6	91.9	93.2	93.7	94.6	95.6	96.3	97.3	97.6	97.6	97.8	97.9	98.2	98.2
GE 300	88.3	89.1	90.7	92.0	93.3	93.9	94.9	95.9	96.6	97.7	98.0	98.1	98.3	98.5	98.7	98.7
GE 200	88.3	89.1	90.7	92.1	93.4	93.9	94.9	96.0	96.7	97.8	98.2	98.2	98.7	98.9	99.2	99.3
GE 100	88.3	89.1	90.7	92.1	93.4	93.9	94.9	96.0	96.7	97.8	98.2	98.3	98.8	99.0	99.4	99.8
GE 000	88.3	89.1	90.7	92.1	93.4	93.9	94.9	96.0	96.7	97.8	98.2	98.3	98.8	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.1	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.5	51.5	51.7	51.7
GE 20000	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.8	55.8	55.8	55.9	55.9	56.1	56.1
GE 18000	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.8	55.8	55.8	55.9	55.9	56.1	56.1
GE 16000	55.7	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.0	56.0	56.1	56.1	56.3	56.3
GE 14000	56.7	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1	57.2	57.2	57.4	57.4
GE 12000	59.0	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.6	59.6	59.8	59.8
GE 10000	66.7	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.2	67.2	67.4	67.4
GE 9000	67.5	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	68.0	68.0	68.0	68.1	68.1	68.3	68.3
GE 8000	70.9	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.3	71.4	71.4	71.6	71.6
GE 7000	71.9	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.5	72.5	72.7	72.7
GE 6000	72.3	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.8	72.8	73.0	73.0
GE 5000	74.1	74.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.7	74.7	74.7	74.8	74.8	75.1	75.1
GE 4500	75.4	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8	76.0	76.0	76.0	76.1	76.1	76.3	76.3
GE 4000	78.6	78.7	79.2	79.5	79.6	79.6	79.6	79.6	79.6	79.8	79.8	79.8	79.9	79.9	80.1	80.1
GE 3500	79.6	79.7	80.4	80.6	80.8	80.8	80.8	80.8	80.8	81.0	81.0	81.0	81.1	81.1	81.3	81.3
GE 3000	80.9	81.0	82.3	82.5	83.0	83.0	83.0	83.1	83.1	83.3	83.3	83.3	83.4	83.4	83.7	83.7
GE 2500	82.6	82.7	84.0	84.3	85.1	85.1	85.1	85.2	85.2	85.4	85.4	85.4	85.5	85.5	85.7	85.7
GE 2000	84.0	84.1	85.6	85.9	87.0	87.0	87.1	87.5	87.5	87.7	87.7	87.7	87.8	87.8	88.1	88.1
GE 1800	84.3	84.4	85.9	86.2	87.4	87.4	87.5	88.0	88.0	88.2	88.2	88.2	88.3	88.3	88.5	88.5
GE 1500	85.2	85.3	87.1	87.4	88.6	88.7	89.2	89.7	89.7	89.9	89.9	89.9	90.0	90.0	90.2	90.2
GE 1200	85.5	85.6	87.6	88.0	89.6	89.7	90.4	91.0	91.0	91.3	91.3	91.3	91.4	91.4	91.6	91.6
GE 1000	86.0	86.1	88.3	88.7	90.6	90.8	91.6	92.5	92.5	93.0	93.1	93.1	93.2	93.2	93.4	93.4
GE 900	86.1	86.2	88.4	88.8	91.0	91.1	92.0	93.3	93.3	94.0	94.1	94.1	94.2	94.3	94.5	94.5
GE 800	86.3	86.6	88.7	89.1	91.4	91.5	92.5	94.0	94.1	94.7	95.1	95.1	95.2	95.3	95.5	95.5
GE 700	87.0	87.3	89.6	90.1	92.5	92.6	93.7	95.4	95.6	96.5	97.0	97.0	97.1	97.2	97.4	97.4
GE 600	87.1	87.4	89.7	90.3	92.8	92.9	94.0	95.7	95.9	96.8	97.3	97.3	97.4	97.5	97.8	97.8
GE 500	87.1	87.4	89.8	90.4	92.9	93.0	94.1	95.8	96.0	96.9	97.4	97.4	97.5	97.6	98.0	98.0
GE 400	87.5	87.8	90.3	91.0	93.4	93.5	94.6	96.6	96.8	97.6	98.2	98.2	98.3	98.4	98.7	98.7
GE 300	87.7	88.1	90.5	91.3	93.8	93.9	94.9	96.9	97.1	98.0	98.5	98.5	98.6	98.7	99.0	99.0
GE 200	87.7	88.1	90.5	91.3	94.0	94.1	95.3	97.3	97.5	98.4	98.9	98.9	99.0	99.1	99.6	99.7
GE 100	87.7	88.1	90.5	91.3	94.1	94.2	95.4	97.4	97.6	98.5	99.0	99.0	99.2	99.4	99.8	99.9
GE 000	87.7	88.1	90.5	91.3	94.1	94.2	95.4	97.4	97.6	98.5	99.1	99.1	99.4	99.5	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.8	48.8	49.0	49.0	49.1	49.1	49.2	49.2	49.5	49.7	49.7	49.7	49.9	49.9	49.9	49.9
GE 20000	54.8	54.8	55.1	55.1	55.2	55.2	55.3	55.3	55.5	55.7	55.7	55.7	55.9	55.9	55.9	56.0
GE 18000	54.8	54.8	55.1	55.1	55.2	55.2	55.3	55.3	55.5	55.7	55.7	55.7	55.9	55.9	55.9	56.0
GE 16000	55.2	55.2	55.4	55.4	55.5	55.5	55.6	55.6	55.8	56.0	56.0	56.0	56.2	56.2	56.2	56.3
GE 14000	56.6	56.6	56.8	56.8	56.9	56.9	57.0	57.0	57.2	57.4	57.4	57.4	57.6	57.6	57.6	57.7
GE 12000	59.1	59.1	59.4	59.4	59.5	59.5	59.6	59.6	59.8	60.0	60.0	60.0	60.2	60.2	60.2	60.3
GE 10000	65.1	65.1	65.3	65.4	65.5	65.5	65.6	65.6	65.8	66.0	66.0	66.0	66.2	66.2	66.2	66.3
GE 9000	65.8	65.8	66.0	66.1	66.2	66.2	66.3	66.3	66.6	66.8	66.8	66.8	67.0	67.0	67.0	67.1
GE 8000	68.4	68.4	68.6	68.7	68.8	68.8	68.9	68.9	69.1	69.4	69.4	69.4	69.6	69.6	69.6	69.7
GE 7000	69.4	69.4	69.6	69.7	69.9	69.9	70.0	70.0	70.2	70.4	70.4	70.4	70.6	70.6	70.6	70.8
GE 6000	69.8	69.8	70.1	70.2	70.4	70.4	70.5	70.5	70.8	71.0	71.0	71.0	71.2	71.2	71.2	71.3
GE 5000	71.1	71.1	71.4	71.5	71.7	71.7	71.8	71.8	72.0	72.3	72.3	72.3	72.5	72.5	72.5	72.6
GE 4500	72.6	72.6	72.9	73.0	73.2	73.2	73.3	73.3	73.5	73.8	73.8	73.8	74.0	74.0	74.0	74.1
GE 4000	76.0	76.0	76.6	76.7	77.0	77.0	77.1	77.1	77.3	77.5	77.5	77.5	77.7	77.7	77.7	77.8
GE 3500	76.6	76.6	77.1	77.2	77.7	77.7	77.8	77.8	78.1	78.3	78.3	78.3	78.5	78.5	78.5	78.6
GE 3000	77.7	77.7	78.7	79.0	80.1	80.1	80.2	80.2	80.4	80.6	80.6	80.6	80.9	80.9	80.9	81.0
GE 2500	78.8	78.8	79.9	80.4	81.5	81.5	81.6	81.6	81.8	82.0	82.0	82.0	82.3	82.3	82.3	82.4
GE 2000	79.7	79.7	80.8	81.3	82.6	82.7	82.8	82.9	83.1	83.3	83.3	83.3	83.5	83.5	83.5	83.7
GE 1800	80.2	80.2	31.3	81.8	83.1	83.2	83.3	83.4	83.7	83.9	83.9	83.9	84.1	84.1	84.1	84.2
GE 1500	81.3	81.3	82.4	82.9	84.4	84.5	84.8	84.9	85.2	85.4	85.4	85.4	85.6	85.6	85.6	85.7
GE 1200	81.9	81.9	83.3	84.3	86.1	86.2	86.7	86.8	87.0	87.2	87.2	87.2	87.4	87.4	87.4	87.5
GE 1000	82.8	82.9	84.5	85.6	87.6	87.7	88.2	88.6	88.8	89.0	89.0	89.0	89.2	89.2	89.2	89.4
GE 900	83.1	83.2	84.8	85.9	88.0	88.1	88.5	89.2	89.7	89.9	89.9	89.9	90.1	90.1	90.1	90.2
GE 800	83.1	83.3	85.1	86.2	88.5	88.6	89.0	90.0	90.4	90.9	91.2	91.2	91.4	91.4	91.4	91.5
GE 700	83.8	84.0	85.7	86.9	89.1	89.4	89.9	90.9	91.3	91.7	92.0	92.0	92.3	92.3	92.3	92.4
GE 600	84.4	84.6	86.5	87.8	90.1	90.3	90.9	91.9	92.5	93.2	93.8	93.8	94.1	94.1	94.1	94.2
GE 500	84.8	85.1	86.9	88.5	91.3	91.6	92.2	93.4	94.0	94.8	95.4	95.4	95.7	95.7	95.7	95.8
GE 400	85.3	85.6	87.6	89.5	92.6	92.9	93.4	94.7	95.3	96.1	96.7	96.7	97.0	97.0	97.0	97.1
GE 300	85.6	86.0	88.1	89.9	93.1	93.4	94.0	95.3	95.9	96.8	97.3	97.3	97.6	97.6	97.7	97.8
GE 200	85.6	86.0	88.1	89.9	93.1	93.4	94.0	95.3	95.9	96.8	97.4	97.4	98.1	98.1	98.3	98.6
GE 100	85.6	86.0	88.1	89.9	93.1	93.4	94.0	95.3	95.9	96.8	97.5	97.5	98.3	98.3	98.6	99.4
GE 000	85.6	86.0	88.1	89.9	93.1	93.4	94.0	95.3	95.9	96.8	97.6	97.6	98.4	98.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	40.4	40.4	40.5	40.5	40.8	40.8	40.8	40.9	40.9	41.1	41.2	41.2	41.3	41.3	41.5	41.6
GE 20000	47.2	47.2	47.3	47.3	47.5	47.5	47.5	47.6	47.6	47.8	48.0	48.0	48.1	48.1	48.4	48.5
GE 18000	47.4	47.4	47.5	47.5	47.7	47.7	47.7	47.8	47.8	48.1	48.2	48.2	48.3	48.3	48.6	48.7
GE 16000	48.0	48.0	48.1	48.1	48.3	48.3	48.3	48.4	48.4	48.6	48.7	48.7	48.8	48.8	49.1	49.2
GE 14000	50.5	50.5	50.8	50.8	51.0	51.0	51.0	51.1	51.1	51.3	51.4	51.4	51.5	51.5	51.8	51.9
GE 12000	55.2	55.2	55.4	55.4	55.6	55.6	55.6	55.7	55.7	55.9	56.0	56.0	56.1	56.1	56.5	56.6
GE 10000	62.3	62.3	62.5	62.5	62.7	62.7	62.7	62.8	62.8	63.0	63.1	63.1	63.3	63.3	63.8	64.1
GE 9000	62.9	62.9	63.1	63.1	63.3	63.3	63.3	63.4	63.4	63.7	63.8	63.8	64.0	64.0	64.4	64.7
GE 8000	67.1	67.2	67.4	67.4	67.6	67.6	67.6	67.7	67.7	68.1	68.2	68.2	68.4	68.4	68.8	69.1
GE 7000	68.1	68.2	68.6	68.6	68.8	68.8	68.8	68.9	68.9	69.2	69.4	69.4	69.6	69.6	70.0	70.3
GE 6000	68.8	68.9	69.4	69.4	69.6	69.6	69.6	69.7	69.7	70.0	70.1	70.1	70.3	70.3	70.8	71.1
GE 5000	71.3	71.4	71.9	71.9	72.2	72.2	72.3	72.4	72.4	72.7	72.8	72.8	73.0	73.0	73.4	73.8
GE 4500	73.1	73.2	73.8	73.9	74.1	74.1	74.2	74.3	74.3	74.6	74.7	74.7	74.9	74.9	75.4	75.7
GE 4000	76.0	76.1	76.9	77.0	77.2	77.2	77.4	77.5	77.5	77.8	78.0	78.0	78.2	78.2	78.6	78.9
GE 3500	77.2	77.3	78.2	78.4	78.6	78.6	78.8	78.9	78.9	79.2	79.4	79.4	79.6	79.6	80.0	80.3
GE 3000	77.7	77.8	78.9	79.2	79.6	79.6	79.8	80.0	80.0	80.3	80.4	80.4	80.6	80.6	81.2	81.5
GE 2500	78.2	78.5	79.6	80.0	80.3	80.3	80.5	80.8	80.8	81.1	81.2	81.2	81.4	81.4	81.9	82.3
GE 2000	78.6	78.9	80.1	80.5	81.0	81.0	81.3	81.6	81.6	81.9	82.0	82.0	82.3	82.3	82.8	83.1
GE 1800	78.9	79.2	80.4	80.9	81.3	81.3	81.6	81.9	81.9	82.3	82.4	82.4	82.6	82.6	83.1	83.4
GE 1500	79.6	79.9	81.1	81.6	82.3	82.4	82.8	83.1	83.1	83.5	83.8	83.8	84.0	84.0	84.5	84.8
GE 1200	80.4	80.8	81.9	82.5	83.2	83.3	83.9	84.4	84.4	84.8	85.1	85.1	85.3	85.3	85.8	86.1
GE 1000	81.4	81.7	83.0	83.7	84.8	85.1	85.8	86.3	86.3	86.9	87.2	87.2	87.5	87.5	88.1	88.4
GE 900	81.7	82.0	83.3	84.1	85.3	85.6	86.3	86.9	87.0	87.5	87.8	87.8	88.2	88.2	88.7	89.0
GE 800	81.8	82.2	83.5	84.3	85.9	86.2	87.3	88.0	88.2	89.1	89.5	89.5	89.9	89.9	90.4	90.8
GE 700	82.0	82.5	83.9	84.7	86.8	87.1	88.3	88.9	89.2	90.2	90.5	90.5	91.0	91.0	91.5	91.8
GE 600	82.4	82.8	84.2	85.1	87.2	87.5	88.9	89.9	90.2	91.5	92.0	92.0	92.5	92.5	93.0	93.3
GE 500	83.0	83.4	84.9	85.9	88.2	88.6	90.0	91.2	91.5	93.0	93.8	93.8	94.2	94.2	94.7	95.1
GE 400	83.4	83.9	85.5	86.8	89.2	89.8	91.2	92.6	92.9	94.5	95.3	95.3	95.8	95.8	96.3	96.7
GE 300	83.5	84.0	85.6	87.1	89.7	90.2	91.7	93.1	93.4	95.2	96.1	96.1	96.8	96.8	97.4	97.8
GE 200	83.5	84.0	85.7	87.2	89.8	90.3	91.8	93.5	94.0	95.8	96.9	96.9	97.6	97.7	98.6	99.1
GE 100	83.5	84.0	85.7	87.2	89.8	90.3	91.8	93.7	94.1	95.9	97.0	97.0	97.8	98.0	99.0	99.7
GE 000	83.5	84.0	85.7	87.2	89.8	90.3	91.8	93.7	94.1	95.9	97.0	97.0	97.8	98.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.1	43.2	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 20000	51.7	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 18000	52.5	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 16000	52.5	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 14000	54.9	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 12000	59.8	59.9	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 10000	66.3	66.5	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9	67.1	67.2
GE 9000	67.7	67.8	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.5	68.6
GE 8000	70.4	70.5	70.9	71.1	71.1	71.1	71.2	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.6	71.7
GE 7000	71.3	71.5	71.8	72.0	72.2	72.2	72.3	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.8	72.9
GE 6000	72.7	72.9	73.2	73.4	73.5	73.5	73.7	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.2	74.3
GE 5000	73.4	73.7	74.0	74.2	74.4	74.4	74.5	74.7	74.7	74.8	74.8	74.8	74.8	74.8	75.1	75.2
GE 4500	74.1	74.3	74.7	74.9	75.2	75.3	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.9	76.0
GE 4000	76.7	77.0	77.5	77.7	78.3	78.4	78.5	78.7	78.7	78.8	78.8	78.8	78.8	78.8	79.0	79.1
GE 3500	78.7	79.1	79.8	80.2	80.8	81.0	81.1	81.3	81.3	81.4	81.5	81.5	81.5	81.5	81.7	81.8
GE 3000	80.1	80.5	81.6	82.0	82.9	83.2	83.3	84.0	84.0	84.1	84.4	84.5	84.5	84.5	84.7	84.8
GE 2500	80.2	80.6	81.7	82.3	83.2	83.5	83.7	84.3	84.4	84.5	84.8	84.9	84.9	84.9	85.2	85.3
GE 2000	80.9	81.5	82.7	83.4	84.4	84.9	85.2	85.8	86.0	86.3	86.7	86.8	86.8	86.8	87.0	87.1
GE 1800	81.4	82.0	83.2	84.0	84.9	85.5	85.7	86.3	86.6	86.9	87.2	87.3	87.4	87.4	87.6	87.7
GE 1500	82.2	82.8	84.0	84.7	85.8	86.5	86.7	87.3	87.5	87.8	88.3	88.4	88.6	88.6	88.8	88.9
GE 1200	82.7	83.3	84.5	85.3	86.7	87.3	88.1	89.0	89.5	89.8	90.4	90.5	90.8	90.8	91.0	91.1
GE 1000	82.8	83.4	84.6	85.5	87.2	88.0	88.8	90.2	90.8	91.1	91.8	91.9	92.3	92.3	92.5	92.6
GE 900	82.9	83.5	84.7	85.6	87.4	88.2	89.0	90.4	91.0	91.4	92.2	92.3	92.6	92.6	92.8	92.9
GE 800	82.9	83.5	84.8	85.7	87.6	88.5	89.4	91.0	91.5	91.9	92.8	92.9	93.2	93.2	93.4	93.5
GE 700	83.0	83.7	85.2	86.0	88.0	88.8	89.9	91.6	92.2	93.2	94.1	94.2	94.5	94.5	94.7	94.8
GE 600	83.2	84.1	85.7	86.8	88.7	89.7	90.8	92.5	93.0	94.1	94.9	95.1	95.5	95.5	95.7	95.8
GE 500	83.8	84.6	86.3	87.8	89.8	90.8	91.9	94.0	94.6	95.8	96.7	96.8	97.2	97.3	97.6	97.7
GE 400	83.8	84.6	86.6	88.3	90.2	91.2	92.4	94.7	95.4	96.6	97.4	97.5	98.0	98.1	98.4	98.5
GE 300	83.8	84.6	86.6	88.3	90.4	91.4	92.6	95.1	95.7	97.0	98.0	98.1	98.5	98.6	99.0	99.1
GE 200	83.8	84.6	86.6	88.3	90.4	91.4	92.6	95.1	95.7	97.0	98.0	98.1	98.5	98.6	99.2	99.4
GE 100	83.8	84.6	86.6	88.3	90.4	91.4	92.6	95.1	95.7	97.0	98.0	98.1	98.5	98.6	99.4	100.0
GE 000	83.8	84.6	86.6	88.3	90.4	91.4	92.6	95.1	95.7	97.0	98.0	98.1	98.5	98.6	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 418 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
GE 20000	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 18000	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 16000	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 14000	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 12000	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
GE 10000	63.5	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0
GE 9000	64.8	64.9	64.9	64.9	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3
GE 8000	68.3	68.4	68.5	68.5	68.6	68.6	68.6	68.6	68.8	68.9	68.9	68.9	68.9	68.9	69.0	69.0
GE 7000	69.0	69.1	69.2	69.2	69.4	69.4	69.4	69.4	69.6	69.7	69.7	69.7	69.7	69.7	69.8	69.8
GE 6000	70.5	70.6	70.8	70.9	71.0	71.0	71.0	71.0	71.2	71.3	71.3	71.3	71.3	71.3	71.4	71.4
GE 5000	73.3	73.4	73.5	73.7	73.8	73.8	73.8	73.8	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2
GE 4500	74.9	75.1	75.2	75.3	75.4	75.4	75.4	75.4	75.6	75.7	75.7	75.7	75.7	75.7	75.8	75.8
GE 4000	78.1	78.2	78.3	78.4	78.6	78.6	78.9	78.9	79.1	79.4	79.4	79.4	79.4	79.4	79.5	79.5
GE 3500	80.2	80.4	80.6	80.8	81.1	81.1	81.4	81.4	81.6	81.8	81.8	81.8	81.8	81.8	81.9	81.9
GE 3000	81.3	81.8	82.2	82.3	82.6	82.7	83.0	83.1	83.3	83.5	83.5	83.5	83.5	83.5	83.7	83.7
GE 2500	82.6	83.1	83.5	83.9	84.3	84.5	85.1	85.3	85.7	85.9	85.9	85.9	85.9	85.9	86.0	86.0
GE 2000	84.1	84.6	85.2	85.5	85.9	86.1	86.9	87.1	87.5	87.7	87.8	87.8	87.8	87.8	88.0	88.0
GE 1800	85.3	85.9	86.7	87.0	87.4	87.6	88.4	88.6	89.0	89.2	89.4	89.4	89.4	89.4	89.5	89.5
GE 1500	86.0	86.7	87.4	87.7	88.4	88.7	89.8	90.0	90.4	90.6	90.8	90.8	90.8	90.8	91.1	91.1
GE 1200	86.9	87.6	88.4	88.9	90.0	90.5	91.6	91.9	92.6	92.9	93.1	93.1	93.1	93.1	93.4	93.5
GE 1000	87.3	88.1	88.9	89.6	90.8	91.3	92.6	93.1	93.8	94.2	94.5	94.5	94.6	94.6	94.9	95.1
GE 900	87.8	88.6	89.5	90.1	91.4	92.0	93.5	94.1	94.7	95.2	95.5	95.5	95.6	95.6	95.9	96.0
GE 800	88.3	89.0	89.9	90.5	91.8	92.5	94.0	94.5	95.2	95.7	96.1	96.1	96.2	96.2	96.6	96.7
GE 700	88.3	89.0	90.1	90.8	92.0	92.7	94.2	94.8	95.6	96.2	96.7	96.7	96.8	96.8	97.1	97.2
GE 600	88.3	89.0	90.3	91.0	92.4	93.0	94.5	95.2	95.9	96.7	97.2	97.2	97.3	97.3	97.6	97.7
GE 500	88.5	89.2	90.8	91.6	93.1	93.8	95.3	95.9	96.7	97.5	98.1	98.1	98.2	98.2	98.5	98.6
GE 400	88.5	89.2	90.8	91.6	93.3	94.0	95.5	96.2	97.0	98.1	98.6	98.6	98.9	98.9	99.2	99.4
GE 300	88.5	89.2	90.8	91.6	93.3	94.0	95.5	96.2	97.0	98.1	98.7	98.7	99.0	99.2	99.7	99.8
GE 200	88.5	89.2	90.8	91.6	93.3	94.0	95.5	96.2	97.0	98.1	98.7	98.7	99.0	99.2	99.7	99.9
GE 100	88.5	89.2	90.8	91.6	93.3	94.0	95.5	96.2	97.0	98.1	98.7	98.7	99.0	99.2	99.7	99.9
GE 000	88.5	89.2	90.8	91.6	93.3	94.0	95.5	96.2	97.0	98.1	98.7	98.7	99.0	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
GE 20000	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 18000	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
GE 16000	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 14000	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
GE 12000	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 10000	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 9000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 8000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 7000	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 6000	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 5000	76.5	76.5	76.6	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 4500	78.0	78.0	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 4000	80.3	80.3	80.5	80.6	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 3500	82.6	82.6	82.8	82.9	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 3000	85.6	85.7	85.9	86.3	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 2500	87.2	87.4	87.6	88.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 2000	88.4	88.6	88.8	90.1	91.1	91.2	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 1800	88.5	88.7	88.9	90.2	91.3	91.4	91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1500	89.4	89.6	89.8	91.2	92.4	92.5	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1200	89.9	90.2	90.5	92.3	93.9	94.1	94.3	94.6	94.8	94.9	95.2	95.2	95.2	95.2	95.2	95.2
GE 1000	90.1	90.5	91.0	92.7	94.4	94.6	94.8	95.3	95.5	95.6	95.8	95.8	95.8	95.8	95.8	95.8
GE 900	90.8	91.2	91.8	93.5	95.3	95.5	95.7	96.1	96.3	96.5	96.7	96.7	96.7	96.7	96.7	96.7
GE 800	91.0	91.4	92.0	93.8	95.5	95.7	96.0	96.7	97.1	97.3	97.6	97.6	97.6	97.7	97.7	97.7
GE 700	91.1	91.5	92.2	93.9	95.6	95.8	96.3	97.0	97.4	97.6	98.0	98.0	98.0	98.2	98.3	98.3
GE 600	91.2	91.6	92.4	94.3	96.0	96.2	96.8	97.5	98.0	98.2	98.5	98.5	98.6	98.8	98.9	98.9
GE 500	91.2	91.6	92.4	94.3	96.0	96.2	96.8	97.5	98.0	98.2	98.6	98.6	98.7	98.9	99.0	99.0
GE 400	91.2	91.6	92.4	94.3	96.0	96.2	97.0	97.7	98.3	98.6	99.4	99.5	99.7	99.9	100.0	100.0
GE 300	91.2	91.6	92.4	94.3	96.0	96.2	97.0	97.7	98.3	98.6	99.4	99.5	99.7	99.9	100.0	100.0
GE 200	91.2	91.6	92.4	94.3	96.0	96.2	97.0	97.7	98.3	98.6	99.4	99.5	99.7	99.9	100.0	100.0
GE 100	91.2	91.6	92.4	94.3	96.0	96.2	97.0	97.7	98.3	98.6	99.4	99.5	99.7	99.9	100.0	100.0
GE 000	91.2	91.6	92.4	94.3	96.0	96.2	97.0	97.7	98.3	98.6	99.4	99.5	99.7	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
GE 20000	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 18000	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
GE 16000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 14000	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
GE 12000	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 10000	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 9000	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 8000	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 7000	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 6000	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 5000	77.7	77.7	78.0	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 4500	79.8	79.8	80.0	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
GE 4000	82.2	82.2	82.6	82.8	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 3500	83.3	83.3	83.8	84.0	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 3000	85.3	85.5	86.2	86.7	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 2500	86.9	87.1	88.0	88.6	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 2000	88.1	88.3	89.1	89.9	90.8	90.9	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 1800	88.2	88.4	89.2	90.1	91.0	91.1	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1500	89.2	89.7	90.9	91.7	93.0	93.1	93.3	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 1200	89.6	90.1	91.4	92.4	94.1	94.3	94.5	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1000	89.6	90.4	91.7	92.7	94.4	94.6	94.9	95.7	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 900	89.6	90.4	91.7	92.7	94.4	94.7	95.2	95.9	96.1	96.7	96.8	96.8	96.8	96.8	96.8	96.8
GE 800	89.6	90.4	91.7	92.8	94.5	94.8	95.3	96.2	96.5	97.1	97.2	97.2	97.2	97.2	97.2	97.2
GE 700	89.6	90.4	91.7	92.8	94.5	94.9	95.7	97.0	97.3	98.0	98.2	98.2	98.2	98.2	98.2	98.2
GE 600	89.6	90.4	91.7	92.8	94.6	95.1	95.8	97.3	97.7	98.4	98.6	98.6	98.7	98.7	98.7	98.7
GE 500	89.7	90.5	91.8	92.9	94.8	95.3	96.0	97.7	98.2	98.9	99.1	99.1	99.2	99.2	99.2	99.2
GE 400	89.8	90.6	91.9	93.0	94.9	95.4	96.1	98.0	98.4	99.1	99.6	99.6	99.7	99.7	99.7	99.7
GE 300	89.8	90.6	91.9	93.0	94.9	95.4	96.1	98.0	98.4	99.1	99.6	99.6	99.7	99.7	99.7	99.7
GE 200	89.8	90.6	91.9	93.0	94.9	95.4	96.1	98.0	98.4	99.1	99.6	99.6	99.7	99.7	99.7	99.7
GE 100	89.8	90.6	91.9	93.0	94.9	95.4	96.1	98.0	98.5	99.2	99.7	99.7	100.0	100.0	100.0	100.0
GE 000	89.8	90.6	91.9	93.0	94.9	95.4	96.1	98.0	98.5	99.2	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 20000	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 18000	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 16000	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 14000	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 12000	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 10000	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 9000	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 8000	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 7000	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 6000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 5000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 4500	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 4000	81.0	81.0	81.1	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 3500	82.2	82.2	82.4	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 3000	83.3	83.4	84.0	84.2	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 2500	84.9	85.1	85.7	86.0	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2000	86.6	86.7	87.5	87.8	88.6	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 1800	86.9	87.0	87.8	88.3	89.0	89.1	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1500	87.8	88.0	89.4	89.8	90.6	90.8	91.2	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1200	88.4	88.5	89.9	90.3	91.7	91.9	92.5	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1000	88.7	88.9	90.4	90.9	92.4	92.8	93.4	93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 900	89.0	89.2	90.8	91.2	92.7	93.3	94.1	94.5	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 800	89.1	89.4	90.9	91.3	92.8	93.4	94.4	94.8	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 700	89.6	89.9	91.5	91.9	93.4	94.2	95.6	96.3	96.7	97.0	97.0	97.0	97.1	97.1	97.1	97.1
GE 600	89.8	90.1	91.8	92.4	94.0	94.7	96.1	96.9	97.2	97.5	97.5	97.5	97.6	97.6	97.6	97.6
GE 500	90.1	90.4	92.2	92.7	94.4	95.2	96.7	97.5	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6
GE 400	90.2	90.5	92.3	92.9	94.6	95.4	97.1	98.1	98.5	98.8	98.8	98.8	99.1	99.1	99.1	99.1
GE 300	90.3	90.6	92.4	93.0	94.7	95.5	97.3	98.3	98.7	99.4	99.4	99.5	99.8	99.8	99.8	99.8
GE 200	90.3	90.6	92.4	93.0	94.7	95.5	97.3	98.3	98.7	99.4	99.4	99.5	99.8	99.8	99.8	99.8
GE 100	90.3	90.6	92.4	93.0	94.7	95.5	97.3	98.3	98.7	99.5	99.5	99.6	99.9	100.0	100.0	100.0
GE 000	90.3	90.6	92.4	93.0	94.7	95.5	97.3	98.3	98.7	99.5	99.5	99.6	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 418 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.8	43.8	43.9	43.9	43.9	43.9	43.9	43.9	44.0	44.0	44.0	44.0	44.1	44.1	44.2	44.2
GE 20000	52.0	52.0	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.3	52.3	52.3	52.4	52.4	52.4	52.4
GE 18000	52.2	52.3	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.5	52.5	52.5	52.6	52.6	52.6	52.7
GE 16000	52.5	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.8	52.8	52.8	52.9	52.9	53.0	53.0
GE 14000	54.4	54.4	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.9
GE 12000	58.3	58.3	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.6	58.6	58.6	58.7	58.7	58.7	58.8
GE 10000	64.9	65.0	65.1	65.1	65.2	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.4	65.4	65.5	65.6
GE 9000	65.9	65.9	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.3	66.3	66.3	66.4	66.4	66.5	66.5
GE 8000	69.9	69.9	70.1	70.1	70.2	70.2	70.2	70.2	70.3	70.4	70.4	70.4	70.5	70.5	70.6	70.7
GE 7000	70.9	71.0	71.2	71.2	71.3	71.3	71.3	71.4	71.4	71.5	71.6	71.6	71.6	71.6	71.7	71.8
GE 6000	72.0	72.0	72.2	72.3	72.4	72.4	72.4	72.4	72.5	72.6	72.6	72.6	72.7	72.7	72.8	72.9
GE 5000	74.3	74.4	74.6	74.7	74.8	74.8	74.9	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.3	75.3
GE 4500	75.7	75.8	76.0	76.1	76.3	76.3	76.4	76.4	76.5	76.6	76.6	76.6	76.7	76.7	76.8	76.8
GE 4000	78.6	78.7	79.1	79.2	79.5	79.6	79.7	79.7	79.8	79.9	79.9	79.9	80.0	80.0	80.1	80.2
GE 3500	80.0	80.1	80.6	80.8	81.2	81.2	81.3	81.4	81.4	81.5	81.6	81.6	81.6	81.6	81.8	81.8
GE 3000	81.5	81.7	82.5	82.8	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.0	84.0	84.0	84.2	84.2
GE 2500	82.7	82.9	83.8	84.2	85.0	85.1	85.2	85.4	85.5	85.6	85.7	85.7	85.8	85.8	85.9	86.0
GE 2000	83.8	84.0	85.0	85.6	86.4	86.6	86.8	87.1	87.2	87.4	87.4	87.4	87.5	87.5	87.6	87.7
GE 1800	84.2	84.5	85.4	86.1	86.9	87.1	87.3	87.6	87.8	87.9	88.0	88.0	88.1	88.1	88.2	88.3
GE 1500	85.1	85.4	86.5	87.1	88.2	88.4	88.8	89.1	89.2	89.4	89.5	89.5	89.6	89.6	89.8	89.9
GE 1200	85.7	86.0	87.2	88.0	89.4	89.7	90.2	90.7	90.9	91.2	91.3	91.3	91.4	91.4	91.6	91.7
GE 1000	86.1	86.5	87.8	88.7	90.3	90.6	91.3	91.9	92.2	92.5	92.7	92.8	92.9	92.9	93.1	93.1
GE 900	86.4	86.8	88.1	89.0	90.7	91.1	91.8	92.6	92.9	93.3	93.5	93.5	93.6	93.7	93.8	93.9
GE 800	86.5	87.0	88.3	89.2	91.0	91.4	92.2	93.1	93.5	94.0	94.4	94.4	94.5	94.5	94.7	94.8
GE 700	86.8	87.3	88.7	89.6	91.5	91.9	92.9	94.0	94.4	95.1	95.4	95.4	95.6	95.6	95.8	95.9
GE 600	87.0	87.5	89.0	90.1	92.0	92.4	93.5	94.6	95.1	95.8	96.2	96.3	96.5	96.5	96.7	96.8
GE 500	87.3	87.8	89.4	90.5	92.6	93.1	94.1	95.4	95.9	96.7	97.2	97.2	97.4	97.5	97.7	97.8
GE 400	87.5	88.0	89.7	90.9	93.1	93.5	94.7	96.1	96.6	97.4	98.0	98.0	98.3	98.4	98.6	98.6
GE 300	87.6	88.1	89.8	91.1	93.3	93.8	94.9	96.3	96.8	97.8	98.4	98.4	98.7	98.8	99.0	99.1
GE 200	87.6	88.1	89.8	91.1	93.3	93.8	94.9	96.4	96.9	97.9	98.5	98.6	98.9	99.0	99.4	99.5
GE 100	87.6	88.1	89.8	91.1	93.3	93.8	95.0	96.5	97.0	97.9	98.6	98.6	99.1	99.2	99.6	99.9
GE 000	87.6	88.1	89.8	91.1	93.3	93.8	95.0	96.5	97.0	97.9	98.6	98.7	99.1	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

FORM NO 419

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 20000	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 18000	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 16000	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 14000	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 12000	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 10000	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 9000	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 8000	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 7000	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 6000	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 5000	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 4500	86.9	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 4000	87.4	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 3500	88.4	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 3000	89.2	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 2500	90.3	90.7	90.7	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 2000	90.4	90.8	90.9	91.0	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 1800	90.7	91.0	91.1	91.2	91.3	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 1500	91.6	92.1	92.2	92.4	92.7	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1200	91.9	92.4	92.6	92.8	93.0	93.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 1000	92.2	92.8	92.9	93.1	93.4	93.4	94.3	94.3	94.3	94.4	94.6	94.6	94.6	94.6	94.6	94.6
GE 900	92.3	92.9	93.0	93.2	93.6	93.6	94.4	94.4	94.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8
GE 800	92.7	93.2	93.4	93.7	94.1	94.1	95.0	95.0	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4
GE 700	92.9	93.4	93.7	94.0	94.4	94.4	95.3	95.3	95.3	95.8	95.9	95.9	96.0	96.0	96.0	96.0
GE 600	93.0	93.6	93.8	94.2	94.8	94.8	95.9	96.0	96.1	96.6	96.7	96.7	96.8	96.8	96.8	96.8
GE 500	93.3	94.0	94.2	94.7	95.6	95.6	96.7	96.8	97.0	97.6	97.7	97.7	98.3	98.3	98.3	98.3
GE 400	93.3	94.0	94.2	94.7	95.7	95.8	97.4	97.6	98.0	98.7	98.8	98.8	99.6	99.6	99.6	99.6
GE 300	93.4	94.1	94.3	94.8	95.9	96.0	97.7	97.8	98.2	99.0	99.1	99.1	99.9	99.9	99.9	99.9
GE 200	93.4	94.1	94.3	94.8	95.9	96.0	97.7	97.8	98.2	99.0	99.1	99.1	99.9	99.9	99.9	99.9
GE 100	93.4	94.1	94.3	94.8	95.9	96.0	97.7	97.8	98.2	99.0	99.1	99.1	100.0	100.0	100.0	100.0
GE 000	93.4	94.1	94.3	94.8	95.9	96.0	97.7	97.8	98.2	99.0	99.1	99.1	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 418 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 20000	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 18000	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 16000	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 14000	70.8	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 12000	74.0	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 10000	78.4	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 9000	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 8000	80.6	81.0	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 7000	80.8	81.2	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 6000	81.6	82.0	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 5000	83.7	84.1	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 4500	84.9	85.3	85.4	85.4	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 4000	85.6	86.1	86.2	86.3	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 3500	86.7	87.2	87.3	87.4	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 3000	88.0	88.7	89.1	89.2	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 2500	89.1	89.8	90.2	90.3	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GE 2000	89.8	90.4	90.9	91.0	91.1	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 1800	89.8	90.4	90.9	91.0	91.1	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 1500	90.8	91.4	92.0	92.2	92.7	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1200	91.1	91.8	92.3	92.6	93.0	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 1000	91.4	92.2	92.8	93.0	93.6	93.7	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 900	91.8	92.6	93.2	93.4	94.0	94.1	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 800	91.9	92.7	93.3	93.7	94.2	94.3	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 700	92.2	93.0	93.8	94.1	94.7	94.8	95.3	95.6	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8
GE 600	92.4	93.3	94.1	94.4	95.0	95.1	95.8	96.2	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4
GE 500	93.0	93.9	94.7	95.0	95.6	95.8	96.8	97.2	97.3	97.8	97.9	97.9	98.0	98.0	98.0	98.0
GE 400	93.0	93.9	94.8	95.3	96.1	96.3	97.7	98.1	98.3	98.8	98.9	98.9	99.3	99.3	99.3	99.3
GE 300	93.0	93.9	94.9	95.4	96.2	96.4	97.8	98.2	98.6	99.2	99.3	99.3	99.8	99.8	99.9	100.0
GE 200	93.0	93.9	94.9	95.4	96.2	96.4	97.8	98.2	98.6	99.2	99.3	99.3	99.8	99.8	99.9	100.0
GE 100	93.0	93.9	94.9	95.4	96.2	96.4	97.8	98.2	98.6	99.2	99.3	99.3	99.8	99.8	99.9	100.0
GE 000	93.0	93.9	94.9	95.4	96.2	96.4	97.8	98.2	98.6	99.2	99.3	99.3	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES														
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.1	53.1	53.1	53.1
GE 20000	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4
GE 18000	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2
GE 16000	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.3
GE 14000	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4
GE 12000	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2
GE 10000	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.3
GE 9000	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.9	75.9	75.9	75.9
GE 8000	78.2	78.2	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.6	78.6	78.6	78.6
GE 7000	78.8	78.8	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1
GE 6000	79.7	79.7	79.8	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0
GE 5000	81.9	81.9	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2	82.2	82.2
GE 4500	83.4	83.4	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8
GE 4000	84.9	85.2	85.4	85.4	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.8	85.8	85.9	85.9
GE 3500	85.9	86.3	86.7	86.7	86.8	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.3	87.3
GE 3000	87.6	88.0	88.7	88.8	88.9	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.4	89.4
GE 2500	88.7	89.1	90.0	90.1	90.2	90.2	90.6	90.6	90.6	90.6	90.6	90.6	90.7	90.7	90.8	90.8
GE 2000	89.8	90.4	91.4	91.6	91.8	91.8	92.1	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.4	92.4
GE 1800	89.9	90.6	91.6	91.8	92.1	92.1	92.4	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.8	92.8
GE 1500	90.4	91.2	92.2	92.4	92.8	92.8	93.1	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.4	93.4
GE 1200	90.4	91.2	92.2	92.4	92.8	92.8	93.3	93.4	93.4	93.4	93.4	93.4	93.6	93.6	93.7	93.7
GE 1000	90.7	91.4	92.4	92.7	93.1	93.2	93.9	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.2	94.2
GE 900	90.9	91.7	92.7	92.9	93.4	93.6	94.2	94.3	94.3	94.3	94.3	94.3	94.4	94.4	94.6	94.6
GE 800	91.1	91.9	92.9	93.2	93.8	93.9	94.6	94.9	94.9	94.9	94.9	94.9	95.0	95.0	95.1	95.1
GE 700	91.2	92.0	93.2	93.6	94.1	94.2	94.9	95.2	95.2	95.4	95.4	95.4	95.6	95.6	95.7	95.7
GE 600	91.6	92.3	93.7	94.1	94.8	94.9	95.6	96.1	96.1	96.3	96.3	96.3	96.8	97.0	97.1	97.1
GE 500	91.7	92.4	93.8	94.2	95.0	95.2	96.0	96.6	96.6	97.1	97.2	97.2	97.9	98.1	98.2	98.2
GE 400	91.8	92.6	93.9	94.3	95.1	95.3	96.3	97.1	97.3	98.0	98.1	98.1	98.9	99.1	99.2	99.2
GE 300	91.8	92.6	93.9	94.6	95.4	95.7	96.8	97.6	97.8	98.4	98.6	98.6	99.4	99.7	99.9	99.9
GE 200	91.8	92.6	93.9	94.6	95.4	95.7	96.8	97.6	97.8	98.4	98.6	98.6	99.4	99.7	99.9	99.9
GE 100	91.8	92.6	93.9	94.6	95.4	95.7	96.8	97.6	97.8	98.4	98.6	98.6	99.4	99.7	99.9	100.0
GE 000	91.8	92.6	93.9	94.6	95.4	95.7	96.8	97.6	97.8	98.4	98.6	98.6	99.4	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.7	50.7	50.7	50.7	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 20000	60.7	60.7	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 18000	62.0	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 16000	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 14000	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 12000	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 10000	74.8	74.8	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 9000	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 8000	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 7000	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 6000	80.8	80.8	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 5000	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 4500	83.6	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 4000	85.7	85.7	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 3500	86.2	86.2	86.3	86.6	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 3000	87.8	87.9	88.1	88.3	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 2500	88.6	88.7	89.0	89.3	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 2000	89.3	89.4	89.8	90.1	90.3	90.6	90.7	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1800	89.6	89.7	90.0	90.3	90.6	90.8	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 1500	91.2	91.3	91.9	92.2	92.4	92.7	92.9	93.0	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1200	91.8	91.9	92.4	92.8	93.1	93.3	93.6	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1000	92.3	92.4	93.2	93.6	94.0	94.3	94.6	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 900	92.7	92.8	93.6	93.9	94.3	94.7	94.9	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 800	93.2	93.4	94.3	94.7	95.1	95.4	95.7	95.9	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 700	93.8	94.0	94.9	95.2	95.7	96.1	96.3	96.6	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 600	94.0	94.2	95.1	95.6	96.0	96.6	96.8	97.0	97.3	97.7	97.8	97.8	97.8	97.9	97.9	97.9
GE 500	94.0	94.2	95.2	95.8	96.6	97.1	97.6	98.1	98.7	99.0	99.1	99.1	99.2	99.3	99.3	99.3
GE 400	94.0	94.2	95.2	95.8	96.6	97.1	97.7	98.2	98.9	99.2	99.4	99.4	99.7	99.8	99.8	99.8
GE 300	94.0	94.2	95.2	95.8	96.6	97.2	97.8	98.3	99.0	99.3	99.6	99.7	99.9	100.0	100.0	100.0
GE 200	94.0	94.2	95.2	95.8	96.6	97.2	97.8	98.3	99.0	99.3	99.6	99.7	99.9	100.0	100.0	100.0
GE 100	94.0	94.2	95.2	95.8	96.6	97.2	97.8	98.3	99.0	99.3	99.6	99.7	99.9	100.0	100.0	100.0
GE 000	94.0	94.2	95.2	95.8	96.6	97.2	97.8	98.3	99.0	99.3	99.6	99.7	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM 419

OPERATING LOCATION "A" — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC — FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
GE 20000	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 18000	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 16000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 14000	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 12000	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 10000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 9000	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 8000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 7000	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 6000	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 5000	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 4500	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 4000	86.0	86.0	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 3500	88.3	88.3	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 3000	91.1	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 2500	92.2	92.2	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 2000	93.4	93.4	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1800	93.8	93.8	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1500	94.3	94.3	94.7	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 1200	95.0	95.1	95.6	96.0	96.1	96.2	96.3	96.3	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.6
GE 1000	95.3	95.4	95.9	96.3	96.6	96.7	96.8	96.8	96.8	97.1	97.2	97.2	97.2	97.2	97.2	97.2
GE 900	96.1	96.2	96.7	97.1	97.3	97.4	97.6	97.6	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0
GE 800	96.3	96.4	96.9	97.4	97.7	97.8	97.9	98.0	98.0	98.4	98.6	98.6	98.6	98.6	98.6	98.6
GE 700	96.8	97.0	97.4	98.0	98.2	98.3	98.4	98.6	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1
GE 600	96.8	97.0	97.6	98.1	98.3	98.6	98.7	98.9	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	96.9	97.1	97.8	98.3	98.6	98.8	99.1	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	96.9	97.1	97.8	98.3	98.6	98.8	99.1	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	96.9	97.1	97.8	98.3	98.6	98.8	99.1	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	96.9	97.1	97.8	98.3	98.6	98.8	99.1	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	96.9	97.1	97.8	98.3	98.6	98.8	99.1	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	96.9	97.1	97.8	98.3	98.6	98.8	99.1	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 113 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 20000	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 18000	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 16000	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 14000	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 12000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 10000	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 9000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 8000	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 7000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 6000	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 5000	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 4500	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 4000	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 3500	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 3000	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 2500	94.6	94.6	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 2000	95.4	95.4	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1800	95.6	95.6	95.8	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1500	96.3	96.3	97.1	97.3	97.9	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1200	96.3	96.3	97.1	97.3	97.9	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1000	96.4	96.4	97.2	97.4	98.0	98.3	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 900	96.8	96.8	97.6	97.8	98.3	98.7	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 800	96.9	96.9	97.7	97.9	98.4	98.8	99.0	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4
GE 700	97.0	97.0	97.8	98.0	98.6	98.9	99.1	99.2	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	97.1	97.1	97.9	98.2	98.8	99.1	99.3	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	97.1	97.1	98.0	98.3	98.9	99.2	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	97.1	97.1	98.0	98.3	98.9	99.2	99.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	97.1	97.1	98.0	98.3	98.9	99.2	99.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	97.1	97.1	98.0	98.3	98.9	99.2	99.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	97.1	97.1	98.0	98.3	98.9	99.2	99.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	97.1	97.1	98.0	98.3	98.9	99.2	99.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 419

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 20000	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 18000	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
GE 16000	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 14000	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 12000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 10000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 9000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 8000	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 7000	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 6000	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 5000	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 4500	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 4000	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 3500	91.3	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 3000	92.4	92.6	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 2500	93.7	93.8	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 2000	95.1	95.2	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1800	95.2	95.3	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1500	96.0	96.1	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1200	96.1	96.2	96.4	96.9	97.2	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1000	96.3	96.4	96.7	97.1	97.4	97.6	97.6	97.6	97.6	97.8	97.9	97.9	97.9	97.9	97.9	97.9
GE 900	96.3	96.4	96.7	97.1	97.4	97.6	97.6	97.6	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0
GE 800	96.3	96.4	96.7	97.1	97.4	97.6	97.6	97.6	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1
GE 700	96.4	96.6	96.8	97.2	97.6	97.7	97.7	97.9	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4
GE 600	96.4	96.6	96.8	97.2	97.6	97.7	97.7	97.9	98.0	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 500	96.4	96.6	96.8	97.2	97.7	97.9	98.0	98.2	98.3	99.0	99.1	99.1	99.3	99.3	99.3	99.3
GE 400	96.4	96.6	96.8	97.2	97.7	97.9	98.3	98.6	98.7	99.3	99.4	99.6	99.8	99.8	99.8	99.8
GE 300	96.4	96.6	96.8	97.2	97.7	97.9	98.3	98.6	98.7	99.4	99.6	99.7	99.9	99.9	99.9	99.9
GE 200	96.4	96.6	96.8	97.2	97.7	97.9	98.3	98.6	98.7	99.4	99.7	99.8	100.0	100.0	100.0	100.0
GE 100	96.4	96.6	96.8	97.2	97.7	97.9	98.3	98.6	98.7	99.4	99.7	99.8	100.0	100.0	100.0	100.0
GE 000	96.4	96.6	96.8	97.2	97.7	97.9	98.3	98.6	98.7	99.4	99.7	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 418 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 20000	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 18000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 16000	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 14000	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 12000	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 10000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 9000	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 8000	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 7000	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 6000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 5000	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 4500	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 4000	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 3500	90.0	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 3000	91.6	91.6	91.9	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
GE 2500	92.6	92.6	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2000	92.9	92.9	93.2	93.4	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 1800	93.1	93.1	93.4	93.7	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1500	94.0	94.0	94.3	94.7	94.8	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1200	94.2	94.2	94.7	95.1	95.2	95.2	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1000	94.6	94.6	95.0	95.4	95.8	95.8	96.3	96.3	96.3	96.3	96.4	96.4	96.6	96.6	96.6	96.6
GE 900	94.6	94.6	95.0	95.4	95.8	95.8	96.3	96.3	96.3	96.3	96.4	96.4	96.6	96.6	96.6	96.6
GE 800	94.7	94.7	95.1	95.7	96.1	96.1	96.7	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.2	97.2
GE 700	95.0	95.0	95.4	96.0	96.4	96.4	97.1	97.3	97.3	97.7	97.8	97.8	97.9	97.9	97.9	97.9
GE 600	95.1	95.1	95.6	96.1	96.7	96.7	97.3	97.7	97.9	98.2	98.3	98.3	98.4	98.4	98.4	98.4
GE 500	95.1	95.1	95.6	96.1	96.8	96.8	97.6	97.9	98.2	98.9	99.1	99.1	99.4	99.4	99.4	99.4
GE 400	95.1	95.1	95.6	96.1	96.8	96.8	97.7	98.0	98.3	99.0	99.2	99.2	99.6	99.6	99.6	99.6
GE 300	95.1	95.1	95.6	96.1	96.8	96.8	97.7	98.0	98.4	99.2	99.4	99.4	100.0	100.0	100.0	100.0
GE 200	95.1	95.1	95.6	96.1	96.8	96.8	97.7	98.0	98.4	99.2	99.4	99.4	100.0	100.0	100.0	100.0
GE 100	95.1	95.1	95.6	96.1	96.8	96.8	97.7	98.0	98.4	99.2	99.4	99.4	100.0	100.0	100.0	100.0
GE 000	95.1	95.1	95.6	96.1	96.8	96.8	97.7	98.0	98.4	99.2	99.4	99.4	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 419

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: APR HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 20000	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 18000	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 16000	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 14000	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 12000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 10000	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 9000	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 8000	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 7000	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.7
GE 6000	80.8	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
GE 5000	83.9	84.0	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 4500	85.1	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 4000	87.2	87.3	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6
GE 3500	88.5	88.7	88.8	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 3000	90.1	90.3	90.5	90.6	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 2500	91.2	91.4	91.7	91.9	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
GE 2000	92.0	92.3	92.6	92.8	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2
GE 1800	92.2	92.4	92.8	93.0	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 1500	93.1	93.4	93.8	94.1	94.3	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1200	93.4	93.7	94.2	94.5	94.8	94.9	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1000	93.7	94.0	94.5	94.8	95.2	95.4	95.8	95.8	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0
GE 900	93.9	94.2	94.8	95.1	95.5	95.7	96.1	96.1	96.1	96.3	96.3	96.3	96.3	96.4	96.4	96.4
GE 800	94.1	94.5	95.0	95.4	95.9	96.0	96.4	96.6	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9
GE 700	94.4	94.8	95.4	95.8	96.2	96.4	96.8	97.0	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4
GE 600	94.6	94.9	95.6	96.0	96.5	96.7	97.1	97.4	97.5	97.8	97.9	97.9	98.0	98.1	98.1	98.1
GE 500	94.7	95.1	95.8	96.2	96.8	97.0	97.6	98.0	98.1	98.6	98.8	98.8	99.0	99.1	99.1	99.1
GE 400	94.7	95.1	95.8	96.3	96.9	97.2	98.0	98.3	98.6	99.1	99.2	99.3	99.6	99.6	99.7	99.7
GE 300	94.7	95.1	95.8	96.3	97.0	97.3	98.1	98.4	98.7	99.3	99.4	99.5	99.9	99.9	99.9	100.0
GE 200	94.7	95.1	95.8	96.3	97.0	97.3	98.1	98.4	98.7	99.3	99.5	99.5	99.9	99.9	100.0	100.0
GE 100	94.7	95.1	95.8	96.3	97.0	97.3	98.1	98.4	98.7	99.3	99.5	99.5	99.9	99.9	100.0	100.0
GE 000	94.7	95.1	95.8	96.3	97.0	97.3	98.1	98.4	98.7	99.3	99.5	99.5	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

FORM NO 419-3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.0	58.0	58.0	58.0	58.0	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 20000	64.3	64.3	64.3	64.3	64.3	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 18000	64.6	64.6	64.6	64.6	64.6	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 16000	64.7	64.7	64.7	64.7	64.7	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 14000	65.3	65.3	65.3	65.3	65.3	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 12000	68.4	68.4	68.4	68.4	68.4	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 10000	73.3	73.4	73.4	73.4	73.4	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 9000	74.0	74.1	74.1	74.1	74.1	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 8000	76.3	76.5	76.5	76.5	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 7000	76.9	77.0	77.0	77.0	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 6000	78.2	78.3	78.3	78.3	78.3	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 5000	82.7	82.8	82.8	82.8	82.8	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 4500	85.9	86.0	86.0	86.0	86.0	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 4000	88.5	88.6	88.6	88.6	88.6	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 3500	90.6	90.8	90.8	90.8	90.8	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 3000	91.7	91.8	91.8	91.9	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 2500	92.6	92.7	92.7	92.8	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2000	93.0	93.1	93.1	93.2	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 1800	93.0	93.1	93.1	93.2	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 1500	93.5	93.7	93.7	93.8	93.9	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1200	93.8	93.9	94.0	94.1	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1000	94.5	94.6	94.7	94.8	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 900	95.1	95.2	95.5	95.6	95.9	96.1	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 800	95.4	95.5	95.9	96.1	96.5	96.8	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 700	95.9	96.0	96.5	96.7	97.0	97.3	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 600	96.2	96.3	96.9	97.2	97.5	97.8	98.1	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 500	96.5	96.6	97.3	97.7	98.4	98.8	99.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 400	96.5	96.6	97.3	97.7	98.4	98.8	99.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 300	96.5	96.6	97.3	97.7	98.5	98.9	99.1	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 200	96.5	96.6	97.3	97.7	98.5	98.9	99.1	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	96.5	96.6	97.3	97.7	98.5	98.9	99.1	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	96.5	96.6	97.3	97.7	98.5	98.9	99.1	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.9	55.9	56.0	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 20000	62.0	62.0	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 18000	62.4	62.4	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 16000	62.5	62.5	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 14000	63.0	63.0	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 12000	66.0	66.0	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 10000	72.6	72.6	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 9000	73.4	73.4	73.5	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 8000	75.9	75.9	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 7000	76.5	76.5	76.6	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 6000	78.3	78.3	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 5000	81.9	81.9	82.0	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 4500	84.2	84.2	84.3	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 4000	86.5	86.5	86.7	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 3500	88.3	88.3	88.5	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 3000	89.8	89.8	90.0	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 2300	90.5	90.5	90.8	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 2000	91.2	91.2	91.4	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1800	91.8	91.8	92.0	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 1500	92.7	92.8	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 1200	93.1	93.2	93.7	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1000	93.1	93.4	94.0	94.3	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 900	93.2	93.5	94.3	94.7	95.2	95.4	95.4	95.4	95.4	95.5	95.7	95.7	95.7	95.7	95.7	95.7
GE 800	93.3	93.7	94.4	94.8	95.6	95.8	95.8	95.8	95.8	95.9	96.1	96.1	96.1	96.1	96.1	96.1
GE 700	93.8	94.1	94.8	95.4	96.1	96.5	96.5	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8
GE 600	94.7	95.1	96.1	96.9	97.6	98.1	98.2	98.2	98.2	98.3	98.5	98.5	98.5	98.5	98.5	98.5
GE 500	94.8	95.2	96.2	97.2	98.1	98.5	98.6	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2
GE 400	94.8	95.2	96.2	97.2	98.1	98.5	98.7	99.0	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4
GE 300	94.8	95.2	96.2	97.2	98.3	98.7	98.9	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	94.8	95.2	96.2	97.2	98.3	98.7	98.9	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	94.8	95.2	96.2	97.2	98.3	98.7	98.9	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	94.8	95.2	96.2	97.2	98.3	98.7	98.9	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES														
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	0
NO CEIL	53.8	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 20000	60.3	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 18000	60.8	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 16000	60.9	60.9	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 14000	61.9	61.9	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 12000	65.6	65.6	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 10000	72.6	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 9000	74.1	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 8000	76.6	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 7000	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 6000	79.1	79.1	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 5000	81.9	81.9	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 4500	82.8	82.8	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 4000	85.4	85.4	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 3500	86.0	86.0	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 3000	87.8	87.8	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 2500	88.4	88.4	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 2000	89.0	89.1	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 1800	89.1	89.2	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1500	90.1	90.2	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 1200	91.3	91.6	92.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1000	91.8	92.2	93.7	94.1	94.3	94.3	94.3	94.3	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6
GE 900	92.3	92.6	94.1	94.5	94.7	94.7	94.7	94.7	94.7	94.9	95.1	95.1	95.1	95.1	95.1	95.1
GE 800	92.7	93.0	94.5	94.9	95.2	95.2	95.2	95.2	95.2	95.4	95.5	95.5	95.5	95.5	95.5	95.5
GE 700	93.3	93.7	95.3	95.7	96.1	96.1	96.1	96.1	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5
GE 600	93.8	94.1	95.8	96.5	97.1	97.1	97.3	97.5	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0
GE 500	93.9	94.2	96.0	96.8	97.5	97.5	97.7	98.3	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 400	94.0	94.3	96.1	97.0	97.8	97.8	98.3	98.8	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5
GE 300	94.0	94.3	96.1	97.0	97.8	97.8	98.3	98.8	98.9	99.6	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	94.1	94.4	96.2	97.1	98.0	98.0	98.4	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	94.1	94.4	96.2	97.1	98.0	98.0	98.4	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	94.1	94.4	96.2	97.1	98.0	98.0	98.4	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 20000	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 18000	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 16000	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 14000	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 12000	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 10000	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 9000	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 8000	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 7000	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
GE 6000	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 5000	79.4	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 4500	81.1	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 4000	83.8	83.9	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 3500	84.9	85.1	85.3	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 3000	86.1	86.2	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 2500	87.1	87.2	87.5	87.6	87.7	87.7	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 2000	88.6	88.8	89.1	89.5	89.7	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1800	88.6	88.8	89.1	89.5	89.7	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1500	90.2	90.5	91.2	91.5	91.8	91.8	91.9	92.0	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 1200	91.6	92.0	92.7	93.0	93.4	93.4	93.5	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1000	93.4	94.0	94.8	95.3	95.7	95.7	95.9	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 900	93.8	94.3	95.2	95.6	96.1	96.1	96.3	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 800	94.3	94.8	95.7	96.1	96.8	96.9	97.1	97.2	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 700	94.6	95.2	96.1	96.6	97.2	97.3	97.5	97.6	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 600	94.7	95.3	96.2	96.7	97.4	97.5	97.7	97.8	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 500	95.1	95.7	96.8	97.3	98.2	98.3	98.5	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 400	95.1	95.7	96.8	97.3	98.3	98.4	98.6	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 300	95.2	95.8	96.9	97.5	98.6	98.7	98.9	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 200	95.3	95.9	97.1	97.7	98.8	98.9	99.1	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	95.3	95.9	97.1	97.7	98.8	98.9	99.1	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	95.3	95.9	97.1	97.7	98.8	98.9	99.1	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
GE 20000	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 18000	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 16000	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 14000	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
GE 12000	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 10000	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 9000	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 8000	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 7000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 6000	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 5000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 4500	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 4000	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 3500	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3000	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 2500	89.6	89.6	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 2000	91.5	91.5	91.6	91.6	91.7	91.8	91.9	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1800	91.7	91.8	91.9	91.9	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 1500	93.1	93.2	93.4	93.5	94.1	94.3	94.3	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1200	94.1	94.2	94.5	94.9	95.5	95.7	95.7	95.7	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1000	94.9	95.2	95.6	96.1	96.8	97.0	97.0	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 900	94.9	95.2	95.6	96.2	96.9	97.2	97.2	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 800	95.3	95.5	96.0	96.9	97.5	97.8	97.8	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700	95.4	95.7	96.3	97.2	97.8	98.2	98.2	98.2	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	95.4	95.8	96.5	97.5	98.2	98.5	98.5	98.6	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1
GE 500	95.6	96.0	96.7	97.7	98.4	98.7	98.8	98.9	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6
GE 400	95.8	96.2	96.9	98.0	98.6	98.9	99.0	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	95.9	96.3	97.0	98.1	98.7	99.0	99.1	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	95.9	96.3	97.0	98.1	98.7	99.0	99.1	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	95.9	96.3	97.0	98.1	98.7	99.0	99.1	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	95.9	96.3	97.0	98.1	98.7	99.0	99.1	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 20000	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 18000	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 16000	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 14000	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 12000	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 10000	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 9000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 8000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 7000	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 6000	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 5000	79.4	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 4500	82.8	82.8	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 4000	87.4	87.4	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 3500	89.3	89.3	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 3000	90.0	90.0	90.3	90.6	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 2500	91.5	91.5	92.0	92.4	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 2000	92.9	93.1	93.6	94.1	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1800	93.8	94.0	94.5	94.9	95.4	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1500	94.5	94.8	95.5	95.9	96.6	96.6	96.7	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1200	95.2	95.7	96.3	96.8	97.6	97.6	97.7	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1000	95.2	95.9	96.7	97.1	98.0	98.0	98.1	98.2	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 900	95.3	96.0	96.9	97.3	98.2	98.2	98.4	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	95.4	96.1	97.0	97.4	98.4	98.4	98.6	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	95.4	96.1	97.0	97.4	98.4	98.4	98.6	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	95.4	96.1	97.0	97.4	98.5	98.5	98.7	98.8	99.1	99.4	99.5	99.6	99.7	99.7	99.7	99.7
GE 500	95.5	96.2	97.1	97.5	98.6	98.6	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
GE 400	95.5	96.2	97.1	97.5	98.6	98.6	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
GE 300	95.5	96.2	97.1	97.5	98.6	98.6	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
GE 200	95.5	96.2	97.1	97.5	98.6	98.6	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
GE 100	95.5	96.2	97.1	97.5	98.6	98.6	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
GE 000	95.5	96.2	97.1	97.5	98.6	98.6	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 929

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
GE 20000	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 18000	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 16000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 14000	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 12000	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 10000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 9000	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 8000	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 7000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 6000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 5000	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 4500	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 4000	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 3500	92.0	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 3000	92.6	92.6	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2500	94.5	94.5	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 2000	94.8	94.8	95.6	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1800	94.9	94.9	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1500	95.7	95.7	96.5	96.7	97.2	97.2	97.2	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1200	96.2	96.2	97.2	97.3	97.8	97.8	97.8	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1000	96.9	96.9	97.8	98.0	98.5	98.5	98.5	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 900	96.9	96.9	98.0	98.1	98.6	98.6	98.6	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	97.0	97.0	98.1	98.2	98.7	98.7	98.7	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 700	97.1	97.1	98.2	98.4	98.9	98.9	98.9	98.9	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4
GE 600	97.2	97.2	98.3	98.5	99.0	99.0	99.0	99.0	99.2	99.4	99.5	99.5	99.5	99.6	99.6	99.6
GE 500	97.2	97.2	98.3	98.5	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.8	99.9	99.9	99.9
GE 400	97.2	97.2	98.3	98.5	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.8	99.9	100.0	100.0
GE 300	97.2	97.2	98.3	98.5	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.8	99.9	100.0	100.0
GE 200	97.2	97.2	98.3	98.5	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.8	99.9	100.0	100.0
GE 100	97.2	97.2	98.3	98.5	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.8	99.9	100.0	100.0
GE 000	97.2	97.2	98.3	98.5	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 927

FORM NO 413

OPERATING LOCATION "A" — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC — FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.3	54.3	54.4	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 20000	60.4	60.4	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 18000	60.6	60.6	60.7	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 16000	60.6	60.6	60.7	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 14000	62.2	62.2	62.4	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 12000	64.9	64.9	65.0	65.0	65.0	65.0	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 10000	70.8	70.8	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 9000	71.4	71.4	71.5	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 8000	73.2	73.2	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 7000	73.8	73.8	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 6000	75.9	75.9	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 5000	83.3	83.3	83.4	83.4	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 4500	85.5	85.5	85.8	85.8	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 4000	90.1	90.1	90.3	90.3	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 3500	91.9	91.9	92.1	92.1	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 3000	92.8	92.8	93.3	93.3	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 2500	94.3	94.3	94.9	94.9	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 2000	94.4	94.4	95.1	95.1	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1800	94.4	94.4	95.1	95.1	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1500	94.7	94.7	95.5	95.5	95.8	95.8	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200	95.0	95.1	96.1	96.1	96.4	96.4	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 1000	95.6	95.7	96.8	96.8	97.2	97.2	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 900	95.9	96.0	97.1	97.3	97.8	97.8	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 800	96.0	96.1	97.2	97.5	98.1	98.1	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 700	96.2	96.3	97.4	97.7	98.3	98.3	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 600	96.4	96.5	97.6	98.0	98.5	98.5	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 500	96.4	96.5	97.6	98.0	98.6	98.6	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	96.5	96.7	97.7	98.1	98.7	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	96.5	96.7	97.7	98.1	98.7	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
GE 200	96.5	96.7	97.7	98.1	98.7	98.7	98.9	99.4	99.6	99.6	99.6	99.7	99.8	99.8	100.0	100.0
GE 100	96.5	96.7	97.7	98.1	98.7	98.7	98.9	99.4	99.6	99.6	99.6	99.7	99.8	99.8	100.0	100.0
GE 000	96.5	96.7	97.7	98.1	98.7	98.7	98.9	99.4	99.6	99.6	99.6	99.7	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 927

FORM NO 413-3

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.2	51.2	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 20000	59.6	59.6	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 18000	60.0	60.0	60.1	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 16000	60.1	60.1	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 14000	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 12000	64.4	64.4	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 10000	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 9000	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 8000	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 7000	73.8	73.8	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 6000	76.4	76.4	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 5000	81.1	81.1	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 4500	83.7	83.7	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 4000	87.1	87.1	87.3	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 3500	88.7	88.7	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 3000	89.8	89.9	90.2	90.3	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 2500	91.1	91.1	91.4	91.6	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 2000	91.9	92.0	92.4	92.6	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 1800	92.2	92.3	92.7	92.9	93.0	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1500	93.1	93.2	93.7	93.9	94.3	94.3	94.4	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1200	93.8	94.0	94.7	94.9	95.3	95.4	95.5	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 1000	94.4	94.7	95.5	95.8	96.3	96.4	96.5	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 900	94.7	95.0	95.8	96.2	96.7	96.8	96.9	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 800	94.9	95.2	96.1	96.5	97.1	97.2	97.3	97.4	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7
GE 700	95.2	95.5	96.4	96.9	97.5	97.6	97.7	97.8	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2
GE 600	95.5	95.8	96.8	97.3	98.0	98.1	98.3	98.4	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8
GE 500	95.6	96.0	97.0	97.6	98.3	98.5	98.7	98.9	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	95.7	96.0	97.1	97.7	98.4	98.6	98.8	99.1	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	95.7	96.0	97.1	97.7	98.5	98.7	98.9	99.2	99.3	99.6	99.7	99.8	99.8	99.8	99.8	99.8
GE 200	95.7	96.1	97.1	97.7	98.6	98.7	99.0	99.2	99.4	99.7	99.9	99.9	99.9	100.0	100.0	100.0
GE 100	95.7	96.1	97.1	97.7	98.6	98.7	99.0	99.2	99.4	99.7	99.9	99.9	99.9	100.0	100.0	100.0
GE 000	95.7	96.1	97.1	97.7	98.6	98.7	99.0	99.2	99.4	99.7	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7433

FORM 9 413 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONYH: JUN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 20000	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 18000	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
GE 16000	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 14000	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 12000	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 10000	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
GE 9000	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 8000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 7000	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 6000	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 5000	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 4500	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 4000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 3500	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 3000	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 2500	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 2000	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1800	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1500	98.8	98.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.	99.2	99.2
GE 1200	98.9	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1000	98.9	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900	99.0	99.1	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800	99.1	99.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	99.1	99.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	99.1	99.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	99.2	99.3	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	99.2	99.3	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	99.2	99.3	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	99.2	99.3	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.2	99.3	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.2	99.3	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 20000	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 18000	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
GE 16000	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 14000	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 12000	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 10000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 9000	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 8000	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 7000	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 6000	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 5000	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 4500	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 4000	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 3500	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 3000	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 2500	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 2000	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1800	98.3	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1500	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1200	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1000	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 900	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 700	99.1	99.2	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	99.2	99.3	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	99.3	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.3	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.3	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.3	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.3	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.3	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 419

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 20000	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 18000	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 16000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 14000	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 12000	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 10000	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 9000	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 8000	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 7000	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 6000	85.9	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 5000	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 4500	91.3	91.3	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 4000	93.0	93.2	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 3500	94.2	94.4	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 3000	95.1	95.3	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 2500	95.4	95.7	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 2000	95.8	96.0	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1800	96.0	96.2	96.6	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1500	96.6	96.8	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1200	96.7	96.9	97.3	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 1000	96.9	97.1	97.6	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 900	97.4	97.7	98.1	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	97.6	97.8	98.2	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 700	97.8	98.0	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	98.0	98.2	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	98.2	98.4	99.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	98.2	98.4	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	98.2	98.4	99.0	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.2	98.4	99.0	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.2	98.4	99.0	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.2	98.4	99.0	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 418 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 20000	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 18000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 16000	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 14000	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 12000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 10000	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 9000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 8000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 7000	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 6000	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 5000	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 4500	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 4000	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 3500	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 3000	95.4	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 2500	96.1	96.3	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 2000	96.7	96.9	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1800	96.9	97.1	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1500	97.3	97.6	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1200	98.6	98.8	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 1000	98.7	98.9	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900	98.7	98.9	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	98.8	99.0	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	98.8	99.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	98.8	99.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.8	99.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.8	99.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.8	99.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 20000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 18000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 16000	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 14000	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 12000	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 10000	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 9000	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 8000	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
GE 7000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 6000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 5000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 4500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 4000	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 3500	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 3000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 2500	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 2000	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1800	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1500	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1200	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1000	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 600	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 20000	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 18000	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 16000	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 14000	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 12000	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 10000	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 9000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 8000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 7000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 6000	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 5000	88.0	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.3
GE 4500	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.6	93.6	93.6	93.6
GE 4000	95.9	96.0	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4
GE 3500	97.0	97.1	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6	97.6
GE 3000	98.4	98.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 2500	98.7	98.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3
GE 2000	98.8	98.9	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6
GE 1800	98.8	98.9	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6
GE 1500	98.8	98.9	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 1200	99.0	99.1	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 1000	99.0	99.1	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 900	99.0	99.1	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 800	99.0	99.1	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 700	99.0	99.1	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 600	99.0	99.1	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 500	99.1	99.2	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 400	99.1	99.2	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300	99.1	99.2	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200	99.1	99.2	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	99.1	99.2	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	99.1	99.2	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 20000	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 18000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 16000	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 14000	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 12000	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 10000	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 9000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 8000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 7000	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	30.2	80.2	80.2	80.2	80.2	80.2
GE 6000	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 5000	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 4500	93.7	93.7	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 4000	96.7	96.8	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 3500	96.8	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 3000	97.4	97.7	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 2500	98.2	98.4	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 2000	98.6	98.8	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
GE 1800	98.6	98.8	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
GE 1500	98.7	98.9	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6
GE 1200	98.8	99.0	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 1000	99.0	99.2	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 900	99.0	99.2	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 800	99.0	99.2	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 700	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 600	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 500	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 400	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	99.1	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 20000	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 18000	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 16000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 14000	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 12000	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 10000	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
GE 9000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 8000	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
GE 7000	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 6000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 5000	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 4500	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 4000	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 3500	96.9	96.9	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 3000	98.6	98.6	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 2500	99.0	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 2000	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1800	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1500	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1200	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1000	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 418-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUN HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 20000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 18000	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 16000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 14000	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 12000	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 10000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 9000	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 8000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 7000	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 6000	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 5000	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 4500	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 4000	95.1	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 3500	96.2	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5
GE 3000	97.2	97.3	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 2500	97.8	97.9	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 2000	98.1	98.2	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1800	98.2	98.3	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1500	98.3	98.5	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1200	98.7	98.8	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 1000	98.8	99.0	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900	98.9	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800	98.9	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 700	99.0	99.1	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	99.0	99.2	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	99.1	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	99.1	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300	99.1	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.1	99.3	99.6	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.1	99.3	99.6	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.1	99.3	99.6	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7199

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 20000	79.1	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 18000	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 16000	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 14000	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 12000	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 10000	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 9000	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 8000	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 7000	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 6000	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 5000	94.0	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 4500	95.4	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 4000	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 3500	97.8	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 3000	98.4	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 2500	98.5	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 2000	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 1800	98.7	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1500	98.7	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1200	99.0	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1000	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 900	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 800	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 700	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	99.1	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	99.1	99.1	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	99.1	99.1	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	99.2	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.2	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.2	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.2	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 20000	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 18000	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 16000	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 14000	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 12000	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 10000	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 9000	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.6	88.6	88.6	88.6
GE 8000	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9	89.9	89.9	90.0	90.0	90.0	90.0
GE 7000	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.6	90.6	90.6	90.6
GE 6000	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.2	91.2	91.2	91.2
GE 5000	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.9	92.9	92.9	92.9
GE 4500	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1
GE 4000	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.6	95.6	95.6	95.6
GE 3500	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8
GE 3000	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0
GE 2500	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.1	97.1	97.1	97.1
GE 2000	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.3	97.3	97.3	97.3
GE 1800	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.6	97.6	97.6	97.6
GE 1500	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8
GE 1200	97.7	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5
GE 1000	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 900	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 800	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 700	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2
GE 600	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2
GE 500	98.5	98.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE 400	98.6	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6
GE 300	98.6	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 200	98.6	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 100	98.6	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.8	99.8	100.0	100.0
GE 000	98.6	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 20000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 18000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 16000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 14000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 12000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 10000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 9000	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 8000	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 7000	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 6000	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 5000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 4500	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 4000	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 3500	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 3000	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 2500	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 2000	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1800	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1500	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1200	98.2	98.2	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 1000	98.6	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900	98.6	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	98.7	98.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 700	98.7	98.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600	98.7	98.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500	99.0	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	99.0	99.0	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 300	99.0	99.0	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 200	99.0	99.0	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 100	99.0	99.0	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	100.0	100.0
GE 000	99.0	99.0	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413-1

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 20000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 18000	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 16000	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 14000	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 12000	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 10000	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 9000	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 8000	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 7000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 6000	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 5000	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 4500	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 4000	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 3500	95.9	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 3000	97.0	97.0	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 2500	97.5	97.5	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 2000	97.5	97.5	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1800	97.6	97.6	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1500	98.1	98.1	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1200	98.2	98.2	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1000	98.3	98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 900	98.3	98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 800	98.7	98.7	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 700	99.0	99.0	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413 3

OPERATING LOCATION "A"
USAFETAC: ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 20000	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 18000	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 16000	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
GE 14000	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 12000	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 10000	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 9000	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 8000	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 7000	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 6000	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 5000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 4500	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 4000	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 3500	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 3000	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 2500	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 2000	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1800	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1500	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1200	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1000	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 900	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 700	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	99.2	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.2	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.2	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.2	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.2	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 418 3

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 20000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 18000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 16000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 14000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 12000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 10000	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 9000	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 8000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 7000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 6000	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 5000	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 4500	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 4000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9
GE 3500	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2	98.2
GE 3000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5
GE 2500	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6
GE 2000	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 1800	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 1500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 1200	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 1000	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 900	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 800	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4
GE 700	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
GE 600	99.2	99.5	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
GE 500	99.2	99.5	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
GE 400	99.4	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 300	99.4	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 200	99.4	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 100	99.4	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 000	99.4	99.6	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
GE 20000	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 18000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 16000	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 14000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 12000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 10000	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 9000	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 8000	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 7000	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 6000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 5000	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 4500	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 4000	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 3500	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 3000	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 2500	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 2000	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1800	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1500	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1200	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1000	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 800	99.5	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 20000	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 18000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 16000	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 14000	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 12000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 10000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 9000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 8000	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 7000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 6000	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 5000	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 4500	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 4000	97.7	97.7	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 3500	98.4	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 3000	98.7	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 2500	99.0	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 2000	99.0	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1800	99.1	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1500	99.1	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1200	99.5	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1000	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 20000	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 18000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 16000	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 14000	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 12000	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 10000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 9000	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 8000	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 7000	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 6000	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 5000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6
GE 4500	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 4000	96.4	96.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 3500	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5
GE 3000	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 2500	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3
GE 2000	98.2	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1800	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1500	98.5	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1200	98.7	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1000	98.9	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 900	98.9	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 800	99.0	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
GE 700	99.1	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	99.2	99.3	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	99.2	99.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	99.2	99.3	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	99.2	99.3	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	99.2	99.3	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 000	99.2	99.3	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

FORM NO 413

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 20000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 18000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 16000	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 14000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 12000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 10000	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 9000	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 8000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 7000	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 6000	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 5000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 4500	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 4000	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 3500	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 3000	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 2500	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 2000	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1800	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1500	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1200	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 1000	99.2	99.2	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900	99.2	99.2	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.2	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 20000	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 18000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 16000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 14000	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 12000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 10000	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 9000	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 8000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 7000	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 6000	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 5000	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 4500	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 4000	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 3500	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 3000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 2500	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 2000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1800	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1500	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1200	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1000	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 900	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 700	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600	99.1	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	99.2	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	99.2	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	99.2	99.2	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.2	99.2	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.2	99.2	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.2	99.2	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413-1

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 20000	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 18000	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 16000	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 14000	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 12000	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 10000	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 9000	86.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 8000	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 7000	88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 6000	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 5000	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 4500	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 4000	94.7	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 3500	95.5	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 3000	96.2	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 2500	96.7	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 2000	96.7	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1800	96.7	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1500	97.3	97.7	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1200	97.4	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1000	98.2	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 900	98.3	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	98.4	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	98.5	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 600	98.6	99.0	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	98.6	99.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	98.6	99.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	98.6	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.6	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.6	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.6	99.0	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 20000	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 18000	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 16000	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 14000	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 12000	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 10000	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 9000	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 8000	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 7000	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 6000	89.6	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 5000	91.3	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 4500	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 4000	93.8	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 3500	94.7	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 3000	95.6	95.8	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 2500	96.1	96.3	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 2000	96.6	96.8	97.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1800	96.8	97.0	97.2	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1500	97.2	97.4	97.6	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1200	97.7	98.0	98.2	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1000	98.4	98.6	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 900	98.6	98.8	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800	98.6	98.8	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 700	98.6	98.8	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	98.6	98.8	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	99.0	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.0	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.0	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.0	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.0	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.0	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413-1

OPERATING LOCATION "A" — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC — FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 20000	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 18000	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 16000	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 14000	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 12000	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 10000	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 9000	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 8000	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 7000	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 6000	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 5000	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 4500	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 4000	93.8	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 3500	95.1	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 3000	96.2	96.5	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 2500	96.3	96.6	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 2000	96.8	97.0	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1800	97.1	97.3	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500	97.6	97.8	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1200	97.7	98.0	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1000	98.5	98.7	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 900	98.5	98.7	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800	98.5	98.7	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700	98.7	98.9	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	98.8	99.0	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	98.8	99.0	99.2	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	98.8	99.0	99.2	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	98.8	99.0	99.2	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.8	99.0	99.2	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.8	99.0	99.2	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.8	99.0	99.2	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 20000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 18000	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 16000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 14000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 12000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 10000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 9000	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 8000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 7000	87.6	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 6000	88.8	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 5000	93.2	93.2	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 4500	94.4	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 4000	95.6	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 3500	96.2	96.2	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 3000	96.8	96.8	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 2500	97.7	97.7	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 2000	98.3	98.3	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1800	98.6	98.6	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1500	98.8	98.8	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 1200	99.0	99.0	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1000	99.0	99.0	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.1	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 419-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 20000	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 18000	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 16000	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 14000	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 12000	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 10000	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 9000	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
GE 8000	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 7000	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 6000	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 5000	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 4500	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 4000	96.7	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 3500	97.6	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 3000	98.1	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 2500	98.7	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 2000	99.1	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1800	99.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 1500	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1200	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.5	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 20000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 18000	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 16000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 14000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 12000	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 10000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 9000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 8000	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 7000	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 6000	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 5000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 4500	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 4000	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 3500	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 3000	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 2500	98.1	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 2000	98.8	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1800	98.8	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1500	98.9	98.9	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 1200	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 4 1 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 20000	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 18000	75.4	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 16000	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 14000	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 12000	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 10000	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 9000	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 8000	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 7000	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 6000	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 5000	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 4500	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 4000	95.6	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 3500	96.5	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 3000	97.1	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 2500	97.5	97.6	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 2000	97.9	98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1800	98.0	98.1	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1500	98.3	98.5	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1200	98.6	98.7	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000	98.9	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 900	99.0	99.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800	99.0	99.1	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	99.0	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	99.0	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	99.1	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	99.1	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	99.1	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.1	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.1	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.1	99.2	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

FORM NO 613

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2
GE 20000	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4	67.4	67.4	67.4
GE 18000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.6	67.6	67.6
GE 16000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.6	67.6	67.6
GE 14000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9
GE 12000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.1	71.1
GE 10000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.6	73.6	73.6	73.6
GE 9000	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1
GE 8000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8
GE 7000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
GE 6000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.9	77.9	77.9	77.9
GE 5000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3
GE 4500	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8
GE 4000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.6	85.6	85.6	85.6
GE 3500	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4
GE 3000	88.3	88.3	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9
GE 2500	90.6	90.7	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2
GE 2000	91.2	91.3	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1
GE 1800	91.2	91.3	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1
GE 1500	91.4	91.6	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3
GE 1200	91.6	91.7	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.4	92.4
GE 1000	92.0	92.1	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1
GE 900	92.6	92.8	93.6	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0
GE 800	92.7	92.9	93.7	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1
GE 700	93.6	93.8	94.8	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4
GE 600	94.7	94.9	95.9	96.2	96.6	96.6	96.8	96.8	96.8	96.8	96.9	96.9	97.0	97.0	97.0	97.0
GE 500	95.4	95.8	96.8	97.2	97.6	97.6	98.0	98.0	98.0	98.0	98.1	98.1	98.2	98.2	98.2	98.2
GE 400	95.9	96.2	97.4	98.0	98.8	98.8	99.2	99.6	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8
GE 300	95.9	96.2	97.4	98.0	98.8	98.8	99.2	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9
GE 200	95.9	96.2	97.6	98.1	98.9	98.9	99.3	99.7	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	95.9	96.2	97.6	98.1	98.9	98.9	99.3	99.7	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	95.9	96.2	97.6	98.1	98.9	98.9	99.3	99.7	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4	61.6	61.6
GE 20000	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.0	65.0
GE 18000	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.0	65.0
GE 16000	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.0	65.0
GE 14000	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.9	65.9	66.0	66.0
GE 12000	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.3	68.3
GE 10000	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.1	73.1	73.2	73.2
GE 9000	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1	74.2	74.2
GE 8000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.3	77.3
GE 7000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.6	77.6	77.7	77.7
GE 6000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.6	78.6	78.7	78.7
GE 5000	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	81.0	81.0
GE 4500	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.1	82.1
GE 4000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.8	84.8
GE 3500	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8	85.8	85.9	85.9
GE 3000	86.0	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.4	86.4
GE 2500	86.8	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.3	87.3
GE 2000	88.2	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.8	88.8
GE 1800	88.8	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.4	89.4
GE 1500	89.6	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.3	90.3
GE 1200	90.8	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.6	91.6
GE 1000	91.1	91.3	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.9	91.9	92.0	92.0
GE 900	91.9	92.1	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.9	92.9
GE 800	92.3	92.6	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.6	93.6	93.7	93.7
GE 700	92.7	92.9	93.7	93.7	93.8	93.8	93.8	93.8	93.8	94.0	94.0	94.0	94.1	94.1	94.2	94.2
GE 600	93.7	93.9	94.7	95.0	95.2	95.2	95.2	95.3	95.3	95.6	95.6	95.6	95.7	95.7	95.8	95.8
GE 500	94.0	94.2	95.2	95.6	95.9	95.9	95.9	96.0	96.0	96.2	96.2	96.2	96.3	96.3	96.4	96.4
GE 400	94.3	94.6	95.7	96.0	96.6	96.6	96.9	97.1	97.1	97.4	97.4	97.6	97.7	97.7	97.8	97.8
GE 300	94.3	94.6	95.7	96.0	96.6	96.6	97.0	97.3	97.3	97.8	97.8	97.9	98.1	98.1	98.2	98.2
GE 200	94.3	94.6	96.1	96.6	97.4	97.4	98.1	98.4	98.4	98.9	98.9	99.0	99.3	99.3	99.4	99.4
GE 100	94.3	94.6	96.1	96.6	97.4	97.4	98.1	98.7	98.7	99.1	99.2	99.3	99.7	99.7	99.9	99.9
GE 000	94.3	94.6	96.1	96.6	97.4	97.4	98.1	98.7	98.7	99.1	99.2	99.3	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC: ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.6	55.6	55.6	55.6	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9
GE 20000	62.4	62.4	62.4	62.4	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.8	62.8	62.8	62.8
GE 18000	62.6	62.6	62.6	62.6	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.9	62.9	62.9	62.9
GE 16000	63.2	63.2	63.2	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.6	63.6	63.6	63.6
GE 14000	64.3	64.3	64.3	64.3	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7
GE 12000	68.0	68.0	68.0	68.0	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3
GE 10000	73.0	73.0	73.0	73.0	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
GE 9000	74.3	74.3	74.3	74.3	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7
GE 8000	77.9	78.0	78.0	78.0	79.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.4	78.4	78.4	78.4
GE 7000	78.2	78.3	78.3	78.3	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.8	78.8	78.8	78.8
GE 6000	79.2	79.3	79.3	79.3	79.4	79.4	79.6	79.6	79.6	79.6	79.7	79.7	79.9	79.9	79.9	79.9
GE 5000	82.3	82.4	82.4	82.4	82.6	82.6	82.7	82.7	82.7	82.7	82.8	82.8	83.0	83.0	83.0	83.0
GE 4500	83.1	83.2	83.2	83.2	83.3	83.3	83.4	83.4	83.4	83.4	83.6	83.6	83.8	83.8	83.8	83.8
GE 4000	85.0	85.2	85.2	85.2	85.3	85.3	85.4	85.4	85.4	85.4	85.6	85.6	85.8	85.8	85.8	85.8
GE 3500	85.9	86.1	86.3	86.3	86.4	86.4	86.6	86.6	86.6	86.6	86.7	86.7	86.9	86.9	86.9	86.9
GE 3000	86.9	87.1	87.3	87.3	87.4	87.4	87.6	87.6	87.7	87.7	87.8	87.8	88.0	88.0	88.0	88.0
GE 2500	87.4	87.7	87.9	87.9	88.0	88.0	88.1	88.1	88.2	88.2	88.3	88.3	88.6	88.6	88.6	88.6
GE 2000	89.3	89.8	90.1	90.2	90.4	90.6	90.7	90.7	90.8	90.8	90.9	90.9	91.1	91.1	91.1	91.1
GE 1800	90.0	90.4	90.8	90.9	91.1	91.2	91.3	91.3	91.4	91.4	91.6	91.6	91.8	91.8	91.8	91.8
GE 1500	91.0	91.4	91.8	91.9	92.1	92.2	92.4	92.4	92.6	92.6	92.7	92.7	92.9	92.9	92.9	92.9
GE 1200	91.0	91.4	92.0	92.2	92.6	92.7	92.9	92.9	93.0	93.0	93.1	93.1	93.3	93.3	93.3	93.3
GE 1000	91.8	92.2	92.9	93.3	93.7	93.8	94.0	94.0	94.1	94.1	94.2	94.2	94.4	94.4	94.4	94.4
GE 900	92.1	92.7	93.3	93.8	94.1	94.2	94.4	94.4	94.6	94.6	94.7	94.7	94.9	94.9	94.9	94.9
GE 800	92.3	92.9	93.6	94.0	94.4	94.6	94.9	94.9	95.0	95.0	95.1	95.1	95.3	95.3	95.3	95.3
GE 700	92.9	93.7	94.3	94.8	95.2	95.3	95.7	95.7	95.8	95.9	96.0	96.0	96.2	96.2	96.2	96.2
GE 600	93.1	94.0	94.7	95.3	95.9	96.0	96.3	96.3	96.4	96.6	96.7	96.7	96.9	96.9	96.9	96.9
GE 500	93.7	94.6	95.4	96.2	96.8	96.9	97.2	97.2	97.3	97.6	97.8	97.8	98.0	98.0	98.0	98.0
GE 400	93.8	94.7	95.6	96.6	97.3	97.4	97.8	97.8	97.9	98.2	98.4	98.4	98.7	98.7	98.7	98.7
GE 300	93.8	94.7	95.6	96.9	97.8	98.3	98.7	98.7	98.8	99.1	99.3	99.3	99.6	99.6	99.6	99.6
GE 200	93.8	94.7	95.6	96.9	97.9	98.4	98.9	99.0	99.1	99.4	99.8	99.8	100.0	100.0	100.0	100.0
GE 100	93.8	94.7	95.6	96.9	97.9	98.4	98.9	99.0	99.1	99.4	99.8	99.8	100.0	100.0	100.0	100.0
GE 000	93.8	94.7	95.6	96.9	97.9	98.4	98.9	99.0	99.1	99.4	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 20000	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 18000	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 16000	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 14000	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 12000	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 10000	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 9000	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
GE 8000	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 7000	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 6000	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 5000	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.1	83.1	83.1	83.1	83.1
GE 4500	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.6	83.6	83.7	83.7	83.7	83.7	83.7
GE 4000	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.4	85.4	85.4	85.4	85.4
GE 3500	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.9	86.9	86.9	86.9	86.9
GE 3000	87.8	87.8	88.0	88.1	88.2	88.2	88.2	88.3	88.3	88.4	88.4	88.6	88.6	88.6	88.6	88.6
GE 2500	89.6	89.7	89.9	90.2	90.3	90.3	90.3	90.4	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7
GE 2000	91.0	91.2	91.4	91.8	91.9	91.9	91.9	92.0	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.2
GE 1800	91.0	91.2	91.4	91.8	91.9	91.9	91.9	92.0	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.2
GE 1500	92.1	92.4	92.8	93.1	93.2	93.2	93.2	93.3	93.3	93.4	93.4	93.6	93.6	93.6	93.6	93.6
GE 1200	92.6	92.9	93.2	93.7	93.8	93.8	93.8	93.9	93.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1
GE 1000	93.2	93.8	94.1	94.7	94.8	94.8	94.8	94.9	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1
GE 900	93.6	94.2	94.6	95.1	95.2	95.2	95.2	95.3	95.3	95.4	95.4	95.6	95.6	95.6	95.6	95.6
GE 800	93.8	94.6	94.9	95.4	95.6	95.6	95.7	95.8	95.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0
GE 700	94.1	94.9	95.2	95.8	96.0	96.0	96.2	96.3	96.3	96.4	96.4	96.6	96.6	96.6	96.6	96.6
GE 600	94.2	95.1	95.4	96.2	96.6	96.6	97.0	97.2	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4
GE 500	94.2	95.1	95.4	96.3	96.8	97.1	97.6	97.8	97.8	98.2	98.2	98.3	98.3	98.3	98.3	98.3
GE 400	94.4	95.3	95.7	96.7	97.1	97.4	98.1	98.3	98.4	98.9	98.9	99.0	99.0	99.0	99.0	99.0
GE 300	94.8	95.7	96.1	97.3	97.9	98.3	99.0	99.2	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9
GE 200	94.9	95.8	96.2	97.4	98.0	98.4	99.1	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	94.9	95.8	96.2	97.4	98.0	98.4	99.1	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	94.9	95.8	96.2	97.4	98.0	98.4	99.1	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 20000	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 18000	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 16000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 14000	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 12000	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 10000	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 9000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 8000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 7000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 6000	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 5000	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 4500	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 4000	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 3500	88.4	88.4	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 3000	89.7	89.7	90.0	90.1	90.1	90.1	90.1	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 2500	92.2	92.2	92.6	92.7	92.7	92.7	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 2000	93.4	93.4	93.8	93.9	93.9	94.1	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1800	93.4	93.4	93.8	93.9	93.9	94.1	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1500	93.8	93.8	94.1	94.2	94.2	94.4	94.4	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1200	94.7	94.7	95.0	95.1	95.1	95.4	95.4	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 1000	95.8	95.8	96.1	96.3	96.4	96.8	96.8	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 900	96.2	96.3	96.7	96.9	97.0	97.3	97.3	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 800	96.4	96.6	96.9	97.1	97.2	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 700	96.9	97.0	97.3	97.9	98.0	98.3	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	97.1	97.2	97.7	98.3	98.6	98.9	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 500	97.2	97.3	97.9	98.7	98.9	99.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	97.2	97.3	97.9	98.7	98.9	99.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	97.2	97.3	97.9	98.7	98.9	99.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	97.2	97.3	97.9	98.7	98.9	99.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	97.2	97.3	97.9	98.7	98.9	99.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	97.2	97.3	97.9	98.7	98.9	99.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 20000	63.8	63.8	63.8	63.8	63.9	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
GE 18000	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 16000	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 14000	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 12000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 10000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 9000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 8000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 7000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 6000	77.9	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 5000	83.3	83.6	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 4500	85.3	85.6	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 4000	87.2	87.4	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 3500	89.0	89.2	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 3000	90.8	91.0	91.3	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 2500	93.3	93.6	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 2000	94.0	94.2	94.6	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 1800	94.0	94.2	94.6	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 1500	94.3	94.6	94.9	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4
GE 1200	95.2	95.4	95.8	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
GE 1000	96.2	96.4	96.8	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	96.6	96.8	97.1	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1
GE 800	97.1	97.7	98.0	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
GE 700	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7
GE 600	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7
GE 500	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 400	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 300	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 200	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	97.1	97.7	98.0	98.9	99.3	99.4	99.4	99.4	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 20000	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 18000	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 16000	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 14000	66.8	66.8	66.8	66.8	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 12000	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 10000	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 9000	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 8000	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 7000	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 6000	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 5000	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 4500	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 4000	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 3500	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 3000	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 2500	93.4	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 2000	95.0	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1800	95.1	95.3	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1500	95.3	95.6	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1200	95.8	96.0	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1000	96.4	96.7	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	97.2	97.4	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 800	97.3	97.6	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 700	97.6	97.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	97.6	97.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 500	97.6	97.8	98.9	99.0	99.2	99.2	99.2	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	97.6	97.8	99.0	99.1	99.3	99.3	99.3	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300	97.6	97.8	99.0	99.1	99.3	99.3	99.3	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200	97.6	97.8	99.0	99.1	99.3	99.3	99.3	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	97.6	97.8	99.0	99.1	99.3	99.3	99.3	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	97.6	97.8	99.0	99.1	99.3	99.3	99.3	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
GE 20000	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 18000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 16000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 14000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 12000	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 10000	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 9000	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 8000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 7000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 6000	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 5000	82.4	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 4500	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 4000	86.7	86.7	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 3500	88.2	88.2	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 3000	89.3	89.3	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 2500	91.3	91.3	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 2000	92.4	92.4	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1800	92.6	92.6	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1500	93.1	93.1	93.6	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1200	94.0	94.0	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1000	95.0	95.0	95.4	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 900	95.6	95.6	96.3	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 800	95.6	95.6	96.3	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 700	95.8	95.8	96.9	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 600	96.0	96.0	97.2	97.6	97.7	97.8	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 500	96.6	96.6	97.9	98.2	93.3	98.4	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 400	96.6	96.6	98.0	98.4	98.7	98.8	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 300	96.6	96.6	98.1	98.7	98.9	99.0	99.4	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	96.6	96.6	98.1	98.8	99.0	99.1	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	96.6	96.6	98.1	98.8	99.0	99.1	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	96.6	96.6	98.1	98.8	99.0	99.1	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.6	57.6	57.6	57.6
GE 20000	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 18000	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 16000	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 14000	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9
GE 12000	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6
GE 10000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.6	73.6	73.6	73.6
GE 9000	74.5	74.5	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 8000	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.5
GE 7000	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0	78.0	78.0
GE 6000	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2
GE 5000	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 4500	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2	84.2	84.2	84.2
GE 4000	86.3	86.3	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6
GE 3500	87.7	87.7	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1
GE 3000	88.8	88.8	89.1	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.4	89.4	89.4	89.4
GE 2500	90.6	90.7	91.0	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3
GE 2000	91.8	92.0	92.3	92.4	92.5	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7
GE 1800	92.0	92.2	92.5	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9
GE 1500	92.6	92.8	93.1	93.2	93.3	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6
GE 1200	93.2	93.4	93.8	94.0	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4
GE 1000	93.9	94.2	94.7	94.9	95.1	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.4	95.4	95.4	95.4
GE 900	94.5	94.7	95.3	95.6	95.8	95.8	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.1	96.1
GE 800	94.7	95.0	95.7	95.9	96.2	96.2	96.3	96.3	96.3	96.4	96.4	96.4	96.5	96.5	96.5	96.5
GE 700	95.1	95.4	96.1	96.5	96.8	96.8	96.9	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.2	97.2
GE 600	95.4	95.8	96.6	97.1	97.4	97.5	97.6	97.7	97.7	97.8	97.8	97.8	97.9	97.9	97.9	97.9
GE 500	95.7	96.1	96.9	97.5	97.8	98.0	98.2	98.3	98.3	98.6	98.6	98.7	98.7	98.7	98.7	98.7
GE 400	95.9	96.3	97.2	97.8	98.3	98.4	98.7	98.8	98.9	99.2	99.2	99.2	99.3	99.3	99.3	99.3
GE 300	95.9	96.3	97.2	97.9	98.4	98.6	99.0	99.2	99.2	99.5	99.5	99.6	99.7	99.7	99.7	99.7
GE 200	95.9	96.3	97.3	98.1	98.6	98.8	99.2	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9
GE 100	95.9	96.3	97.3	98.1	98.6	98.8	99.2	99.4	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0
GE 000	95.9	96.3	97.3	98.1	98.6	98.8	99.2	99.4	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8
GE 20000	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.4	73.5	73.7	73.7	73.7	73.7	73.7	73.7
GE 18000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.5	73.7	73.8	73.8	73.8	73.8	73.8	73.8
GE 16000	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.1	74.2	74.2	74.2	74.2	74.2	74.2
GE 14000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.8	74.9	74.9	74.9	74.9	74.9	74.9
GE 12000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3
GE 10000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.9	80.0	80.0	80.0	80.0	80.0	80.0
GE 9000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5	80.8	80.9	80.9	80.9	80.9	80.9	80.9
GE 8000	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	83.1	83.2	83.2	83.2	83.2	83.2	83.2
GE 7000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.7	83.9	84.0	84.0	84.0	84.0	84.0	84.0
GE 6000	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.2	84.3	84.3	84.3	84.3	84.3	84.3
GE 5000	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.2	87.3	87.3	87.3	87.3	87.3	87.3
GE 4500	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	89.1	89.2	89.2	89.2	89.2	89.2	89.2
GE 4000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.6	90.8	90.8	90.8	90.8	90.8	90.8
GE 3500	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.6	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0
GE 3000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.2	92.4	92.5	92.5	92.5	92.5	92.5	92.5
GE 2500	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1
GE 2000	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.2
GE 1800	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.9	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3
GE 1500	94.5	94.5	94.6	94.6	94.6	94.7	94.7	94.8	94.9	95.2	95.3	95.3	95.3	95.3	95.3	95.3
GE 1200	95.6	95.6	95.7	96.0	96.1	96.2	96.2	96.3	96.5	96.7	96.8	96.8	96.8	96.8	96.8	96.8
GE 1000	96.5	96.5	96.7	97.0	97.1	97.2	97.2	97.3	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7
GE 900	96.5	96.5	96.7	97.0	97.1	97.2	97.2	97.4	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0
GE 800	96.5	96.5	96.7	97.0	97.3	97.4	97.4	97.6	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2
GE 700	96.5	96.5	96.7	97.0	97.3	97.4	97.4	97.6	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2
GE 600	96.6	96.6	96.9	97.2	97.5	97.6	97.6	98.1	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6
GE 500	96.6	96.6	97.0	97.4	97.7	97.8	97.8	98.5	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0
GE 400	96.7	96.7	97.1	97.5	97.8	98.1	98.1	98.7	98.9	99.1	99.2	99.2	99.2	99.4	99.4	99.4
GE 300	96.7	96.7	97.1	97.6	98.0	98.2	98.2	98.8	99.1	99.5	99.6	99.6	99.6	99.7	99.7	99.7
GE 200	96.7	96.7	97.1	97.6	98.0	98.2	98.2	98.8	99.1	99.5	99.6	99.6	99.7	99.8	99.9	100.0
GE 100	96.7	96.7	97.1	97.6	98.0	98.2	98.2	98.8	99.1	99.5	99.6	99.6	99.7	99.8	99.9	100.0
GE 000	96.7	96.7	97.1	97.6	98.0	98.2	98.2	98.8	99.1	99.5	99.6	99.6	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	64.1	64.2	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.7
GE 20000	71.8	71.9	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.5
GE 18000	71.9	72.0	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5	72.6
GE 16000	72.4	72.5	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	73.0
GE 14000	73.1	73.2	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7	73.7	73.8
GE 12000	74.5	74.6	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.1	75.1	75.2
GE 10000	79.4	79.5	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9	79.9	80.0
GE 9000	80.3	80.4	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	81.0
GE 8000	81.8	81.9	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.5
GE 7000	83.4	83.5	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.1
GE 6000	84.1	84.2	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.6	84.6	84.7
GE 5000	87.1	87.2	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.7
GE 4500	87.6	87.7	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.3
GE 4000	89.2	89.4	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.9
GE 3500	89.5	89.6	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.2
GE 3000	90.0	90.1	90.4	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.1
GE 2500	90.5	90.6	91.0	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.6
GE 2000	91.3	91.4	91.7	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.4
GE 1800	91.4	91.5	91.8	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.5
GE 1500	92.2	92.3	93.0	93.2	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.9	93.9	94.0
GE 1200	92.8	93.0	93.8	94.0	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.9
GE 1000	94.1	94.3	95.2	95.4	95.9	95.9	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.3	96.3	96.5
GE 900	94.4	94.6	95.5	95.7	96.5	96.5	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.9	96.9	97.0
GE 800	94.6	94.8	95.9	96.1	97.0	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.4	97.4	97.5
GE 700	94.6	94.8	96.1	96.5	97.3	97.3	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.7	97.7	97.8
GE 600	94.7	94.9	96.2	96.6	97.5	97.5	97.7	98.1	98.1	98.2	98.2	98.2	98.2	98.3	98.3	98.5
GE 500	94.8	95.1	96.3	96.7	97.7	97.7	98.0	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	99.0
GE 400	94.9	95.2	96.5	96.9	98.0	98.0	98.3	98.9	98.9	99.0	99.0	99.1	99.1	99.2	99.2	99.5
GE 300	94.9	95.2	96.5	96.9	98.0	98.0	98.3	98.9	98.9	99.1	99.2	99.4	99.4	99.5	99.5	99.7
GE 200	94.9	95.2	96.5	96.9	98.0	98.0	98.3	98.9	98.9	99.1	99.2	99.4	99.4	99.5	99.6	99.8
GE 100	94.9	95.2	96.5	96.9	98.0	98.0	98.3	98.9	98.9	99.1	99.2	99.4	99.4	99.5	99.6	100.0
GE 000	94.9	95.2	96.5	96.9	98.0	98.0	98.3	98.9	98.9	99.1	99.2	99.4	99.4	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.1	59.1	59.1	59.2	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.7	59.9
GE 20000	66.9	66.9	66.9	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.5	67.7
GE 18000	67.4	67.4	67.4	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.8	68.1	68.3
GE 16000	68.1	68.1	68.1	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.5	68.7	68.9
GE 14000	68.8	68.8	68.8	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.5	69.7
GE 12000	71.6	71.6	71.6	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.3	72.5
GE 10000	77.5	77.5	77.5	77.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.3	78.5
GE 9000	78.4	78.4	78.4	78.5	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9	79.1	79.4
GE 8000	81.1	81.1	81.1	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.8	82.0
GE 7000	82.7	82.7	82.7	82.8	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.4	83.7
GE 6000	83.3	83.3	83.3	83.4	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.9	84.1	84.3
GE 5000	86.0	86.0	86.1	86.2	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	87.0	87.2
GE 4500	87.1	87.1	87.2	87.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.8	88.1	88.3
GE 4000	88.2	88.2	88.3	88.4	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	89.1	89.4
GE 3500	88.7	88.7	88.8	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.7	89.9
GE 3000	89.4	89.4	89.5	89.6	90.0	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.5	90.8
GE 2500	90.3	90.3	90.5	90.6	91.2	91.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.7	91.9
GE 2000	90.9	90.9	91.2	91.4	92.0	92.0	92.2	92.5	92.5	92.6	92.6	92.6	92.6	92.7	92.9	93.1
GE 1800	91.0	91.0	91.3	91.6	92.3	92.3	92.4	92.7	92.7	92.8	92.8	92.8	92.8	92.9	93.1	93.3
GE 1500	91.3	91.4	91.9	92.3	93.0	93.0	93.1	93.5	93.5	93.7	93.7	93.7	93.7	93.8	94.0	94.2
GE 1200	92.2	92.3	92.8	93.1	94.0	94.0	94.1	94.5	94.5	94.6	94.6	94.6	94.6	94.7	94.9	95.2
GE 1000	93.1	93.2	93.8	94.1	95.1	95.1	95.2	95.7	95.8	96.0	96.0	96.0	96.0	96.1	96.3	96.6
GE 900	93.2	93.3	93.9	94.2	95.2	95.2	95.3	95.8	95.9	96.1	96.1	96.1	96.1	96.2	96.5	96.7
GE 800	93.4	93.5	94.1	94.5	95.6	95.6	95.8	96.3	96.5	96.7	96.7	96.7	96.7	96.8	97.0	97.2
GE 700	93.7	93.8	94.3	94.7	95.8	95.9	96.2	96.8	96.9	97.3	97.3	97.3	97.3	97.4	97.6	97.8
GE 600	93.7	93.8	94.3	94.7	96.0	96.1	96.5	97.0	97.1	97.5	97.5	97.5	97.5	97.6	97.8	98.1
GE 500	93.7	93.8	94.3	94.7	96.0	96.1	96.5	97.2	97.3	97.8	97.8	97.8	97.8	98.0	98.2	98.4
GE 400	93.9	94.0	94.6	95.1	96.3	96.5	96.8	97.5	97.7	98.5	98.5	98.5	98.6	98.7	98.9	99.1
GE 300	93.9	94.0	94.6	95.1	96.3	96.5	96.8	97.5	97.7	98.6	98.6	98.6	98.7	98.8	99.0	99.2
GE 200	93.9	94.0	94.6	95.1	96.3	96.5	96.8	97.5	97.7	98.7	98.7	98.7	98.9	99.0	99.2	99.5
GE 100	93.9	94.0	94.6	95.1	96.3	96.5	96.8	97.5	98.0	98.9	99.0	99.0	99.2	99.4	99.8	100.0
GE 000	93.9	94.0	94.6	95.1	96.3	96.5	96.8	97.5	98.0	98.9	99.0	99.0	99.2	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 20000	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 18000	67.7	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 16000	69.1	69.1	69.1	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 14000	71.2	71.2	71.2	71.5	71.5	71.5	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 12000	74.3	74.3	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 10000	79.8	79.8	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 9000	80.3	80.3	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 8000	82.5	82.5	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 7000	83.5	83.5	83.5	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 6000	85.5	85.5	85.5	85.9	85.9	85.9	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 5000	87.0	87.0	87.0	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 4500	87.6	87.6	87.6	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 4000	88.8	88.8	88.8	89.2	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 3500	89.1	89.1	89.2	89.7	89.8	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 3000	90.5	90.5	90.6	91.1	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 2500	91.2	91.2	91.4	91.8	92.0	92.0	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 2000	91.7	91.8	92.0	92.6	92.9	92.9	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1800	91.8	91.9	92.2	92.7	93.1	93.1	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 1500	92.4	92.6	93.3	93.9	94.3	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 1200	92.7	92.9	93.8	94.4	94.9	95.1	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1000	93.0	93.3	94.4	95.4	96.0	96.1	96.5	96.5	96.5	96.6	96.8	96.8	96.9	96.9	96.9	96.9
GE 900	93.1	93.4	94.5	95.6	96.2	96.3	96.7	96.7	96.7	96.8	97.0	97.0	97.1	97.1	97.1	97.1
GE 800	93.4	93.8	94.8	95.9	96.6	96.7	97.0	97.0	97.0	97.1	97.3	97.3	97.4	97.4	97.4	97.4
GE 700	93.4	93.8	94.8	96.1	96.8	96.9	97.2	97.2	97.2	97.4	97.6	97.6	97.7	97.7	97.7	97.7
GE 600	93.7	94.1	95.2	96.5	97.1	97.2	97.7	97.7	97.7	98.0	98.2	98.2	98.3	98.3	98.3	98.3
GE 500	93.7	94.1	95.2	96.5	97.1	97.2	97.7	97.8	98.0	98.3	98.6	98.6	98.7	98.7	98.7	98.7
GE 400	93.8	94.2	95.4	96.7	97.3	97.4	98.0	98.3	98.4	98.7	99.0	99.0	99.1	99.1	99.1	99.1
GE 300	93.9	94.3	95.5	96.8	97.4	97.5	98.1	98.4	98.6	98.9	99.2	99.2	99.4	99.4	99.4	99.4
GE 200	93.9	94.3	95.5	96.8	97.4	97.5	98.1	98.4	98.8	99.1	99.5	99.5	99.6	99.9	99.9	99.9
GE 100	93.9	94.3	95.5	96.8	97.4	97.5	98.1	98.4	98.8	99.2	99.6	99.6	99.7	100.0	100.0	100.0
GE 000	93.9	94.3	95.5	96.8	97.4	97.5	98.1	98.4	98.8	99.2	99.6	99.6	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 20000	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 18000	68.7	68.7	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 16000	69.4	69.4	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 14000	71.2	71.2	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 12000	74.5	74.5	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 10000	78.5	78.5	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 9000	79.8	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 8000	82.0	82.0	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 7000	82.9	82.9	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 6000	84.1	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 5000	85.9	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 4500	87.1	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 4000	88.5	88.5	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 3500	90.0	90.0	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 3000	92.0	92.0	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 2500	93.0	93.1	93.3	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 2000	93.5	93.7	94.0	94.3	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 1800	93.7	93.8	94.1	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1500	94.5	94.7	95.1	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1200	94.8	95.1	95.4	95.7	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1000	95.7	95.9	96.3	96.8	97.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 900	95.9	96.0	96.5	96.9	97.1	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 800	95.9	96.1	96.6	97.0	97.2	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 700	96.0	96.2	96.7	97.1	97.3	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 600	96.3	96.6	97.1	97.5	97.7	98.1	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 500	96.5	96.7	97.3	97.8	98.2	98.5	98.7	98.8	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2
GE 400	96.5	96.7	97.3	97.8	98.2	98.5	98.7	99.1	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6
GE 300	96.5	96.7	97.3	97.8	98.2	98.5	98.7	99.1	99.2	99.5	99.5	99.5	99.8	99.9	99.9	99.9
GE 200	96.5	96.7	97.3	97.8	98.2	98.5	98.8	99.2	99.4	99.6	99.6	99.6	99.9	100.0	100.0	100.0
GE 100	96.5	96.7	97.3	97.8	98.2	98.5	98.8	99.2	99.4	99.6	99.6	99.6	99.9	100.0	100.0	100.0
GE 000	96.5	96.7	97.3	97.8	98.2	98.5	98.8	99.2	99.4	99.6	99.6	99.6	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 20000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 18000	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 16000	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 14000	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 12000	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 10000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 9000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 8000	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 7000	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 6000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 5000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 4500	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 4000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 3500	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 3000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 2500	94.6	94.6	94.6	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 2000	95.5	95.5	95.6	95.7	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1800	95.5	95.6	95.6	95.7	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1500	96.0	96.1	96.1	96.2	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1200	96.5	96.6	96.6	96.7	96.7	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1000	96.7	96.9	97.0	97.1	97.1	97.2	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	97.0	97.2	97.3	97.4	97.4	97.5	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 800	97.0	97.2	97.3	97.4	97.4	97.5	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700	97.1	97.3	97.4	97.6	97.6	97.7	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 600	97.2	97.5	97.6	97.8	98.0	98.1	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 500	97.2	97.6	97.8	98.1	98.2	98.3	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	97.2	97.6	97.8	98.1	98.2	98.3	98.8	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	97.2	97.6	97.8	98.1	98.2	98.3	98.8	99.0	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	97.2	97.6	97.8	98.1	98.2	98.3	98.8	99.0	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	97.2	97.6	97.8	98.1	98.2	98.3	98.8	99.0	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	97.2	97.6	97.8	98.1	98.2	98.3	98.8	99.0	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 20000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 18000	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 16000	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 14000	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 12000	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 10000	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 9000	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
GE 8000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 7000	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 6000	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 5000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 4500	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 4000	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 3500	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 3000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 2500	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 2000	94.9	94.9	94.9	94.9	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1800	95.4	95.4	95.4	95.4	95.5	95.6	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1500	95.8	95.8	95.8	95.9	96.0	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1200	96.3	96.3	96.3	96.5	96.6	96.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1000	97.0	97.0	97.0	97.1	97.2	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 900	97.0	97.0	97.0	97.1	97.2	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 800	97.1	97.1	97.2	97.3	97.4	97.7	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700	97.1	97.1	97.4	97.5	97.7	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 600	97.3	97.3	97.7	97.8	98.2	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 500	97.4	97.5	98.0	98.1	98.4	98.8	99.1	99.2	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	97.4	97.5	98.0	98.1	98.4	98.8	99.1	99.2	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	97.4	97.5	98.0	98.1	98.4	98.8	99.1	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	97.4	97.5	98.0	98.1	98.4	98.8	99.1	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	97.4	97.5	98.0	98.1	98.4	98.8	99.1	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	97.4	97.5	98.0	98.1	98.4	98.8	99.1	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	65.2	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 20000	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 18000	72.0	72.0	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 16000	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 14000	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 12000	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 10000	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 9000	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 8000	85.4	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 7000	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 6000	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 5000	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 4500	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 4000	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 3500	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 3000	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 2500	94.6	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 2000	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 1800	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1500	96.2	96.2	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1200	96.6	96.6	96.7	96.7	96.9	96.9	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1000	97.3	97.3	97.4	97.4	97.7	97.7	97.7	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 900	97.4	97.4	97.5	97.5	98.2	98.2	98.2	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 800	97.5	97.5	97.6	97.6	98.3	98.3	98.3	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 700	97.6	97.6	97.7	97.7	98.4	98.4	98.4	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	98.0	98.1	98.3	98.3	99.0	99.0	99.0	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500	98.0	98.1	98.3	98.3	99.0	99.0	99.0	99.2	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	98.0	98.1	98.3	98.3	99.0	99.0	99.0	99.2	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9
GE 300	98.0	98.1	98.3	98.3	99.0	99.0	99.0	99.2	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 200	98.0	98.1	98.3	98.3	99.0	99.0	99.0	99.2	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 100	98.0	98.1	98.3	98.3	99.0	99.0	99.0	99.2	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 000	98.0	98.1	98.3	98.3	99.0	99.0	99.0	99.2	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: OCT HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.6	60.6	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9
GE 20000	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.6
GE 15000	69.9	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.3
GE 14000	70.5	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.9
GE 13000	71.9	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.3
GE 12000	75.1	75.1	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4
GE 10000	79.8	79.8	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.2
GE 9000	80.9	80.9	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.2
GE 8000	83.0	83.0	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.4
GE 7000	83.9	83.9	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2	84.2
GE 6000	84.8	84.8	84.8	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1	85.1	85.1
GE 5000	87.1	87.1	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.5
GE 4500	88.1	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.5
GE 4000	89.6	89.6	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.1
GE 3500	90.6	90.6	90.7	90.8	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.1
GE 3000	91.7	91.7	91.8	91.9	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.2	92.2	92.2
GE 2500	92.6	92.6	92.7	92.8	93.0	93.0	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.3
GE 2000	93.3	93.4	93.5	93.7	93.9	94.0	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.3
GE 1800	93.5	93.6	93.7	93.9	94.1	94.1	94.2	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.5
GE 1500	94.1	94.2	94.5	94.7	95.0	95.0	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.4
GE 1200	94.7	94.8	95.1	95.4	95.7	95.8	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.2
GE 1000	95.4	95.6	96.0	96.3	96.6	96.7	96.9	97.1	97.1	97.2	97.2	97.2	97.3	97.3	97.3	97.4
GE 900	95.6	95.7	96.1	96.4	96.9	96.9	97.2	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.6	97.6
GE 800	95.7	95.8	96.3	96.6	97.1	97.2	97.4	97.6	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8
GE 700	95.8	95.9	96.4	96.8	97.3	97.4	97.6	97.8	97.8	98.0	98.0	98.0	98.0	98.1	98.1	98.1
GE 600	95.9	96.1	96.7	97.1	97.6	97.8	98.0	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.6	98.6
GE 500	96.0	96.2	96.8	97.2	97.8	97.9	98.2	98.6	98.7	98.9	99.0	99.0	99.0	99.1	99.1	99.1
GE 400	96.0	96.2	96.9	97.3	97.9	98.1	98.3	98.8	98.9	99.2	99.3	99.3	99.4	99.4	99.4	99.5
GE 300	96.0	96.3	96.9	97.3	97.9	98.1	98.4	98.8	99.0	99.3	99.4	99.5	99.5	99.6	99.6	99.7
GE 200	96.0	96.3	96.9	97.3	97.9	98.1	98.4	98.8	99.0	99.4	99.5	99.6	99.7	99.8	99.8	99.9
GE 100	96.0	96.3	96.9	97.3	97.9	98.1	98.4	98.8	99.0	99.4	99.6	99.6	99.7	99.8	99.9	100.0
GE 000	96.0	96.3	96.9	97.3	97.9	98.1	98.4	98.8	99.0	99.4	99.6	99.6	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.8	55.0	55.3	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.7	55.7	55.7	55.8
GE 20000	61.1	61.4	61.8	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.2
GE 18000	61.8	62.1	62.4	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.8	62.8	62.8	62.9
GE 16000	62.2	62.6	62.9	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.3
GE 14000	64.2	64.6	64.9	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.3
GE 12000	65.9	66.2	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	67.0
GE 10000	73.3	73.7	74.0	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.6
GE 9000	74.3	74.7	75.0	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.6
GE 8000	76.4	76.8	77.1	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.6	77.6	77.6	77.7
GE 7000	77.7	78.0	78.3	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.9
GE 6000	78.6	78.9	79.3	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9	79.9	79.9	80.0
GE 5000	80.4	80.8	81.2	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.9	81.9	81.9	82.0
GE 4500	81.3	81.7	82.1	82.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.9	82.9	82.9	83.0
GE 4000	84.3	84.7	85.1	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.1	86.1	86.1	86.2
GE 3500	84.9	85.2	85.7	85.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.7	86.7	86.7	86.8
GE 3000	86.2	86.6	87.1	87.3	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.3	88.3	88.3	88.4
GE 2500	87.0	87.4	88.1	88.4	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.4	89.6
GE 2000	87.4	87.9	88.9	89.4	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	91.0	91.0	91.0	91.1
GE 1800	87.6	88.0	89.1	89.7	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.2	91.2	91.2	91.3
GE 1500	87.9	88.3	89.8	90.7	92.0	92.0	92.2	92.6	92.6	92.7	92.7	92.7	92.9	92.9	92.9	93.0
GE 1200	88.1	88.6	90.0	91.0	92.3	92.3	92.7	93.2	93.2	93.3	93.4	93.4	93.8	93.8	93.8	93.9
GE 1000	88.4	88.9	90.3	91.3	92.7	92.8	93.1	93.8	93.8	93.9	94.1	94.1	94.4	94.4	94.4	94.6
GE 900	88.9	89.3	90.8	91.8	93.1	93.2	93.6	94.3	94.3	94.4	94.7	94.7	95.0	95.0	95.0	95.1
GE 800	89.7	90.1	91.7	92.8	94.3	94.4	94.8	95.6	95.6	95.7	95.9	95.9	96.2	96.2	96.2	96.3
GE 700	90.1	90.6	92.2	93.7	95.2	95.4	95.8	96.6	96.6	96.7	96.9	96.9	97.2	97.2	97.2	97.3
GE 600	90.7	91.2	93.0	94.4	96.1	96.3	96.8	97.6	97.6	97.9	98.1	98.1	98.4	98.4	98.4	98.6
GE 500	90.7	91.2	93.0	94.4	96.2	96.4	96.9	97.8	97.8	98.4	98.7	98.7	99.0	99.0	99.0	99.1
GE 400	90.7	91.2	93.0	94.4	96.3	96.6	97.0	97.9	97.9	98.6	98.8	98.8	99.1	99.1	99.1	99.2
GE 300	90.7	91.2	93.0	94.4	96.4	96.8	97.2	98.1	98.1	99.0	99.3	99.3	99.8	99.8	99.8	99.9
GE 200	90.7	91.2	93.0	94.4	96.4	96.8	97.2	98.1	98.1	99.0	99.3	99.3	99.9	99.9	99.9	100.0
GE 100	90.7	91.2	93.0	94.4	96.4	96.8	97.2	98.1	98.1	99.0	99.3	99.3	99.9	99.9	99.9	100.0
GE 000	90.7	91.2	93.0	94.4	96.4	96.8	97.2	98.1	98.1	99.0	99.3	99.3	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

FORM NO 413-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.2	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.8	55.8	55.8	55.9	55.9	55.9	56.2
GE 20000	62.1	62.4	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7	62.7	62.8	62.8	62.8	63.1
GE 18000	63.2	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.9	63.9	63.9	64.2
GE 16000	63.6	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.2	64.2	64.2	64.6
GE 14000	64.8	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.3	65.4	65.4	65.4	65.8
GE 12000	66.4	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.4
GE 10000	72.9	73.2	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.9	73.9	73.9	74.2
GE 9000	74.0	74.3	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.9	74.9	74.9	75.0	75.0	75.0	75.3
GE 8000	76.1	76.4	76.7	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.1	77.1	77.1	77.4
GE 7000	77.1	77.4	77.7	77.9	77.9	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.3	78.3	78.3	78.7
GE 6000	78.4	78.8	79.2	79.4	79.6	79.7	79.7	79.7	79.7	79.8	79.8	79.8	80.0	80.0	80.0	80.3
GE 5000	80.1	80.4	80.9	81.1	81.4	81.6	81.7	81.7	81.7	81.8	81.8	81.8	82.0	82.0	82.0	82.3
GE 4500	81.3	81.7	82.1	82.3	82.7	82.8	82.9	82.9	82.9	83.0	83.0	83.0	83.2	83.2	83.2	83.7
GE 4000	83.2	83.7	84.1	84.4	84.9	85.1	85.2	85.2	85.2	85.3	85.3	85.3	85.6	85.6	85.6	86.0
GE 3500	83.6	84.1	84.8	85.1	85.7	85.9	86.0	86.0	86.0	86.1	86.1	86.1	86.3	86.3	86.3	86.8
GE 3000	84.2	84.9	85.7	86.0	86.8	87.0	87.1	87.1	87.1	87.2	87.2	87.2	87.4	87.4	87.4	87.9
GE 2500	84.9	85.6	86.6	86.9	87.8	88.0	88.1	88.1	88.1	88.2	88.2	88.2	88.4	88.4	88.4	88.9
GE 2000	85.3	86.0	87.0	87.4	89.0	89.2	89.6	89.6	89.6	89.7	89.7	89.7	89.9	89.9	89.9	90.3
GE 1800	85.3	86.1	87.2	87.7	89.2	89.4	89.8	89.8	89.8	89.9	89.9	89.9	90.1	90.1	90.1	90.6
GE 1500	85.7	86.6	87.8	88.6	90.6	90.8	91.3	91.8	91.8	92.2	92.2	92.2	92.4	92.4	92.4	92.9
GE 1200	85.7	86.8	88.0	88.8	90.8	91.0	91.6	92.0	92.1	92.7	92.7	92.7	92.9	92.9	92.9	93.3
GE 1000	86.1	87.2	88.4	89.2	91.3	91.7	92.2	92.7	92.8	93.6	93.6	93.6	93.8	93.8	93.8	94.2
GE 900	86.3	87.4	88.8	89.6	91.7	92.0	92.6	93.0	93.1	93.9	93.9	93.9	94.1	94.1	94.1	94.6
GE 800	86.8	88.0	89.6	90.3	92.4	92.8	93.3	93.8	94.0	94.8	94.8	94.8	95.0	95.0	95.0	95.4
GE 700	87.4	88.7	90.6	91.6	93.8	94.1	94.7	95.1	95.3	96.2	96.2	96.2	96.4	96.4	96.4	96.9
GE 600	87.6	88.9	91.1	92.4	95.1	95.4	96.1	96.6	96.8	97.7	97.7	97.7	97.9	97.9	97.9	98.3
GE 500	87.7	89.0	91.2	92.6	95.2	95.6	96.3	96.8	97.0	98.0	98.2	98.2	98.4	98.4	98.4	98.9
GE 400	87.8	89.1	91.3	92.7	95.3	95.7	96.4	97.1	97.3	98.3	98.6	98.6	98.8	98.8	98.8	99.2
GE 300	87.9	89.2	91.4	92.8	95.7	96.0	96.8	97.4	97.7	98.7	98.9	98.9	99.1	99.1	99.1	99.6
GE 200	88.0	89.3	91.6	92.9	95.8	96.2	97.0	97.7	97.9	98.9	99.1	99.1	99.3	99.3	99.3	99.8
GE 100	88.0	89.3	91.6	92.9	95.8	96.2	97.1	97.8	98.0	99.0	99.2	99.2	99.4	99.4	99.4	100.0
GE 000	88.0	89.3	91.6	92.9	95.8	96.2	97.1	97.8	98.0	99.0	99.2	99.2	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.9	49.0	49.0	49.0	49.2	49.2	49.2	49.3	49.3	49.4	49.4	49.4	49.4	49.6	49.7	49.8
GE 20000	56.9	57.1	57.2	57.2	57.4	57.4	57.4	57.6	57.6	57.7	57.7	57.7	57.7	57.8	57.9	58.0
GE 18000	57.7	57.9	58.0	58.0	58.2	58.2	58.2	58.3	58.3	58.4	58.4	58.4	58.4	58.6	58.7	58.8
GE 16000	58.1	58.3	58.4	58.4	58.7	58.7	58.7	58.8	58.8	58.9	58.9	58.9	58.9	59.0	59.1	59.2
GE 14000	59.6	59.8	59.9	59.9	60.1	60.1	60.1	60.2	60.2	60.3	60.3	60.3	60.3	60.4	60.6	60.7
GE 12000	62.9	63.1	63.2	63.2	63.4	63.4	63.4	63.6	63.6	63.7	63.7	63.7	63.7	63.8	63.9	64.0
GE 10000	69.6	69.8	70.0	70.0	70.2	70.3	70.3	70.4	70.4	70.6	70.6	70.6	70.7	70.8	70.9	71.0
GE 9000	71.9	72.1	72.3	72.3	72.6	72.7	72.7	72.8	72.8	72.9	72.9	72.9	73.0	73.1	73.2	73.3
GE 8000	75.1	75.4	75.7	75.7	75.9	76.1	76.1	76.2	76.2	76.3	76.3	76.3	76.4	76.6	76.7	76.8
GE 7000	75.8	76.1	76.3	76.3	76.6	76.9	76.9	77.0	77.0	77.1	77.1	77.1	77.2	77.3	77.4	77.6
GE 6000	77.6	77.9	78.2	78.2	78.7	79.0	79.0	79.2	79.2	79.3	79.3	79.3	79.4	79.6	79.7	79.8
GE 5000	79.1	79.4	79.8	79.8	80.2	80.6	80.6	80.8	80.8	80.9	80.9	80.9	81.0	81.1	81.2	81.3
GE 4500	80.3	80.7	81.0	81.0	81.4	81.8	81.8	82.0	82.0	82.1	82.1	82.1	82.2	82.3	82.4	82.6
GE 4000	81.6	82.0	82.3	82.3	82.9	83.4	83.4	83.7	83.7	83.8	83.8	83.8	83.9	84.0	84.1	84.2
GE 3500	81.8	82.2	82.8	82.8	83.3	84.0	84.0	84.2	84.2	84.3	84.3	84.3	84.4	84.6	84.7	84.8
GE 3000	82.7	83.2	84.1	84.1	85.0	85.8	85.8	86.0	86.0	86.1	86.1	86.1	86.2	86.3	86.4	86.6
GE 2500	83.1	83.8	84.9	85.0	86.0	86.8	86.8	87.0	87.0	87.1	87.1	87.1	87.2	87.3	87.4	87.6
GE 2000	83.8	85.0	86.3	86.6	87.7	88.4	88.6	88.8	88.8	89.2	89.2	89.2	89.3	89.4	89.6	89.7
GE 1800	83.9	85.2	86.6	86.9	88.0	88.8	88.9	89.1	89.1	89.6	89.7	89.7	89.8	89.9	90.0	90.1
GE 1500	84.6	86.0	87.7	88.1	89.6	90.3	90.6	91.0	91.0	91.4	91.7	91.7	91.8	91.9	92.0	92.1
GE 1200	84.9	86.2	87.9	88.3	89.8	90.7	91.0	91.4	91.4	92.2	92.7	92.7	92.8	92.9	93.0	93.1
GE 1000	85.1	86.6	88.2	88.8	90.2	91.1	91.4	91.9	91.9	92.7	93.1	93.2	93.3	93.4	93.6	93.7
GE 900	85.3	86.8	88.4	89.0	90.6	91.4	91.3	92.2	92.2	93.0	93.4	93.6	93.7	93.8	93.9	94.0
GE 800	85.6	87.0	88.9	89.4	91.0	92.0	92.3	92.8	92.8	93.7	94.1	94.2	94.4	94.6	94.8	94.9
GE 700	85.8	87.2	89.4	90.2	91.8	92.8	93.2	93.7	93.7	94.5	95.0	95.1	95.3	95.4	95.7	95.8
GE 600	85.8	87.2	89.7	90.4	92.1	93.2	94.0	94.4	94.6	95.4	95.9	96.0	96.2	96.3	96.6	96.7
GE 500	86.0	87.4	90.0	90.9	92.6	93.8	94.7	95.3	95.4	96.3	97.0	97.1	97.3	97.6	97.8	97.9
GE 400	86.4	87.9	90.6	91.6	93.3	94.6	95.7	96.3	96.4	97.3	98.0	98.1	98.3	98.6	98.8	98.9
GE 300	86.7	88.2	91.0	92.3	94.1	95.3	96.4	97.1	97.2	98.1	98.8	98.9	99.1	99.3	99.6	99.7
GE 200	86.7	88.2	91.0	92.3	94.2	95.4	96.6	97.2	97.4	98.3	99.0	99.1	99.3	99.6	99.8	99.9
GE 100	86.7	88.2	91.0	92.3	94.2	95.4	96.7	97.3	97.6	98.4	99.1	99.2	99.4	99.7	99.9	100.0
GE 000	86.7	88.2	91.0	92.3	94.2	95.4	96.7	97.3	97.6	98.4	99.1	99.2	99.4	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.7	44.7	44.9	45.0	45.0	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 20000	53.2	53.2	53.4	53.6	53.7	53.7	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 18000	54.9	54.9	55.1	55.2	55.3	55.3	55.3	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 16000	55.2	55.2	55.4	55.6	55.7	55.7	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 14000	57.6	57.6	57.8	57.9	58.0	58.0	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 12000	63.8	63.8	64.0	64.1	64.2	64.2	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 10000	70.4	70.4	70.7	70.8	70.9	70.9	70.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 9000	72.6	72.6	72.8	72.9	73.0	73.0	73.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 8000	76.7	76.7	77.0	77.2	77.3	77.3	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 7000	77.4	77.6	77.9	78.1	78.2	78.2	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 6000	78.9	79.0	79.4	79.7	79.8	79.8	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 5000	80.7	80.8	81.2	81.4	81.6	81.6	81.8	82.1	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 4500	81.9	82.0	82.4	82.7	82.8	92.8	83.0	83.3	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 4000	82.7	82.8	83.2	83.4	93.8	83.8	84.0	84.4	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 3500	83.4	83.6	84.6	84.9	85.2	85.2	85.4	85.9	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 3000	84.2	84.4	85.6	86.0	86.4	86.6	86.8	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 2500	85.0	95.3	96.6	87.1	87.3	87.9	88.1	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 2000	85.6	85.9	87.1	87.8	88.4	88.6	88.9	89.3	89.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1800	85.7	86.0	87.2	87.9	88.6	88.7	89.0	89.4	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 1500	86.1	86.6	87.8	88.6	89.3	89.4	89.8	90.6	90.9	91.3	91.4	91.4	91.6	91.6	91.6	91.6
GE 1200	86.7	87.1	88.3	89.2	90.0	90.1	90.4	91.2	91.6	92.2	92.4	92.4	92.6	92.6	92.6	92.6
GE 1000	87.0	87.9	89.1	90.0	90.8	91.0	91.3	92.1	92.4	93.2	93.7	93.7	93.8	93.9	93.9	93.9
GE 900	87.0	87.9	89.3	90.3	91.2	91.4	91.9	92.7	93.1	93.9	94.3	94.3	94.6	94.8	94.8	94.8
GE 800	87.0	88.0	89.4	90.4	91.3	91.6	92.0	92.8	93.2	94.0	94.7	94.7	94.9	95.2	95.2	95.2
GE 700	87.0	88.2	89.7	90.7	91.6	91.8	92.2	93.0	93.4	94.3	95.0	95.0	95.2	95.8	95.8	95.8
GE 600	87.3	88.7	90.1	91.3	92.3	92.6	93.0	94.0	94.6	95.9	96.6	96.6	96.8	97.3	97.3	97.3
GE 500	87.3	88.8	90.4	91.7	92.7	93.0	93.6	94.6	95.1	96.7	97.3	97.3	97.7	98.2	98.2	98.2
GE 400	87.4	88.9	90.6	92.2	93.6	93.9	94.4	95.4	96.0	97.7	98.6	98.6	98.9	99.4	99.4	99.4
GE 300	87.4	88.9	90.6	92.2	93.6	93.9	94.4	95.4	96.2	98.0	99.0	99.0	99.3	99.9	99.9	99.9
GE 200	87.4	88.9	90.6	92.2	93.6	93.9	94.4	95.4	96.2	98.1	99.1	99.1	99.4	100.0	100.0	100.0
GE 100	87.4	98.9	90.6	92.2	93.6	93.9	94.4	95.4	96.2	98.1	99.1	99.1	99.4	100.0	100.0	100.0
GE 000	87.4	98.9	90.6	92.2	93.6	93.9	94.4	95.4	96.2	98.1	99.1	99.1	99.4	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.7	44.7	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
GE 20000	54.7	54.8	54.8	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 18000	56.3	56.8	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 16000	57.2	57.7	57.7	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
GE 14000	59.9	60.3	60.3	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 12000	65.7	66.1	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 10000	72.9	73.3	73.3	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 9000	75.0	75.4	75.4	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 8000	77.3	77.8	77.8	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 7000	78.1	78.7	78.7	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 6000	79.7	80.3	80.4	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 5000	81.9	82.6	82.7	82.9	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 4500	83.0	83.7	83.8	84.0	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 4000	84.1	84.8	85.0	85.2	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 3500	84.4	85.1	85.7	85.9	86.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 3000	85.6	86.3	87.2	87.4	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 2500	86.1	86.9	87.8	88.0	88.7	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 2000	86.7	87.4	88.6	88.8	89.4	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1800	86.8	87.6	88.7	88.9	89.6	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 1500	87.3	88.1	89.2	89.6	90.4	90.8	90.8	91.2	91.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4
GE 1200	88.3	89.1	90.3	90.8	91.8	92.1	92.2	92.8	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1
GE 1000	88.6	89.3	90.7	91.1	92.1	92.4	92.7	93.4	93.6	94.0	94.1	94.2	94.2	94.3	94.3	94.3
GE 900	88.7	89.4	90.8	91.2	92.2	92.6	92.9	93.7	93.8	94.2	94.3	94.4	94.4	94.6	94.6	94.7
GE 800	89.0	89.8	91.2	91.7	92.8	93.1	93.4	94.3	94.4	94.9	95.2	95.3	95.4	95.6	95.6	95.8
GE 700	89.0	89.8	91.3	91.8	93.0	93.4	93.8	94.8	94.9	95.7	96.1	96.2	96.4	96.6	96.6	96.8
GE 600	89.3	90.4	92.1	92.7	94.1	94.6	94.9	95.9	96.0	97.2	97.7	97.8	98.0	98.1	98.1	98.3
GE 500	89.3	90.4	92.1	92.7	94.1	94.6	94.9	95.9	96.1	97.6	98.2	98.3	98.7	98.8	98.8	99.0
GE 400	89.4	90.6	92.2	92.8	94.4	94.9	95.2	96.3	96.6	98.0	98.8	98.9	99.2	99.3	99.3	99.6
GE 300	89.4	90.6	92.2	92.8	94.4	94.9	95.2	96.6	96.8	98.3	99.1	99.2	99.6	99.7	99.7	99.9
GE 200	89.4	90.6	92.2	92.8	94.4	94.9	95.2	96.6	96.8	98.3	99.2	99.3	99.7	99.8	99.8	100.0
GE 100	89.4	90.6	92.2	92.8	94.4	94.9	95.2	96.6	96.8	98.3	99.2	99.3	99.7	99.8	99.8	100.0
GE 000	89.4	90.6	92.2	92.8	94.4	94.9	95.2	96.6	96.8	98.3	99.2	99.3	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.8	48.0	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 20000	57.2	57.4	57.7	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
GE 18000	58.4	58.8	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 16000	59.9	60.2	60.4	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 14000	61.2	61.6	61.8	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
GE 12000	65.7	66.0	66.2	66.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
GE 10000	72.3	72.7	72.9	73.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 9000	73.9	74.2	74.4	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 8000	77.3	77.7	77.9	78.0	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 7000	78.8	79.2	79.6	79.7	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 6000	80.6	81.1	81.4	81.6	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 5000	82.3	83.0	83.3	83.4	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 4500	83.2	83.9	84.2	84.3	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 4000	84.7	85.3	85.9	86.3	86.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 3500	84.9	95.6	86.3	86.8	87.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 3000	86.2	86.9	87.8	88.3	88.9	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 2500	86.3	87.0	37.9	88.4	89.1	89.4	89.4	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 2000	86.7	87.6	88.6	89.1	89.9	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1800	86.8	87.7	88.8	89.3	90.1	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GE 1500	87.0	38.1	89.2	89.9	90.9	91.7	91.7	91.7	91.7	92.2	92.4	92.4	92.4	92.4	92.6	92.6
GE 1200	88.2	89.3	90.4	91.3	92.4	93.2	93.2	93.2	93.2	93.8	94.0	94.0	94.0	94.0	94.1	94.1
GE 1000	88.9	90.1	91.3	92.2	93.6	94.3	94.3	94.4	94.4	95.1	95.6	95.6	95.6	95.7	95.8	95.8
GE 900	88.9	90.1	91.3	92.2	93.6	94.3	94.3	94.6	94.7	95.3	95.8	95.8	95.8	95.9	96.0	96.0
GE 800	88.9	90.1	91.3	92.2	93.7	94.6	94.6	94.8	94.9	95.8	96.2	96.2	96.2	96.3	96.4	96.4
GE 700	88.9	90.1	91.3	92.3	93.8	95.0	95.2	95.4	95.6	96.7	97.1	97.1	97.1	97.2	97.3	97.3
GE 600	89.2	90.4	91.7	92.8	94.3	95.6	95.9	96.1	96.2	98.0	98.4	98.4	98.4	98.6	98.7	98.7
GE 500	89.2	90.4	91.7	92.8	94.3	95.7	96.0	96.6	96.7	98.6	99.2	99.2	99.2	99.3	99.4	99.4
GE 400	89.2	90.4	91.8	92.9	94.4	95.8	96.1	96.7	96.9	98.8	99.4	99.4	99.4	99.6	99.7	99.7
GE 300	89.2	90.4	91.8	92.9	94.4	95.8	96.2	96.8	97.0	98.9	99.7	99.7	99.7	99.8	100.0	100.0
GE 200	89.2	90.4	91.8	92.9	94.4	95.8	96.2	96.8	97.0	98.9	99.7	99.7	99.7	99.8	100.0	100.0
GE 100	89.2	90.4	91.8	92.9	94.4	95.8	96.2	96.8	97.0	98.9	99.7	99.7	99.7	99.8	100.0	100.0
GE 000	89.2	90.4	91.8	92.9	94.4	95.8	96.2	96.8	97.0	98.9	99.7	99.7	99.7	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0
GE 20000	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0
GE 18000	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0
GE 16000	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8
GE 14000	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6
GE 12000	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7
GE 10000	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4
GE 9000	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6
GE 8000	77.1	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7
GE 7000	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3
GE 6000	79.7	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2
GE 5000	82.3	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1
GE 4500	82.8	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6
GE 4000	84.6	85.0	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4
GE 3500	85.3	85.8	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4
GE 3000	86.3	86.8	87.2	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8
GE 2500	86.9	87.3	88.0	88.6	89.0	89.0	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2
GE 2000	87.4	87.9	88.6	89.1	89.7	89.7	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9
GE 1800	87.6	88.0	88.7	89.2	89.8	89.9	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1
GE 1500	87.9	88.3	89.3	89.9	90.4	90.9	91.1	91.1	91.3	91.4	91.7	91.7	91.7	91.7	91.7	91.7
GE 1200	88.4	89.0	90.1	90.7	91.2	91.8	92.2	92.6	92.8	93.2	93.4	93.4	93.7	93.7	93.7	93.7
GE 1000	88.8	89.3	90.8	91.4	92.0	92.6	93.0	93.6	93.8	94.7	95.0	95.0	95.2	95.2	95.2	95.2
GE 900	89.2	89.8	91.6	92.2	92.8	93.3	93.8	94.6	94.8	95.7	96.0	96.0	96.2	96.2	96.2	96.2
GE 800	89.6	90.1	92.1	92.8	93.3	93.9	94.4	95.2	95.4	96.3	96.7	96.7	96.9	96.9	96.9	96.9
GE 700	89.9	90.4	92.6	93.2	93.8	94.4	95.3	96.3	96.6	97.6	97.9	97.9	98.1	98.1	98.1	98.1
GE 600	90.0	90.6	92.7	93.4	94.1	95.0	95.9	96.9	97.1	98.1	98.4	98.4	98.7	98.7	98.7	98.7
GE 500	90.0	90.6	92.8	93.6	94.4	95.3	96.2	97.2	97.4	98.6	99.1	99.1	99.3	99.3	99.3	99.3
GE 400	90.2	90.9	93.1	93.9	94.8	95.7	96.6	97.6	97.9	99.0	99.6	99.6	99.8	99.8	99.8	99.8
GE 300	90.2	90.8	93.1	93.9	94.8	95.7	96.6	97.6	98.0	99.1	99.8	99.8	100.0	100.0	100.0	100.0
GE 200	90.2	90.8	93.1	93.9	94.8	95.7	96.6	97.6	98.0	99.1	99.8	99.8	100.0	100.0	100.0	100.0
GE 100	90.2	90.8	93.1	93.9	94.8	95.7	96.6	97.6	98.0	99.1	99.8	99.8	100.0	100.0	100.0	100.0
GE 000	90.2	90.8	93.1	93.9	94.8	95.7	96.6	97.6	98.0	99.1	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.8	54.0	54.0	54.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.4	54.4
GE 20000	60.1	60.3	60.4	60.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.8	60.9	60.9
GE 18000	60.7	60.9	61.0	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.4	61.4
GE 16000	61.7	61.9	62.0	62.0	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.4	62.4
GE 14000	63.0	63.2	63.3	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.8	63.8
GE 12000	65.0	65.2	65.3	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.8	65.8
GE 10000	71.7	71.9	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.4	72.4
GE 9000	72.0	72.2	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.8	72.8
GE 8000	74.7	74.9	75.0	75.0	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.4	75.4
GE 7000	75.6	75.8	75.9	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.3	76.3
GE 6000	77.3	77.6	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0	78.1	78.1
GE 5000	79.2	79.4	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9	79.9	80.0	80.0
GE 4500	80.3	80.6	80.7	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.1	81.1	81.2	81.2
GE 4000	82.7	82.9	83.1	83.1	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.1	84.1
GE 3500	83.3	83.7	84.0	84.1	84.8	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.3	85.3
GE 3000	84.9	85.2	86.0	86.3	87.6	87.8	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.1	88.1
GE 2500	85.1	85.6	86.4	86.8	88.3	88.6	88.8	88.8	88.9	88.8	88.8	88.8	88.9	88.9	89.0	89.0
GE 2000	85.8	86.2	87.1	87.6	89.4	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.2	90.2
GE 1800	86.1	86.6	87.4	87.9	89.8	90.1	90.3	90.3	90.3	90.3	90.6	90.6	90.7	90.7	90.8	90.8
GE 1500	86.9	87.3	88.3	89.4	91.3	91.7	92.2	92.3	92.3	92.3	92.6	92.6	92.7	92.7	92.8	92.8
GE 1200	86.9	87.3	88.3	89.4	91.4	91.8	92.6	93.1	93.1	93.3	93.6	93.6	93.7	93.7	93.8	93.8
GE 1000	87.0	87.4	88.6	89.7	91.7	92.0	92.8	93.4	93.4	93.9	94.3	94.3	94.6	94.6	94.7	94.7
GE 900	87.6	88.1	89.2	90.4	92.6	92.9	93.7	94.4	94.4	94.9	95.3	95.3	95.6	95.6	95.7	95.7
GE 800	88.0	88.6	89.9	91.1	93.2	93.6	94.3	95.1	95.1	95.6	96.1	96.1	96.3	96.3	96.4	96.4
GE 700	88.2	88.9	90.4	91.7	94.1	94.4	95.2	96.0	96.1	96.6	97.1	97.1	97.3	97.3	97.4	97.4
GE 600	88.2	88.9	90.6	92.0	94.4	94.8	95.9	96.8	96.9	97.6	98.1	98.1	98.4	98.4	98.6	98.6
GE 500	88.7	89.3	91.1	92.6	95.0	95.3	96.4	97.3	97.4	98.6	99.2	99.2	99.6	99.6	99.7	99.7
GE 400	88.7	89.3	91.1	92.6	95.0	95.4	96.6	97.4	97.6	98.7	99.3	99.3	99.7	99.7	99.8	99.8
GE 300	88.7	89.4	91.2	92.7	95.1	95.6	96.7	97.6	97.7	98.8	99.4	99.4	99.8	99.8	99.9	99.9
GE 200	88.7	89.4	91.2	92.7	95.1	95.6	96.7	97.6	97.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0
GE 100	88.7	89.4	91.2	92.7	95.1	95.6	96.7	97.6	97.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0
GE 000	88.7	89.4	91.2	92.7	95.1	95.6	96.7	97.6	97.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.3	50.5	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.9
GE 20000	58.1	58.3	58.5	58.5	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.8	58.8	58.8	58.9
GE 18000	59.2	59.5	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.9	59.9	59.9	59.9	59.9	60.0
GE 16000	59.9	60.2	60.3	60.4	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.7	60.7
GE 14000	61.7	61.9	62.1	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.5
GE 12000	65.2	65.5	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	66.0	66.0
GE 10000	72.0	72.3	72.5	72.6	72.7	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	73.0
GE 9000	73.5	73.8	73.9	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.4
GE 8000	76.3	76.7	76.8	77.0	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3	77.4
GE 7000	77.3	77.6	77.8	77.9	78.1	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.4	78.4
GE 6000	78.8	79.2	79.5	79.6	79.8	79.9	79.9	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.2	80.2
GE 5000	80.8	81.2	81.4	81.6	81.8	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.2	82.2	82.3	82.3
GE 4500	81.8	82.2	82.5	82.6	82.9	83.0	83.1	83.1	83.1	83.2	83.2	83.2	83.3	83.3	83.3	83.4
GE 4000	83.5	83.9	84.3	84.4	84.9	85.0	85.1	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.4	85.5
GE 3500	84.0	84.4	85.0	85.2	85.7	85.9	86.0	86.0	86.0	86.1	86.1	86.1	86.2	86.2	86.2	86.3
GE 3000	85.0	85.5	86.3	86.6	87.3	87.6	87.6	87.7	87.7	87.8	87.8	87.8	87.9	87.9	87.9	88.0
GE 2500	85.6	86.1	87.0	87.4	88.2	88.5	88.6	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.9	88.9
GE 2000	86.1	86.7	87.8	88.2	89.3	89.5	89.7	89.8	89.8	89.9	90.0	90.0	90.0	90.1	90.1	90.2
GE 1800	86.2	86.9	88.0	88.4	89.5	89.8	89.9	90.0	90.1	90.2	90.2	90.2	90.3	90.3	90.4	90.4
GE 1500	86.7	87.4	88.6	89.3	90.6	90.9	91.2	91.5	91.6	91.9	92.0	92.0	92.1	92.1	92.2	92.3
GE 1200	87.1	87.9	89.2	89.9	91.2	91.6	92.0	92.4	92.5	93.0	93.2	93.2	93.3	93.3	93.4	93.4
GE 1000	87.5	88.3	89.7	90.5	91.8	92.2	92.6	93.2	93.3	93.9	94.2	94.2	94.4	94.4	94.5	94.5
GE 900	87.7	88.6	90.0	90.8	92.2	92.7	93.1	93.7	93.8	94.4	94.7	94.8	94.9	95.0	95.0	95.1
GE 800	88.1	89.0	90.5	91.3	92.8	93.2	93.7	94.3	94.4	95.1	95.5	95.5	95.7	95.8	95.8	95.9
GE 700	88.3	89.2	90.9	91.9	93.4	93.9	94.4	95.1	95.3	96.0	96.4	96.4	96.7	96.8	96.8	96.9
GE 600	88.5	89.5	91.4	92.4	94.1	94.7	95.3	96.0	96.2	97.2	97.6	97.6	97.9	98.0	98.0	98.1
GE 500	88.6	89.7	91.5	92.6	94.3	95.0	95.6	96.4	96.6	97.8	98.4	98.4	98.7	98.8	98.8	98.9
GE 400	88.7	89.8	91.7	92.9	94.7	95.3	96.0	96.8	97.1	98.3	98.9	98.9	99.2	99.3	99.3	99.4
GE 300	88.8	89.8	91.8	93.0	94.8	95.5	96.2	97.1	97.3	98.6	99.3	99.3	99.5	99.7	99.7	99.8
GE 200	88.8	89.9	91.8	93.0	94.8	95.5	96.2	97.1	97.4	98.7	99.3	99.4	99.7	99.8	99.8	100.0
GE 100	88.8	89.9	91.8	93.0	94.8	95.5	96.3	97.1	97.4	98.7	99.4	99.4	99.7	99.8	99.9	100.0
GE 000	88.8	89.9	91.8	93.0	94.8	95.5	96.3	97.1	97.4	98.7	99.4	99.4	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A" — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC — FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.9	50.1	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.8	50.9	50.9	50.9	50.9	51.0	51.1
GE 20000	57.2	57.4	57.8	58.4	58.4	58.4	58.4	58.4	58.4	58.5	58.6	58.6	58.6	58.6	58.7	58.8
GE 18000	58.0	58.2	58.6	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.4	59.4	59.4	59.4	59.5	59.6
GE 16000	58.1	58.3	58.7	59.2	59.2	59.2	59.2	59.2	59.2	59.4	59.5	59.5	59.5	59.5	59.6	59.7
GE 14000	58.7	58.9	59.4	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.1	60.1	60.1	60.1	60.2	60.3
GE 12000	62.5	62.7	63.2	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.1	64.1	64.1	64.1	64.2	64.3
GE 10000	71.6	71.8	72.4	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.3	73.3	73.3	73.3	73.4	73.5
GE 9000	72.3	72.5	73.0	73.8	73.8	73.8	73.8	73.8	73.8	73.9	74.0	74.0	74.0	74.0	74.1	74.2
GE 8000	75.9	76.2	76.8	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.8	77.8	77.8	77.8	78.0	78.1
GE 7000	77.3	77.6	78.2	79.0	79.1	79.1	79.1	79.1	79.1	79.2	79.4	79.4	79.4	79.4	79.5	79.6
GE 6000	78.1	78.4	79.0	79.9	80.0	80.0	80.0	80.0	80.0	80.1	80.2	80.2	80.2	80.2	80.3	80.4
GE 5000	80.3	80.6	81.3	82.2	82.3	82.3	82.3	82.3	82.3	82.4	82.5	82.5	82.5	82.5	82.6	82.7
GE 4500	81.2	81.5	82.2	83.0	83.1	83.1	83.1	83.2	83.2	83.3	83.4	83.4	83.4	83.4	83.5	83.7
GE 4000	83.4	83.8	84.6	85.5	85.6	85.7	85.7	85.8	85.8	85.9	86.0	86.0	86.0	86.0	86.1	86.2
GE 3500	84.7	85.2	86.0	87.0	87.1	87.2	87.2	87.3	87.3	87.4	87.5	87.5	87.5	87.5	87.6	87.7
GE 3000	86.5	86.9	88.1	89.0	89.6	89.7	89.7	89.8	89.8	89.9	90.0	90.0	90.0	90.0	90.1	90.2
GE 2500	87.3	87.8	89.1	90.3	90.9	91.0	91.3	91.4	91.5	91.6	91.7	91.7	91.7	91.7	91.8	91.9
GE 2000	87.7	88.3	89.8	91.0	91.5	91.6	92.0	92.2	92.3	92.4	92.5	92.5	92.5	92.5	92.6	92.7
GE 1800	87.8	88.5	90.0	91.2	91.8	91.9	92.4	92.6	92.7	92.8	92.9	92.9	92.9	92.9	93.0	93.1
GE 1500	88.1	88.8	90.3	91.7	92.9	93.0	93.4	93.7	93.8	94.1	94.2	94.2	94.2	94.2	94.3	94.4
GE 1200	88.1	89.0	90.6	92.2	93.4	93.5	94.2	94.5	94.6	94.9	95.2	95.2	95.2	95.2	95.3	95.4
GE 1000	88.2	89.1	90.8	92.4	94.1	94.2	94.9	95.3	95.4	96.0	96.3	96.3	96.3	96.3	96.5	96.6
GE 900	88.2	89.1	90.8	92.4	94.1	94.2	95.1	95.7	95.9	96.8	97.1	97.1	97.1	97.1	97.2	97.3
GE 800	88.2	89.2	91.0	92.6	94.3	94.5	95.4	96.0	96.2	97.3	97.6	97.6	97.8	97.8	98.0	98.1
GE 700	88.2	89.2	91.0	92.6	94.6	94.8	95.7	96.3	96.6	97.6	98.0	98.0	98.2	98.2	98.3	98.4
GE 600	88.2	89.2	91.0	92.6	94.6	94.8	95.8	96.6	96.8	97.8	98.3	98.3	98.5	98.5	98.6	98.7
GE 500	88.2	89.2	91.2	92.8	94.8	95.1	96.1	97.1	97.3	98.4	98.8	98.8	99.0	99.0	99.1	99.2
GE 400	88.2	89.2	91.2	92.8	94.8	95.1	96.1	97.2	97.4	98.5	98.9	98.9	99.1	99.1	99.2	99.4
GE 300	88.2	89.2	91.2	92.8	94.8	95.2	96.3	97.4	97.6	98.8	99.2	99.2	99.5	99.5	99.6	99.7
GE 200	88.2	89.2	91.2	92.8	94.8	95.2	96.3	97.4	97.6	98.9	99.4	99.4	99.6	99.6	99.7	99.8
GE 100	88.2	89.2	91.2	92.8	94.8	95.2	96.3	97.4	97.6	98.9	99.4	99.4	99.6	99.7	99.8	99.9
GE 000	88.2	89.2	91.2	92.8	94.8	95.2	96.3	97.4	97.6	98.9	99.4	99.4	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.7	51.9	51.9	52.0	52.2	52.2	52.2	52.5	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.8
GE 20000	59.8	60.0	60.0	60.1	60.2	60.2	60.2	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.9
GE 18000	60.0	60.2	60.2	60.3	60.4	60.4	60.4	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	61.1
GE 16000	60.2	60.4	60.4	60.5	60.6	60.6	60.6	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.3
GE 14000	61.2	61.4	61.4	61.5	61.6	61.6	61.6	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.3
GE 12000	63.7	63.9	63.9	64.0	64.1	64.1	64.1	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.7
GE 10000	70.5	70.8	70.8	70.9	71.0	71.0	71.0	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.6
GE 9000	71.8	72.0	72.0	72.2	72.3	72.3	72.3	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.9
GE 8000	77.0	77.4	77.4	77.5	77.6	77.6	77.8	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.5
GE 7000	77.6	78.1	78.1	78.2	78.3	78.3	78.5	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	79.1
GE 6000	78.3	78.7	78.7	78.8	78.9	78.9	79.1	79.5	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.8
GE 5000	81.3	81.7	81.7	81.8	81.9	81.9	82.2	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.8
GE 4500	82.5	83.0	83.0	83.1	83.2	83.2	83.4	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	84.1
GE 4000	85.2	85.7	85.7	85.8	85.9	85.9	86.1	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.8
GE 3500	86.6	87.1	87.2	87.3	87.4	87.4	87.6	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.3
GE 3000	88.5	89.0	89.4	89.5	90.0	90.0	90.2	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.9
GE 2500	89.1	89.8	90.1	90.3	90.9	90.9	91.1	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.7
GE 2000	90.0	90.6	91.2	91.6	92.2	92.3	92.8	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.4
GE 1800	90.0	90.6	91.4	91.8	92.4	92.5	93.0	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.7
GE 1500	90.2	90.9	91.9	92.5	93.1	93.2	93.9	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.7
GE 1200	90.4	91.1	92.3	92.8	93.7	93.8	94.4	94.8	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.4
GE 1000	90.4	91.2	92.5	93.0	94.2	94.3	95.2	95.7	95.9	96.3	96.5	96.5	96.6	96.6	96.6	96.8
GE 900	90.5	91.4	92.8	93.3	94.6	94.7	95.7	96.2	96.5	97.0	97.1	97.1	97.2	97.2	97.2	97.4
GE 800	90.6	91.5	93.0	93.7	95.1	95.2	96.3	96.9	97.1	98.3	98.4	98.4	98.5	98.5	98.5	98.7
GE 700	90.6	91.5	93.0	93.7	95.1	95.2	96.3	96.9	97.1	98.4	98.6	98.6	98.7	98.7	98.7	98.9
GE 600	90.6	91.5	93.0	93.7	95.1	95.2	96.3	96.9	97.1	98.4	98.6	98.6	98.7	98.7	98.7	98.9
GE 500	90.8	91.6	93.3	94.0	95.4	95.5	96.9	97.5	97.8	99.1	99.4	99.4	99.5	99.5	99.5	99.7
GE 400	90.8	91.6	93.3	94.0	95.4	95.5	96.9	97.5	97.8	99.1	99.4	99.4	99.5	99.5	99.5	99.7
GE 300	90.8	91.6	93.3	94.0	95.4	95.5	96.9	97.5	97.8	99.1	99.4	99.4	99.5	99.5	99.5	99.7
GE 200	90.8	91.6	93.3	94.0	95.4	95.5	96.9	97.5	97.8	99.1	99.4	99.4	99.5	99.5	99.5	99.7
GE 100	90.8	91.6	93.3	94.0	95.4	95.5	96.9	97.5	97.8	99.1	99.4	99.4	99.5	99.7	99.7	99.9
GE 000	90.8	91.6	93.3	94.0	95.4	95.5	96.9	97.5	97.8	99.1	99.4	99.4	99.5	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.2	49.6	49.8	49.9	49.9	50.0	50.0	50.1	50.2	50.3	50.3	50.3	50.4	50.4	50.4	50.4
GE 20000	57.5	57.8	58.1	58.2	58.2	58.3	58.3	58.4	58.5	58.6	58.6	58.6	58.7	58.7	58.7	58.7
GE 18000	58.0	58.3	58.5	58.6	58.6	58.7	58.7	58.8	58.9	59.0	59.0	59.0	59.1	59.1	59.1	59.1
GE 16000	58.2	58.5	58.7	58.8	58.8	58.9	58.9	59.0	59.1	59.2	59.2	59.2	59.4	59.4	59.4	59.4
GE 14000	60.0	60.3	60.5	60.6	60.6	60.8	60.8	60.9	61.0	61.1	61.1	61.1	61.2	61.2	61.2	61.2
GE 12000	62.2	62.6	62.8	62.9	62.9	63.0	63.0	63.1	63.2	63.3	63.3	63.3	63.4	63.4	63.4	63.4
GE 10000	70.1	70.6	70.9	71.0	71.0	71.1	71.1	71.2	71.3	71.4	71.4	71.4	71.5	71.5	71.5	71.5
GE 9000	71.5	72.0	72.3	72.4	72.5	72.6	72.6	72.7	72.8	72.9	72.9	72.9	73.0	73.0	73.0	73.0
GE 8000	76.2	77.0	77.2	77.4	77.7	78.0	78.1	78.2	78.3	78.4	78.4	78.4	78.5	78.5	78.5	78.5
GE 7000	78.0	78.7	78.9	79.2	79.6	79.8	79.9	80.0	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3
GE 6000	79.1	79.9	80.1	80.4	80.8	81.0	81.1	81.2	81.3	81.4	81.4	81.4	81.5	81.5	81.5	81.5
GE 5000	81.1	81.8	82.0	82.4	82.7	82.9	83.0	83.1	83.2	83.3	83.3	83.3	83.4	83.4	83.4	83.4
GE 4500	82.3	83.0	83.2	83.5	83.9	84.1	84.2	84.3	84.4	84.5	84.5	84.5	84.6	84.6	84.6	84.6
GE 4000	85.1	85.8	86.1	86.5	86.8	87.0	87.1	87.2	87.3	87.4	87.4	87.4	87.5	87.5	87.5	87.5
GE 3500	85.8	86.8	87.2	87.6	88.1	88.4	88.5	88.6	88.7	88.8	88.8	88.8	88.9	88.9	88.9	88.9
GE 3000	87.6	88.6	89.0	89.5	90.0	90.4	90.6	90.8	90.9	91.0	91.0	91.0	91.1	91.1	91.1	91.1
GE 2500	88.3	89.4	89.9	90.4	91.1	91.5	91.7	91.8	91.9	92.0	92.0	92.0	92.2	92.2	92.2	92.2
GE 2000	89.4	90.4	91.2	91.8	92.5	92.9	93.3	93.4	93.5	93.8	93.8	93.8	93.9	93.9	93.9	93.9
GE 1800	89.4	90.4	91.3	92.0	92.7	93.1	93.5	93.7	93.9	94.1	94.1	94.1	94.2	94.2	94.2	94.2
GE 1500	89.9	91.0	92.2	92.9	93.9	94.3	95.1	95.3	95.6	95.8	95.8	95.8	95.9	95.9	95.9	95.9
GE 1200	90.1	91.2	92.4	93.2	94.3	94.7	95.7	95.9	96.5	96.7	96.8	96.8	96.9	96.9	96.9	96.9
GE 1000	90.2	91.3	92.5	93.3	94.4	94.9	95.9	96.3	96.9	97.4	97.5	97.5	97.7	97.7	97.7	97.7
GE 900	90.2	91.3	92.5	93.4	94.5	95.1	96.0	96.5	97.0	97.5	97.6	97.6	97.8	97.8	97.8	97.8
GE 800	90.2	91.3	92.7	93.7	94.8	95.4	96.3	96.9	97.4	98.3	98.4	98.4	98.6	98.6	98.6	98.6
GE 700	90.2	91.3	92.7	93.7	94.8	95.4	96.3	96.9	97.4	98.3	98.5	98.5	98.7	98.7	98.7	98.7
GE 600	90.3	91.4	92.8	93.8	94.9	95.5	96.5	97.4	98.0	98.8	99.0	99.0	99.2	99.2	99.2	99.2
GE 500	90.4	91.5	92.9	93.9	95.1	95.6	96.6	97.5	98.2	99.0	99.2	99.2	99.5	99.5	99.5	99.5
GE 400	90.4	91.5	92.9	93.9	95.1	95.6	96.6	97.5	98.4	99.2	99.5	99.5	99.7	99.7	99.7	99.7
GE 300	90.4	91.5	92.9	93.9	95.1	95.6	96.6	97.5	98.4	99.2	99.5	99.5	99.7	99.7	99.7	99.8
GE 200	90.4	91.5	92.9	93.9	95.1	95.6	96.6	97.6	98.5	99.4	99.6	99.6	99.8	99.8	99.8	99.9
GE 100	90.4	91.5	92.9	93.9	95.1	95.6	96.6	97.6	98.5	99.4	99.6	99.6	99.8	99.9	99.9	100.0
GE 000	90.4	91.5	92.9	93.9	95.1	95.6	96.6	97.6	98.5	99.4	99.6	99.6	99.8	99.9	99.9	100.0

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.5	43.5	44.0	44.2	44.8	44.8	44.8	44.9	44.9	44.9	45.1	45.1	45.2	45.2	45.3	45.3
GE 20000	52.6	52.6	53.0	53.2	53.9	53.9	53.9	54.0	54.0	54.0	54.1	54.1	54.2	54.2	54.3	54.3
GE 18000	53.8	53.8	54.2	54.4	55.2	55.2	55.2	55.3	55.3	55.3	55.4	55.4	55.5	55.5	55.6	55.6
GE 16000	54.5	54.5	54.9	55.2	55.9	55.9	55.9	56.0	56.0	56.0	56.1	56.1	56.2	56.2	56.3	56.3
GE 14000	57.0	57.0	57.4	57.6	58.4	58.4	58.4	58.5	58.5	58.5	58.6	58.6	58.7	58.7	58.8	58.8
GE 12000	62.8	62.8	63.3	63.5	64.3	64.3	64.3	64.4	64.4	64.4	64.5	64.5	64.7	64.7	64.8	64.8
GE 10000	71.3	71.5	72.2	72.4	73.1	73.1	73.1	73.2	73.2	73.2	73.3	73.3	73.5	73.5	73.7	73.7
GE 9000	72.8	73.0	73.8	74.0	74.7	74.7	74.7	74.8	74.8	74.8	74.9	74.9	75.2	75.2	75.3	75.3
GE 8000	78.2	78.4	79.1	79.4	80.4	80.4	80.6	80.8	80.8	80.9	81.0	81.0	81.2	81.2	81.3	81.3
GE 7000	79.8	80.0	80.8	81.1	82.2	82.2	82.4	82.5	82.5	82.6	82.7	82.7	82.9	82.9	83.0	83.0
GE 6000	81.5	81.7	82.5	82.8	83.9	83.9	84.1	84.2	84.2	84.3	84.4	84.4	84.6	84.6	84.7	84.7
GE 5000	82.6	82.8	83.5	84.0	85.1	85.1	85.4	85.5	85.5	85.6	85.7	85.7	85.9	85.9	86.0	86.0
GE 4500	83.1	83.3	84.2	84.6	85.8	85.8	86.1	86.2	86.2	86.3	86.5	86.5	86.7	86.7	86.8	86.8
GE 4000	84.9	85.2	86.0	86.7	88.0	88.0	88.3	88.4	88.4	88.5	88.6	88.6	88.8	88.8	88.9	88.9
GE 3500	85.2	85.7	86.6	87.2	88.5	88.8	89.1	89.2	89.2	89.4	89.5	89.5	89.7	89.7	89.8	89.8
GE 3000	85.8	86.3	87.4	88.2	89.5	89.8	90.4	90.5	90.5	90.6	90.8	90.8	91.0	91.0	91.1	91.2
GE 2500	86.3	86.9	88.3	89.2	90.5	90.9	91.7	91.9	91.9	92.0	92.2	92.2	92.4	92.4	92.5	92.6
GE 2000	87.4	88.1	89.6	90.8	92.2	92.5	93.4	93.7	94.0	94.1	94.2	94.2	94.4	94.4	94.5	94.6
GE 1800	87.4	88.1	89.6	90.8	92.2	92.5	93.4	93.7	94.0	94.1	94.2	94.2	94.4	94.4	94.5	94.6
GE 1500	87.7	88.4	90.0	91.3	92.8	93.3	94.6	94.9	95.3	95.5	95.7	95.7	95.9	95.9	96.0	96.1
GE 1200	87.8	88.5	90.1	91.4	92.9	93.4	94.8	95.2	95.6	95.9	96.1	96.1	96.3	96.3	96.5	96.6
GE 1000	88.0	88.6	90.2	91.6	93.1	93.7	95.2	95.5	95.9	96.5	96.7	96.7	97.1	97.1	97.3	97.4
GE 900	88.0	88.6	90.2	91.6	93.1	93.7	95.2	95.5	95.9	96.5	96.7	96.7	97.1	97.1	97.3	97.4
GE 800	88.1	88.7	90.3	91.7	93.2	93.8	95.4	95.7	96.1	97.2	97.4	97.4	97.8	97.8	98.1	98.2
GE 700	88.1	88.7	90.3	91.7	93.2	93.8	95.4	95.7	96.1	97.2	97.4	97.4	97.8	97.8	98.1	98.2
GE 600	88.1	88.7	90.3	91.7	93.3	93.9	95.5	95.9	96.5	97.5	97.7	97.7	98.2	98.4	98.6	98.7
GE 500	88.1	88.7	90.3	91.7	93.4	94.0	95.7	96.1	96.7	97.7	98.4	98.4	98.8	99.1	99.4	99.5
GE 400	88.1	88.7	90.3	91.7	93.4	94.0	95.7	96.1	96.7	97.7	98.4	98.4	98.9	99.2	99.5	99.6
GE 300	88.1	88.7	90.3	91.8	93.5	94.1	95.8	96.2	96.8	97.8	98.5	98.5	99.0	99.4	99.6	99.7
GE 200	88.1	88.7	90.3	91.8	93.7	94.2	95.9	96.3	96.9	98.0	98.6	98.6	99.1	99.5	99.7	99.8
GE 100	88.1	88.7	90.3	91.8	93.7	94.2	95.9	96.3	96.9	98.0	98.6	98.6	99.1	99.5	99.7	99.9
GE 000	88.1	88.7	90.3	91.8	93.7	94.2	95.9	96.3	96.9	98.0	98.6	98.6	99.1	99.6	99.8	100.0

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.5	46.6	46.8	47.0	47.4	48.0	48.0	48.1	48.1	48.1	48.1	48.1	48.2	48.2	48.2	48.2
GE 20000	54.2	54.4	54.6	54.9	55.4	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1
GE 18000	55.5	55.7	55.9	56.2	56.7	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.4
GE 16000	56.5	56.7	56.9	57.2	57.6	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.4	58.4	58.4	58.4
GE 14000	58.5	58.7	58.9	59.2	59.7	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.4	60.4	60.4	60.4
GE 12000	64.4	64.6	64.8	65.2	65.6	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.5	66.5	66.5	66.5
GE 10000	74.6	74.9	75.3	75.6	76.1	76.7	76.8	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
GE 9000	76.8	77.1	77.4	77.7	78.3	78.8	78.9	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1
GE 8000	80.3	80.6	81.0	81.3	81.8	82.4	82.5	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7
GE 7000	81.0	81.3	81.6	81.9	82.5	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3
GE 6000	82.6	82.9	83.2	83.5	84.1	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9
GE 5000	83.3	83.7	84.0	84.3	85.1	85.6	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1
GE 4500	84.2	84.5	84.8	85.2	85.9	86.5	86.8	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0
GE 4000	85.3	85.6	86.0	86.3	87.2	87.7	88.1	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.3
GE 3500	85.6	86.1	86.6	87.0	88.2	88.7	89.1	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.4	89.4
GE 3000	86.0	86.8	87.5	88.1	89.3	90.3	90.8	90.9	90.9	91.0	91.0	91.0	91.1	91.1	91.1	91.1
GE 2500	87.0	87.7	88.8	89.5	91.4	91.9	92.4	92.5	92.5	92.6	92.6	92.6	92.7	92.7	92.7	92.7
GE 2000	87.4	88.3	89.4	90.1	92.0	92.6	93.0	93.4	93.4	93.7	93.7	93.7	93.8	93.8	93.8	93.8
GE 1800	87.7	88.7	89.9	90.6	92.6	93.1	93.5	94.0	94.0	94.2	94.2	94.2	94.3	94.3	94.3	94.3
GE 1500	88.0	88.9	90.1	91.1	93.2	93.8	94.6	95.3	95.3	96.1	96.1	96.1	96.2	96.2	96.2	96.2
GE 1200	88.0	89.0	90.2	91.4	93.5	94.1	94.9	95.6	95.6	96.5	96.8	96.8	96.9	96.9	96.9	96.9
GE 1000	88.0	89.0	90.2	91.4	93.5	94.1	94.9	95.8	95.8	97.0	97.3	97.3	97.8	98.0	98.1	98.1
GE 900	88.1	89.1	90.3	91.5	93.7	94.2	95.1	95.9	95.9	97.1	97.4	97.5	98.1	98.2	98.3	98.3
GE 800	88.3	89.4	90.5	91.7	93.9	94.4	95.4	96.3	96.3	97.6	98.0	98.1	98.6	98.7	98.8	98.8
GE 700	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.5	96.5	97.7	98.1	98.2	98.8	98.9	99.0	99.0
GE 600	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.6	96.7	98.2	98.5	98.6	99.2	99.4	99.5	99.5
GE 500	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.7	96.8	98.4	98.7	98.8	99.5	99.7	99.8	99.8
GE 400	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.7	96.8	98.4	98.7	98.9	99.6	99.9	100.0	100.0
GE 300	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.7	96.8	98.4	98.7	98.9	99.6	99.9	100.0	100.0
GE 200	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.7	96.8	98.4	98.7	98.9	99.6	99.9	100.0	100.0
GE 100	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.7	96.8	98.4	98.7	98.9	99.6	99.9	100.0	100.0
GE 000	88.3	89.4	90.5	91.7	94.0	94.5	95.5	96.7	96.8	98.4	98.7	98.9	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	45.9	46.6	46.8	46.9	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 20000	55.4	56.0	56.2	56.3	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
GE 18000	56.0	56.7	57.0	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 16000	57.2	57.8	58.2	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 14000	59.4	60.0	60.3	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 12000	64.7	65.4	65.7	65.9	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 10000	72.6	73.2	73.5	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 9000	74.2	74.8	75.3	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 8000	78.4	79.1	79.7	80.0	80.1	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 7000	79.4	80.2	80.8	81.1	81.3	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 6000	80.6	81.6	82.3	82.6	82.8	83.1	83.2	83.3	83.3	83.3	83.3	83.3	83.5	83.5	83.5	83.5
GE 5000	82.8	83.8	84.6	84.9	85.3	85.6	86.0	86.1	86.1	86.1	86.1	86.1	86.3	86.3	86.3	86.3
GE 4500	83.9	84.8	85.7	86.0	86.3	86.7	87.1	87.3	87.3	87.3	87.3	87.3	87.5	87.5	87.5	87.5
GE 4000	85.6	86.6	87.7	88.1	88.4	88.7	89.1	89.4	89.5	89.5	89.5	89.5	89.7	89.7	89.7	89.7
GE 3500	86.2	87.3	88.6	88.9	89.2	89.6	90.1	90.3	90.4	90.4	90.4	90.4	90.6	90.6	90.6	90.6
GE 3000	87.4	88.5	89.8	90.1	91.0	91.4	92.2	92.4	92.5	92.6	92.6	92.6	92.8	92.8	92.8	92.8
GE 2500	87.5	88.7	90.1	90.4	91.5	91.9	92.8	93.0	93.1	93.3	93.3	93.3	93.5	93.5	93.5	93.5
GE 2000	87.7	89.1	90.8	91.1	92.3	92.7	93.7	93.9	94.1	94.4	94.4	94.4	94.6	94.6	94.6	94.6
GE 1800	87.7	89.2	90.9	91.2	92.4	92.8	93.8	94.0	94.2	94.5	94.5	94.5	94.7	94.7	94.7	94.7
GE 1500	88.2	89.7	91.5	92.0	93.2	93.7	94.7	94.9	95.2	95.5	95.6	95.6	95.8	95.8	95.8	95.8
GE 1200	88.3	89.8	91.6	92.2	93.7	94.2	95.5	95.8	96.0	96.5	96.6	96.6	96.8	96.8	96.8	96.8
GE 1000	88.5	90.0	91.8	92.5	94.2	94.7	96.0	96.7	97.0	97.5	98.1	98.1	98.4	98.4	98.5	98.5
GE 900	88.5	90.0	91.8	92.5	94.2	94.7	96.0	96.7	97.0	98.0	98.5	98.5	98.8	98.8	98.9	98.9
GE 800	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.4	98.9	98.9	99.2	99.2	99.4	99.4
GE 700	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.5	99.0	99.0	99.4	99.4	99.5	99.5
GE 600	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.6	99.1	99.1	99.6	99.6	99.7	99.7
GE 500	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.6	99.1	99.1	99.6	99.6	99.7	99.7
GE 400	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.6	99.1	99.2	99.7	99.8	99.9	99.9
GE 300	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.6	99.1	99.2	99.7	99.8	100.0	100.0
GE 200	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.6	99.1	99.2	99.7	99.8	100.0	100.0
GE 100	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.6	99.1	99.2	99.7	99.8	100.0	100.0
GE 000	88.7	90.2	92.0	92.7	94.4	94.9	96.3	97.0	97.4	98.6	99.1	99.2	99.7	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES: GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.1	49.6	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.9
GE 20000	58.0	58.4	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.7
GE 18000	58.8	59.2	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.6
GE 16000	59.1	59.6	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.9
GE 14000	61.0	61.4	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7
GE 12000	64.9	65.4	65.6	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.1
GE 10000	72.4	72.8	73.0	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.5
GE 9000	74.3	74.7	74.9	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.5
GE 8000	78.9	79.4	79.6	79.8	79.9	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.4
GE 7000	80.4	80.9	81.1	81.3	81.5	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	82.0
GE 6000	81.7	82.2	82.5	82.8	83.0	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.5
GE 5000	83.9	84.3	84.9	85.4	85.7	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.3
GE 4500	84.5	84.9	85.6	86.0	86.3	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	87.0
GE 4000	86.9	87.3	88.0	88.5	88.9	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.6
GE 3500	87.8	88.3	89.0	89.9	90.3	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	91.0
GE 3000	88.9	89.5	90.5	91.6	92.9	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.7
GE 2500	88.9	89.5	90.5	91.6	92.9	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.8
GE 2000	89.7	90.2	91.4	92.6	94.1	94.4	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.1
GE 1800	89.7	90.2	91.4	92.6	94.1	94.4	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.1
GE 1500	90.1	90.6	92.0	93.2	94.8	95.4	95.8	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.5
GE 1200	90.6	91.2	92.8	94.0	95.6	96.1	96.7	97.1	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.6
GE 1000	90.6	91.2	92.8	94.0	95.6	96.1	96.7	97.2	97.4	97.7	98.4	98.4	98.5	98.5	98.5	98.7
GE 900	91.0	91.5	93.1	94.3	95.9	96.5	97.0	97.5	97.7	98.1	98.7	98.7	98.8	98.8	98.8	99.0
GE 800	91.0	91.5	93.1	94.3	96.2	96.8	97.3	97.8	98.1	98.5	99.1	99.1	99.4	99.4	99.4	99.6
GE 700	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.2	98.4	98.8	99.5	99.5	99.7	99.7	99.7	99.9
GE 600	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.2	98.4	98.8	99.5	99.5	99.7	99.7	99.7	99.9
GE 500	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.2	98.4	98.8	99.5	99.5	99.7	99.7	99.7	99.9
GE 400	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.3	98.5	98.9	99.6	99.6	99.8	99.8	99.8	100.0
GE 300	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.3	98.5	98.9	99.6	99.6	99.8	99.8	99.8	100.0
GE 200	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.3	98.5	98.9	99.6	99.6	99.8	99.8	99.8	100.0
GE 100	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.3	98.5	98.9	99.6	99.6	99.8	99.8	99.8	100.0
GE 000	91.0	91.5	93.1	94.4	96.6	97.1	97.6	98.3	98.5	98.9	99.6	99.6	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.8	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.3
GE 20000	61.5	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.2	62.2	62.2	62.2
GE 18000	61.7	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4
GE 16000	61.7	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4
GE 14000	62.5	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1
GE 12000	66.9	67.3	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6
GE 10000	74.5	74.9	75.1	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5
GE 9000	75.1	75.5	75.6	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0
GE 8000	78.2	78.7	78.8	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.4	79.4	79.4	79.4
GE 7000	79.2	79.8	79.9	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4
GE 6000	80.1	80.6	80.9	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4
GE 5000	81.9	82.5	82.8	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4
GE 4500	83.2	83.8	84.1	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7
GE 4000	85.3	86.0	86.3	87.0	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4
GE 3500	87.3	88.1	88.6	89.6	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1
GE 3000	89.0	89.8	90.4	91.6	92.2	92.2	92.3	92.4	92.4	92.4	92.4	92.4	92.5	92.5	92.5	92.5
GE 2500	89.2	90.2	90.9	92.2	92.7	92.7	92.9	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1
GE 2000	89.5	90.4	91.1	92.4	93.1	93.1	93.3	93.4	93.5	93.5	93.5	93.5	93.7	93.7	93.7	93.7
GE 1800	89.7	90.9	91.5	92.3	93.5	93.5	93.8	94.0	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2
GE 1500	90.2	91.6	92.3	93.5	94.5	94.7	95.2	95.5	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9
GE 1200	90.2	91.6	92.6	93.9	95.1	95.3	95.7	96.3	96.7	96.8	96.9	96.9	97.0	97.0	97.0	97.0
GE 1000	90.2	91.7	92.7	94.0	95.4	95.6	96.0	96.9	97.2	97.6	98.0	98.0	98.1	98.1	98.1	98.1
GE 900	90.3	91.8	92.8	94.1	95.5	95.7	96.1	97.0	97.4	97.8	98.2	98.2	98.3	98.3	98.3	98.3
GE 800	90.3	91.8	92.8	94.1	95.5	95.7	96.1	97.2	97.6	98.4	98.7	98.7	98.8	98.8	98.8	98.8
GE 700	90.4	92.0	93.1	94.6	96.0	96.2	96.7	97.7	98.2	98.9	99.2	99.2	99.4	99.4	99.4	99.4
GE 600	90.4	92.0	93.1	94.7	96.1	96.3	96.8	97.8	98.3	99.0	99.4	99.4	99.5	99.5	99.5	99.5
GE 500	90.5	92.2	93.2	94.8	96.5	96.9	97.3	98.4	98.9	99.6	99.9	99.9	100.0	100.0	100.0	100.0
GE 400	90.5	92.2	93.2	94.8	96.5	96.9	97.3	98.4	98.8	99.6	99.9	99.9	100.0	100.0	100.0	100.0
GE 300	90.5	92.2	93.2	94.8	96.5	96.9	97.3	98.4	98.8	99.6	99.9	99.9	100.0	100.0	100.0	100.0
GE 200	90.5	92.2	93.2	94.8	96.5	96.9	97.3	98.4	98.8	99.6	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	90.5	92.2	93.2	94.3	96.5	96.9	97.3	98.4	98.8	99.6	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	90.5	92.2	93.2	94.8	96.5	96.9	97.3	98.4	98.8	99.6	99.9	99.9	100.0	100.0	100.0	100.0

FORM NO 4.3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: DEC HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.7	49.0	49.2	49.3	49.5	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.8	49.8	49.8	49.9
GE 20000	57.0	57.3	57.5	57.7	57.9	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.2	58.2	58.2	58.3
GE 18000	57.7	58.0	58.2	58.4	58.6	58.7	58.7	58.8	58.8	58.8	58.9	58.9	58.9	58.9	58.9	59.0
GE 16000	58.2	58.5	58.7	58.9	59.1	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.4	59.4	59.4	59.5
GE 14000	59.8	60.1	60.3	60.5	60.7	60.8	60.8	60.8	60.8	60.9	60.9	60.9	61.0	61.0	61.0	61.0
GE 12000	64.0	64.3	64.6	64.8	65.0	65.1	65.1	65.2	65.2	65.3	65.3	65.3	65.4	65.4	65.4	65.5
GE 10000	72.2	72.6	72.9	73.1	73.3	73.5	73.5	73.5	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.8
GE 9000	73.6	74.0	74.3	74.6	74.8	74.9	74.9	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.2
GE 8000	77.9	78.4	78.7	79.0	79.3	79.5	79.6	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.9	79.9
GE 7000	79.1	79.6	79.9	80.3	80.6	80.8	80.9	81.0	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.2
GE 6000	80.3	80.8	81.1	81.5	81.8	82.0	82.1	82.2	82.2	82.3	82.3	82.3	82.4	82.4	82.4	82.5
GE 5000	82.2	82.6	83.1	83.5	83.9	84.1	84.3	84.4	84.4	84.4	84.5	84.5	84.6	84.6	84.6	84.7
GE 4500	83.1	83.6	84.1	84.5	84.9	85.1	85.3	85.4	85.4	85.4	85.5	85.5	85.6	85.6	85.6	85.7
GE 4000	85.2	85.7	86.3	86.8	87.2	87.4	87.6	87.8	87.8	87.8	87.9	87.9	88.0	88.0	88.0	88.1
GE 3500	86.2	86.8	87.5	88.1	88.6	88.8	89.0	89.2	89.2	89.2	89.3	89.3	89.4	89.4	89.4	89.5
GE 3000	87.5	88.2	89.0	89.7	90.6	90.9	91.2	91.3	91.4	91.4	91.5	91.5	91.6	91.6	91.6	91.7
GE 2500	88.0	88.8	89.7	90.5	91.5	91.7	92.2	92.3	92.4	92.4	92.5	92.5	92.6	92.6	92.6	92.7
GE 2000	88.6	89.4	90.5	91.4	92.5	92.8	93.3	93.5	93.6	93.7	93.8	93.8	93.9	93.9	93.9	94.0
GE 1800	88.7	89.6	90.7	91.6	92.7	93.0	93.5	93.7	93.9	94.0	94.0	94.0	94.1	94.1	94.2	94.2
GE 1500	89.0	90.0	91.3	92.3	93.6	93.9	94.7	95.0	95.2	95.4	95.5	95.5	95.6	95.6	95.6	95.7
GE 1200	89.2	90.2	91.6	92.6	94.0	94.4	95.2	95.7	95.9	96.2	96.4	96.4	96.5	96.5	96.5	96.6
GE 1000	89.3	90.3	91.7	92.8	94.3	94.7	95.5	96.2	96.4	97.0	97.3	97.3	97.6	97.6	97.6	97.7
GE 900	89.3	90.4	91.8	92.9	94.4	94.8	95.8	96.4	96.7	97.3	97.7	97.7	97.9	97.9	98.0	98.1
GE 800	89.4	90.5	91.9	93.1	94.7	95.1	96.1	96.7	97.0	98.0	98.3	98.3	98.6	98.6	98.7	98.8
GE 700	89.4	90.5	92.0	93.1	94.8	95.2	96.2	96.9	97.2	98.2	98.5	98.5	98.8	98.8	98.9	99.0
GE 600	89.4	90.5	92.0	93.2	94.9	95.3	96.3	97.0	97.4	98.4	98.8	98.8	99.1	99.1	99.2	99.3
GE 500	89.5	90.5	92.1	93.3	95.0	95.4	96.5	97.3	97.7	98.7	99.1	99.1	99.4	99.5	99.6	99.7
GE 400	89.5	90.5	92.1	93.3	95.0	95.4	96.5	97.3	97.7	98.8	99.2	99.2	99.5	99.6	99.7	99.8
GE 300	89.5	90.5	92.1	93.3	95.0	95.5	96.5	97.4	97.8	98.8	99.2	99.3	99.6	99.7	99.8	99.9
GE 200	89.5	90.5	92.1	93.3	95.0	95.5	96.6	97.4	97.8	98.9	99.3	99.3	99.6	99.7	99.8	99.9
GE 100	89.5	90.5	92.1	93.3	95.0	95.5	96.6	97.4	97.8	98.9	99.3	99.3	99.6	99.8	99.9	100.0
GE 000	89.5	90.5	92.1	93.3	95.0	95.5	96.6	97.4	97.8	98.9	99.3	99.3	99.6	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: ALL HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.7	54.8	54.8	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.1
GE 20000	63.1	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.6
GE 18000	63.7	63.7	63.8	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1
GE 16000	64.1	64.2	64.3	64.3	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6
GE 14000	65.7	65.8	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.2
GE 12000	69.2	69.3	69.4	69.4	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.7
GE 10000	75.1	75.2	75.3	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.7
GE 9000	76.1	76.2	76.3	76.4	76.5	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7	76.7
GE 8000	79.1	79.2	79.4	79.5	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.8	79.8
GE 7000	79.9	80.0	80.2	80.3	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.6	80.6
GE 6000	81.2	81.3	81.5	81.6	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9
GE 5000	84.0	84.2	84.4	84.5	84.6	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.9
GE 4500	85.4	85.6	85.8	85.9	86.0	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3
GE 4000	87.6	87.8	88.0	88.2	88.4	88.4	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.7	88.7
GE 3500	88.7	88.9	89.2	89.4	89.6	89.7	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	90.0	90.0
GE 3000	89.8	90.1	90.5	90.8	91.1	91.2	91.3	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.6	91.6
GE 2500	90.7	90.9	91.4	91.8	92.2	92.3	92.4	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.7	92.7
GE 2000	91.3	91.6	92.2	92.6	93.1	93.2	93.4	93.5	93.5	93.6	93.6	93.6	93.7	93.7	93.7	93.7
GE 1800	91.5	91.8	92.4	92.8	93.3	93.4	93.6	93.7	93.8	93.9	93.9	93.9	93.9	93.9	94.0	94.0
GE 1500	92.0	92.3	93.0	93.5	94.1	94.2	94.5	94.7	94.7	94.9	94.9	94.9	95.0	95.0	95.0	95.0
GE 1200	92.4	92.7	93.5	94.0	94.7	94.9	95.2	95.4	95.5	95.7	95.7	95.7	95.8	95.8	95.9	95.9
GE 1000	92.7	93.1	94.0	94.5	95.3	95.5	95.8	96.1	96.2	96.5	96.6	96.6	96.7	96.7	96.7	96.8
GE 900	92.9	93.3	94.2	94.8	95.5	95.7	96.1	96.4	96.5	96.8	96.9	96.9	97.0	97.0	97.1	97.1
GE 800	93.1	93.5	94.4	95.0	95.8	96.0	96.4	96.7	96.9	97.2	97.4	97.4	97.5	97.5	97.5	97.6
GE 700	93.2	93.7	94.6	95.2	96.1	96.3	96.7	97.1	97.3	97.6	97.8	97.8	97.9	97.9	98.0	98.0
GE 600	93.4	93.8	94.8	95.5	96.4	96.6	97.1	97.5	97.7	98.1	98.3	98.3	98.4	98.4	98.5	98.5
GE 500	93.5	94.0	95.0	95.7	96.6	96.9	97.4	97.9	98.1	98.6	98.8	98.8	98.9	99.0	99.0	99.0
GE 400	93.6	94.0	95.1	95.8	96.8	97.0	97.6	98.1	98.3	98.9	99.1	99.1	99.3	99.3	99.4	99.4
GE 300	93.6	94.1	95.1	95.9	96.9	97.1	97.7	98.3	98.5	99.1	99.3	99.3	99.5	99.5	99.6	99.7
GE 200	93.6	94.1	95.1	95.9	96.9	97.2	97.8	98.3	98.5	99.1	99.4	99.4	99.6	99.7	99.8	99.8
GE 100	93.6	94.1	95.1	95.9	96.9	97.2	97.8	98.3	98.6	99.1	99.4	99.4	99.7	99.7	99.8	100.0
GE 000	93.6	94.1	95.1	95.9	96.9	97.2	97.8	98.3	98.6	99.1	99.4	99.4	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 87664

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN HOURS: ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	18.9	29.1	19.0	30.2	2.7	51.9	4.0	930
03-05	18.4	30.0	18.2	30.1	3.3	51.6	3.8	930
06-08	9.5	29.7	25.9	32.3	2.7	60.9	4.8	930
09-11	4.0	28.5	36.3	28.2	3.0	67.5	6.9	930
12-14	3.4	26.9	38.5	29.7	1.5	69.7	8.4	930
15-17	4.6	27.4	37.5	28.2	2.3	68.0	4.7	930
18-20	10.8	28.4	27.4	31.8	1.6	60.9	5.3	930
21-23	18.3	25.7	21.9	30.9	3.2	56.0	4.4	930
ALL HOURS	10.0	28.0	28.0	30.0	2.0	60.0	5.0	7440

MONTH: FEB HOURS: ALL

00-02	15.3	23.2	21.2	36.3	4.0	61.5	4.4	849
03-05	13.0	23.7	24.3	35.0	4.1	63.4	5.3	849
06-08	4.4	26.3	30.3	35.5	3.7	69.4	4.4	849
09-11	2.0	22.0	39.2	34.2	2.6	76.0	7.7	849
12-14	1.9	22.6	42.3	31.0	2.2	75.5	5.9	849
15-17	.8	23.6	41.7	31.9	2.0	75.6	3.5	849
18-20	4.9	25.3	32.9	34.5	2.4	69.7	2.6	849
21-23	12.5	26.5	22.3	35.3	3.4	61.0	4.0	849
ALL HOURS	6.8	24.1	31.8	34.2	3.0	69.0	4.7	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR HOURS:ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	13.2	26.6	20.6	37.5	2.0	60.2	4.5	930
03-05	12.6	24.0	23.5	36.1	3.8	63.4	4.2	930
06-09	2.2	25.2	31.7	35.9	5.1	72.7	5.6	930
09-11	1.3	23.8	34.1	37.0	3.9	74.9	6.3	930
12-14	1.1	21.5	36.2	38.7	2.5	77.4	5.3	930
15-17	.4	18.6	41.0	38.0	2.0	81.0	3.9	930
18-20	2.2	22.2	33.2	40.8	1.7	75.7	3.5	930
21-23	8.4	28.4	23.3	37.7	2.2	63.2	3.5	930
ALL HOURS	5.0	23.0	30.0	37.0	2.0	71.0	4.0	7440

MONTH: APR HOURS: ALL

00-02	18.1	29.6	23.6	26.6	2.2	52.3	1.1	900
03-05	11.9	35.6	23.8	26.4	2.3	52.6	1.0	900
06-08	4.0	28.6	36.3	29.3	1.8	67.4	2.2	900
09-11	2.4	30.9	35.1	30.8	.8	66.7	1.9	900
12-14	.4	28.7	40.0	30.8	.1	70.9	1.6	900
15-17	.2	27.6	40.9	31.2	.1	72.2	.8	900
18-20	.6	31.8	35.6	31.2	.9	67.7	1.0	900
21-23	11.8	35.3	24.3	26.7	1.9	52.9	.8	900
ALL HOURS	6.2	1.0	32.4	29.1	1.3	62.8	1.3	7200

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY HOURS:ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	17.1	30.2	22.8	28.6	1.3	52.7	1.1	930
03-05	8.1	37.4	24.2	29.6	.8	54.5	1.5	930
06-08	2.5	34.3	31.2	31.1	1.0	63.2	1.8	930
09-11	1.2	33.8	31.1	33.5	.4	65.1	1.4	930
12-14		30.1	36.7	32.9	.3	69.9	1.4	930
15-17		27.6	40.3	31.3	.9	72.4	1.3	929
18-20	.9	28.2	37.5	32.6	.9	71.0	.3	927
21-23	10.6	32.4	25.4	30.6	1.1	57.1	.4	927
ALL HOURS	5.0	31.0	31.0	31.0	.0	63.0	1.0	7433

MONTH: JUN HOURS: ALL

00-02	14.3	39.3	23.5	22.9		46.4	.1	899
03-05	5.0	43.6	30.2	21.2		51.4	.1	900
06-08	4.0	41.4	34.8	19.8		54.6	.3	900
09-11	2.4	39.6	37.7	20.3		58.0	.1	900
12-14	1.4	32.3	44.8	21.4		66.2		900
15-17	.7	33.2	45.4	20.7		66.1		900
18-20	.8	36.2	43.0	20.0		63.0		900
21-23	6.3	38.4	32.3	22.9		55.2		900
ALL HOURS	4.4	38.0	36.5	21.2		57.6	.1	7199

FORM NO 413 3

OPERATING LOCATION "A"
USAFETAC: ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL HOURS:ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	21.2	41.0	23.5	14.3		37.8	.1	930
03-05	10.8	50.4	26.5	12.2	.2	38.8	.2	930
06-08	6.8	50.2	32.5	10.5		43.0	.3	930
09-11	4.6	56.1	27.2	12.0		39.2		930
12-14	1.2	54.5	32.7	11.6		44.3		930
15-17	.6	51.2	35.4	12.8		48.2		930
18-20	2.2	45.4	39.6	12.9		52.5		930
21-23	10.5	43.0	34.3	12.2		46.5		930
ALL HOURS	7.0	48.0	31.0	12.0	.0	43.0	.0	7440

MONTH: AUG HOURS: ALL

00-02	24.9	37.7	22.8	14.5		37.3		930
03-05	17.1	50.0	20.9	12.0		32.9		930
06-08	5.6	51.3	31.0	12.2		43.1	.4	930
09-11	4.2	51.9	28.9	14.9		43.9	.2	930
12-14	2.2	51.8	33.4	12.6		46.0	.3	930
15-17	.1	48.1	38.3	13.5		51.8	.3	930
18-20	1.7	44.7	40.8	12.8		53.5	.5	930
21-23	14.1	43.2	28.5	14.2		42.7		930
ALL HOURS	8.7	47.4	30.6	13.3		43.9	.2	7440

FORM NO 418

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP HOURS:ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	23.9	31.9	16.0	27.8	.4	44.2	.9	900
03-05	20.2	36.7	16.6	25.2	1.3	43.1	.9	900
06-08	5.6	40.4	30.6	22.9	.6	54.0	2.0	900
09-11	5.9	40.0	30.8	23.1	.2	54.1	1.8	900
12-14	4.9	38.0	32.8	24.3		57.1	1.4	900
15-17	3.9	37.9	36.0	22.1	.1	58.2	.8	900
18-20	6.0	38.1	33.2	22.3	.3	55.9	.4	900
21-23	17.9	35.1	19.6	27.1	.3	47.0	.7	900
ALL HOURS	11.0	37.0	26.0	24.0	.0	51.0	1.0	7200

MONTH: OCT HOURS: ALL

00-02	26.3	31.5	17.2	24.3	.6	42.2	1.1	930
03-05	24.2	30.6	17.6	26.3	1.2	45.2	1.2	930
06-08	5.7	37.4	31.4	24.0	1.5	56.9	1.8	930
09-11	3.2	39.7	34.2	21.5	1.4	57.1	1.5	930
12-14	2.4	36.8	35.8	24.3	.8	60.9	1.1	930
15-17	2.2	36.1	36.7	24.5	.5	61.7	1.0	930
18-20	9.4	35.3	31.9	23.2	.2	55.4	1.0	930
21-23	21.6	32.0	20.8	25.6		46.3	1.1	930
ALL HOURS	11.9	34.9	28.2	24.2	.8	53.2	1.2	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV HOURS: ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	19.7	28.4	16.7	32.8	2.4	51.9	2.8	900
03-05	19.0	27.0	20.4	31.1	2.4	54.0	3.4	900
06-08	8.0	27.6	31.9	29.3	3.2	64.4	3.6	900
09-11	3.6	28.6	34.0	30.7	3.2	67.9	4.4	900
12-14	2.4	28.1	37.0	29.8	2.7	69.4	6.3	900
15-17	3.1	29.4	34.6	30.6	2.3	67.4	5.7	900
18-20	9.1	30.8	24.9	32.4	2.8	60.1	3.6	900
21-23	18.4	26.4	17.7	34.6	2.9	55.1	3.9	900
ALL HOURS	10.0	28.0	27.0	31.0	2.0	61.0	4.0	7200

MONTH: DEC HOURS: ALL

00-02	15.4	24.1	24.1	33.2	3.2	60.5	2.9	930
03-05	15.1	25.3	21.8	34.7	3.1	59.7	2.9	930
06-08	6.7	31.5	28.2	31.2	2.5	61.8	3.5	930
09-11	2.2	27.2	35.6	31.9	3.1	70.6	5.9	930
12-14	1.9	28.4	37.3	29.9	2.5	69.7	7.0	930
15-17	2.0	27.8	38.4	29.2	2.5	70.1	5.6	930
18-20	8.4	29.7	27.4	32.3	2.3	61.9	3.4	930
21-23	14.9	27.6	19.1	35.3	3.0	57.4	2.3	930
ALL HOURS	8.3	27.7	29.0	32.2	2.8	64.0	4.2	7440

FORM NO 413 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: ALL HOURS: ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 172	PARTIAL OBSCURATION	TOTAL OBS
00-02	19.1	31.1	20.9	27.3	1.6	49.8	1.9	10958
03-05	14.6	34.6	22.3	26.6	1.9	50.8	2.0	10959
06-08	5.4	35.4	31.3	26.1	1.8	59.2	2.6	10959
09-11	3.1	35.3	33.6	26.5	1.6	61.6	3.2	10959
12-14	1.9	33.4	37.2	26.4	1.0	64.7	3.2	10959
15-17	1.6	32.4	38.8	26.1	1.1	66.0	2.3	10958
18-20	4.7	33.0	34.0	27.2	1.1	62.2	1.8	10956
21-23	13.8	32.9	24.1	27.7	1.5	53.3	1.7	10956
ALL HOURS	8.0	33.5	30.3	26.7	1.4	58.5	2.3	87664

FORM NO 413

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT      EEEEEEEEEE
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT      EEEEEEEEEE
PP      PP     AA    AA     RR      RR        TT          EE
PP      PP     AA    AA     RR      RR        TT          EE
PPPPPPPPP      AA    AA     RRRRRRRRR       TT          EEEEEE
PPPPPPPP       AAAAAAAAAA     RRRRRRRR        TT          EEEEEE
PP             AAAAAAAAAA     RR    RR        TT          EE
PP             AA    AA     RR     RR        TT          EE
PP             AA    AA     RR      RR       TT          EEEEEEEEEE
PP             AA    AA     RR       RR      TT          EEEEEEEEEE
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FORM NO 413

PART E

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

TEMPERATURE--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).
THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA AND GIVE CUMULATIVE POF FOR MAXIMUM, MINIMUM, AND MEAN TEMPERATURES, RESPECTIVELY. DATA IS SUMMARIZED BY MONTH FOR ALL YEARS COMBINED. TOTALS ARE GIVEN FOR THE WHOLE YEAR. DATA IS DISPLAYED USING 5-DEGREE FAHRENHEIT INCREMENTS (GE 0, GE 5, GE 10, ETC).. THERE IS ONE SPECIAL THRESHOLD FOR "GE 33" DEGREES. MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.

NOTE 1. BEGINNING IN JANUARY 1946, DAILY MAXIMUM AND MINIMUM TEMPERATURES CAME ROUTINELY FROM HOURLY OBSERVATIONS ON AWS FORMS 10/10A OR FROM AUTOMATED DATA COLLECTION FROM ALL USAF-OPERATED STATIONS. REFER TO THE "STATION HISTORY" PAGE FOR DETAILED INFORMATION ON REPORTING PRACTICES.

MONTHLY TEMPERATURES.
ALSO FROM SUMMARY OF DAY DATA, THE TABLES GIVE MONTHLY MAXIMUM AND MINIMUM TEMPERATURES BY MONTH AND BY YEAR. THE YEARLY AMOUNT ONLY APPEARS WHEN ALL MONTHS FOR THAT YEAR ALSO APPEAR. MONTHLY RECORD TEMPERATURES (MAX AND MIN) ARE GIVEN, ALONG WITH TOTAL OBSERVATIONS. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF DATA ARE AVAILABLE.

MEAN MONTHLY TEMPERATURE.
ALSO FROM SUMMARY OF DAY DATA, GIVES MONTHLY MEAN TEMPERATURE BY MONTH, FOR ALL MONTHS, AND FOR ALL YEARS. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF DATA ARE AVAILABLE.

DRY BULB, WET BULB, AND DEW POINT TEMPERATURES.
THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS--DATA IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN. THE MEAN NUMBER OF HOURS WITH TEMPERATURES FOR VARIOUS THRESHOLDS ALSO APPEAR AS SPECIFIED IN EACH SUMMARY AND IN ACCORDANCE WITH AFM 88-29, "ENGINEERING WEATHER DATA," AND AWSP 105-56, "METEOROLOGICAL TECHNIQUES."

NOTE 1. WINTER WET BULB AND DEW POINT MEAN TEMPERATURES FOR VERY COLD STATIONS MUST BE USED WITH CAUTION. WHEN THE DRY BULB TEMPERATURE IS BELOW -35 DEGREES F, WET BULB TEMPERATURES ARE NOT REPORTED (FMH-18). AS A RESULT, WINTER MEAN DEW POINTS (AND MORE FREQUENTLY, WINTER MEAN WET BULB TEMPERATURES) ARE ACTUALLY LOWER THAN SHOWN IN THE TABLES. IN SOME HOUR GROUPS, IN FACT, MEAN WET BULB TEMPERATURES MAY ACTUALLY BE SHOWN AS EXCEEDING THE MEAN DRY BULB TEMPERATURES.

TEMPERATURE CONVERSION: F = 1.8C + 32

C = K - 273.0 (BEFORE 5 APRIL 77)
C = K - 273.2 (SINCE 5 APRIL 77)

RELATIVE HUMIDITY--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).
CREATED FROM HOURLY OBSERVATIONS. THESE TABLES GIVE POF OF RELATIVE HUMIDITY FOR 10% INCREMENTS. MEANS AND TOTAL OBSERVATION COUNTS ARE ALSO PROVIDED. THE DATA IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

FORM NO 413 1

OPERATING LOCATION 'A' CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MAXIMUM TEMPERATURES IN FAHRENHEIT
USAFETAC, ASHEVILLE NC FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

TEMP (DEG-F)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE	105							.1	.2					.0
GE	100							.6	.8	.1				.1
GE	95						.3	5.4	4.6	.5				.9
GE	90				.1	.3	3.6	21.0	19.9	3.8	.1			4.1
GE	85				.3	2.9	11.2	42.4	40.1	11.6	.4			9.1
GE	80				2.4	10.4	25.2	65.7	59.6	22.9	3.8			15.9
GE	75			.1	5.6	20.1	41.4	82.0	75.8	37.5	11.2	.2		22.9
GE	70		.1	1.3	13.0	33.7	60.7	92.4	88.5	53.1	23.8	1.3		30.7
GE	65	.1	.9	4.0	22.4	50.5	77.4	96.8	94.4	66.2	36.4	3.9		37.8
GE	60	1.1	3.1	9.5	35.4	67.0	88.8	99.0	97.8	78.1	50.9	10.9	1.4	45.2
GE	55	4.4	9.7	19.6	50.7	81.2	95.9	99.9	99.4	86.6	66.1	23.2	6.0	53.5
GE	50	11.0	21.1	33.8	66.7	90.5	99.2	100.0	100.0	91.9	78.4	38.0	16.1	62.2
GE	45	23.8	34.9	49.5	79.8	96.1	99.8			95.5	87.3	53.0	30.0	70.8
GE	40	40.0	52.5	63.5	88.9	98.5	100.0			97.9	92.2	67.3	47.3	78.9
GE	35	53.6	64.4	74.5	93.7	99.6				99.7	95.8	80.0	61.6	85.2
GE	33	57.3	68.5	77.5	95.2	99.9				99.9	96.8	83.0	66.1	86.9
GE	30	62.8	73.2	82.3	97.4	99.9				100.0	98.5	87.1	71.6	89.4
GE	25	69.0	79.8	87.5	99.1	100.0					99.1	90.3	77.5	91.8
GE	20	75.1	84.0	91.4	99.6						99.8	92.4	83.8	93.8
GE	15	79.8	88.8	94.0	99.8						99.9	94.5	87.7	95.3
GE	10	82.9	92.2	96.5	100.0						99.9	96.2	90.5	96.5
GE	5	86.6	95.5	97.8							100.0	97.3	93.2	97.5
GE	0	90.7	99.2	98.7								98.6	96.0	98.5
GE	-5	94.0	99.5	99.6								99.5	97.7	99.2
GE	-10	96.4	99.9	99.8								99.8	99.1	99.6
GE	-15	98.5	100.0	100.0								100.0	99.6	99.8
GE	-20	99.8											99.9	100.0
GE	-25	100.0											99.9	100.0
GE	-30												100.0	100.0
MEAN		30.4	36.9	42.1	54.7	64.4	72.1	82.2	81.0	69.2	59.2	43.6	34.9	55.9
SD		18.79	15.59	15.10	12.65	11.26	9.93	8.49	9.38	12.89	12.86	14.72	16.09	22.07
TOTAL OBS		1426	1300	1426	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8809
LST TO UTC: +07 MONTH: ALL HOURS: ALL

TEMP (DEG-F)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE	70							.6	.3					.1
GE	65					.1	.3	4.7	3.1	.2				.7
GE	60				.1	.6	3.9	21.1	15.0	1.6	.1			3.6
GE	55				.3	3.9	19.7	50.8	44.4	10.7	1.2	.1		11.0
GE	50		.1	.3	1.6	14.7	49.9	84.3	77.7	27.5	6.7	1.2	.1	22.0
GE	45	.6	.6	1.3	9.1	35.6	79.6	96.3	95.5	52.1	19.4	4.3	1.2	33.0
GE	40	3.6	3.8	4.4	20.1	62.0	93.9	99.6	99.3	75.6	38.9	11.4	5.8	43.2
GE	35	10.3	10.3	14.1	42.0	85.5	99.0	100.0	100.0	89.0	59.8	24.5	13.5	54.0
GE	33	13.1	15.2	21.0	52.8	91.7	99.5			92.5	68.0	31.1	16.8	58.4
GE	30	19.7	24.1	34.1	68.6	96.5	99.9			96.4	78.8	41.2	24.6	65.3
GE	25	31.1	38.2	54.6	84.5	99.2	100.0			99.6	90.7	58.9	37.6	74.5
GE	20	41.8	53.1	69.4	93.5	99.7				100.0	96.3	72.1	50.9	81.4
GE	15	51.1	61.9	78.0	96.9	99.9					98.7	80.8	62.8	85.8
GE	10	58.1	69.8	82.9	98.7	100.0					99.5	87.3	70.4	88.8
GE	5	63.8	76.5	87.4	99.4						99.6	90.5	76.9	91.1
GE	0	71.2	83.5	91.2	99.7						99.7	93.5	82.9	93.4
GE	-5	78.0	89.3	93.9	99.9						99.9	95.8	88.4	95.4
GE	-10	84.8	95.0	96.7	100.0						100.0	97.4	92.6	97.2
GE	-15	90.0	98.8	98.1								98.8	95.4	98.4
GE	-20	93.9	99.5	99.2								99.8	97.8	99.2
GE	-25	96.8	99.9	99.7								100.0	99.1	99.6
GE	-30	99.0	100.0	99.9									99.4	99.9
GE	-35	99.9		100.0									99.8	100.0
GE	-40	100.0											99.9	100.0
GE	-45												100.0	100.0
MEAN		11.6	17.2	22.2	32.7	41.8	49.3	54.7	53.7	44.6	36.4	24.8	16.8	33.8
SD		19.04	15.33	13.90	8.79	7.14	6.01	5.67	5.69	7.76	9.14	13.90	16.66	18.68
TOTAL OBS		1426	1300	1425	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

TEMP (DEG-F)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE	85							.3	.2					.0
GE	80						.1	3.2	2.3	.1				.5
GE	75					.2	2.1	18.0	15.3	1.6				3.1
GE	70				.2	2.5	13.3	46.3	40.1	9.7	.4			9.4
GE	65				1.1	10.5	31.9	74.3	67.7	22.5	3.5			17.7
GE	60			.5	5.5	23.6	55.6	92.9	88.5	43.5	12.7	.9		27.0
GE	55		.4	1.9	14.7	44.0	81.4	98.4	96.7	63.3	28.3	3.6	.3	36.1
GE	50	1.5	2.8	6.1	29.1	67.5	94.6	100.0	99.6	79.6	46.6	10.6	2.5	45.0
GE	45	5.5	9.2	15.4	47.4	85.3	99.0		100.0	89.6	64.1	22.0	8.6	53.8
GE	40	15.1	21.3	32.8	68.7	95.5	99.8			95.0	80.8	39.5	19.7	64.0
GE	35	27.7	37.7	53.2	84.6	98.6	100.0			98.2	89.6	55.6	33.9	73.2
GE	33	33.2	43.8	59.0	89.9	99.4				99.0	92.6	62.4	40.4	76.5
GE	30	40.3	52.6	67.3	92.5	99.7				99.9	95.2	70.5	48.5	80.5
GE	25	51.6	63.1	76.9	96.4	99.9				100.0	98.4	82.3	62.1	85.8
GE	20	60.9	71.7	83.6	98.8	100.0					99.1	87.6	71.0	89.3
GE	15	66.8	79.1	87.9	99.6						99.6	91.1	78.5	91.8
GE	10	74.2	85.2	92.1	99.7						99.9	93.3	83.9	94.0
GE	5	79.5	89.9	94.8	99.8						99.9	95.5	88.9	95.7
GE	0	84.4	93.8	96.6	100.0						100.0	96.9	92.1	96.9
GE	-5	88.9	97.5	98.2								98.4	94.7	98.1
GE	-10	92.5	99.3	99.1								99.4	97.2	98.9
GE	-15	95.7	99.9	99.8								99.8	98.7	99.5
GE	-20	98.0	100.0	99.9								100.0	99.4	99.8
GE	-25	99.6		100.0									99.6	99.9
GE	-30	100.0											99.9	100.0
GE	-35												100.0	100.0
MEAN		21.1	27.2	32.3	43.9	53.3	60.9	68.7	67.5	57.1	48.0	34.4	26.0	45.0
SD		18.41	14.94	13.98	9.96	8.39	7.19	6.27	6.65	9.56	10.29	13.80	15.83	19.98
TOTAL OBS		1426	1300	1426	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42												60	60*
43	53	58	68	76	81	81	94	93	88	90	65	55	94
44	65	54	57	76	88	94	94	90	89	80	59	55	94
45	55	54	68	71	80	92	99	95	93			53	99*
46	54	60	74	84	79	88	97	96	92	65	65	57	97
47	49	59	61	78	83	79	100	96	94	77	73	58	100
48	59	55	57	76	83	89	93	95	92	79	60	49	95
49	51	57	57	79	87	92	92	102	88	73	72	52	102
50	48	68	61	72	81	89	95	89	98	78	69	59	98
51	48	63	59	72	85	82	96	96	86	80	61	58	96
52	47	58	61	83	79	87	97	95	89	82	62	60	97
53	63	56	65	70	86	87	102	96	90	83	70	54	102
54	55	66	61	68	87	91	97	94	86	78	69	58	97
55	53	54	61	68	78	88	98	96	92	81	61	53	98
56	57	54	70	74	86	94	95	94	89	76	66	62	95
57	51	55	62	80	84	88	95	96	90	84	57	62	96
58	60	61	58	71	90	91	88	94	91	81	61	60	94
59	63	47	64	73	80	90	97	92	90	74	65	59	97
60	52	52	70	74	88	87	102	93	89	84	59	56	102
61	55	64	66	64	83	96	94	106	83	80	72	50	106
62	63	64	64	86	74	93	90	98	87	86	75	63	98
63	57	65	76	81	85	89	100	97	92	87	64	60	100
64	58	57	68	76	87	88	95	100	86	86	67	43	100
65	56	59	56	73	77	85	90	95	82	79	67	61	95
66	46	53	73	72	87	93	96	97	92	77	64	56	97
67	51	60	63	64	83	83	93	96	97	74	60	51	97
68	63	65	68	82	71	86	94	90	89	78	61	54	94
69	47	42	63	81	84	91	92	105	96	72	63	64	105
70	45	62	56	72	79	92	96	101	83	82	59	54	101
71	53	53	59	71	81	89	96	98	86	84	68	46	98
72	46	61	70	80	93	90	95	96	85	78	57	56	96
73	61	63	63	66	86	91	105	97	87	77	64	58	105
74	58	58	64	83	76	93	97	95	86	81	65	57	97
75	52	43	53	61	82	83	99	92	84	82	76	61	99

FORM NO 113

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: +07

PERIOD OF RECORD: 4212-4509,4512-8805
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	57	59	70	74	85	93	96	95	92	81	70	60	96
77	55	67	69	78	78	95	94	92	86	77	67	50	95
78	42	47	75	68	80	94	96	95	92	77	71	43	96
79	40	48	68	73	82	94	99	101	103	84	62	60	103
80	55	58	58	90	90	85	97	92	100	84	69	62	100
81	62	70	63	73	78	88	98	93	94	73	73	55	98
82	41	66	59	73	86	84	92	91	91	76	55	55	92
83	58	63	67	74	85	86	95	105	95	76	66	42	105
84	59	60	59	81	88	96	96	100	88	79	63	54	100
85	49	50	60	76	84	91	98	92	73	70	62	45	98
86	60	65	72	74	89	92	96	97	78	74	61	55	97
87	60	66	73	87	88	95	95	93	88	84	68	64	95
88	60	69	72	82	93								93*
GREATEST	65	70	76	90	93	96	105	106	103	90	76	64	106
TOTAL OBS	1426	1300	1426	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

THE GREATEST VALUE OF 106 OCCURRED ON 08/05/61

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

FORM NO 413

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42												-9	-9*
43	-31	-12	-15	26	24	33	44	47	32	29	10	9	-31
44	7	-7	-10	28	29	37	43	45	28	22	5	-6	-10
45	-4	-14	-21	6	30	35	44	46	27			-5	-21*
46	-8	4	14	22	20	39	48	45	35	14	-11	-12	-12
47	-24	-16	-26	26	26	42	50	45	27	31	-1	-3	-26
48	-7	-14	-19	15	32	46	47	50	34	25	15	-14	-19
49	-29	-14	-3	29	27	34	49	44	31	11	21	-19	-29
50	-36	2	-13	17	30	32	44	40	26	21	-11	-12	-36
51	-23	-5	-31	6	32	32	43	44	28	12	5	-23	-31
52	-24	-13	1	23	38	40	44	41	40	26	0	10	-24
53	-26	13	3	13	25	41	45	49	37	25	16	10	-26
54	-35	10	-6	-4	14	37	50	45	28	24	12	-3	-35
55	-5	-10	-17	18	30	40	41	48	30	17	-19	-22	-22
56	-20	-24	-13	21	26	45	49	41	34	15	10	-17	-24
57	-32	-15	0	18	38	43	50	44	29	12	17	17	-32
58	15	-3	-2	22	38	44	43	49	36	26	-6	-6	-6
59	-21	-15	20	17	33	43	48	47	28	18	-17	11	-21
60	-4	-15	-19	21	29	43	50	45	36	23	-3	1	-19
61	3	2	8	17	33	45	52	48	28	18	1	-22	-22
62	-30	-18	-14	22	34	33	41	45	34	27	14	-10	-30
63	-27	-14	17	21	31	37	40	44	38	20	-7	-14	-27
64	-15	4	-24	5	35	38	47	41	30	24	-14	-32	-32
65	-19	-12	-20	23	26	31	40	38	23	26	-6	-17	-20
66	-23	-9	-10	13	23	36	45	38	32	20	-7	-15	-23
67	-12	5	-14	4	18	35	40	43	39	26	3	-25	-25
68	-20	-6	16	10	23	38	35	44	33	22	-1	-44	-44
69	-34	-7	-14	20	26	29	46	40	36	18	10	-1	-34
70	-20	1	-16	13	28	32	43	41	20	16	-14	-13	-20
71	-35	-7	-7	17	26	35	39	46	25	-1	-19	-23	-35
72	-36	-15	-5	12	27	34	39	47	27	-5	8	-35	-36
73	-19	-6	13	19	29	37	37	42	30	25	-18	-19	-19
74	-30	-2	1	24	31	32	45	40	26	19	10	-2	-30
75	-15	-29	0	-9	30	42	50	41	30	22	-12	-12	-29

FORM NO 413 1

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	-15	-13	-23	23	32	38	44	44	32	13	-1	-2	-23
77	-21	18	5	11	24	40	40	36	33	18	-23	-36	-36
78	-15	-21	-26	21	32	39	45	40	32	24	-16	-22	-26
79	-23	-14	0	12	26	37	49	50	40	17	5	-19	-23
80	-21	-5	-7	28	35	37	41	38	32	24	4	-13	-21
81	5	-19	11	21	31	37	45	42	32	21	8	-17	-19
82	-29	-15	-2	9	30	41	46	46	31	19	-5	0	-29
83	4	10	11	18	24	44	44	47	29	28	-7	-35	-35
84	-16	12	13	23	33	38	47	48	24	-7	-1	-21	-21
85	-17	-14	5	22	34	39	50	39	22	9	-20	-23	-23
86	8	-18	25	7	33	49	44	45	35	19	-14	6	-18
87	-5	-2	2	30	31	39	45	39	40	19	18	-8	-8
88	-14	-15	16	24	30								-15*
LEAST	-36	-29	-31	-9	14	29	35	36	20	-7	-23	-44	-44
TOTAL OBS	1426	1300	1426	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

THE LEAST VALUE OF -44 OCCURRED ON 12/29/68

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42												27	27*
43	10	30	24	49	50	56	68	68	60	52	39	32	45
44	34	24	25	47	57	58	68	65	59	55	34	28	46
45	28	24	35	39	51	57	71	70	54			23	45*
46	32	33	41	50	51	61	70	67	57	41	28	27	47
47	26	23	27	46	55	58	73	67	56	52	30	30	45
48	29	20	28	43	53	61	66	69	60	51	36	19	45
49	11	17	31	51	57	62	69	72	59	42	47	19	45
50	-5	35	29	41	51	59	66	65	57	49	32	33	43
51	18	24	20	42	55	55	69	64	54	43	36	15	41
52	18	28	29	52	56	63	68	67	63	51	35	33	47
53	31	32	38	40	51	60	71	70	62	55	45	34	49
54	9	40	26	37	54	57	72	66	57	46	45	35	45
55	26	21	23	41	50	61	67	71	57	51	19	22	42
56	21	24	34	42	55	65	71	66	60	49	39	30	46
57	9	23	34	43	57	63	73	67	60	41	36	38	45
58	38	24	28	45	63	60	64	72	59	53	34	31	48
59	24	17	39	44	49	63	71	67	56	45	31	37	45
60	24	24	32	43	52	62	75	66	61	51	36	31	47
61	34	37	39	41	55	70	72	74	51	48	31	20	48
62	19	20	26	49	52	62	66	69	58	52	41	33	46
63	13	37	42	43	53	60	69	69	66	55	37	23	47
64	27	32	25	41	54	60	69	64	53	52	32	11	43
65	23	25	20	43	49	57	65	65	45	53	33	27	42
66	13	27	37	40	54	58	69	64	62	47	29	28	44
67	26	32	26	34	49	57	68	70	62	49	35	23	44
68	22	31	40	41	48	58	66	63	56	47	36	16	44
69	-2	17	26	48	55	59	67	70	62	40	40	30	43
70	15	31	27	37	51	63	68	68	52	43	29	21	42
71	14	27	29	42	51	58	64	73	52	43	34	16	42
72	12	21	38	42	53	64	63	68	53	43	36	19	43
73	26	29	39	40	54	62	69	70	57	49	27	31	46
74	20	35	34	47	48	65	71	62	53	50	37	32	46
75	23	13	28	32	51	58	70	63	56	45	34	29	42

FORM NO 413

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: 4212-4509,4512-8805
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	28	31	31	44	55	57	69	67	61	46	36	32	46
77	22	39	34	47	51	64	66	61	55	46	30	16	44
78	9	15	34	45	53	65	68	66	57	50	27	17	42
79	7	18	36	41	51	65	70	70	65	49	33	35	45
80	21	30	34	54	59	60	69	63	57	49	40	26	47
81	31	32	39	47	53	59	67	70	60	45	41	26	48
82	7	24	31	40	50	62	68	69	58	46	30	28	43
83	32	38	37	43	53	62	68	75	55	50	37	6	46
84	31	36	35	45	53	61	70	72	52	42	38	16	46
85	21	23	34	48	58	63	74	63	49	45	14	26	43
86	38	19	44	43	54	67	64	68	51	50	32	33	47
87	33	37	37	55	58	65	67	63	61	49	42	32	50
88	25	31	40	50	58								41*
MEAN	21.1	27.2	32.3	43.9	53.3	60.9	68.7	67.5	57.1	48.0	34.4	26.0	45.0
TOTAL OBS	1426	1300	1426	1380	1426	1350	1395	1395	1350	1364	1320	1426	16558

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	22.2	17.046	930	147	638	0	0	0	930
03-05	22.0	17.233	930	154	647	0	0	0	930
06-08	21.9	16.809	930	138	651	0	0	0	930
09-11	25.0	17.143	930	123	553	0	0	0	930
12-14	30.1	17.574	930	73	413	0	0	0	930
15-17	29.6	17.358	930	79	419	0	0	0	930
18-20	25.0	16.651	930	118	564	0	0	0	930
21-23	23.3	16.970	930	136	619	0	0	0	930
ALL HOURS	24.9	17.362	7440	968	4504	0	0	0	7440

MONTH: FEB

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	25.6	15.851	849	97	509	0	0	0	849
03-05	24.9	16.017	849	99	527	0	0	0	849
06-08	24.5	16.177	849	101	542	0	0	0	849
09-11	29.0	17.552	849	82	422	0	0	0	849
12-14	34.1	18.088	849	39	337	5	0	0	849
15-17	34.9	17.797	849	38	314	9	0	0	849
18-20	29.8	16.192	849	70	395	0	0	0	849
21-23	26.9	15.657	849	80	476	0	0	0	849
ALL HOURS	28.7	17.118	6792	606	3522	14	0	0	6792

FORM NO 418-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88

MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	32.4	9.818	930	5	428	0	0	0	930
03-05	31.1	9.770	930	5	512	0	0	0	930
06-08	31.3	10.017	929	2	503	0	0	0	929
09-11	37.5	11.867	930	0	307	3	0	0	930
12-14	42.7	12.427	930	0	194	30	0	0	930
15-17	43.7	12.218	930	0	161	31	0	0	930
18-20	38.8	10.782	930	0	240	8	0	0	930
21-23	34.3	9.568	930	2	352	0	0	0	930
ALL HOURS	36.5	11.790	7439	14	2697	72	0	0	7439

MONTH: APR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	40.4	9.956	900	0	180	4	0	0	900
03-05	38.6	9.653	900	0	233	0	0	0	900
06-08	40.5	10.392	900	0	176	8	0	0	900
09-11	49.2	12.213	900	0	75	94	3	0	900
12-14	54.5	13.131	900	0	40	206	24	0	900
15-17	55.8	13.275	900	0	30	249	31	0	900
18-20	51.1	12.295	900	0	44	133	6	0	900
21-23	44.0	10.553	900	0	97	14	0	0	900
ALL HOURS	46.8	13.149	7200	0	875	708	64	0	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	48.3	8.270	930	0	15	25	0	0	930
03-05	45.8	7.972	930	0	29	9	0	0	930
06-08	49.6	8.890	930	0	15	52	0	0	930
09-11	57.6	10.926	930	0	8	242	14	0	930
12-14	62.6	12.134	930	0	2	398	89	1	930
15-17	63.6	12.312	929	0	4	442	109	0	929
18-20	59.5	11.261	927	0	6	313	38	0	927
21-23	52.1	8.977	927	0	5	78	0	0	927
ALL HOURS	54.9	12.032	7433	0	84	1559	250	1	7433

MONTH: JUN

00-02	55.4	6.593	899	0	0	70	0	0	899
03-05	53.1	6.271	900	0	0	32	0	0	900
06-08	57.9	7.132	900	0	0	150	2	0	900
09-11	66.3	8.591	900	0	0	511	67	1	900
12-14	71.2	9.271	900	0	0	677	193	6	900
15-17	72.4	9.279	899	0	0	711	200	8	899
18-20	68.4	8.754	900	0	0	593	95	0	900
21-23	60.1	7.046	900	0	0	231	7	0	900
ALL HOURS	63.1	10.577	7198	0	0	2975	564	15	7198

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	60.6	6.223	930	0	0	218	0	0	930
03-05	57.4	5.694	930	0	0	104	0	0	930
06-08	62.0	6.628	930	0	0	300	8	0	930
09-11	71.7	7.964	930	0	0	769	164	1	930
12-14	77.6	8.787	930	0	0	866	389	36	930
15-17	79.3	9.397	930	0	0	866	473	67	930
18-20	75.1	9.171	930	0	0	812	292	23	930
21-23	65.9	7.205	930	0	0	524	36	0	930
ALL HOURS	68.7	10.996	7440	0	0	4459	1362	127	7440

MONTH: AUG

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	60.5	6.547	930	0	0	257	0	0	930
03-05	57.4	6.220	930	0	0	116	0	0	930
06-08	59.9	6.986	930	0	0	241	1	0	930
09-11	70.4	8.621	930	0	0	703	138	3	930
12-14	77.2	9.801	930	0	0	824	423	22	930
15-17	79.2	10.080	930	0	0	834	504	46	930
18-20	73.8	9.529	930	0	0	772	274	10	930
21-23	64.9	7.238	930	0	0	501	15	0	930
ALL HOURS	67.9	11.400	7440	0	0	4248	1355	81	7440

FORM NO 413 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	50.5	9.163	900	0	27	51	0	0	900
03-05	48.5	8.707	900	0	33	21	0	0	900
06-08	49.4	9.556	900	0	36	42	0	0	900
09-11	58.6	12.504	900	0	17	284	48	0	900
12-14	64.5	13.911	900	0	7	473	124	8	900
15-17	65.9	14.327	900	0	9	511	157	9	900
18-20	59.9	12.642	900	0	15	334	51	2	900
21-23	53.1	9.912	900	0	22	115	1	0	900
ALL HOURS	56.3	13.170	7200	0	166	1831	381	19	7200

MONTH: OCT

00-02	42.4	9.561	930	0	144	3	0	0	930
03-05	41.1	9.505	930	0	163	3	0	0	930
06-08	41.3	9.724	930	0	162	3	0	0	930
09-11	50.0	11.869	930	0	62	97	1	0	930
12-14	56.0	13.094	930	0	35	264	25	0	930
15-17	56.0	13.098	930	0	39	247	22	0	930
18-20	48.5	11.147	930	1	71	61	0	0	930
21-23	44.1	10.249	930	3	117	11	0	0	930
ALL HOURS	47.4	12.563	7440	4	793	689	48	0	7440

FORM NO 413-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	30.5	15.101	900	55	460	0	0	0	900
03-05	30.0	15.043	900	53	480	2	0	0	900
06-08	29.9	15.102	900	51	484	0	0	0	900
09-11	34.5	16.452	900	51	352	7	0	0	900
12-14	39.3	17.354	899	39	243	23	0	0	899
15-17	38.0	16.987	900	40	250	21	0	0	900
18-20	32.8	15.702	900	48	364	2	0	0	900
21-23	30.9	15.329	900	52	433	0	0	0	900
ALL HOURS	33.2	16.262	7199	389	3066	55	0	0	7199

MONTH: DEC

00-02	22.8	17.489	930	123	631	0	0	0	930
03-05	22.5	17.749	929	131	639	0	0	0	929
06-08	22.1	17.706	930	129	638	0	0	0	930
09-11	24.9	17.927	930	103	569	0	0	0	930
12-14	29.3	18.433	930	85	454	0	0	0	930
15-17	28.1	18.007	929	89	474	0	0	0	929
18-20	24.6	17.257	930	119	578	0	0	0	930
21-23	23.3	17.275	930	123	615	0	0	0	930
ALL HOURS	24.7	17.913	7438	902	4598	0	0	0	7438

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	41.1	17.938	10958	427	3032	628	0	0	10958
03-05	39.4	17.184	10958	442	3263	287	0	0	10958
06-08	40.9	18.574	10958	421	3207	796	11	0	10958
09-11	48.0	21.292	10959	359	2365	2710	435	5	10959
12-14	53.4	22.129	10958	236	1725	3766	1267	73	10958
15-17	54.0	22.747	10956	246	1700	3921	1496	130	10956
18-20	49.0	22.042	10956	356	2277	3028	756	35	10956
21-23	43.7	19.250	10956	396	2736	1474	59	0	10956
ALL HOURS	46.2	20.940	87659	2883	20305	16610	4024	243	87659

FORM NO 113

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	18.9	14.865	930	773	0	0	0	0	930
03-05	18.7	15.019	930	778	0	0	0	0	930
06-08	18.7	14.647	930	790	0	0	0	0	930
09-11	21.1	14.579	930	716	0	0	0	0	930
12-14	24.7	14.270	930	593	2	0	0	0	930
15-17	24.3	14.179	930	596	1	0	0	0	930
18-20	21.1	14.291	930	734	0	0	0	0	930
21-23	19.8	14.673	930	759	0	0	0	0	930
ALL HOURS	20.9	14.717	7440	5744	3	0	0	0	7440

MONTH: FEB

00-02	22.2	13.784	849	655	0	0	0	0	849
03-05	21.6	13.969	849	654	0	0	0	0	849
06-08	21.2	14.143	849	668	0	0	0	0	849
09-11	24.4	14.598	849	543	0	0	0	0	849
12-14	27.8	14.221	849	445	5	0	0	0	849
15-17	28.4	13.945	849	427	5	0	0	0	849
18-20	25.2	13.548	849	546	0	0	0	0	849
21-23	23.2	13.508	849	512	0	0	0	0	849
ALL HOURS	24.3	14.205	6792	4550	10	0	0	0	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	28.6	7.933	930	654	0	0	0	0	930
03-05	27.4	7.936	929	715	0	0	0	0	929
06-08	27.6	8.035	929	685	0	0	0	0	929
09-11	31.8	8.522	930	457	3	0	0	0	930
12-14	34.8	8.339	929	349	15	0	0	0	929
15-17	35.4	8.045	930	303	14	0	0	0	930
18-20	32.7	7.724	930	404	2	0	0	0	930
21-23	30.0	7.580	930	549	0	0	0	0	930
ALL HOURS	31.0	8.554	7437	4116	34	0	0	0	7437

MONTH: APR

00-02	34.6	7.538	900	355	12	0	0	0	900
03-05	33.4	7.406	900	412	7	0	0	0	900
06-08	34.8	7.856	899	341	22	0	0	0	899
09-11	39.7	8.233	900	167	102	0	0	0	900
12-14	42.1	8.217	900	99	180	0	0	0	900
15-17	42.7	8.018	900	81	196	0	0	0	900
18-20	40.4	7.865	900	138	120	0	0	0	900
21-23	36.7	7.582	900	261	28	0	0	0	900
ALL HOURS	38.0	8.564	7199	1854	667	0	0	0	7199

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	42.4	6.650	930	77	158	0	0	0	930
03-05	40.7	6.609	930	114	97	0	0	0	930
06-08	43.3	6.810	930	57	185	0	0	0	930
09-11	47.3	7.084	929	17	361	0	0	0	929
12-14	49.3	7.118	929	4	464	1	0	0	929
15-17	49.6	7.013	929	6	478	4	0	0	929
18-20	48.1	7.024	926	12	402	2	0	0	926
21-23	44.6	6.710	927	33	231	0	0	0	927
ALL HOURS	45.6	7.582	7430	320	2376	7	0	0	7430

MONTH: JUN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	48.6	5.352	899	0	401	0	0	0	899
03-05	47.1	5.223	900	1	301	0	0	0	900
06-08	50.2	5.133	900	0	506	0	0	0	900
09-11	54.1	5.412	900	0	694	1	0	0	900
12-14	55.8	5.435	900	0	766	15	0	0	900
15-17	56.2	5.341	899	0	775	23	1	0	899
18-20	54.9	5.203	900	0	730	5	0	0	900
21-23	51.3	5.084	900	0	570	0	0	0	900
ALL HOURS	52.3	6.199	7198	1	4743	44	1	0	7198

FORM NO 413-1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	52.2	4.554	929	0	664	1	0	0	929
03-05	50.6	4.617	930	0	558	0	0	0	930
06-08	53.5	4.470	930	0	744	0	0	0	930
09-11	57.8	4.478	930	0	878	12	0	0	930
12-14	59.5	4.607	930	0	912	49	0	0	930
15-17	59.6	4.579	930	0	912	51	6	0	930
18-20	58.3	4.588	930	0	896	33	5	0	930
21-23	54.8	4.498	929	0	806	3	0	0	929
ALL HOURS	55.8	5.627	7438	0	6370	149	11	0	7438

MONTH: AUG

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	51.6	4.786	930	0	620	0	0	0	930
03-05	50.0	4.905	930	0	516	0	0	0	930
06-08	51.7	4.964	928	0	625	0	0	0	928
09-11	56.6	4.853	930	0	842	18	0	0	930
12-14	58.7	4.738	930	0	886	41	0	0	930
15-17	58.9	4.596	930	0	890	34	0	0	930
18-20	57.0	4.605	930	0	861	17	0	0	930
21-23	53.5	4.737	930	0	750	0	0	0	930
ALL HOURS	54.7	5.837	7439	0	5990	110	0	0	7438

FORM NO 413

OPERATING LOCATION "A"
USARETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	43.8	6.482	900	46	157	0	0	0	900
03-05	42.6	6.399	900	61	123	0	0	0	900
06-08	43.2	6.624	900	63	151	0	0	0	900
09-11	48.1	7.326	900	30	417	0	0	0	900
12-14	50.5	7.569	900	25	546	1	0	0	900
15-17	50.8	7.545	900	20	557	0	0	0	900
18-20	48.2	7.190	899	26	429	0	0	0	899
21-23	45.1	6.537	900	35	226	0	0	0	900
ALL HOURS	46.5	7.631	7199	306	2606	1	0	0	7199

MONTH: OCT

00-02	36.9	7.104	930	227	7	0	0	0	930
03-05	36.0	7.063	930	264	5	0	0	0	930
06-08	36.2	7.158	930	260	8	0	0	0	930
09-11	41.5	7.780	930	101	129	0	0	0	930
12-14	44.3	8.042	930	68	262	0	0	0	930
15-17	44.2	8.072	930	69	245	0	0	0	930
18-20	40.3	7.655	930	128	79	0	0	0	930
21-23	37.8	7.591	930	205	18	0	0	0	930
ALL HOURS	39.6	8.241	7440	1322	753	0	0	0	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	26.4	12.745	900	597	0	0	0	0	900
03-05	26.0	12.689	900	614	0	0	0	0	900
06-08	25.9	12.715	900	614	1	0	0	0	900
09-11	29.1	13.307	899	480	12	0	0	0	899
12-14	31.9	13.400	898	371	29	0	0	0	898
15-17	31.1	13.299	898	407	25	0	0	0	898
18-20	27.8	13.063	900	539	5	0	0	0	900
21-23	26.6	12.975	900	599	1	0	0	0	900
ALL HOURS	28.1	13.200	7195	4221	73	0	0	0	7195

MONTH: DEC

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	19.4	15.034	930	775	0	0	0	0	930
03-05	19.1	15.299	929	775	0	0	0	0	929
06-08	18.8	15.309	930	766	0	0	0	0	930
09-11	21.0	15.153	929	714	0	0	0	0	929
12-14	24.1	15.003	930	615	1	0	0	0	930
15-17	23.2	14.834	928	661	0	0	0	0	928
18-20	20.8	14.650	930	756	0	0	0	0	930
21-23	19.8	14.802	930	781	0	0	0	0	930
ALL HOURS	20.8	15.124	7436	5843	1	0	0	0	7436

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONYH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	35.5	15.276	10957	4164	2019	1	0	0	10957
03-05	34.5	14.958	10957	4388	1607	0	0	0	10957
06-08	35.5	15.799	10955	4244	2242	0	0	0	10955
09-11	39.4	16.510	10956	3225	3438	31	0	0	10956
12-14	42.0	16.022	10955	2569	4068	107	0	0	10955
15-17	42.1	16.114	10953	2570	4098	112	7	0	10953
18-20	39.6	16.460	10954	3283	3524	57	5	0	10954
21-23	37.0	15.739	10955	3834	2630	3	0	0	10955
ALL HOURS	38.2	16.114	87642	28277	23626	311	12	0	87642

FORM NO 413 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	9.7	15.773	930	861	9	930	0	930
03-05	9.5	15.944	930	855	12	930	0	930
06-08	9.7	15.514	930	862	10	930	0	930
09-11	11.3	15.167	930	845	12	930	0	930
12-14	13.0	14.338	930	825	12	930	0	930
15-17	12.7	14.363	930	831	7	930	0	930
18-20	11.4	14.960	930	851	6	930	0	930
21-23	10.4	15.469	930	866	7	930	0	930
ALL HOURS	10.9	15.266	7440	6796	75	7440	0	7440

MONTH: FEB

00-02	14.1	14.098	849	727	10	849	0	849
03-05	13.6	14.280	849	726	11	849	0	849
06-08	13.2	14.656	849	737	9	849	0	849
09-11	15.0	14.146	849	707	9	849	0	849
12-14	16.4	13.099	849	691	11	849	0	849
15-17	16.7	12.881	849	687	13	849	0	849
18-20	15.7	13.350	849	713	11	849	0	849
21-23	14.9	13.741	849	726	10	849	0	849
ALL HOURS	15.0	13.852	6792	5714	84	6792	0	6792

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	21.1	8.420	930	738	12	930	0	930
03-05	20.3	8.329	929	759	2	929	0	929
06-08	20.3	8.135	929	770	0	929	0	929
09-11	22.3	7.779	930	703	10	930	0	930
12-14	22.7	7.559	929	678	22	929	0	929
15-17	22.7	7.618	930	664	21	930	0	930
18-20	22.6	7.791	930	676	19	930	0	930
21-23	22.1	8.081	930	701	16	930	0	930
ALL HOURS	21.8	8.044	7437	5689	102	7437	0	7437

MONTH: APR

00-02	25.7	7.548	900	535	65	900	0	900
03-05	25.2	7.485	900	550	65	900	0	900
06-08	26.2	7.655	899	514	79	899	0	900
09-11	26.8	8.220	900	482	122	900	0	900
12-14	26.0	8.317	900	523	99	900	0	900
15-17	25.7	8.486	900	541	98	900	0	900
18-20	26.0	8.519	900	524	93	900	0	900
21-23	26.2	7.924	900	520	84	900	0	900
ALL HOURS	26.0	8.074	7199	4189	705	7199	0	7199

FORM NO 4-3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	35.0	8.604	930	187	425	928	0	930
03-05	34.3	8.204	930	205	375	930	0	930
06-08	36.0	8.032	930	149	447	926	0	930
09-11	36.2	8.294	929	143	448	924	0	929
12-14	35.5	8.505	929	175	411	922	0	929
15-17	35.0	8.786	929	195	392	920	0	929
18-20	35.7	9.302	926	186	435	914	0	926
21-23	35.8	8.941	927	176	451	920	0	927
ALL HOURS	35.4	8.638	7430	1416	3384	7384	0	7430

MONTH: JUN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	41.7	7.373	899	35	682	887	0	900
03-05	40.9	7.069	900	33	664	888	0	900
06-08	42.9	7.724	900	17	735	886	0	900
09-11	43.3	7.340	900	19	732	872	0	900
12-14	42.5	7.852	900	23	691	860	1	900
15-17	42.1	8.241	899	29	682	860	1	900
18-20	42.9	8.365	900	33	681	853	0	900
21-23	42.9	7.747	900	32	717	868	0	900
ALL HOURS	42.4	7.677	7198	221	5584	6974	2	7198

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	44.5	6.865	929	5	806	879	1	929
03-05	44.1	6.612	930	7	803	894	0	930
06-08	46.2	6.046	930	0	876	877	0	930
09-11	46.7	6.524	930	5	868	852	1	930
12-14	45.3	7.285	930	4	811	858	5	930
15-17	44.0	7.581	930	13	774	872	7	930
18-20	44.6	8.328	930	19	774	837	6	930
21-23	44.9	7.461	929	9	797	857	1	929
ALL HOURS	45.0	7.203	7438	62	6509	6926	21	7438

MONTH: AUG

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	43.0	7.028	930	19	778	900	0	930
03-05	42.8	6.677	930	15	765	905	0	930
06-08	44.1	6.402	930	6	822	900	0	930
09-11	45.3	6.397	930	10	847	896	0	930
12-14	44.0	6.734	930	14	799	901	0	930
15-17	42.5	6.972	930	19	759	903	0	930
18-20	42.7	7.500	930	31	752	901	0	930
21-23	43.1	7.314	930	27	759	900	0	930
ALL HOURS	43.5	6.985	7438	141	6281	7206	0	7438

FORM NO 413-3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88

MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	36.2	7.213	900	82	403	897	0	900
03-05	35.8	7.021	900	94	401	898	0	900
06-08	36.1	6.736	900	81	439	899	0	900
09-11	37.5	6.759	900	72	521	890	0	900
12-14	36.7	7.273	900	105	486	889	1	900
15-17	36.1	7.426	900	117	430	891	0	900
18-20	36.1	7.368	899	104	417	893	0	899
21-23	36.1	7.206	900	96	391	896	0	900
ALL HOURS	36.3	7.179	7199	751	3488	7153	1	7199

MONTH: OCT

00-02	29.1	7.147	930	351	127	930	0	930
03-05	28.8	7.096	930	374	116	930	0	930
06-08	29.0	7.135	930	364	122	930	0	930
09-11	31.1	7.221	930	273	202	930	0	930
12-14	30.5	7.538	930	315	201	930	0	930
15-17	30.2	7.868	930	315	198	930	0	930
18-20	29.7	7.734	930	322	169	930	0	930
21-23	29.2	7.814	930	350	142	930	0	930
ALL HOURS	29.7	7.528	7440	2665	1277	7440	0	7440

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	18.3	12.446	900	727	30	900	0	900
03-05	18.0	12.390	900	728	25	900	0	900
06-08	17.9	12.448	900	738	27	900	0	900
09-11	19.5	12.425	899	695	40	899	0	899
12-14	20.1	12.143	898	696	44	898	0	898
15-17	19.8	12.280	898	676	36	898	0	898
18-20	18.7	12.677	900	689	27	900	0	900
21-23	18.2	12.716	900	713	26	900	0	900
ALL HOURS	18.8	12.483	7195	5662	255	7195	0	7195

MONTH: DEC

00-02	11.0	14.220	930	857	2	930	0	930
03-05	10.8	14.612	929	848	4	929	0	930
06-08	10.5	14.626	930	849	4	930	0	930
09-11	11.9	14.161	929	856	7	929	0	930
12-14	13.5	13.684	930	835	6	930	0	930
15-17	13.0	13.743	928	838	3	928	0	930
18-20	11.7	13.976	930	862	1	930	0	930
21-23	11.2	14.018	930	863	0	930	0	930
ALL HOURS	11.7	14.176	7436	6808	27	7436	0	7436

FORM NO 433

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	27.5	15.888	10957	5124	3349	10860	1	10957
03-05	27.1	15.927	10957	5194	3243	10882	0	10957
06-08	27.7	16.342	10955	5087	3570	10855	0	10955
09-11	29.0	16.007	10956	4810	3818	10801	1	10956
12-14	28.9	15.131	10955	4885	3593	10796	7	10955
15-17	28.4	14.950	10953	4925	3413	10811	8	10953
18-20	28.2	15.678	10954	5010	3395	10767	6	10954
21-23	28.0	15.929	10955	5079	3400	10810	1	10955
ALL HOURS	28.1	15.737	87642	40114	27771	86582	24	87642

FORM NO 4

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JAN

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.4	96.2	85.8	66.2	42.7	24.2	13.1	5.4	57.8	930
03-05	100.0	99.5	96.2	85.2	67.3	44.2	24.8	12.6	5.4	57.9	930
06-08	100.0	99.7	96.5	84.5	69.6	44.4	26.1	12.9	6.1	58.6	930
09-11	100.0	99.2	93.3	80.8	61.8	39.0	24.5	12.6	5.5	56.2	930
12-14	100.0	98.1	64.5	67.5	50.1	28.9	13.8	7.7	2.3	49.8	930
15-17	100.0	97.8	85.4	68.7	50.9	28.3	14.0	6.3	1.8	49.8	930
18-20	100.0	99.2	94.0	80.5	61.6	41.5	20.0	10.4	3.8	55.6	930
21-23	100.0	99.4	95.7	83.5	64.4	41.9	23.8	11.8	4.7	57.1	930
ALL HOURS	100.0	99.0	92.7	79.6	61.5	38.9	21.4	10.9	4.4	57.1	7440

MONTH: FEB

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.9	99.1	93.2	74.1	51.2	28.7	13.1	5.3	60.8	849
03-05	100.0	99.8	98.8	94.1	75.4	53.2	27.7	12.7	4.7	61.2	849
06-08	100.0	99.9	98.1	92.7	75.5	54.1	27.7	13.0	5.7	61.2	849
09-11	100.0	99.3	95.8	85.2	61.6	40.6	22.1	11.4	3.8	56.3	849
12-14	100.0	97.2	87.0	68.9	47.1	30.3	15.7	6.5	1.6	49.8	849
15-17	100.0	96.7	84.9	68.9	43.5	28.2	12.2	4.9	1.2	48.7	849
18-20	100.0	99.4	95.8	84.5	63.5	40.0	20.4	8.4	1.2	55.7	849
21-23	100.0	99.8	98.9	91.9	73.1	48.9	26.3	12.4	3.8	59.9	849
ALL HOURS	100.0	99.0	94.8	84.9	64.2	43.3	22.6	10.3	3.4	59.9	6792

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAR

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.9	98.1	91.7	78.1	57.8	36.8	16.9	4.4	62.7	930
03-05	100.0	100.0	98.3	93.1	80.9	60.4	38.6	18.0	4.5	64.0	929
06-08	100.0	100.0	98.9	93.3	79.0	58.9	37.5	18.1	3.9	63.4	929
09-11	100.0	99.1	91.8	75.4	59.6	41.8	26.8	12.8	4.1	55.7	930
12-14	100.0	97.0	77.2	60.7	42.4	29.2	17.5	7.2	1.5	47.7	929
15-17	100.0	94.8	73.9	57.6	39.8	28.0	17.0	5.3	1.4	46.2	930
18-20	100.0	99.2	88.5	73.1	55.4	39.8	24.4	11.1	2.8	53.8	930
21-23	100.0	100.0	97.5	89.0	72.8	51.8	32.3	16.7	4.0	61.1	930
ALL HOURS	100.0	98.8	90.5	79.3	63.5	46.0	28.9	13.2	3.3	61.1	7437

MONTH: APR

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	98.1	83.4	59.9	40.0	23.1	13.1	2.7	56.6	900
03-05	100.0	100.0	99.0	89.7	65.7	46.6	25.8	14.2	4.7	59.1	900
06-08	100.0	99.9	98.1	95.8	63.5	43.3	25.0	12.1	4.6	57.7	899
09-11	100.0	96.9	79.1	51.6	31.1	20.1	12.1	6.6	1.1	44.1	900
12-14	100.0	87.8	53.1	32.3	19.4	12.0	6.8	2.7	.4	35.9	900
15-17	100.0	81.8	46.4	28.9	17.4	12.3	7.6	2.9	.2	34.2	900
18-20	100.0	92.0	63.7	42.0	26.7	19.0	11.9	6.2	.6	40.7	900
21-23	100.0	99.4	92.0	69.1	46.0	28.2	17.3	10.4	2.2	51.2	900
ALL HOURS	100.0	94.7	78.7	60.3	41.2	27.7	16.2	8.5	2.1	51.2	7199

FORM NO 413

OPERATING LOCATION "A" CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: MAY

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.8	97.2	88.5	72.8	52.6	37.3	21.1	6.8	62.2	930
03-05	100.0	99.9	98.6	93.0	80.3	62.9	42.3	23.9	9.5	65.7	930
06-08	100.0	100.0	97.8	90.1	71.9	52.9	31.7	19.4	8.1	61.7	930
09-11	100.0	98.6	84.5	57.2	37.7	26.4	17.1	11.0	3.1	48.1	929
12-14	100.0	93.6	61.8	37.8	24.8	18.6	12.9	7.1	2.7	40.4	929
15-17	100.0	86.4	56.5	36.2	24.1	17.8	13.0	7.0	2.0	38.9	929
18-20	100.0	94.9	71.7	50.4	35.1	26.5	17.6	10.3	2.2	45.3	926
21-23	100.0	99.5	93.5	77.8	57.0	42.3	29.7	18.2	5.8	56.9	927
ALL HOURS	100.0	96.6	82.7	66.4	50.5	37.5	25.2	14.7	5.0	56.9	7430

MONTH: JUN

00-02	100.0	99.8	98.8	91.5	75.6	56.5	31.5	16.2	5.2	62.0	899
03-05	100.0	99.9	99.1	94.9	82.8	64.1	40.0	18.7	5.4	64.9	900
06-08	100.0	100.0	98.4	88.9	69.6	48.3	27.1	14.3	3.9	59.6	900
09-11	100.0	99.0	86.4	59.1	36.3	18.9	9.0	4.0	.9	45.8	900
12-14	100.0	93.2	68.2	39.6	20.2	9.3	4.0	1.8	.2	38.1	900
15-17	100.0	90.1	61.8	34.9	17.4	8.7	4.0	2.4	.2	36.5	899
18-20	100.0	94.7	75.3	51.9	30.2	16.9	9.9	6.3	2.2	43.2	900
21-23	100.0	99.2	93.3	80.6	62.8	41.3	22.2	12.3	3.2	55.9	900
ALL HOURS	100.0	97.0	85.2	67.7	49.4	33.0	18.5	9.5	2.7	55.9	7198

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: JUL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	96.6	85.8	69.1	45.5	24.4	9.9	2.3	57.7	929
03-05	100.0	100.0	99.2	93.4	78.3	61.6	35.3	14.9	3.0	63.0	930
06-08	100.0	100.0	98.5	88.0	68.2	47.3	24.6	8.4	2.0	58.1	930
09-11	100.0	98.5	82.2	54.8	30.9	13.5	5.2	1.9	.5	43.3	930
12-14	100.0	88.0	58.3	28.7	13.3	6.2	3.5	1.6	.3	34.5	930
15-17	99.9	79.9	45.4	22.3	12.4	6.6	3.4	1.3	.2	31.6	930
18-20	99.9	85.8	61.3	37.6	22.5	13.7	7.4	3.0	1.1	37.6	930
21-23	100.0	97.8	86.5	69.3	47.8	30.9	14.2	5.4	1.5	49.8	929
ALL HOURS	100.0	93.7	78.5	60.0	42.8	28.2	14.8	5.8	1.4	49.8	7438

MONTH: AUG

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.7	96.3	82.9	57.7	34.8	20.5	8.9	1.3	54.7	930
03-05	100.0	100.0	98.4	91.7	73.8	48.7	27.6	13.3	2.0	60.0	930
06-08	100.0	100.0	97.8	89.5	69.3	44.9	23.1	9.5	1.5	58.0	928
09-11	100.0	97.5	84.3	53.0	28.9	14.9	5.1	2.0	.5	43.1	930
12-14	100.0	88.2	52.5	25.7	12.2	6.7	3.4	1.8	.5	33.5	930
15-17	99.9	76.2	39.8	19.5	10.4	7.2	3.4	1.7	.8	30.3	930
18-20	100.0	87.1	57.6	32.8	19.1	11.9	6.5	2.6	1.0	36.3	930
21-23	100.0	98.4	88.0	66.3	40.4	24.9	12.8	5.5	1.2	48.0	930
ALL HOURS	100.0	93.4	76.8	57.7	39.0	24.3	12.8	5.7	1.1	48.0	7438

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: SEP

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	96.3	85.6	67.9	49.4	33.9	20.3	8.9	60.8	900
03-05	100.0	99.9	98.3	92.1	76.1	55.9	38.2	24.0	10.7	64.0	900
06-08	100.0	99.7	97.8	91.2	73.8	53.9	36.4	22.2	8.8	62.9	900
09-11	100.0	97.7	83.9	62.2	43.4	29.9	19.8	11.7	4.6	49.8	900
12-14	100.0	90.7	63.0	38.6	26.0	19.3	13.1	7.1	2.4	40.4	900
15-17	100.0	83.8	54.6	35.8	24.0	18.3	12.0	7.1	2.9	38.4	900
18-20	100.0	94.1	73.6	51.4	35.6	25.1	18.2	11.3	3.8	45.9	899
21-23	100.0	99.7	92.8	75.8	55.4	39.8	26.3	16.3	7.6	55.9	900
ALL HOURS	100.0	95.7	82.5	66.6	50.3	36.5	24.8	15.0	6.2	55.9	7199

MONTH: OCT

00-02	100.0	99.7	96.1	87.8	74.3	54.9	34.0	17.5	5.2	61.3	930
03-05	100.0	99.8	96.5	89.7	78.1	60.6	39.2	18.3	5.8	63.2	930
06-08	100.0	99.4	96.2	89.6	78.1	62.9	39.5	19.8	5.7	63.5	930
09-11	100.0	97.5	88.3	70.5	49.1	32.2	18.5	9.8	3.7	51.5	930
12-14	100.0	92.9	69.4	44.6	24.4	17.0	12.4	7.1	2.9	41.4	930
15-17	100.0	91.5	68.3	42.6	23.3	17.3	13.2	7.0	1.8	40.9	930
18-20	100.0	97.3	88.8	70.9	46.0	29.2	17.5	10.9	3.0	50.9	930
21-23	100.0	98.7	94.2	83.3	66.5	46.1	26.1	13.5	4.1	57.9	930
ALL HOURS	100.0	97.1	87.2	72.4	55.0	40.0	25.1	13.0	4.0	57.9	7440

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: NOV

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.7	96.4	92.2	76.3	51.9	27.7	10.6	3.6	60.5	900
03-05	100.0	99.7	95.8	92.4	78.6	52.2	29.3	11.7	4.2	61.1	900
06-08	100.0	99.3	96.7	91.2	77.4	53.4	28.8	11.8	5.0	61.0	900
09-11	100.0	98.7	93.2	80.3	59.0	39.8	23.8	10.2	2.8	55.5	899
12-14	100.0	97.0	83.4	61.4	42.3	28.0	15.7	6.0	1.6	48.1	898
15-17	100.0	97.7	85.6	67.9	46.4	31.6	17.5	5.5	1.2	49.6	898
18-20	100.0	99.6	95.1	85.0	64.3	40.1	22.8	9.9	2.4	56.4	900
21-23	100.0	99.8	96.3	89.3	75.0	48.8	26.0	10.1	2.7	59.3	900
ALL HOURS	100.0	98.9	92.8	82.5	64.9	43.2	23.9	9.5	2.9	59.3	7195

MONTH: DEC

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	97.2	91.0	72.4	51.4	27.8	11.3	3.5	60.0	930
03-05	100.0	99.8	97.0	90.3	74.5	53.0	29.2	10.4	3.4	60.3	929
06-08	100.0	99.7	96.9	90.2	76.8	52.8	30.4	11.2	3.5	60.7	930
09-11	100.0	99.5	96.2	84.8	67.3	47.8	26.5	9.8	2.5	57.9	929
12-14	100.0	98.9	90.4	73.3	55.5	37.0	18.1	6.6	1.3	52.5	930
15-17	100.0	98.7	91.8	76.9	57.8	38.1	19.5	7.1	1.1	53.7	928
18-20	100.0	99.6	95.5	86.2	67.3	46.2	22.9	8.5	2.4	57.5	930
21-23	100.0	100.0	97.0	88.9	71.6	49.1	28.0	10.0	3.1	59.2	930
ALL HOURS	100.0	99.5	95.3	85.2	67.9	46.9	25.3	9.4	2.6	59.2	7436

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: ALL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.8	97.2	88.3	70.3	49.1	29.2	14.3	4.5	59.8	10957
03-05	100.0	99.8	97.9	91.6	76.0	55.3	33.2	16.1	5.3	62.0	10957
06-08	100.0	99.8	97.6	89.6	72.7	51.4	29.8	14.4	4.9	60.5	10955
09-11	100.0	98.5	88.2	67.8	47.2	30.4	17.5	8.6	2.7	50.6	10956
12-14	100.0	93.5	70.7	48.2	31.4	20.2	11.4	5.3	1.5	42.6	10955
15-17	100.0	89.6	66.1	46.6	30.6	20.2	11.4	4.9	1.2	41.5	10953
18-20	100.0	95.2	80.0	62.1	43.9	29.1	16.6	8.2	2.2	48.2	10954
21-23	100.0	99.3	93.8	80.3	61.0	41.1	23.7	11.9	3.7	56.0	10955
ALL HOURS	100.0	96.9	86.4	71.8	54.1	37.1	21.6	10.5	3.3	52.7	87642

FORM NO 413 J

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT      FFFFFFFFFF
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT      FFFFFFFFFF
PP      PP     AA    AA     RR     RR        TT           FF
PP      PP     AA    AA     RR     RR        TT           FF
PPPPPPPPP      AA    AA     RRRRRRRRR       TT           FFFFFF
PPPPPPPP       AAAAAAAAAA   RRRRRRRR        TT           FFFFFF
PP             AAAAAAAAAA   RR    RR        TT           FF
PP             AA    AA     RR     RR       TT           FF
PP             AA    AA     RR     RR       TT           FF
PP             AA    AA     RR      RR      TT           FF
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FORM NO 413

PART F

PRESSURE SUMMARIES

ALL PRESSURE DATA IN PART F IS TAKEN FROM HOURLY OBSERVATIONS. IT IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD SYNOPTIC REPORTING TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SEA LEVEL PRESSURE.
IN MILLIBARS. TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS. THIS SUMMARY IS NOT AVAILABLE FOR METAR REPORTING SITES.

ALTIMETER SETTING.
IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS.

STATION PRESSURE.
IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

PRESSURE CONVERSIONS ARE: 1 MILLIBAR = 0.02953 INCHES OF MERCURY (HG).

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

SEA LEVEL PRESSURE IN MILLIBARS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0200	MEAN	1019.1	1017.2	1014.7	1013.6	1012.7	1013.2	1013.8	1014.2	1015.4	1016.6	1017.1	1018.5	1015.5
	SD	9.886	8.915	7.727	7.460	6.424	5.367	4.601	4.934	7.449	7.565	9.532	9.851	7.944
	TOT OBS	310	283	310	300	310	300	310	310	300	310	299	310	3652
0500	MEAN	1019.2	1017.2	1014.7	1014.0	1013.2	1013.6	1014.4	1014.7	1015.6	1016.8	1017.2	1018.6	1015.8
	SD	9.926	8.996	7.814	7.405	6.517	5.401	4.565	4.972	7.609	7.595	9.463	9.905	7.950
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
0800	MEAN	1019.8	1018.0	1015.5	1014.8	1013.7	1014.0	1014.6	1015.5	1016.5	1017.7	1017.8	1019.0	1016.4
	SD	9.935	9.051	7.988	7.496	6.523	5.419	4.656	5.036	7.599	7.684	9.501	9.781	7.985
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1100	MEAN	1020.2	1018.0	1015.2	1014.4	1013.2	1013.4	1014.3	1015.0	1016.1	1017.2	1017.6	1019.3	1016.1
	SD	9.951	9.085	8.035	7.558	6.665	5.435	4.638	5.044	7.513	7.748	9.578	9.809	8.086
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1400	MEAN	1018.6	1016.6	1013.9	1013.1	1012.0	1012.4	1013.1	1013.6	1014.8	1015.8	1016.3	1017.9	1014.8
	SD	9.820	8.955	7.958	7.405	6.633	5.427	4.602	5.146	7.407	7.637	9.583	9.735	7.990
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1700	MEAN	1019.1	1016.6	1013.9	1012.6	1011.6	1011.8	1012.4	1012.9	1014.5	1016.0	1016.9	1018.7	1014.7
	SD	9.726	8.822	7.859	7.220	6.455	5.288	4.623	5.100	7.336	7.535	9.578	9.679	8.043
	TOT OBS	310	283	310	300	309	300	310	310	300	309	300	310	3651
2000	MEAN	1019.7	1017.6	1014.9	1013.3	1012.1	1012.1	1012.7	1013.6	1015.5	1017.0	1017.6	1019.3	1015.4
	SD	9.837	8.734	7.688	7.182	6.255	5.124	4.535	4.993	7.271	7.517	9.617	9.774	8.029
	TOT OBS	310	283	310	300	309	300	310	310	300	310	300	310	3652
2300	MEAN	1019.4	1017.4	1014.9	1013.7	1012.8	1013.2	1013.8	1014.3	1015.6	1016.8	1017.3	1019.1	1015.7
	SD	9.815	8.724	7.757	7.355	6.295	5.206	4.525	5.014	7.340	7.586	9.703	9.898	7.954
	TOT OBS	310	283	310	300	309	300	310	310	300	310	300	310	3652
ALL HOURS	MEAN	1019.4	1017.3	1014.7	1013.7	1012.7	1012.9	1013.7	1014.2	1015.5	1016.7	1017.2	1018.8	1015.6
	SD	9.873	8.926	7.872	7.415	6.507	5.383	4.661	5.092	7.466	7.631	9.580	9.815	8.016
	TOT OBS	2480	2264	2480	2400	2477	2400	2480	2480	2400	2479	2399	2480	29219

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

ALTIMETER SETTING IN INCHES
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0200	MEAN	29.98	29.94	29.90	29.91	29.92	29.96	30.00	30.01	30.00	30.01	29.96	29.96	29.96
	SD	.254	.228	.207	.199	.175	.146	.126	.136	.198	.204	.239	.242	.203
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
0500	MEAN	29.98	29.94	29.90	29.92	29.93	29.97	30.01	30.02	30.01	30.01	29.96	29.96	29.97
	SD	.255	.230	.211	.199	.179	.149	.127	.138	.201	.206	.237	.243	.205
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
0800	MEAN	29.98	29.95	29.91	29.94	29.94	29.98	30.03	30.04	30.02	30.02	29.96	29.96	29.98
	SD	.254	.232	.217	.204	.183	.152	.130	.141	.203	.209	.240	.240	.208
	TOT OBS	310	283	310	299	310	300	310	310	300	310	300	310	3652
1100	MEAN	30.00	29.96	29.91	29.93	29.93	29.97	30.01	30.03	30.02	30.02	29.97	29.98	29.98
	SD	.255	.235	.219	.206	.186	.153	.129	.141	.201	.212	.242	.242	.209
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1400	MEAN	29.96	29.92	29.88	29.90	29.90	29.94	29.98	29.99	29.99	29.98	29.94	29.94	29.94
	SD	.252	.230	.217	.201	.184	.151	.128	.143	.197	.208	.242	.240	.206
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1700	MEAN	29.97	29.92	29.88	29.88	29.88	29.92	29.95	29.97	29.97	29.98	29.95	29.96	29.94
	SD	.248	.225	.213	.195	.177	.146	.127	.141	.193	.204	.241	.237	.203
	TOT OBS	310	283	310	300	309	300	310	309	300	309	299	310	3649
2000	MEAN	29.98	29.94	29.90	29.90	29.90	29.93	29.97	29.99	29.99	30.00	29.96	29.97	29.95
	SD	.249	.222	.208	.191	.171	.142	.124	.138	.191	.202	.242	.241	.201
	TOT OBS	310	283	309	300	309	300	310	310	300	310	300	310	3651
2300	MEAN	29.98	29.94	29.91	29.91	29.92	29.96	30.00	30.01	30.01	30.01	29.96	29.97	29.97
	SD	.249	.223	.209	.196	.171	.143	.123	.137	.194	.204	.243	.244	.202
	TOT OBS	310	283	310	300	309	300	310	310	300	310	300	310	3652
ALL HOURS	MEAN	29.98	29.94	29.90	29.91	29.92	29.95	29.99	30.01	30.00	30.00	29.96	29.96	29.96
	SD	.252	.228	.213	.200	.179	.149	.129	.141	.198	.207	.241	.241	.205
	TOT OBS	2490	2263	2479	2399	2477	2400	2480	2479	2400	2479	2399	2480	29215

FORM NO 413

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

STATION PRESSURE IN INCHES
FROM HOURLY OBSERVATIONS

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0200	MEAN	26.34	26.31	26.28	26.29	26.29	26.33	26.36	26.38	26.37	26.37	26.33	26.33	26.33
	SD	.229	.205	.186	.179	.158	.132	.113	.122	.179	.184	.216	.217	.183
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
0500	MEAN	26.34	26.31	26.28	26.30	26.30	26.34	26.38	26.38	26.37	26.37	26.33	26.33	26.33
	SD	.230	.207	.190	.179	.161	.135	.114	.124	.181	.186	.214	.219	.185
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
0800	MEAN	26.35	26.32	26.29	26.31	26.32	26.35	26.39	26.40	26.39	26.38	26.33	26.33	26.35
	SD	.229	.210	.196	.183	.165	.137	.117	.127	.183	.188	.216	.217	.187
	TOT OBS	310	283	310	299	310	300	310	310	300	310	300	310	3652
1100	MEAN	26.37	26.33	26.29	26.31	26.30	26.34	26.38	26.39	26.38	26.38	26.34	26.34	26.35
	SD	.230	.211	.197	.185	.168	.137	.117	.126	.181	.192	.218	.218	.188
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1400	MEAN	26.33	26.30	26.26	26.28	26.27	26.31	26.35	26.36	26.35	26.35	26.31	26.31	26.32
	SD	.227	.207	.195	.181	.166	.136	.115	.129	.177	.187	.218	.216	.186
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1700	MEAN	26.34	26.30	26.26	26.26	26.26	26.29	26.32	26.34	26.34	26.35	26.32	26.33	26.31
	SD	.223	.203	.192	.175	.160	.132	.114	.127	.174	.184	.218	.214	.183
	TOT OBS	310	283	310	300	309	300	310	309	300	309	299	310	3649
2000	MEAN	26.35	26.31	26.27	26.28	26.28	26.30	26.34	26.35	26.36	26.36	26.33	26.34	26.32
	SD	.225	.200	.187	.172	.154	.128	.112	.124	.172	.182	.218	.217	.181
	TOT OBS	310	283	309	300	309	300	310	310	300	310	300	310	3651
2300	MEAN	26.35	26.31	26.28	26.29	26.30	26.33	26.37	26.37	26.37	26.37	26.32	26.35	26.33
	SD	.219	.201	.190	.173	.155	.127	.111	.122	.177	.186	.219	.220	.182
	TOT OBS	310	283	310	300	307	300	310	310	300	310	300	312	3652
ALL HOURS	MEAN	26.35	26.31	26.28	26.29	26.29	26.32	26.36	26.37	26.37	26.37	26.33	26.33	26.33
	SD	.227	.206	.192	.179	.162	.134	.116	.127	.179	.186	.217	.217	.185
	TOT OBS	2480	2263	2479	2399	2475	2400	2480	2479	2400	2479	2399	2482	29215

FORM NO 413

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT        GGGGGG
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT      GGGGGGGG
PP      PP     AA    AA     RR     RR        TT          GG      GG
PP      PP     AA    AA     RR     RR        TT          GG
PPPPPPPPP      AA    AA     RRRRRRRRR       TT          GG
PPPPPPPP       AAAAAAAAAA     RRRRRRRR      TT          GG   GGGG
PP             AAAAAAAAAA     RR    RR      TT          GG   GGGG
PP             AA    AA     RR     RR      TT          GG      GG
PP             AA    AA     RR     RR      TT          GGGGGGGG
PP             AA    AA     RR      RR     TT           GGGGGG
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FORM NO 413

PART G

CROSSWIND SUMMARY

CROSSWIND SUMMARIES.
THESE TABLES ARE CREATED FROM HOURLY AND SPECIAL OBSERVATIONS (INCLUDING PEAK GUST REMARKS). THE TABLES ARE SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY MONTH (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).

THE TABLES GIVE PERCENT OCCURRENCE FREQUENCY (POF) OF THE "CROSS-RUNWAY WIND COMPONENT" FOR THE WIND SPEED CLASSES SPECIFIED IN THE TABLE HEADINGS. THERE ARE TWO COMPONENT CATEGORIES:

THE FIRST COMPONENT IS COMPUTED FROM THE REPORTED WIND DIRECTION AND WIND SPEED FROM HOURLY RECORD OR RECORD-SPECIAL OBSERVATIONS.

THE SECOND COMPONENT IS COMPUTED FROM THE HIGHEST REPORTED WIND SPEED AND DIRECTION FROM ALL OBSERVATIONS INCLUDING REMARKS, GUSTS, AND SPECIAL OBSERVATIONS.

OBSERVATION COUNTS INCLUDE CALM WINDS.

VARIABLE WINDS ARE CONSIDERED A DIRECT CROSSWIND IF THE SPEED EQUALS OR EXCEEDS THE SPECIFIED THRESHOLD WIND SPEED VALUE(S).

A TOTAL OBSERVATION COUNT IS INCLUDED.

FORM NO 433

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: JAN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.8			930	.4			930	.2	.1		930	1.5	.1		930
CATEGORY B	1.1	.5		1084	1.9	.7	.3	1096	2.5	.9	.5	1169	3.6	1.4	.4	1182

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.7	.1		930	1.4	.1		930	.9			930	.9	.3	.1	930
CATEGORY B	5.2	1.8	.8	1121	3.9	1.5	.3	1089	2.2	.4		1067	2.0	.8	.5	1089

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.1	.1		4650	1.0	.1	.0	7440
CATEGORY B	3.5	1.2	.4	5627	2.8	1.0	.3	8896

FORM NO 413-3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: FEB

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2			849	.1			849	.4			849	1.4			849
CATEGORY B	.7	.1		1004	.4	.2	.1	1040	1.3	.1	.1	1113	2.2	.8	.1	1104

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	2.7	.9	.2	849	2.2	.6	.2	849	.7	.4		849	.4	.1		849
CATEGORY B	5.5	2.4	1.2	1064	4.3	1.6	.8	1018	2.1	.6	.3	1004	.7	.2	.2	1046

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.5	.4	.1	4245	1.0	.3	.1	6792
CATEGORY B	3.1	1.1	.5	5303	2.2	.8	.3	8393

FORM 0-2

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: MAR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.9	.2		930	.4	.1		930	.6	.1		930	2.3	.3		930
CATEGORY B	2.5	.9	.6	1159	1.0	.6	.2	1152	2.1	.9	.3	1282	5.3	2.0	.9	1219

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	4.6	.9	.3	930	4.6	.8	.2	930	2.2	.4	.1	930	.3			930
CATEGORY B	9.4	4.9	2.5	1206	10.7	5.8	2.2	1169	4.0	1.9	1.1	1110	1.2	.4		1121

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	2.9	.5	.1	4650	2.0	.3	.1	7440
CATEGORY B	6.2	3.1	1.4	5936	4.5	2.2	1.0	9418

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: APR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2			900	.7			900	.4			900	2.7	.2		900
CATEGORY B	1.4	.5		1022	2.2	1.0	.3	1051	1.7	.3		1121	7.9	2.7	.7	1056

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	5.9	1.1	.2	900	5.0	.7		900	3.3	.4	.1	900	.7			900
CATEGORY B	13.8	6.5	2.6	1074	12.7	6.0	1.9	1067	7.3	3.2	.9	1036	2.1	.6		1006

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	3.5	.5	.1	4500	2.4	.3	.0	7200
CATEGORY B	3.6	3.7	1.2	5354	6.2	2.6	.8	8433

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: MAY

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.9	.2		930	1.4			930	1.4	.3	.1	930	2.0	.3		930
CATEGORY B	2.1	1.1	.3	1047	2.6	1.6	.4	1063	2.9	1.8	1.0	1101	6.6	3.0	1.5	1119

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	3.4	.8		930	5.1	.5	.1	929	3.8	.3	.1	927	1.1	.2	.1	927
CATEGORY B	11.9	5.3	2.4	1149	13.9	7.3	1.9	1184	8.1	3.5	1.5	1130	3.1	1.8	.8	1066

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	3.1	.5	.1	4646	2.4	.3	.1	7433
CATEGORY B	8.8	4.3	1.7	5683	6.6	3.3	1.2	8859

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: JUN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3			899	.4			900	.2			900	1.9			900
CATEGORY B	1.3	.6	.1	1012	.8	.7	.4	989	.9	.1		992	6.0	2.3	.4	989

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.9	.6		900	3.8	1.0	.3	900	2.7	.3		900	.8	.1		900
CATEGORY B	10.0	3.6	.9	1055	12.3	5.0	2.0	1098	7.9	3.6	1.7	1102	3.1	1.4	.4	1041

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	2.1	.4	.1	4500	1.5	.3	.0	7199
CATEGORY B	7.6	3.0	1.1	5236	5.4	2.2	.8	8278

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: JUL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.4	.1		930	.1			930	.2			930	.3			930
CATEGORY B	.8	.4	.3	1007	.3			1030	.4	.2		1014	3.0	.6	.1	984

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.7	.3		930	2.9	.1		930	2.7	.3		930	.4			930
CATEGORY B	7.6	3.2	1.3	1007	12.2	4.5	1.3	1086	8.1	3.5	1.1	1078	1.3	.3	.2	1011

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.6	.2		4650	1.1	.1		7440
CATEGORY B	6.4	2.5	.9	5169	4.3	1.6	.5	8217

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT PERIOD OF RECORD: JUN 78 - MAY 88
LST TO UTC: + 7 MONTH: AUG

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A				930				930	.1			930	.9			930
CATEGORY B	.8	.1		1009	.3	.1		999	.7	.1		1002	2.2	1.3	.2	1007

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.1	.2		930	2.7	.2		930	1.5	.2	.2	930	.2			930
CATEGORY B	6.3	1.9	.9	1012	10.7	4.5	1.4	1090	5.7	2.6	1.0	1081	1.9	.5	.2	1051

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.2	.1	.0	4650	.8	.1	.0	7440
CATEGORY B	5.2	2.1	.7	5192	3.7	1.4	.5	8251

FORM NO 419

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: SEP

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.6	.2		900	.2	.1		900	.4			900	.6			900
CATEGORY B	1.3	.8	.2	1047	1.4	.5	.1	1061	1.4	.6	.3	1079	2.3	.9	.3	1034

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.1	.3		900	2.8	.2		900	1.6	.3		900	.3	.1		900
CATEGORY B	6.0	1.3	.5	1042	8.3	3.5	.7	1038	4.3	2.1	.7	1031	1.5	1.1	.2	1041

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.3	.2		4500	.9	.2		7200
CATEGORY B	4.4	1.7	.5	5224	3.3	1.3	.4	8373

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: OCT

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2			930	.3	.1		930	.8	.3		930	1.0	.3	.1	930
CATEGORY B	1.1	.4	.1	1041	1.0	.6	.5	1075	1.5	.9	.8	1097	2.9	1.2	.9	1069

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.8			930	1.6	.1	.1	930	.2			930	.3			930
CATEGORY B	6.5	2.5	.6	1060	6.5	3.1	1.4	1058	2.0	.7		1018	1.2	.7	.5	1018

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.1	.2	.0	4650	.8	.1	.0	7440
CATEGORY B	3.9	1.7	.8	5302	2.8	1.3	.6	8436

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: NOV

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3			900	.1			900	.1			900	.7	.2		900
CATEGORY B	1.6	.4	.1	1021	.7	.3	.1	1014	.4	.2	.1	1067	3.7	1.6	.4	1115

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.8	.4	.1	900	1.0	.1		900	.3			900	.1			900
CATEGORY B	6.5	2.5	1.1	1072	4.0	1.3	.6	1057	1.6	.7	.2	1030	.9	.2		1054

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3	.2	.0	4500	.6	.1	.0	7200
CATEGORY B	3.2	1.3	.5	5341	2.4	.9	.3	8430

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: DEC

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.5	.1		930	.3			930	.6			930	.6			930
CATEGORY B	1.4	.8	.5	1059	1.1	.6	.3	1058	2.4	1.3	1.0	1146	2.8	1.0	.3	1148

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	2.9	.1		930	1.9	.2	.1	930	.4			930	.5			930
CATEGORY B	7.0	3.3	.9	1116	4.4	2.4	1.0	1099	1.7	.5		1058	1.1	.6		1054

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.3	.1	.0	4550	1.0	.1	.0	7440
CATEGORY B	3.7	1.7	.6	5567	2.8	1.3	.5	8738

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 026-206

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: JUN 78 - MAY 88
MONTH: ALL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.4	.1		10958	.4	.0		10959	.5	.1	.0	10959	1.3	.1	.0	10959
CATEGORY B	1.4	.5	.2	12512	1.2	.5	.2	12628	1.6	.6	.3	13183	4.0	1.6	.5	13026

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	2.6	.5	.1	10959	2.9	.4	.1	10958	1.7	.2	.0	10956	.5	.1	.0	10956
CATEGORY B	8.0	3.3	1.3	12978	8.7	3.9	1.3	13052	4.6	2.0	.7	12745	1.7	.7	.2	12598

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.8	.3	.0	54791	1.3	.2	.0	87664
CATEGORY B	5.4	2.3	.8	64984	3.9	1.7	.6	102722

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PPPPPPPP      AAAAAA      RRRRRRRR      TTTTTTTTTT      HH      HH
PPPPPPPPP     AAAAAAAA     RRRRRRRRR     TTTTTTTTTT      HH      HH
PP      PP    AA      AA    RR      RR        TT          HH      HH
PP      PP    AA      AA    RR      RR        TT          HH      HH
PPPPPPPPP     AA      AA    RRRRRRRRR         TT          HHHHHHHHHH
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT          HHHHHHHHHH
PP            AAAAAAAAAA    RR    RR          TT          HH      HH
PP            AA      AA    RR     RR         TT          HH      HH
PP            AA      AA    RR      RR        TT          HH      HH
PP            AA      AA    RR       RR       TT          HH      HH
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FORM NO 413

PART H

DEGREE DAY SUMMARIES

DEGREE DAYS.
CREATED FROM HOURLY OBSERVATIONS, THESE TABLES GIVE THE NUMBER OF DEGREE DAYS FOR EACH MONTH IN EACH YEAR OF THE AVAILABLE PERIOD OF RECORD.

INCLUDED BENEATH EACH SUMMARY ARE STATISTICS BASED ON A 30-YEAR (1951-1980) POR (IF AVAILABLE). THE 30-YEAR POR PROVIDES AWS USERS WITH A SUMMARY CONSISTENT WITH OTHER STANDARD CLIMATIC PUBLICATIONS, NOTABLY THOSE OF THE NATIONAL CLIMATIC DATA CENTER (NCDC). NOTE THAT THE 30-YEAR POR WILL CHANGE TO 1961-1990 AS SOON AS DATA FOR DECEMBER 1990 HAS BEEN PROCESSED.

ASTERISKS (****) DENOTE A MISSING MONTH WITH A DAY (OR DAYS) THAT CANNOT BE CALCULATED AUTOMATICALLY.

HEATING DEGREE DAYS.
ONE "HEATING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE MEAN TEMPERATURE FALLS BELOW A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE ON A GIVEN DAY IS 57 DEGREES, THAT DAY IS SAID TO HAVE 8 HEATING DEGREE DAYS.

COOLING DEGREE DAYS.
ONE "COOLING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE TEMPERATURE RISES ABOVE A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE FOR A GIVEN DAY IS 73 DEGREES, THAT DAY IS SAID TO HAVE 8 COOLING DEGREE DAYS.

*65 DEGREES FAHRENHEIT HAS BEEN SELECTED AS THE NATIONWIDE STANDARD "BASE TEMPERATURE" AT WHICH (AT LEAST THEORETICALLY) NO HEATING OR COOLING IS REQUIRED. IF ANOTHER BASE TEMPERATURE IS USED IN THESE TABLES, IT WAS SPECIALLY REQUESTED BY THE STATION, AND IS NOTED.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

HEATING DEGREE DAYS
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: DEC 42 - MAY 88

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1942												1091	1091
1943	1680	966	1261	463	456	260	37	14	180	385	757	984	7443
1944	932	1151	1221	511	243	212	36	51	180	270	918	1063	6788
1945												1342	1342
1946	995	887	701	420	410	114	5	46	238	716	1080	1105	6717
1947	1187	1166	1154	543	284	177		42	272	398	1026	1038	7287
1948	1077	1296	1135	635	352	136	31	6	180	428	833	1438	7537
1949	1656	1306	1020	395	256	133	16	4	191	696	510	1380	7563
1950	2120	804	1089	699	418	196	49	39	284	464	983	1008	8153
1951	1422	1137	1392	698	333	307	57	105	339	689	853	1444	8776
1952	1466	1063	1101	399	277	99	46	52	98	413	898	1073	6985
1953	983	901	846	746	444	160	13	7	141	314	598	971	6124
1954	1703	689	1201	822	350	243	16	47	259	575	530	888	7373
1955	1214	1221	1281	714	453	153	86	6	291	439	1364	1323	8545
1956	1372	1180	939	684	319	77	32	62	180	498	757	1098	7198
1957	1731	1169	941	644	239	106	6	51	172	739	876	812	7486
1958	840	1152	1128	605	131	172	94	10	213	389	923	1076	6733
1959	1275	1331	801	624	488	104	22	55	301	610	1012	825	7448
1960	1277	1167	1013	641	403	108	6	68	175	434	864	1040	7196
1961	967	773	791	711	304	10	2	6	422	528	1003	1387	6904
1962	1406	1217	1198	464	379	121	46	43	208	394	697	998	7171
1963	1585	773	700	636	384	164	28	27	87	320	825	1295	6824
1964	1163	958	1220	706	362	177	5	118	356	405	980	1569	8019
1965	1296	1106	1397	662	484	245	46	82	603	360	948	1182	8411
1966	1607	1065	870	745	333	223	17	110	130	558	1068	1200	7926
1967	1210	907	1216	931	485	259	25	7	137	487	883	1266	7813

1968	1314	978	759	724	509	234	73	108	289	547	860	1480	7875
1969	2060	1337	1206	499	318	213	42	23	144	755	755	1125	8477
1970	1531	943	1152	831	419	123	24	35	376	691	1059	1379	8563
1971	1569	1051	1102	696	423	223	88	12	376	662	910	1493	8605
1972	1598	1271	836	682	367	96	127	26	353	673	864	1410	8303
1973	1210	997	809	729	339	145	22	33	237	486	1141	1000	7148
1974	1377	834	953	537	515	104	6	116	349	453	815	1044	7103
1975	1275	1427	1140	979	429	217	18	97	280	595	944	1080	8481
1976	1126	963	1046	599	291	241	16	32	148	587	868	1006	6923
1977	1326	730	958	540	428	99	49	142	294	570	1026	1456	7618
1978	1732	1385	969	575	364	79	36	60	253	456	1145	1454	8508
1979	1772	1295	879	702	423	83	6	5	79	476	947	1019	7686
1980	1373	1008	960	332	232	146	22	79	249	509	738	1222	6870
1981	1025	919	792	542	364	194	25	15	182	597	717	1121	6493
1982	1751	1141	1044	731	452	121	28	13	261	562	1022	1171	8297
1983	1010	753	840	633	377	106	47		308	447	833	1808	7162
1984	1047	820	899	572	376	159	11	19	389	705	793	1414	7204
1985	1326	1165	933	491	243	121	4	120	473	609	1493	1265	8243
1986	832	1274	631	647	374	30	52	22	408	463	992	960	6685
1987	976	766	853	302	235	76	62	104	140	470	686	974	5644
1988	1219	989	765	453	205								3631
MEAN	1289	1008	960	593	346	143	31	45	238	485	847	1167	
SD	408.11	288.92	277.20	189.31	113.71	74.33	28.16	40.11	124.20	175.49	286.18	266.19	

****SPL 30YR SUMMATION (1951 -1980)****

MEAN	1379	1060	1006	656	375	153	34	51	246	517	902	1176
SD	220.92	174.39	172.00	116.80	85.53	59.13	40.26	46.80	91.11	118.49	163.67	194.35

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

COOLING DEGREE DAYS
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 727755 STATION NAME: MALMSTROM AFB MT
LST TO UTC: + 7

PERIOD OF RECORD: DEC 42 - MAY 88

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1943					3	4	163	134	28	13			345
1944					22	27	147	77	38	2			313
1946					3	34	220	144	29				430
1947					8	3	274	121	41	5			452
1948					2	49	87	140	53				331
1949					31	53	152	237	24				497
1950					2	31	108	64	50				255
1951					8	9	184	85	4	3			293
1952				5		31	131	129	33				329
1953					2	26	216	168	45	7			464
1954					16	20	235	79	10				360
1955						30	154	187	45	1			417
1956					23	59	203	107	37				439
1957					3	42	252	120	31	3			451
1958					59	18	77	223	48	14			439
1959						58	216	116	33				423
1960					15	36	331	105	46	3			536
1961					13	172	206	286	13	4			694
1962				4		38	75	156	14	3			290
1963					4	36	152	146	107	13			458
1964					9	28	140	75	6				258
1965						5	62	82		3			152
1966					7	14	154	75	52				302
1967						5	124	168	65				362
1968						17	95	55	11				178
1969					10	27	95	171	54				357

1970			1	79	130	131	5	3	349
1971				22	73	261	5		362
1972			15	75	78	139	1		308
1973			7	64	150	182	16		419
1974				99	193	38	7	1	338
1975			1	2	166	28	5		202
1976			2	14	110	87	27	3	243
1977				55	100	35	10		200
1978			1	75	121	106	33		336
1979				78	165	162	84	7	496
1980		12	39	20	143	45	17	12	288
1981			1	20	101	176	5		351
1982			3	32	120	163	9		368
1983			17	21	134	323	3	1	521
1984			14	56	184	245	5		524
1985			19	68	303	76			466
1986			39	95	43	125	4		306
1987		17	30	82	140	55	24	6	354
1988			21						21
MEAN		0	9	39	142	123	27	2	
SD		3.05	12.94	33.61	72.50	73.80	23.74	3.82	

****SPL 30YR SUMMATION (1951 -1980)****

MEAN	0	7	42	148	127	30	2
SD	1.41	4.12	39.23	148.78	122.35	25.67	1.73