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Research Report

The Ocean Breeze and Dry Gulch Diffusion Programs Volume I

Edited by

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METEOROLOGY LABORATORY

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Abstract

Field diffusion programs were conducted at Cape Canaveral, Florida and Vandenberg AFB, California during 1961 and 1962. These programs, nicknamed Ocean Breeze and Dry Gulch respectively, were undertaken to establish quantitative diffusion predictions for use as range safety tools at the missile test ranges. The programs culminated at each range with the installation of an automatic computer-controlled meteorological data acquisition and processing system now in continuous operation at the bases. These systems have been named Weather Information Network Display (WIND) systems.

Volume I describes the diffusion experiments that were conducted as well as summaries of the resulting experimental data. Volume II is devoted to analyses of the data to develop diffusion prediction equations, description of the WIND systems, recommendations for operational use of the prediction equation and WIND systems, and preliminary climatological summaries for each missile test range.

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Preface, Volume I

During November 1960, the Air Force Ballistics Systems Division requested the Air Force Cambridge Research Laboratories to undertake an extensive program involving field diffusion experiments and micrometeorological instrumentation at Cape Canaveral, Florida and Vandenberg AFB, California. The motivation for the program arose from planned launches of missiles employing toxic propellants. Range safety procedures that had been developed prior to this time were completely inappropriate for air pollution problems. In fact, air pollution problems in general involved range safety concepts that were unfamiliar to many of the people concerned. The purpose of the effort, then, was twofold:

- (1) To design and conduct diffusion experiments in the field in order to develop quantitative, reliable statements of air pollution hazard or potential at all times.
- (2) To provide the range safety officials and the staff meteorologists with an operationally useful system for describing the state of the atmospheric boundary layer as defined by the parameters of the air pollution problem.

Part of the first objective was undertaken jointly by AFCL and the General Electric Company's Atmospheric Physics Operation Group at Richland, Washington. Accomplishment of this objective has resulted in a large amount of diffusion data which are presented in Volume I. The analyses of these data and the design of a system to use the results of the analyses represent an operationally oriented answer to a specific air pollution problem and are presented as Volume II. Presently, Volume II can be distributed only to agencies with a 'need to know' requirement. It is anticipated that an unrestricted distribution of Volume II will occur sometime during 1965.

Diffusion data and supporting meteorological data are presented for a total of 76 experiments at Cape Canaveral and 109 experiments at Vandenberg AFB. These data significantly implement the store of existing data obtained from field diffusion experiments that would not have been possible without the efforts of many people who gave freely of their time and interest in gathering these data.

The many people who have contributed to the effort are among those acknowledged in the appropriate chapters of this report or are authors of specific chapters. We are happy to take this opportunity to extend our thanks to everyone concerned for their efforts on this problem.

D. A. Haugen, AFCRL

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THE OCEAN BREEZE AND DRY GULCH DIFFUSION PROGRAMS

I. Design of the Diffusion Experiments — Projects Ocean Breeze and Dry Gulch

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1. INTRODUCTION

Here the various measurements that were made during the field work at Cape Canaveral and Vandenberg AFB will be outlined. These experiments and the resulting data are properly classified as 'engineering information'. For scientists intimately concerned with assessing air pollution hazards, the data are quite useful since they represent a large sample of diffusion data from two geographical locations differing widely in terrain, vegetation, and climate from any other site of similar experimental work. For ease in discussion, the field diffusion efforts have been nicknamed as follows: Project Ocean Breeze for the experiments at Cape Canaveral; Project Dry Gulch for those at Vandenberg AFB.

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2. DESIGN OF TRACER EXPERIMENTS

To assess the pollution problem of a potential accident associated with a missile system, one should simulate the modes of toxic releases that are possible, and sufficiently sample the air at various distances and azimuths downwind from the release point so that the exposure levels will be accurately established. It is also necessary to measure the meteorological variables in and about the area of the trajectory of the release so that the relation between these and diffusion parameters obtained from sampling the cloud will be determined. When this dependency is known, the basis for the prediction of exposure levels and cloud widths has been formulated and the micrometeorological system is operational.

Discussions with various people concerned with general air pollution problems at Cape Canaveral and Vandenberg quickly revealed that the majority of conceivable and probable accidents could be characterized by ground-based continuous point sources of pollutant. There was, at that time, considerable data available from continuous point-source diffusion experiments. Notable examples of relatively extensive, sophisticated diffusion experiments are the Prairie Grass data, obtained at O'Neill, Nebraska in 1956,¹ and the Green Glow data, obtained at Richland, Washington in 1959.² Because of the availability of these data, it was necessary only to design experiments that would highlight operationally significant differences, if any, between the various sets of data.

The period of emission chosen for the diffusion experiments was 30 minutes. Very limited knowledge is presently available about actual pollutant emission periods at the missile ranges. It is known that actual pollutant emission periods could vary from a few minutes to a few hours, depending on the total amount of propellant spilled, whether it is spilled into a catch basin and drained or burned off, whether a fuel-oxidizer mixture is present, whether water is mixed with a spill - to cite some of the factors leading to emission period variability. Thus, from the point of view of accident simulation, the choice of a 30-min emission period could be considered somewhat arbitrary; in practice, the diffusion results to be presented can be used with confidence to assess the advisability of any given operation with toxic materials. However in the case of an actual accident, the interpretation of the diffusion results must account for significant differences in emission periods as well as possible effective source heights.

The actual choice of the emission period was made only after consideration of two other aspects of the problem. One was the general scale or scope of the particular problem that was determined to be of the order of 2 to 5 mi for unstable conditions, and 10 to 40 mi for stable conditions. The other was the predominance of an on-shore or sea-breeze circulation during the daylight hours at both sites for practically the entire year. It was desirable to study the sea-breeze situation in

particular, since an 'a priori' range safety rule had been established at both sites that effectively precluded all operations with toxic propellants during on-shore wind conditions. Therefore it was necessary to determine actual turbulent diffusion characteristics under sea breeze conditions as accurately as possible. Since this meant that the most important experiments for operational purposes would be conducted under unstable conditions, an emission period as long as possible was chosen in order to obtain nearly 'steady-state' sampling periods.

The criteria for the operation of the diffusion experiments and the geometry of the sampling grids at Cape Canaveral and Vandenberg were formulated on climatological data of those sites, physical characteristics at those locations, and most important, on the experience from prior tests at Hanford that used the same experimental techniques. The initial design criteria included the following features:

- a. Sampling would be conducted along arcs concentric about the source at radial distances dictated by the scale of the problem.
- b. Where possible, the arcs were to be spaced logarithmically from the source.
- c. The tracer material would be released from a ground-level source.
- d. The period of emission would be 30 min as previously discussed.

In addition, features peculiar to the use of the Hanford Tracer System had to be factored into the design. These were as follows:

- e. Maximum release rate for the dispersal of the tracer was not to exceed 8 kg per hour.
- f. The sample-assaying system employed the Rankin Counter, an automatic zinc sulfide particle detector, which is described in Chapter II. The sample assaying was to be conducted at the Hanford Plant.
- g. Centerline or peak exposures should be at least 100 times the background count to insure the required accuracy in arewise dispersion estimates.
- h. Field samplers would be in operation well before and after the passage of the cloud providing measurements of dosage rather than concentration.

3. CAPE CANAVERAL - OCEAN BREEZE EXPERIMENTS

The Ocean Breeze source point was located between Launch Pads 15 and 16 approximately 350 yd inland from the coastline. The diffusion course consisted of three arcs concentric on the source point at radii of 0.75, 1.5, and 3.0 miles. Samplers were placed at 2° intervals on Arcs 1 and 2, and 1.5° intervals on Arc 3. Arcs 1 and 2 extended from 152° through south to 340° azimuth bearing on the source point; Arc 3 from 152° through south to 236.5° azimuth bearing on the source point. A schematic diagram of the Ocean Breeze sampling course is shown in Figure 1. (An aerial photograph of Cape Canaveral is shown in Figure 2 which also includes the sampling arc service roads.) It should be noted that the orientation of

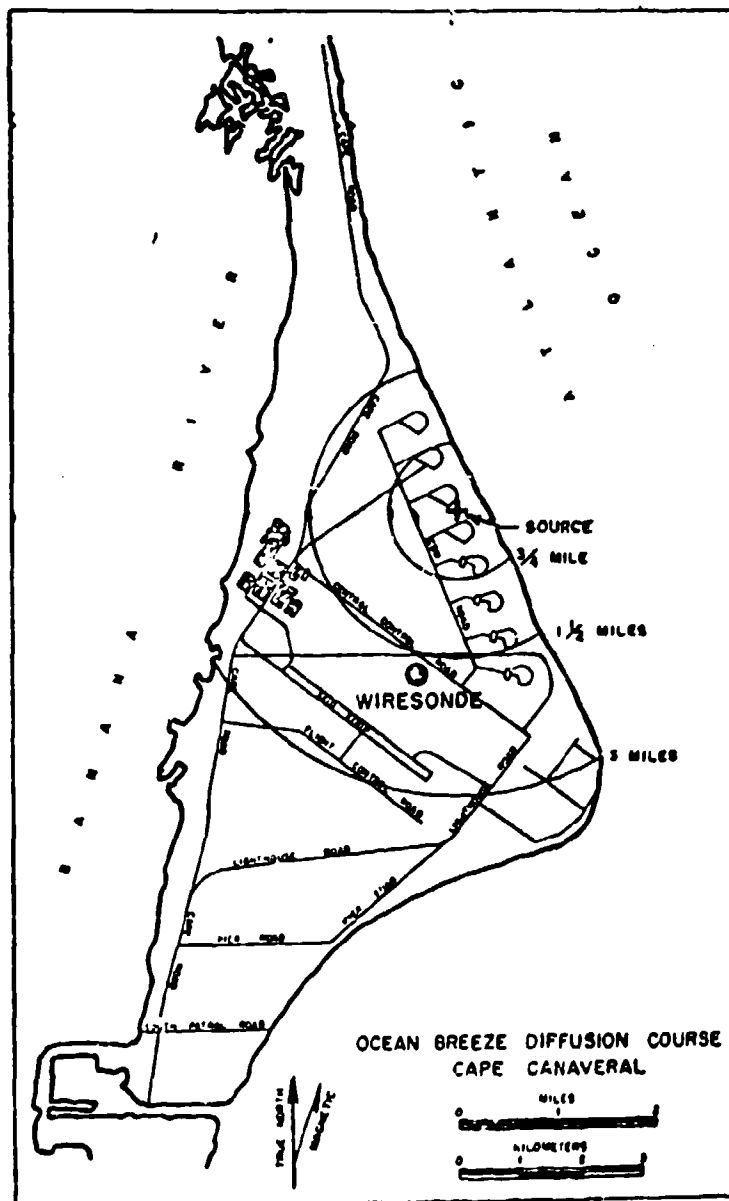


Figure 1. Ocean Breeze Diffusion Course Layout

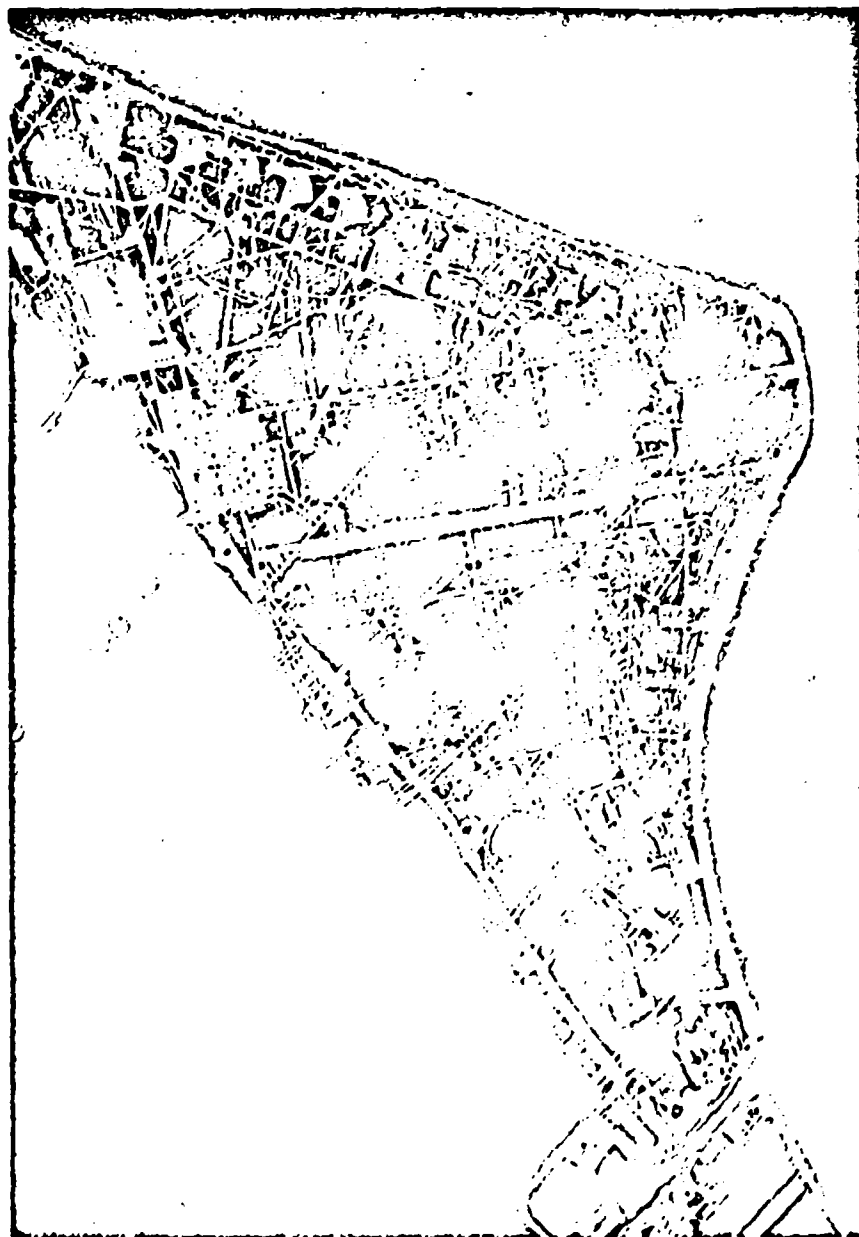


Figure 2. Aerial Photograph of Cape Canaveral Showing Sampling Arc
Service Roads

the course was such that Arc 3 could only be used with northerly winds, a wind direction which occurs fairly frequently during the winter at Canaveral. Most of the Ocean Breeze experiments were conducted during sea-breeze conditions, or under easterly winds. Therefore, most of these data are restricted to Arcs 1 and 2.

The terrain at Canaveral consists generally of rolling sand dunes 10- to 20-ft high. Much of the diffusion course was covered with dense palmetto growth and brushwood. The palmetto varies in height from about 2 to 5 ft; the brushwood from about 7 to 14 feet. (See Figure 3 for a typical photograph of Canaveral vegetation.) Because of the dense vegetation, all filters were placed at 15 ft above local ground level. To enable a rough check on the degree of vertical mixing within the cleared areas along each arc, an additional 15 filters each were installed at 5-ft heights on Arcs 1 and 2 at azimuth positions of 240°, 246°, 252°, 258°, 264°, 270°, 276°, 282°, 288°, 294°, 300°, 306°, 312°, 318°, and 324°. A summary of comparison between observed 5- and 15-ft concentrations is presented in Chapter II.



Figure 3. Palmetto and Brush Growth Typical of Much of Cape Canaveral Vegetation

Preparation of the diffusion course was accomplished by a local company under contract to the Air Force Missile Test Center (AFMTC), according to specifications furnished by AFMTC. This work included clearing out the vegetation for the source

point and sampling arcs, surveying the positions of the filters and source point, installing the sampling posts, providing electrical power at the source point, and constructing service roads behind each sampling arc. Pan-American Airways, Inc., the AFMTC range contractor, provided the hose, vacuum pumps, gasoline engines, and hardware necessary to instrument each sampling position. Pan-American also provided the radio-equipped trucks and personnel necessary to operate the diffusion course.

Technical supervision of the diffusion experiments was provided by personnel of the Atmospheric Physics Operation, General Electric Company, Richland, Washington. This consisted of training the field crew, scheduling each diffusion experiment within the framework of other activities and favorable wind and stability conditions at Canaveral, and maintaining a close check for anomalies in the operation of the generators and samplers. General Electric also furnished all the filters and tracer material necessary for the experiments, and provided AFCRL with a tabulation of the diffusion data resulting from each experiment.

4. VANDENBERG AFB - DRY GULCH EXPERIMENTS

The terrain at Vandenberg is extremely complex, about as far removed from an ideal flat plane as one could imagine. Significant terrain features consist of a broad mesa 200 to 300 ft in elevation sloping to the west with a 40- to 60-ft bluff at the coastline and rugged foot-hills and ridges inland. The mesa is cut up by several sharp, fairly deep ravines and has well-defined valley systems at its northern and southern edges. Both valley systems are oriented roughly along WNW to ESE lines; the northernmost valley (San Antonio Valley) being fairly narrow with relatively steep sides, the southernmost valley (Lompoc or Santa Ynez Valley) being quite broad with gently sloping sides. Vegetation at Vandenberg generally consists of grasses to a height of 1 to 2 ft, occasional clumps of brush 5- to 6-ft high and an occasional line of eucalyptus trees to heights of 50 to 80 feet. (See Figures 4, 5 and 6 for typical photographs of Vandenberg terrain and vegetation features.)

The complexity of the terrain at Vandenberg led us to design two Dry Gulch diffusion courses; one up on the mesa, and one along the Lompoc Valley line, both courses being oriented to sample the predominant on-shore sea-breeze circulation. The B-course laid out on the mesa had a source point about 2600-yd inland from the coastline. Two sampling arcs, B-1 and B-2, were surveyed concentric on the source point at radii of 1.43 and 3.52 mi (2301 and 5665 m). Samplers were placed at 2° intervals on Arc B-1 which ran from 87° azimuth through east to 171°. Samplers were placed at 1° intervals on Arc B-2 which ran from 85° azimuth through east to 171°. (See Figure 7).



**Figure 4. Grass
Growth on Burton Mesa,
Vandenberg. Arc B-2
Intersected Line of
Eucalyptus Trees
Shown.**

**Figure 5. Dry Gulch
Service Road Along
Southern End of Arc
D-1. Arc Extends
into Mouth of Lompoc
Valley**

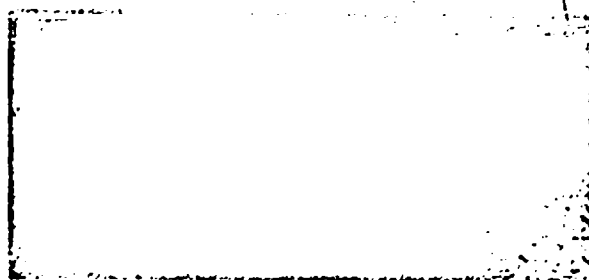


**Figure 6. Dry Gulch
Service Road Along
Arc D-1 Running from
Southern Slopes of
Purisima Hills across
Lompoc Valley into
Hills on Pt. Arguello**

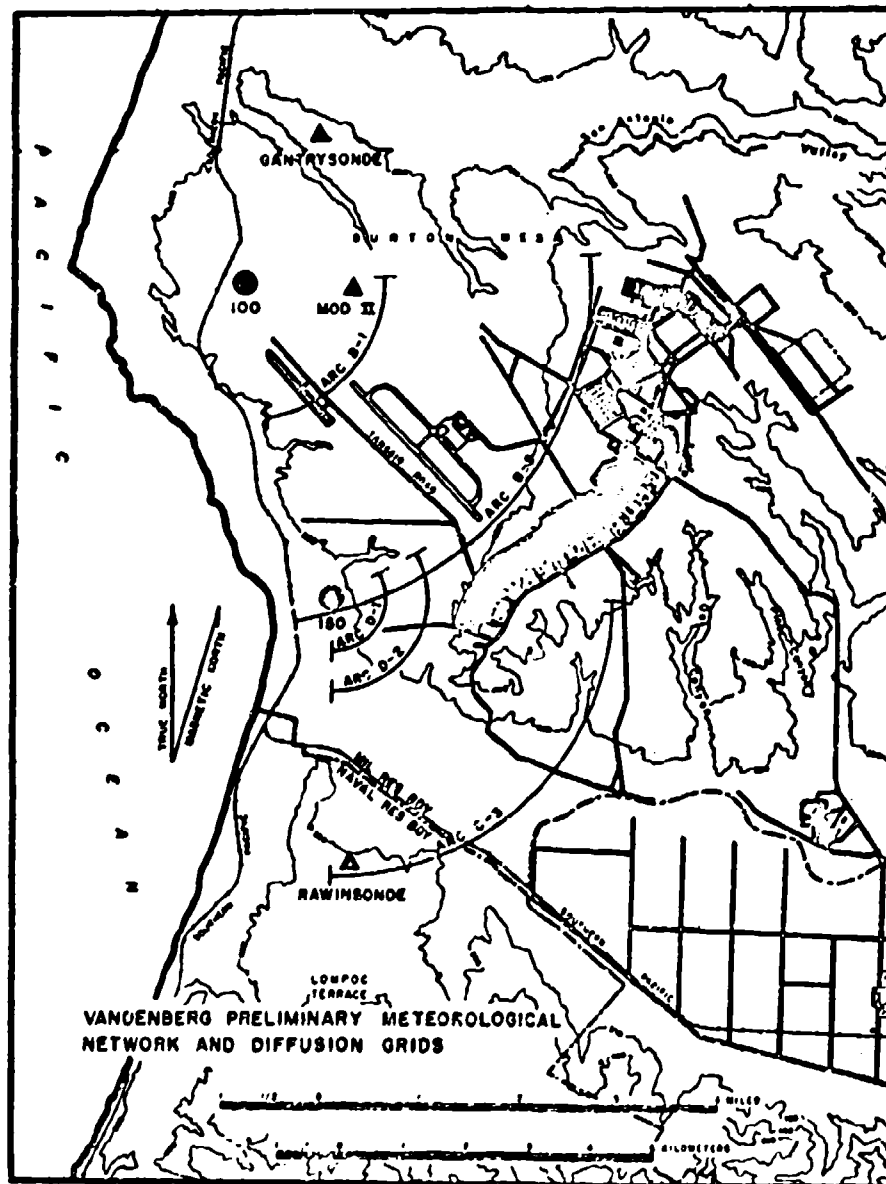


Figure 7. Dry Gulch Diffusion Courses

The D-course laid out along the southern edge of the mesa and up the Lompoc Valley had a source point about 1100-yd inland from the coastline. Three sampling arcs, D-1, D-2, and D-3, were surveyed concentric on the source point at radii of 0.53, 0.93, and 2.93 mi (853, 1500, and 4715 m). Arcs D-1 and D-2 extended from 60° azimuth from the source point to 180°. Arc D-3 extended from 110° to 180° for the first two series of experiments by which time it was discovered that the mean wind direction frequently did not follow terrain features along the valley, but instead followed fairly straight lines across the hills on the north side of the valley. Accordingly, Arc D-3 was extended 20° on the north to 90° for the third and final series of Dry Gulch experiments. Arcs D-1 and D-2 had 2° sampler spacing; Arc D-3, 1° sampler spacing. All sampler heights for Dry Gulch were 1.5 m above local ground level.

Preparation of the diffusion courses consisted of the same activities as outlined for Ocean Breeze. It was accomplished by The Martin Company, Vandenberg, under contract to the Air Force Ballistics Systems Division according to AFCRL specifications. General Electric Company personnel performed the same activities for Dry Gulch as they did for Ocean Breeze.

5. METEOROLOGICAL SUPPORT

Supporting meteorological measurements were taken for each Ocean Breeze experiment by personnel of Pan-American's Cape Weather Station. Wind speed and direction were measured by Belfort Instrument Company's Type M located at the source point and exposed at a height of 12 ft above terrain. (See Figure 8 for a photograph of the Ocean Breeze source point.) Recording was on strip charts that were driven at the rate of 3 in./min for a nominal 60-min period beginning with the tracer emission period. Computations of mean wind speed and the standard deviation of wind direction fluctuations were then made for the 30-min period corresponding to the emission period or, in some cases, a 48-min period starting with the emission period. These data are tabulated in Chapter III.

Temperature profile information was derived from three wiresonde measurements of temperature from the surface to 500 ft read at 50-ft intervals on each ascent and descent of wiresonde captive balloon. The wiresondes were begun about 15 min prior to the beginning of emission and usually took about 45 min for completion. The wiresondes were taken at the Cape Weather Station a few hundred feet downwind from Arc 2 at an azimuth bearing from the source point of about 196°. (See Figure 1.) Mean vertical temperature differences computed from these data are tabulated in Chapter III. It is worthwhile to note here, however, that these data

are more subject to error than all other data obtained during Ocean Breeze simply because of the inherent limitations of the wiresonde observational system.

Detachment 11, 4th Weather Group, Air Weather Service, Patrick AFB provided support to the Ocean Breeze activities by furnishing copies of standard synoptic data for Patrick AFB and Cape Canaveral. These data consist of the WBAN 10A and 10B surface observation forms, copies of the surface synoptic maps analyzed for the area, and rawinsonde data collected from Cape Canaveral by Pan American Airways, Inc. The Weather Detachment also provided wind direction forecasts in direct support of scheduling each Ocean Breeze diffusion experiment. Since these data are standard synoptic data usually readily available to interested parties, they are not presented here. The rawinsonde data, however, are presented.

Supporting meteorological measurements were made for each Dry Gulch experiment by personnel of Detachment 3, 3rd Weather Wing, Air Weather Service. Wind speed and direction were recorded by Belfort Type M wind sets exposed at 12 ft above terrain at each source point. Recording was at the rate of 3 in./min as at Ocean Breeze and the same type of data reduction was accomplished. (See Chapter III.)

Temperature differences for the first 29 Dry Gulch experiments were obtained by 'gantrysonde', a jerry-rigged device utilizing wiresonde instruments mounted on an Atlas gantry. Since this was not a particularly trustworthy method of obtaining temperature difference data, the 'gantrysondes' were replaced by wiresondes. Location of the wiresonde and 'gantrysonde' sites is shown in Figure 7. The mean vertical temperature difference data obtained from these observations are presented in Chapter III.

Between the first and second series of Dry Gulch experiments, it was decided to augment the wiresonde measurements by measuring the temperature difference between 6 and 54 ft on a fixed tower known as the MOD-II site. (See Figure 7.) These measurements were obtained by recording the temperature difference indicated by thermocouple junctions exposed at these heights in wind or naturally-ventilated radiation shields designed, built, and loaned by Dr. William Clayton, Agricultural & Mechanical College of Texas, College Station, Texas.

Between the second and third series of Dry Gulch experiments, one more observational site of vertical temperature difference was established, using 6-junction thermopiles in Beckman-Whitley aspirated shields at heights of 6 and 54 feet. Recording was on Rustak recorders. The site for these observations was near the source point for the D-course. Tabulation of mean vertical temperature differences obtained from these two charts for the Dry Gulch experiments is presented in Chapter III.

In addition to the meteorological support provided by Detachment 3, the U. S. Weather Bureau rawinsonde station at Point Arguello, a support group at the Pacific

Missile Range, made special releases and detailed computations of the wind and temperature profiles up to 700 mb for most of the Dry Gulch experiments. For those experiments that coincided with their regular observation time, the regular rawinsonde observation was used. These rawinsonde data are tabulated in Chapter III. It should be noted, however, that the rawinsonde site is about 8-mi south of and 200-ft higher than the wiresonde site. Vandenberg local circulation patterns are characterized by frequent occurrence of a marine inversion layer, a phenomenon which has possible important effects on air pollution levels. For a discussion of which effects were observed, refer to Volume II, Chapter III of this report.

One other set of meteorological observations made for both Ocean Breeze and Dry Gulch should be mentioned. These consisted of battery-operated Belfort Instrument Company Type C's which were installed at 12 sites at Canaveral and 18 sites at Vandenberg for the purpose of obtaining horizontal wind-trajectory information. These instruments were especially built for these programs, but proved to be unsuccessful. The primary reason for their failure was corrosion of the speed and direction commutators when exposed to high concentrations of sea salt, a problem anticipated but not fully appreciated prior to instrument installation. Personnel of Detachment 3, Vandenberg were particularly industrious and ingenious in maintaining and modifying the Type C wind sets in the field, but the resulting data are deemed insufficient in both quantity and quality to merit tabulation.

6. EXPERIMENTAL TECHNIQUES FOR TRACER EXPERIMENTS

The general method in conducting a dispersion experiment is to release a tracer material into the air at a known and constant rate, and sample the material at various distances and azimuths downwind. The results must be quantitative so that careful design of sampler and assaying systems is essential. In addition, the analysis planned for the data must be at least partially determined in advance so that the final confidence requirements on the data can be factored into each step in the conduct of the experiment.

The atmospheric tracer material used during these experiments was the fluorescent pigment, zinc sulfide, U. S. Radium Corporation designation No. 2210. It is a very fine particulate which fluoresces green under ultraviolet light. The particle size distribution is nearly log-normal with a geometric mean of 2.5 μ and a standard deviation of the logarithms of the diameter of 0.70. The material specific gravity is 4.1.

The fluorescent powder is mixed with a surface active agent, sodium lauryl sulfate, in the ratio of 2 g detergent per kg of pigment. A small amount of water, about 1/2 gal, is added to the dry material and thoroughly mixed with a paint shaker.

Glass beads are added to enhance mixing. The slurry is then transferred to a large formulation tank, where it is further mixed with additional water for at least 20 min before release through the dispenser. The recirculation rate, prior to and during emission, is 4800 gal per hour. Homogeneity of the formulation is checked by drawing samples directly from the intake line of the dispensers during generation.

The fluorescent pigment slurry is dispensed through two standard Todd Insecticidal Fog Applicators (TIFA). The TIFA, shown in Figure 8, is an aerosol fog generator which consists of four primary components: an air blower, which delivers 160 cfm to the atomizer cup, used to atomize the liquid carrier; a combustion chamber, used to heat the air from the blower and aid atomization and evaporation of the carrier; a formulation pump to supply the formulation to the atomizer cup under pressure; and a 7.5 hp gasoline engine to drive the blower and the pump and, also, to supply a continuous electric spark to fire the combustion chamber.

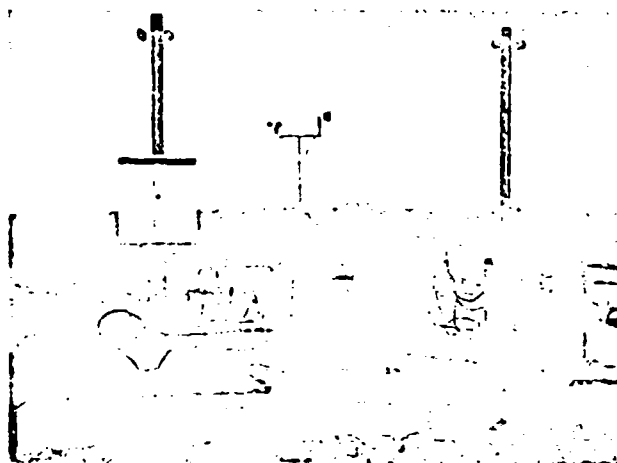


Figure 8. Ocean Breeze Source Point Showing the Todd Insecticidal Fog Applicators Emitting Pigment. Belfort Type M Wind Set is Seen in Background.

The generators are operated in pairs, side by side, with a common formulation tank to obtain release rates up to 8 kg per hour. The dispensing rate is varied by adjusting the formulation pressure or by adjusting the droplet size selector or a

combination of both. (Once set, the dispensing rate is essentially constant.) It was determined that a volumetric generation rate of 20 gal per hour and a blower air temperature of 750°F would produce a spray which essentially evaporates within a few feet of the nozzle. To minimize losses on vegetation close to the source, the nozzles of the two dispensers were pointed upward at an angle of about 30°, giving an effective source height of 2 to 3 m above ground. The nozzles of the two dispensers were pointed inward to make an angle of about 40° with the centerline of the sampling grid producing effectively a single source.

The generation rate was set prior to each release and was not altered after generation was started. The actual amount of pigment emitted during each run was computed by subtracting the amount of formulation remaining in the tank at the end of the generation period from the total formulation in the tank at the beginning of the generation period.

The primary sampler used in the Cape Canaveral and Vandenberg AFB experiments was a membrane filter inserted in a disposable polyethylene holder. Samples collected on a filter were bulk samples intended to collect all pigment passing through the intake zone during a given run. Figure 9 shows that the sampler unit consists of five parts: The base contains a cavity in which a cylindrical roll of creped-paper filter backing is inserted; a molecular membrane filter (Membrane Filter, 47 mm diameter, Type AM-1 of Gelman Instrument Co., Chelsea, Michigan) is placed on the plane circular surface formed by the base and the filter backing; the retaining ring pinches the periphery of the filter tightly against the base, while the circular area of 1-5/8-inch diameter that is still exposed is supported by the porous creped backing; the dust cap merely protects the filter surface both prior to and subsequent to sampler exposure. Vacuum is applied at the ribbed nozzle of the base and the dust cap is removed during field operation. Each filter holder was used only once; thus, there was a complete new set of sampling units for each field test, eliminating any possibility of contamination from the sampling assembly.

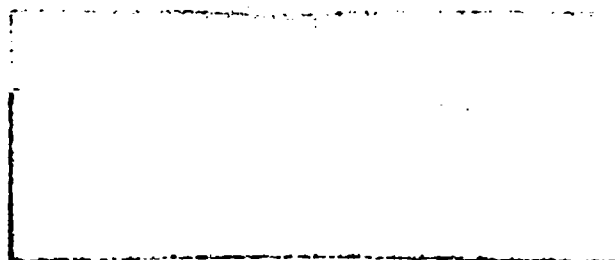


Figure 9. Blow-up of Membrane Filter Sampler Unit

The basic vacuum system used throughout consisted of a Gast-Model 2585V, heavy duty, vane-type vacuum pump driven by a Clinton-Series 290, Model TBA, air-cooled, 4-cy, 1-cylinder, gasoline engine shown in Figure 10. Each unit would provide 5 cfm of air flow at critical flow and would operate for at least 4 hr without refueling. Where lower volumetric flow rates were adequate, the samplers were manifolded to the vacuum pump by connecting them with 1-in. vacuum hose.

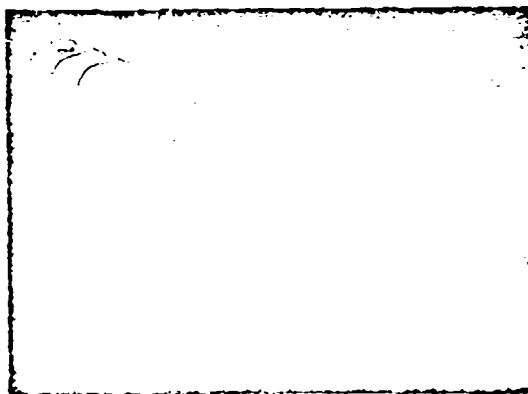


Figure 10. Photograph of Vacuum System Used with Sampler Units

It is important to determine the rate of air flow through the filter if the exposure data are to be accurate. Consequently, all the orifices used in the Ocean Breeze and Dry Gulch Programs were individually calibrated, taking into account the small reduction in flow due to the pressure drop across the filter. The approximate size of the orifices required for critical flow for each arc was first determined from the anticipated source strength, the estimated dilution of material as determined from previous experiments, and the range of mass values that the counting equipment could accurately detect. Once the desired flow rate for each arc was determined, the individually calibrated orifices were selectively grouped for each arc. Because of the small range of flow rates on any one arc, it was possible to use the mean value for the entire arc. The resulting error contributed less than 1 per cent of the overall standard error, which is listed in the table of results, Chapter II.

The mean values of the flow rate are given in Table I.

TABLE 1. Mean flow rates for Ocean Breeze and Dry Gulch experiments

Ocean Breeze		Dry Gulch	
Arc	Flow Rate ($\text{m}^3 \text{sec}^{-1}$)	Arc	Flow Rate ($\text{m}^3 \text{sec}^{-1}$)
1	0.000939	B-1	0.001864
		B-2	0.001864
2	0.002048	D-1	0.000920
		D-2	0.001864
3	0.002048	D-3	0.001864

7. DESCRIPTIVE SUMMARY OF EXPERIMENTS

An attempt was made to conduct diffusion experiments which would sample significant seasonal differences in local circulation patterns at Canaveral and Vandenberg. For Canaveral, experiments were conducted during the summer and winter seasons; summer because of the high frequency of occurrence of sea breezes; winter because of fairly frequent cold frontal passages which occurred with northerly winds and, it was thought, possibly frequent very unstable conditions. For Vandenberg, experiments were conducted within and during the absence of the marine layer with a strong capping inversion. These were also essentially summer and winter experiments.

The purpose of the experiments was, again, to provide data for developing and testing diffusion prediction equations for operational use at Canaveral and Vandenberg. Concurrent with the field diffusion work, AFCL was actively engaged in obtaining an automatic meteorological data observation and processing system to be installed at each base. This system continually provides as output, among other things, solutions to the diffusion prediction equation developed for the missile base. (See Volume II, Chapters II and III.) Therefore, in an attempt to test the system output against actual diffusion test data, a third series of experiments was conducted at both bases.

There were 76 diffusion experiments conducted during Ocean Breeze over approximately a 12-mo period; 23 were conducted between 15 May and 14 June 1961; 27 between 11 January and 3 February 1962; 26 between 10 March and 31 March 1962. There were 109 diffusion experiments conducted during Dry Gulch; 52 were conducted between 12 June and 3 August 1961 (24 on B, 25 on D, and 3 on course B with Arc D-3 also activated); 27 between 5 February and 29 March 1962 (13 on B, 14 on D); 30 between 31 May and 29 June 1962 (17 on B, 13 on D).

The diffusion experiments are summarized in Table 2 according to a stability classification scheme loosely defined as very stable, moderately stable, moderately unstable, and very unstable. To classify each experiment, values of the mean temperature difference between 6 and 54 ft, denoted by ΔT , were used. Numerical limits of ΔT for the various categories are indicated in the Table. The primary value of Table 2 is to emphasize the very high frequency of the experiments that are classified as moderately unstable. This, of course, is a direct result of orienting the diffusion courses to study on-shore circulation patterns. Stable conditions occur very rarely with on-shore winds at either base, the most common stable situation being nearly calm conditions or winds drifting air very slowly out to sea. Neither of these latter conditions could be studied with the diffusion courses, although this is obviously of little concern to the operational problem of scheduling potentially hazardous air pollution incidents. Under calm conditions, one simply does not schedule a potentially hazardous activity, regardless of the stability. With persistent off-shore winds, no air pollution hazard exists to personnel working at the missile bases.

The strong bias toward unstable conditions is somewhat undesirable for the purpose of developing diffusion prediction equations of general applicability for a wide range of low-level stabilities. The solution to this problem that has been adopted at both Canaveral and Vandenberg may be found in Volume II, Chapter I.

TABLE 2. Ocean Breeze and Dry Gulch experiments summarized by stability classifications. ΔT = temperature at 54 ft minus temperature at 6 ft

	Very Unstable ($\Delta T \leq 3.0^\circ\text{F}$)	Moderately Unstable ($-3.0 < \Delta T \leq 0.0^\circ\text{F}$)	Moderately Stable ($0 < \Delta T \leq 3.0^\circ\text{F}$)	Very Stable ($\Delta T > 3.0^\circ\text{F}$)	Total No. Experiments
Ocean Breeze Arcs 1	2	28	11	0	41
Ocean Breeze All Arcs	0	30	5	0	35
Dry Gulch B-course	8	42	4	0	54
Dry Gulch, D-course	4	44	4	0	52
Dry Gulch, B-course and Arc D-3	0	3	0	0	3
Totals by Stability Category	14	147	24	0	185

Acknowledgments

We gratefully acknowledge the help of the many people whose diligent and enthusiastic efforts made the design and conduct of these experiments possible.

Morton L. Barad, AFCRL, has participated actively in many long discussions of the overall effort with the authors. Max F. Scoggins, General Electric Company, personally checked the sampling equipment installations and trained the field crews in the necessary experimental techniques for both Ocean Breeze and Dry Gulch. Charles Simpson, General Electric Company, was the test conductor for all Ocean Breeze experiments. Charles Elderkin, General Electric Company, was the test conductor for all Dry Gulch experiments.

1A. Colonel Robert L. Miller, at first a member of Detachment 11 at Patrick AFB and later Detachment 54 at Hanscom Field, 4th Weather Group, Air Weather Service, was the AFMTC Project Officer for Ocean Breeze from January 1961 to January 1962 and AFCRL's representative for the last two series of Ocean Breeze experiments. Richard Whelpley, Pan-American Airways, Inc., was outstanding in ensuring the successful and accurate completion of the Ocean Breeze diffusion course. David Dunkle, Pan-American Airways, Inc., managed the general logistical plans preparing for Ocean Breeze including ordering and preparing for use the field diffusion equipment. David Newton, Manager, Range Operations, Pan-American Airways, Inc., almost single-handedly took care of our day-to-day scheduling, personnel, vehicle, and general logistic problems.

Major John H. Taylor, AFCRL, was the AFCRL Project Officer for all the Dry Gulch experiments. Major W. Leon Dotson, Detachment 3, 3rd Weather Wing, Vandenberg, organized the meteorological support services required by the Dry

Gulch program and, in addition, served as our point of contact on many daily logistical problems. M/Sgt. Granville Frichette and M/Sgt. Howard Cooke, Detachment 3, 3rd Weather Wing, were outstanding in maintaining all the meteorological support equipment used during Dry Gulch. William Selby, The Martin Company, supervised the preparation of the Dry Gulch diffusion courses. Harvey Hines, The Martin Company, supervisor of the Dry Gulch field crew, was extremely helpful in solving many of our daily scheduling, personnel, and vehicle problems.

The deep personal interest in the objectives of the effort displayed by all these people, and many others too numerous to mention, has been invaluable.

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II. Ocean Breeze and Dry Gulch Diffusion Data

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1. INTRODUCTION

The diffusion data obtained during the experiments described in Chapter I were reduced by personnel of the General Electric Company at Richland, Washington. The purpose of this chapter is to present summaries of these data. Field notes taken during the experiments which in many cases may be used to explain questionable data are also presented.

2. DESCRIPTION OF ASSAYING TECHNIQUE

All bulk samples of tracer collected during Projects Ocean Breeze and Dry Gulch were forwarded to Hanford for assaying in a Rankin counter. This device (Figure 1) permits quantitative detection of the fluorescing tracer on the standard filter.

In the partially disassembled Rankin counter shown at the left in Figure 1, it can be seen that 12 complete field samples can be inserted simultaneously in the turntable of the counting pig. The only processing that must be done to a field filter before its insertion in the counter is the removal of the dust cap.

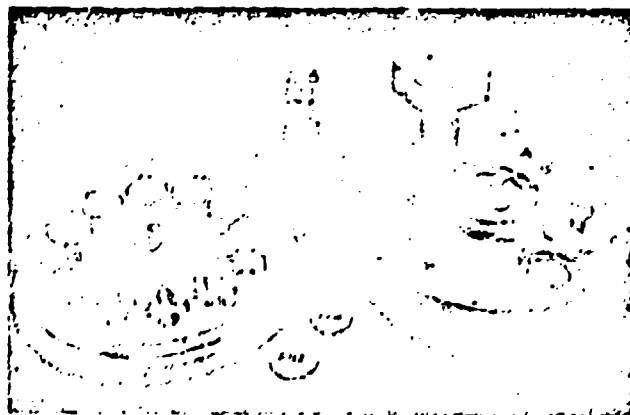


Figure 1. The Rankin Counter. The instrument partially disassembled is shown at left, the assembled unit at right.

The filter is rotated to the counting position directly under a Dumont 6292 multiplier phototube. Figure 2 schematically illustrates a filter in counting position. A 200-microcurie plutonium source, in the shape of an annulus about the base of the phototube, bombards the zinc sulfide tracer with alpha particles. The resulting scintillations are viewed by the phototube, amplified, and tallied on a scaler.

The Gelman AM-1 membrane filter used in the sampler retains the bulk of sampled tracer particles at its surface. This surface retention facilitates the excitation of the sampled tracer by the bombarding alpha particles.

Design of the counting pig permits the counter operator to insert and remove filters from the turntable at the same time a filter is being counted under the phototube. This procedure resulted in considerable saving of time considering the large number of filters (roughly 40,000) assayed during Ocean Breeze and Dry Gulch.

The scaler count rate (C) is converted to the mass (M) of tracer by means of the relationship

$$\log_{10} M = 0.95211 \log_{10} C - 9.07924$$

where C is in counts per minute. The background counting rate is about 5 counts

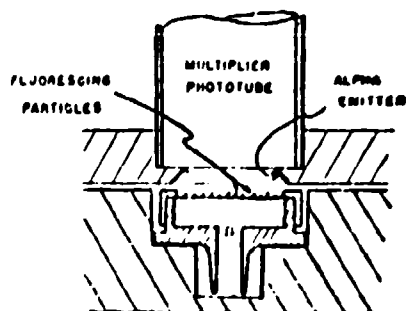


Figure 2. Schematic illustration of filter in counting position in Rankin counter.

per min - the equivalent of 4×10^{-9} g of tracer. The calibration has been found to hold for masses as high as 6×10^{-4} grams.

3. OCEAN BREEZE DIFFUSION DATA

Table 1 contains values of dosage in gm sec m^{-3} as measured at a height of 15 ft above the ground for each of three sampling arcs employed in the Ocean Breeze program, as well as values of the relative standard error, which is defined as the standard deviation of repeat determinations of mass on a given filter as a percentage of the mass collected.

For convenience, the data in Table 1 are presented in the form of a computer listing. The first word is an identification word; the second contains the exposure as measured at an azimuth given in the first word. The appropriate relative standard error is given in the third word. The fourth, fifth, sixth, and seventh words contain the dosage and relative error at the next sampler position in a clockwise rotation.

In the first word, the first digit denotes the arc; the second, third, and fourth digits specify the number of the experiment; the sixth, always a 9, denotes the 15-ft level; the seventh, eighth, ninth, and tenth digits denote the azimuth of the sampler. An entry of 2040 in the last four digits of the first word indicates an azimuth of 204.0° . However, since the tenth digit specifies the number of quarter-degrees, an entry of 2042 in the last four digits indicates an azimuth of 204.5° . This device was adopted to accommodate the half-degree spacings on Arc 3.

Table 2 contains the values of exposure in gm sec m^{-3} as measured at heights of 5 ft above the ground and is interpreted in the same manner as the data in Table 1, except that the sixth digit of the identification word is always an 8 to denote the 5-ft level.

An asterisk preceding an 'exposure' word indicates that the value reported could possibly be in error. Errors arise because of such reported mishaps as dust on filters, spilt filters, engine troubles, filter caps left on, and so forth. Table 3 summarizes all notes taken at the site during the testing and in the analysis of the samples in the Hanford laboratory. These notes correspond to the asterisks printed with the exposure data. It will be noted that light dust was found on many of the samples. This resulted mainly from the fact that the sampling time was necessarily long because of light winds associated with many of the tests. This problem was critically examined during the Green Glow program and correction factors were applied to compensate for this effect. The dust on the filters at Cape Canaveral was, however, so light that the effect of its presence did not significantly affect the exposure values that are given.

Table 4 presents the arcwise integrated exposures and the standard deviation of arcwise mass distributions for Ocean Breeze. The arcwise integrated exposure is defined as the product of the exposure and sampler spacing summed over the entire arc, or $AIE = \sum E_y \Delta y$ (over all y) where y denotes the arc position and Δy is the sampler spacing.

Table 5 lists the periods during which fluorescent particles were emitted for the diffusion experiments at Cape Canaveral, and also the total amounts (Q), in kilograms, of tracer material emitted. The length of the period of emission was always 30 minutes.

4. RELATIONSHIP BETWEEN 5- AND 15-FT OCEAN BREEZE EXPOSURE DATA

Secondary level samplers, placed 5 ft high and spaced 6° apart between 240° and 330° azimuth on Arcs 1 and 2, were in the tracer plume on 39 field tests, of which only 9 were run at night. The ratio of exposure at 5 ft to exposure at 15 ft was calculated for each data point, and will be designated R in the following discussion.

The range of R found was 0.1 to 11.5 for day runs and 0.1 to 4.3 for night runs. After averaging all observations made at each azimuth, the range decreased to 0.1 to 2.5 for day runs and 0.1 to 4.3 for night runs. Values of R greater than approximately 1.5 or less than about 0.5 almost invariably occurred at the edge of the plume, with exposures two to five orders of magnitude less than the peak exposures. Two exceptions were found; one during a day run ($R = 8.5$) and one during a night run ($R = 4.3$). Both exceptions were at the peak, and no explanation seems satisfactory for these two oddities.

The mean of R for all day runs was 1.0; for all night runs, 0.9. The overall average R for all runs, all azimuths, and all arcs was 1.0. The variance of R was 0.33 for day runs; 0.48 for night runs. The frequency distributions for day runs were positively skewed; for night runs, slightly negatively skewed. (See Figures 3 and 4.)

Seasonal and vegetational effects were examined, but little significance could be attached to the variations observed. In general, day runs showed no seasonal variation, but a slight dependence on vegetation was indicated, R being about 20 per cent less when surrounded by vegetation more than 5 ft high than when surrounded by vegetation less than 5 ft high. Night runs, however, showed no vegetation dependence; a slight variation with season appeared, R during the summer being about 10 per cent less than that during the winter.

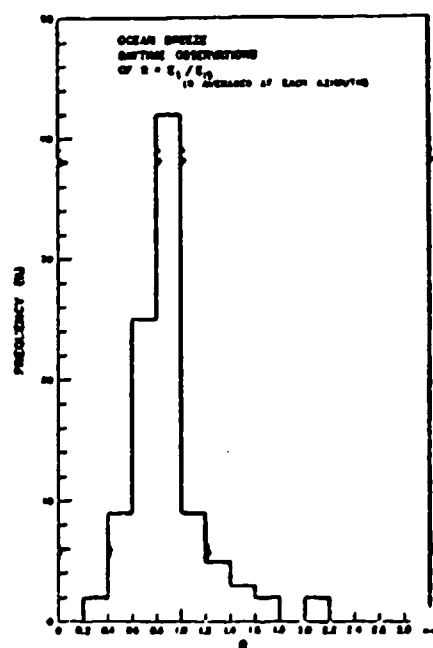


Figure 3. Frequency distribution of ratio of 5- to 15-ft exposure values, Ocean Breeze daytime runs.

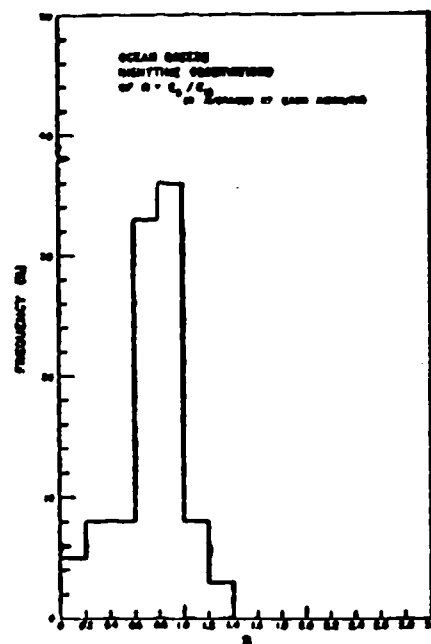


Figure 4. Frequency distribution of ratio of 5- to 15-ft exposure values, Ocean Breeze nighttime runs.

5. DRY GULCH DIFFUSION DATA

The exposure data for the Dry Gulch experiments are presented in Table 6 in the same basic format as the Ocean Breeze data. However, because of the two grids used at Vandenberg, it was necessary to denote the sampling arcs as follows: 1 - the first arc on the B Course at a radial distance from the B source point of 1.43 mi, 2 - the second B Course arc at a distance of 3.52 mi, 7 - the first D Course arc at 0.53-mi distance from the D source point, 8 - the second D Course arc at 0.93 mi, and 9 - the third D Course arc at 2.93 mi radial distance. It should be noted that considerable editing of the original data was necessary before the tabulated Vandenberg results could be obtained. This editing was necessary for several reasons. First, sampling equipment failure recorded by the field crew during the tests sometimes produced incorrect data. Equipment failure included engines stopping during the test, lack of necessary pressure differential to produce critical flow,

and damage to filter samples. Dust and carbon collection on some filters, causing a reduction in tracer detection, was also noted when the samples were assayed. During run 57, due to the highest wind of any of the tests, so many adjacent filters on Arcs 7 and 8 were dust laden that no attempt could be made to adjust them. All other erroneous data resulting from sampling equipment failure were replaced with values interpolated between the surrounding correct data.

Second, unusually low dosages were measured at a few sampling positions where sampling was seriously obstructed by terrain or vegetation. These cases occurred where samplers sat at the bottom of deep ravines not characteristic of the general terrain and where samplers fell within or just behind one of the few groups of trees that were not characteristic of the general vegetative cover. In addition to shielding the samples from the plume, these areas often trapped the engine exhaust producing a collection of carbon on the filters that reduced the tracer detection still further. Serious dosage reduction of this sort necessitated editing of data for several of the tests from the following sampling positions: 8-132, 8-134, 8-136, and 9-119, located in deep gullies and 2-099, 2-102, and 9-138 located behind trees. These data were replaced with interpolations between the surrounding representative samples. Many other dosage measurements were considered valid where samplers were partially shielded by the rough terrain features generally found over considerable areas at Vandenberg.

Data were corrected from six sampling positions at 2-133 through 2-138 in the landing strip approach zone where small orifices had to be used during the first series of 52 tests. None of the engine and vacuum pump assemblies could be placed in this area and it was necessary to reach these sampling positions with long hoses from pumps situated outside the approach zone. Flow through the hoses produced a pressure drop which would have been too large to allow critical flow through the $0.001864 \text{ m}^3/\text{sec}$ orifices used on the rest of the arc. Consequently, critical orifices giving half this flow rate were used at these six sampling positions and the counts for the samples taken there were doubled. This allowed the larger flow rate to be used for the entire arc in data reduction and a change in the computer data reduction program was avoided.

The edge of the plume extended beyond the limits of the sampling course on one or more arcs during several tests. In ten of these cases, it was possible to confidently extrapolate with the addition of no more than three data points thus extending the crosswind distribution to near background counts. This was done only when the shape of the extended crosswind distribution tail was clearly established by the valid samples taken near the end of the arc or by the shape of the crosswind distributions contained within the sampling grid on the other arcs. This editing provided better estimates of the crosswind variance in these ten cases.

Because of the intensive testing at Vandenberg with often two and as many as three tests in a day, the accumulation of tracer material deposited on the ground and its continual re-entrainment during the subsequent tests led to anomalous sampling. In most cases, the magnitude of this field contamination was low enough to be comparable only with those dosages at the edge of the plume. This led to a very small average value of field background which was factored into the data reduction and which had an insignificant effect on the dosage calculation. However, when the contamination was found at the tail of the crosswind distribution, it could possibly alter the calculation of the crosswind variance of the plume if not excluded. To combat the contamination problem, an attempt to minimize the effect was made by scheduling the diffusion tests with at least two hours from the end of one experiment until the beginning of the next to allow the wind to 'clear off' the course and reduce the particle pickup to a low level. Also, in editing the data, the anomalous counts were removed when the contamination was identified by noting the path of previous plumes, where contamination would be most likely, and by accounting for particular areas that were found to be recurrent sources of contamination. Also, plotting crosswind distributions and comparing them from one arc to another aided in identifying and eliminating contamination samples.

There were 17 cases of data obviously erroneous in which the reason for the error was unknown. These could possibly be accounted for by undetected faulty equipment, such as a plugged orifice which would restrict the flow, but would offer no visible evidence of improper operation. The sampling position at 7-148 evidently experienced some undetected equipment failure such as this during the first phase of the Vandenberg experiments; in almost every instance where the plume passed that position, a suspiciously low dosage was measured. The lack of experience of the field crews during the first few tests could also account for some of these unexplained erroneous values.

Whenever observed data were changed because of any of the reasons mentioned above, an asterisk appears in front of the data point in the table of dosages, indicating a notation was made concerning that value. Many additional asterisks appear indicating notes where no change in the data was necessary. Such notes concern sampling equipment adjustment where adequate sampling was not interrupted, detection and correction of equipment failures before or after plume passage where sampling of the plume was not affected, light dust or smoke on the filters that did not reduce the count noticeably, cases where the filter was recounted and the second count was listed, and one case where a second sample was collected at sampling position 7-122 during the last two phases of the Vandenberg test series. This sample was taken at the top of a small hill just ahead of the original sample to determine if the hill altered the dosage measured at this point. There was often a factor of

two between the counts at these two samples, but the original sample usually fit the crosswind distribution as well as the second sample and the original sample was used in all cases.

For all those instances where interpolated or extrapolated estimates were used, a list of the notes pertaining to these data points is given in Table 7.

The arcwise integrated exposures and the standard deviation of arcwise mass distributions for the Dry Gulch experiments are presented in Table 8. Emission period data and total amounts of tracer emitted are listed in Table 9.

TABLE 1. Ocean Breeze exposure data (gm sec m⁻³) and relative standard error of data (%) for 15-ft sampling heights. (See text for explanation of data format.)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1001092160	-.00000790	.066	-.00107177	.031	-.01188524	.032
1001092220	-.02847612	.036	-.03543273	.038	-.03137603	.037
1001092280	-.01173645	.032	-.00230290	.029	-.00019610	.060
1001092340	-.00011162	.063	-.00000484	.071	-.00001162	.063
1001092400	-.00000000	.999	-.000000484	.071	-.00001013	.064
1001092460	-.000000410	.073	-.00193968	.029	-.00388622	.090
2001092200	-.00045009	.031	-.00814609	.034	-.00378504	.020
2001092260	-.00602618	.032	-.00001423	.054	-.00000700	.060
2001092320	-.00060625	.030	-.00000224	.071	-.00000149	.075
2001092380	-.00000633	.061	-.00000186	.073		
2001092440	-.00000224	.071	-.00217468	.029	-.00604294	.030
1002092280	-.00048280	.034	-.01594789	.033	-.01712725	.033
1002092340	-.01063667	.031	-.00499591	.029	-.00105992	.031
1002092400	-.01299068	.032	-.00000082	.088		
1002092460	-.00004441	.051	-.00002913	.048	-.00042446	.031
2002092280	-.00000358	.066	-.00373855	.030	-.00408411	.031
2002092340	-.00036143	.032	-.00084870	.029	-.00007741	.041
2002092400	-.00232272	.029	-.00002116	.057	-.00005618	.049
1003092180	-.00000790	.066	-.00087507	.031	-.00447907	.029
1003092240	-.00029609	.037	-.00334921	.032	-.01192972	.032
1003092300	-.01392618	.032	-.02814911	.036	-.03612310	.038
1003092360	-.01337721	.032	-.00045076	.034	-.00001088	.063
1003092420	-.00875503	.031	-.00000000	.999	-.00000112	.078
2003092020	-.00000358	.066	-.00001840	.052	-.00003509	.047
2003092080	-.00000738	.060	-.00017226	.035	-.00034869	.032
2003092140	-.00008427	.040	-.00058584	.030	-.00083283	.029
2003092200	-.00044383	.031	-.00151925	.029	-.00253230	.029
2003092260	-.00120141	.029	-.00394188	.031	-.00426352	.031
2003092320	-.00264473	.029	-.00421003	.031	-.00019245	.035
2003092380	-.00636145	.032	-.00067130	.032	-.00513203	.029
1004092180	-.00007182	.047	-.01892835	.034	-.01908906	.034
1004092240	-.01404047	.032	-.00553399	.029	-.00076242	.032
1004092300	-.01450911	.033	-.00001676	.059	-.00000641	.068
1004092360	-.00003886	.049				

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2004092180	.00000224	.071	.00007056	.041	.00037402	.032
2004092240	.00290565	.030	.00537552	.032	.00563629	.032
2004092300	.00356235	.030	.00122085	.029	.00016682	.036
2004092260	.00000395	.066	.00000112	.078		
1005092140	.00016116	.041	.00293493	.029	.01289830	.032
1005092200	.02369419	.035	.01918569	.034	.00739887	.030
1005092260	.00115022	.030	.00005476	.049	.00001237	.062
2005092140	.00000037	.088	.00031307	.032	.00302874	.030
2005092200	.00573426	.032	.00442311	.031	.00152647	.029
2005092260	.00004128	.045	.00000529	.063	.00000529	.063
1006092720	.00000246	.078	.00000082	.088	.00000171	.081
1006092780	.00023208	.038	.00325941	.029	.00756830	.030
1006092840	.01859918	.034	.01727940	.033	.00744283	.030
1006092900	.00681289	.030	.00828207	.030	.00697657	.030
1006092960	.00589654	.030	.00324547	.029	.00130527	.030
1006093020	.00005201	.050	.00000171	.081		
2006092780	.00000291	.068	.00023849	.034	.00217877	.029
2006092840	.00798664	.030	.00246063	.029	.00181906	.029
2006092900	.00155076	.029	.00145622	.029	.00160523	.029
2006092960	.00245839	.039			.00284240	.030
2006093020	.00055917	.030	.00397220	.031		
1007092140	.00017666	.040	.00056617	.033	.00211924	.029
1007092200	.00070724	.030	.00784986	.030	.01205072	.032
1007092260	.01041949	.031	.01026601	.031	.01094721	.031
1007092320	.00702389	.030	.00535317	.029	.00454783	.029
1007092380	.00146925	.030	.00024669	.038	.00000171	.081
2007092180	.00002980	.042	.00038423	.031	.00110745	.029
2007092240	.00171788	.029	.00198089	.029	.00110745	.029
2007092300	.00143692	.029	.00143386	.029	.00169195	.029
2007092360	.00090085	.029	.0002913	.048	.00159255	.029
1008092540	.00000246	.078	.00000000	.999	.00000171	.081
1008092600	.00001088	.063	.00045568	.034	.00210904	.029
1008092660	.00328235	.029	.00453445	.029	.00603534	.030
1008092720	.00672400	.030	.00364743	.029	.00091568	.031

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1008092780	.00220887	.029	.00321805	.029	.00607222	.030	.00607222	.030
1008092840	.00628442	.030	.00314973	.029	.00161670	.029	.00161670	.029
1008092900	.00049204	.034	.00000410	.073				
2008092640	.00005163	.044	.00052467	.030	.00129169	.029	.00129169	.029
2008092700	.00163764	.029	.00142105	.029	.00073194	.020	.00073194	.020
2008092760	.00040807	.031	.00035122	.032	.00033990	.032	.00033990	.032
2008092820	.00118248	.029	.00192016	.029	.00142010	.029	.00142010	.029
2008092880	.00070080	.030	.00015505	.036	.00000358	.066	.00000358	.066
1009091760	.00000484	.071	.00038818	.035	.00186481	.029	.00186481	.029
1009091820	.00369579	.029	.00802308	.030	.01085356	.031	.01085356	.031
1009091880	.00857674	.031	.00507794	.029	.00469945	.029	.00469945	.029
1009091940	.00522546	.029	.00320517	.029	.00192516	.029	.00192516	.029
1009092000	.00089183	.031	.00017218	.040	.00000246	.078	.00000246	.078
2009091600	.00009581	.039	.00046179	.031	.00101641	.029	.00101641	.029
2009091860	.00295892	.030	.00226445	.029	.00157326	.029	.00157326	.029
2009091920	.00129275	.029	.00102505	.029	.00073423	.030	.00073423	.030
2009091980	.00067018	.030	.00008128	.040	.00000274	.071	.00000274	.071
1010091700	.00000171	.081	.00029169	.037	.00541799	.029	.00541799	.029
1010091760	.01535021	.033	.01422793	.032	.00814542	.030	.00814542	.030
1010091820	.00952631	.031	.01029499	.031	.00716694	.030	.00716694	.030
1010091860	.00473015	.029	.00484144	.029	.00996690	.030	.00996690	.030
1010091940	.00449285	.029	.00495124	.030	.01471750	.034	.01471750	.034
1010092000	.02399363	.035	.01182809	.032	.00213566	.029	.00213566	.029
1010092060	.00011459	.043						
2010091740	.00300328	.067	.00144576	.029	.00455558	.031	.00455558	.031
2010091800	.00361972	.030	.00230841	.029	.00277460	.030	.00277460	.030
2010091860	.00221901	.029	.00195205	.029	.00141025	.029	.00141025	.029
2010091920	.00125318	.029	.00127984	.029	.00142619	.029	.00142619	.029
2010091980	.00486214	.031	.00766657	.033	.00104643	.029	.00104643	.029
2010092040	.00003137	.047						
1011091920	.00001751	.059	.00075765	.032	.00635147	.030	.00635147	.030
1011091980	.01497187	.033	.0144654	.032	.01655951	.033	.01655951	.033
1011092040	.01841530	.034	.00949562	.031	.00800438	.030	.00800438	.030
1011092100	.01401499	.032	.01060344	.031	.00813581	.030	.00813581	.030

TABLE 1 (contd)

I.D.	DOSAGE CM SEC/CU.M	S.E.	DOSAGE CM SEC/CU.M	S.E.	DOSAGE CM SEC/CU.M	S.E.
1011092160	.00426203	.029	.00259437	.029	.00247808	.029
1011092220	.00058415	.033	.00013441	.042	.00000000	.999
2011091960	.00002444	.049	.00036195	.032	.00044995	.029
2011092020	.00157073	.029	.00223182	.029	.00094756	.029
2011092080	.00150273	.029	.00150200	.029	.00211358	.029
2011092140	.00159115	.029	.00289276	.030	.00211313	.029
2011092200	.00026010	.033	.00010170	.039	.00005312	.043
2011092260	.00003569	.046	.00001296	.035	.00000931	.058
2011092320	.00000037	.088				
3011091982	.00001781	.052	.00014991	.036	.00054866	.070
3011092010	.00092212	.029	.00102922	.029	.00107072	.029
3011092072	.00129506	.029	.00056297	.030	.00040009	.031
3011092120	.00023079	.034	.00014670	.036	.00017792	.035
3011092162	.00008993	.040	.00003412	.047	.00006191	.042
3011092210	.00002287	.050	.00000834	.059	.00002228	.050
3011092252	.00001200	.056	.00001065	.057	.00000603	.062
3011092300	.00000000	.999	.00000112	.078	.00000000	.999
3011092342	.00000224	.071				
1012092480	.00029989	.037	.00099063	.031	.00130877	.030
1012092540	.00191256	.029	.00209190	.029	.00369914	.029
1012092600	.00442624	.029	.00464946	.029	.00343531	.029
1012092660	.00217579	.029	.00178899	.030	.00075221	.032
1012092720	.00037819	.035	.00027969	.037	.00001088	.063
2012092860	.00000024	.071	.00003695	.046	.00021033	.034
2012092920	.00046425	.031	.00067234	.030	.00080954	.029
2012092980	.00084206	.029	.00078032	.029	.00091292	.029
2012092640	.00051685	.030	.00018992	.035	.00015544	.036
2012092700	.00000499	.063	.00000328	.067	.00000224	.071
1013092240	.00000082	.068	.000006028	.048	.00024416	.038
1013092300	.000045881	.034	.00124981	.030	.00328742	.029
1013092360	.00494443	.029	.000692546	.030	.01057655	.031
1013092420	.00966877	.031	.00938646	.031	.00842549	.030
1013092480	.00643745	.030	.00306964	.029	.00159703	.030
1013092540	.00085838	.031	.00016309	.041	.00001825	.059

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2013092320	.00000149	.075	.00005707	.043	.00008188	.040
2013092380	.00018105	.035	.00043154	.031	.00084527	.029
2013092440	.00126041	.029	.00243887	.029	.00288457	.030
2013092500	.00254780	.029	.00259414	.029	.00232346	.029
2013092560	.00165828	.029	.00073381	.030	.00074759	.029
2013092620	.00058606	.030	.00046290	.031	.00006162	.042
2013092680	.00000075	.081	.00000291	.068	.00395089	.029
2014092140	.00009470	.045	.00075698	.032	.00892736	.031
2014092200	.00749916	.030	.01183599	.032	.00131346	.030
2014092260	.00523470	.029	.00313692	.029	.00000559	.070
2014092320	.00011131	.044	.00001535	.060	.00000484	.071
2014092380	.00001013	.064	.00000246	.078	.00030696	.032
2014092440	.00000082	.088	.00000328	.075	.00245839	.029
2014092140	.00000149	.075	.00003785	.046	.00058956	.030
2014092200	.00075296	.029	.00147879	.029	.00000000	.999
2014092260	.00176243	.029	.00091709	.029	.00000566	.062
2014092320	.00035204	.032	.00000037	.088	.00000253	.070
2014092380	.00000000	.999	.00000000	.999	.00006028	.048
2014092440	.00000633	.061	.00000767	.059	.00165895	.029
2014092500	.00000075	.081	.00000246	.078	.00402774	.030
2015092460	.00000246	.078	.00052944	.034	.00332789	.030
2015092520	.00026383	.038	.00402287	.029	.01128230	.032
2015092580	.00234097	.029	.00743054	.030	.00272036	.029
2015092640	.006633929	.030	.01270212	.031	.00078283	.032
2015092700	.01023434	.031	.00537984	.029	.00003673	.053
2015092760	.00690497	.030	.00086255	.031	.00666109	.030
2015092820	.00164337	.029	.00014357	.042	.00078104	.029
2015092880	.00020124	.039	.00001088	.063	.00012241	.037
2015092940	.00001535	.060	.00051675	.030	.00000998	.057
2015092820	.00003479	.047	.00077993	.029		
2015092680	.00090085	.029	.00029251	.031		
2015092940	.00049419	.031	.00001103	.056		
2015093000	.00006281	.042				
2015093060	.00000186	.073				

TABLE 1 (cont'd)

I.C.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.
1016092560	.00000939	.065	.00000000	.999	.00003040	.054
1016092620	.00040660	.035	.00181481	.029	.00401065	.029
1016092680	.00716366	.030	.00795332	.030	.01444019	.033
1016092740	.01372598	.032	.0098452	.031	.00685923	.030
1016092800	.00274161	.029	.00139356	.030	.00044025	.035
2016092860	.00001200	.056	.00010252	.039	.00043400	.031
2016092920	.00105321	.029	.00224665	.029	.00412069	.031
2016092980	.00424020	.031	.00340097	.030	.00242338	.029
2016093040	.00196703	.029	.00075877	.029	.00057101	.030
2016093100	.00014439	.036	.00012353	.037	.00002727	.049
1017091820	.00001013	.064	.00000559	.070	.00000000	.999
1017091880	.00000790	.066	.00000939	.065	.0001967	.058
1017091940	.00005866	.049	.00012317	.043	.00035264	.036
1017092000	.00556311	.033	.00114731	.030	.00143670	.030
1017092060	.00365854	.029	.00624657	.030	.00755593	.030
1017092120	.00976406	.031	.01096457	.031	.0147993	.032
1017092180	.00739992	.030	.00589454	.030	.00421017	.029
1017092240	.00342473	.029	.00249304	.029	.00131756	.030
1017092300	.00088044	.031	.00069976	.032	.00053622	.034
1017092360	.00030681	.037	.00003532	.053	.00001535	.060
1017092420	.00001676	.059	.00001676	.059	.00000484	.071
1018092720	.00001825	.059	.00001162	.063	.00000410	.073
1018092780	.00001386	.041	.00000790	.063	.00001013	.064
1018092840	.0000244	.078	.00006438	.048	.00026576	.038
1018092900	.00129297	.030	.00416987	.029	.00714436	.030
1018092960	.01123108	.031	.01105241	.031	.00618868	.030
1018093020	.00379845	.029	.00134334	.030	.00044949	.034
1018093080	.00022367	.039	.00002183	.057	.00000112	.078
2018092860	.00000432	.065	.00000805	.059	.00134264	.029
2018092920	.00000432	.065	.00005469	.043	.00410482	.031
2018092980	.00335887	.030	.00461608	.031	.00237204	.029
2018093040	.00459142	.031	.00395194	.031	.00003107	.047
2018093100	.00054680	.030	.00003815	.046		
	.00002161	.050	.00000029	.063		

TABLE 1 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1019092600	.00000082	.048	.00004232	.051	.00030349	.037
1019092660	.00078648	.032	.00116497	.030	.00170179	.029
1019092720	.00284262	.029	.00412732	.029	.00368468	.029
1019092780	.00492916	.029	.00592858	.030	.00433451	.030
1019092840	.00586726	.030	.00513591	.029	.00369355	.029
1019092900	.00299953	.029	.00328499	.029	.00201918	.029
1019092960	.00214957	.029	.00180215	.029	.00219867	.029
1019093020	.00159241	.030	.00107296	.031	.00040404	.034
1019093080	.00037879	.035	.00003673	.053		
2019092700	.00001036	.057	.00010900	.036	.00036858	.037
2019092760	.00039957	.031	.00094485	.029	.00112094	.029
2019092820	.00119783	.029	.00132784	.029	.00169501	.029
2019092880	.00165291	.029	.00160880	.029	.00121072	.029
2019092940	.00117784	.029	.00097431	.029	.00113241	.029
2019093000	.00072055	.030	.00043429	.031	.00007622	.041
2019093060	.00002131	.051				
1020092400	.00000171	.041	.00000641	.068	.00000000	.979
1020092460	.00016250	.041	.00044763	.034	.00165783	.029
1020092520	.00252821	.029	.00224255	.029	.00243005	.029
1020092580	.00277340	.029	.00347711	.029	.00290170	.029
1020092640	.00267237	.029	.00232331	.029	.00163928	.029
1020092700	.00158891	.030	.00181884	.029	.00158258	.030
1020092760	.00121787	.039	.00141047	.030	.00201121	.029
1020092820	.00593475	.031	.00049695	.034	.00048034	.034
1020092880	.00088707	.031	.00117265	.030	.00150822	.030
1020092940	.00090614	.031	.00100075	.031	.00049755	.034
1020093000	.00004791	.050	.00002116	.057		
2020092460	.00006132	.042	.00025004	.033	.00048079	.031
2020092520	.00183582	.029	.00134200	.029	.00083707	.029
2020092580	.00084236	.029	.00084653	.029	.00108920	.029
2020092640	.00097297	.029	.00094518	.029	.00041246	.031
2020092700	.00031114	.032	.00026481	.033	.00019386	.035
2020092760	.00038698	.031	.00029221	.033	.00023179	.034
2020092820	.00014871	.036	.00011802	.038	.00002541	.049

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2020052880	.00013195	.037	.00026233	.033	.00040092	.031
2020092940	.00025198	.033	.00010031	.039	.00004522	.045
2020093000	.00001200	.056				
1021092320	.00000246	.078				
1021092380	.00093475	.031	.00014223	.042	.00035264	.036
1021092440	.00302754	.029	.00145644	.030	.00245169	.029
1021092500	.00982642	.031	.00563577	.029	.00887468	.031
1021092560	.00655353	.030	.00789218	.030	.00788413	.030
1021092620	.00262886	.029	.00531770	.029	.00321522	.029
1021092680	.00202090	.029	.00225164	.029	.00315927	.029
1021092740	.00045754	.034	.00171907	.029	.00112846	.030
1021092800	.00000484	.071	.00021085	.039	.00004165	.032
2021092200	.00001937	.051				
2021092260	.00018761	.035	.00003815	.046	.00010580	.038
2021092320	.00042019	.030	.00032410	.032	.00042391	.030
2021092380	.00164986	.029	.00098005	.029	.00133015	.029
2021092440	.00212140	.029	.00174374	.029	.00213198	.029
2021092500	.00139944	.029	.00143282	.029	.00134975	.029
2021092560	.03107512	.029	.00084184	.029	.00092790	.029
2021092620	.00038035	.032	.00091553	.029	.00058450	.030
2021092680	.00022814	.034	.00023849	.024	.00013746	.037
2021092740	.00002064	.051	.00008576	.040	.00002481	.049
1022092720	.00000790	.066				
1022092780	.00155531	.030	.00060700	.033	.00119559	.030
1022092840	.01080722	.031	.00390157	.029	.00768021	.030
1022092900	.00865928	.031	.01270629	.032	.01054704	.031
1022092960	.00251740	.029	.00735378	.030	.00409529	.029
1022093020	.00033882	.034	.00157247	.030	.00384135	.034
2022092800	.00000037	.088	.00005409	.049	.00003882	.052
2022092860	.00049928	.031	.00011941	.038	.00024544	.033
2022092920	.00163913	.029	.00153489	.029	.00183508	.029
2022092980	.00159293	.029	.00218813	.029	.00209317	.029
2022093040	.00090763	.029	.00166290	.029	.00125423	.029
2022093100	.00012644	.037	.00047640	.031	.00032887	.032

TABLE 1 (cont'd)

I.D.	DOSAGE GM SEC/CU-M	S.E.	DOSAGE GM SEC/CU-M	S.E.	DOSAGE GM SEC/CU-M	S.E.
1023092820	.00000328	.075	.00000328	.075	.00000410	.073
1023092880	.00001900	.058	.00003748	.052	.00010334	.044
1023092940	.00131875	.030	.00447907	.029	.00878379	.031
1023093000	.01139544	.032	.01347937	.032	.01081964	.031
1023093060	.00886471	.031	.00317741	.029	.00326782	.029
1023093120	.00151813	.030	.00037946	.035	.00009336	.045
1023093180	.00000559	.070				
2023092960	.00000291	.068	.00000529	.063	.00001617	.053
2023093020	.00004612	.044	.00049108	.031	.00073329	.030
2023093080	.00131726	.029	.00084631	.029	.00043727	.031
2023093140	.00022277	.034	.00003695	.046	.00002697	.049
2023093200	.00000075	.081	.00000253	.070		
1024091520	.00853576	.031	.01254630	.032	.01035094	.031
1024091580	.00918381	.031	.00544612	.029	.00184871	.029
1024091640	.00125900	.030	.00018582	.040	.00001237	.062
2024091520	.00129534	.028	.00211611	.029	.00178047	.029
2024091580	.00121312	.029	.00103027	.029	.00041515	.031
2024091640	.00009872	.039	.00000075	.081		
3024091532	.00053763	.030	.00047122	.030	.00045252	.030
3024091580	.00041410	.031	.00020295	.035	.000006340	.042
3024091622	.00003815	.046	.00000253	.070		
1025091580	.00004441	.051	.00165492	.029	.00983387	.031
1025091640	.02314284	.035	.04472554	.039	.03838390	.038
1025091700	.02128646	.035	.00408091	.029	.00031874	.036
1025091760	.00004306	.051				
2025091600	.00010632	.038	.00094227	.029	.00343584	.030
2025091660	.00700712	.033	.00756055	.033	.00277683	.030
2025091720	.00029027	.043	.00000462	.044		
3025091610	.00001036	.057	.00021376	.034	.00079133	.029
3025091652	.000151262	.029	.002593	.029	.00216775	.029
3025091700	.06039422	.029	.00015907	.036	.00000998	.057
1026091520	.00326559	.029	.01320176	.032	.01919337	.034
1026091580	.02515927	.035	.00379608	.037	.02057515	.034
1026091640	.01595616	.033	.00454641	.031	.00138007	.030

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1026091700	.00007927	.046	.00097714	.029	.00368759	.030
2026091520	.00003156	.047	.00530682	.032	.00629023	.032
2026091580	.00541210	.032	.00056565	.030	.00004672	.044
2026091640	.00308290	.030				
2026091700	.00000872	.058				
3026091520	.00000000	.999	.000000199	.063	.00016190	.036
3026091562	.00059873	.030	.00134565	.029	.00145130	.029
3026091610	.00127803	.029	.00190042	.029	.00080854	.029
3026091652	.00018649	.035	.00007622	.041	.00000358	.066
1027091560	.00000410	.073	.00010113	.064	.00000000	.999
1027091620	.00000410	.073	.00015333	.041	.00139706	.030
1027091680	.00558630	.029	.03708296	.038	.07012412	.042
1027091740	.09841479	.045	.06051213	.041	.01701258	.033
1027091800	.06490502	.029	.00103153	.031	.00062229	.048
2027091540	.03000000	.999	.00000075	.081	.00000462	.064
2027091600	.00000000	.999	.00000000	.999	.00000000	.999
2027091660	.00000499	.063	.00002727	.049	.00090584	.029
2027091720	.00558950	.032	.02383247	.040	.03331237	.042
2027091780	.01245856	.036	.00104535	.030	.00039242	.031
2027091840	.00002883	.048	.000000149	.075		
3027091562	.06300112	.078	.00000000	.999	.00000000	.999
3027091610	.00000000	.999	.00000037	.088	.00000037	.088
3027091652	.00000000	.999	.00000000	.999	.00000000	.999
3027091700	.00300000	.999	.00000000	.999	.00004157	.045
3027091742	.00056513	.030	.00246286	.029	.00436924	.031
3027091790	.00544712	.032	.003600530	.032	.00444375	.031
3027091832	.00195034	.029	.00073038	.030	.00019193	.035
3027091880	.00003107	.047	.00000328	.067		
1028091640	.00000171	.081	.00000000	.999	.00004992	.050
1028091700	.00505224	.029	.03214881	.037	.07521445	.043
1028091760	.09016320	.044	.04330315	.039	.02045184	.034
1028091820	.01276314	.032	.00268258	.029	.00034444	.036
1028091880	.00001386	.061				
2028091640	.00000000	.999	.00000078	.081	.00000037	.088

TABLE 1 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2028091700	.00000000	.999	.00001781	.052	.00129193	.029
2028091760	.01084648	.035	.01904872	.039	.01530953	.037
2028091820	.00472404	.031	.00000273	.029	.00001419	.037
2028091730	.00000000	.999	.00000000	.999	.00000000	.999
2028091772	.00000253	.070	.00053383	.030	.00380680	.030
2028091820	.00623725	.032	.00464275	.031	.00161238	.029
2028091862	.0022613	.034	.00002034	.051	.00000000	.999
2028091910	.00000000	.999	.00000171	.081	.00000246	.028
1029091580	.00000000	.999	.00084579	.031	.00193611	.029
1029091640	.00006638	.048	.01908392	.034	.02448484	.035
1029091700	.00995174	.031	.02504423	.035	.0309479	.037
1029091760	.02115980	.034	.02057672	.034	.01671091	.033
1029091820	.02392635	.035	.00579335	.029	.00031814	.036
1029091880	.01279816	.032	.00001237	.062	.00001460	.061
1029091940	.00027269	.037	.00011191	.038	.00081412	.029
1029092000	.00000000	.999	.00667043	.033	.00700906	.033
2029091680	.00000000	.999	.00581615	.032	.00734799	.033
2029091740	.00351645	.030	.00431478	.031	.00314638	.030
2029091800	.00567578	.032	.00053167	.030	.00021093	.034
2029091860	.00664189	.033	.00000037	.088	.00000037	.088
2029091920	.00272341	.030	.00000149	.075	.00005916	.042
2029091980	.00000432	.065	.00100181	.029	.00164323	.029
2029092040	.00000253	.070	.00159629	.029	.00187077	.029
3029091730	.00000037	.088	.00243485	.029	.00091709	.029
3029091772	.00025876	.033	.00057183	.030	.00033356	.032
3029091820	.00182666	.029	.00004798	.044	.00000112	.078
3029091862	.00238083	.029	.00231080	.029	.01523428	.033
3029091910	.00082068	.029	.02114601	.034	.01587771	.033
3029091952	.00012852	.037	.01572490	.033	.01832761	.034
1030091540	.00004441	.051	.04732743	.039	.04934251	.040
1030091600	.02094857	.034	.01449928	.037	.00257067	.029
1030091660	.01424193	.032				
1030091720	.02906688	.036				
1030091780	.03121488	.037				

TABLE 1 (contd)

I.D.	DCSAGE GM SEC/CU.M	S.E.	DCSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1030091840	.00022243	.030	.00000715	.067		
2030091500	.00000037	.088	.00019159	.035	.00074498	.029
2030091640	.00152332	.029	.00224441	.029	.00392750	.031
2030091700	.00642195	.032	.00675596	.033	.00850298	.034
2030091760	.01597807	.037	.01106848	.035	.00268035	.029
2030091820	.00061721	.030	.00015333	.036	.00002570	.049
2030091880	.00000000	.999				
3030091592	.00000000	.999	.00000037	.088	.00000000	.999
3030091640	.00000000	.999	.00000566	.062	.00001296	.055
3030091602	.00001781	.052	.00004061	.045	.00013024	.037
3030091730	.00047680	.031	.00122808	.029	.00294954	.030
3030091772	.00347698	.031	.00304900	.030	.00298172	.030
3030091820	.00301339	.030	.00126071	.029	.00055276	.030
3030091862	.00020325	.034	.00003539	.046		
1031091520	.00000000	.999	.00000000	.999	.00001900	.058
1031091580	.00001237	.062	.00002116	.057	.00010736	.044
1031091640	.00243048	.029	.00792368	.030	.01646109	.033
1031091700	.04386552	.039	.04506901	.039	.02854377	.036
1031091760	.00502204	.030	.00236370	.029	.00031121	.037
1031091820	.00000939	.065				
2031091520	.00000000	.999	.00000186	.073	.00000358	.066
2031091580	.00000037	.088	.00000499	.063	.00000700	.060
2031091640	.00016913	.036	.00153311	.029	.00814110	.034
2031091700	.01053423	.035	.00759015	.033	.00137448	.029
2031091760	.00125088	.029	.00018165	.035	.00002794	.048
2031091820	.00000767	.059	.00000395	.066	.00000186	.073
2031091880	.00000529	.063	.00000432	.065	.00000000	.999
3031091562	.00000075	.081	.00000078	.081	.00000000	.999
3031091610	.00000224	.071	.00000186	.078	.00000738	.060
3031091652	.000006072	.042	.00029027	.033	.00104539	.029
3031091700	.00359327	.030	.00337064	.030	.00257723	.029
3031091742	.00145212	.029	.00048561	.031	.00010140	.039
3031091790	.00001326	.055	.00000506	.062	.00000149	.075
3031091832	.00000112	.078	.00000104	.078		

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1032091540	.00000000	.999	.00011265	.044	.03144251	.090
1032091600	.00426315	.029	.01078412	.031	.02388239	.085
1032091660	.03342912	.037	.03175810	.037	.02687760	.036
1032091720	.01085781	.031	.00152044	.030	.00025243	.098
1032091780	.00012450	.043	.00000715	.067	.00002690	.065
1032091840	.00000000	.999	.00002883	.048	.00029457	.093
2032091560	.00000112	.078	.00366338	.030	.00563480	.032
2032091620	.00153363	.029	.00345722	.030	.00109151	.028
2032091680	.00509039	.031	.00006698	.042	.00000805	.099
2032091740	.00024416	.034	.00000000	.999	.00000432	.045
2032091800	.00001296	.055	.00001840	.052	.00005618	.043
2032091860	.00000000	.999	.00086531	.029	.00159241	.029
3032091580	.00000000	.999	.00211917	.029	.00138760	.029
3032091622	.0042826	.031	.00015393	.036	.00001617	.093
3032091670	.00254557	.029	.00000000	.999	.00000000	.999
3032091712	.00042148	.031	.00020231	.039	.00342526	.029
3032091760	.00000037	.088	.01990400	.034	.02981156	.036
3032091802	.00000112	.078	.02959743	.036	.01115650	.031
1033091520	.00000559	.070	.00082366	.032	.00010334	.044
1033091580	.01040049	.031	.00000171	.081	.00335194	.030
1033091640	.03135562	.037	.00071466	.030	.00478521	.031
1033091700	.00402227	.029	.00679560	.033	.00001927	.051
1033091760	.00001386	.061	.00028417	.033	.00000000	.999
2033091560	.00004947	.044	.00000000	.999	.00021964	.034
2033091620	.00652842	.032	.00003725	.046	.00236280	.029
2033091680	.00209726	.029	.00187032	.029	.00031970	.032
2033091740	.00000000	.999	.00128783	.029	.00000499	.063
2033091800	.00000358	.066	.00000499	.041	.00001311	.062
3033091562	.00000872	.058	.00000000	.999	.00000559	.070
3033091610	.00085520	.030	.00014096	.042	.00616647	.030
3033091652	.00201195	.029				
3033091700	.00007056	.041				
1034092620	.00000000	.999				
1034092680	.00000000	.999				

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1034092740	-03350571	.037	.10211289	.045	.11798508	.046
1034092800	-08486844	.044	.03396153	.037	.00643037	.030
1034092860	-00095256	.031	.00007481	.047	.00000328	.078
1034092920	-00000246	.078				
2034092720	-00000037	.088	.00002980	.048	.00199504	.029
2034092760	.02828577	.039	.03927845	.044	.03622599	.043
2034092840	-01588359	.037	.00353582	.030	.00087790	.029
2034092900	-00021033	.034	.00009283	.039	.00001654	.053
2034092960	-00000566	.062				
1035092460	-00000246	.078	.00000000	.999	.00000484	.071
1035092520	-00001676	.059	.04236609	.039	.00449613	.029
1035092580	-01971714	.034	.13638556	.047	.09434521	.044
1035092640	-06446563	.042	.07506706	.043	.07099770	.042
1035092700	-01514584	.033	.00213929	.029	.00070639	.032
1035092760	-00042729	.035	.00048898	.034	.00028889	.037
1035092820	-00009067	.045	.00006571	.048	.00008732	.045
1035092880	-00002116	.057	.00001386	.061	.00001900	.038
1035092940	-00001825	.059	.00000410	.073		
2035092400	-00000224	.071	.00000000	.999	.00000000	.999
2035092460	-00000149	.075	.00000000	.999	.00000000	.999
2035092520	-00000000	.999	.00000000	.999	.00000000	.999
2035092580	-00000805	.059	.00022896	.034	.01448043	.037
2035092640	-03555186	.043	.03402308	.043	.02167612	.039
2035092700	-02081037	.039	.01508899	.037	.00238232	.029
2035092760	.00041269	.031	.00011161	.036	.00018254	.035
2035092820	-00006132	.042	.00003166	.047	.00002101	.031
2035092880	-00002384	.050	.00000671	.061	.00000462	.041
2035092940	.00000328	.067	.00000291	.068	.00000112	.078
1036092540	-00000082	.088	.00000082	.088	.00000000	.999
1036092600	-00000484	.071	.00000000	.999	.00000000	.999
1036092660	-00000559	.070	.00000000	.999	.00000000	.999
1036092720	-00000171	.081	.00000171	.081	.00000171	.081
1036092780	-00011332	.043	.00472628	.029	.00606954	.030
1036092840	-01210727	.032	.01241684	.032	.01288891	.032

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1036092900	.01819074	.034	.02304561	.035	.03050886	.037
1036092960	.03489897	.037	.05214505	.040	.03914058	.038
1036093020	.02783954	.036	.01189411	.032	.00199109	.029
1036093080	.00066042	.033	.00004098	.052	.00001237	.062
1036093140	.00000000	.999				
2036092640	.00000358	.066	.00000834	.059	.00000000	.999
2036092700	.00000328	.067	.08000253	.070	.00000224	.071
2036092760	.00000499	.063	.00000253	.070	.00001036	.057
2036092820	.00043973	.031	.00134073	.029	.00438213	.031
2036092880	.00529766	.032	.00955552	.034	.01091145	.035
2036092940	.01445599	.037	.00940673	.034	.00825621	.034
2036093000	.00493720	.031	.00167049	.029	.00052065	.030
2036093060	.00003666	.046	.00001296	.055	.00000112	.078
2036093120	.00000000	.999	.00000112	.078		
1037092440	.00000484	.071	.00003181	.054	.00016764	.041
1037092500	.00054844	.033	.0092342	.031	.00125080	.030
1037092560	.00021860	.039	.00079669	.032	.00058994	.033
1037092620	.00033006	.036	.00039995	.035	.00058383	.033
1037092680	.00046745	.034	.00034951	.036	.00042044	.035
1037092740	.00053741	.033	.00068344	.032	.00103392	.031
1037092800	.00474274	.029	.00103390	.031	.01790866	.034
1037092860	.03224701	.037	.04209235	.039	.04697993	.039
1037092920	.07149465	.042	.07849663	.043	.05850978	.041
1037092980	.02870917	.036	.00638828	.030	.0048093	.034
1037093040	.00016309	.041	.00002615	.054	.00005543	.049
1037093100	.00001088	.063	.00003181	.054	.00001676	.059
2037092640	.00000112	.078	.00002287	.050	.00027798	.033
2037092700	.00034042	.032	.00035696	.032	.00079796	.029
2037092760	.00098890	.029	.00291884	.030	.00454612	.031
2037092820	.00593871	.032	.00680543	.033	.00763044	.033
2037092880	.00972360	.034	.01365446	.036	.01611203	.037
2037092940	.01803040	.038	.01455821	.037	.00847362	.034
2037093000	.00202790	.029	.00014327	.037	.00004977	.044
2037093060	.00000998	.057	.00000253	.070	.00001937	.051

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2037093120	.00000603	.062	.00000000	.999	.00000864	.066
1038092740	.00000559	.070	.00000000	.999	.00000715	.067
1038092800	.00000000	.999	.00000000	.075	.00000864	.066
1038092860	.00000559	.070	.00000328	.053	.00012584	.043
1038092920	.000006095	.048	.00003532	.031	.00167921	.029
1038092980	.00019610	.040	.00087388	.032	.01602512	.034
1038093040	.00555195	.029	.01206435	.035	.02355501	.035
1038093100	.02115622	.034	.01459211	.033	.01137547	.032
1038093160	.02052218	.034	.00265203	.029	.00155412	.030
1038093220	.00541471	.029	.00015922	.041	.00000000	.999
1038093280	.00042094	.035	.00000000	.999	.00001617	.053
2038092740	.00000186	.073	.00000186	.073	.00001296	.055
2038092800	.00000253	.070	.00000902	.058	.00000969	.067
2038092860	.00000432	.065	.00000395	.066	.00032470	.052
2038092920	.00001743	.052	.00006042	.042	.00435635	.021
2038092980	.00002190	.050	.000246967	.029	.00813007	.034
2038093040	.00113420	.029	.00683226	.033	.00600636	.032
2038093100	.00523940	.032	.00747688	.033	.00051036	.050
2038093160	.00830367	.034	.00143617	.029	.03883712	.038
2038093220	.00334680	.030	.00048526	.034	.03861301	.038
2038093280	.0002004	.051	.04622139	.039	.01423776	.052
1039091780	.0000328	.075	.05155161	.040	.01172230	.032
1039091840	.06026261	.041	.02638765	.036	.00348493	.029
1039091900	.04437111	.039	.00735536	.030	.00243925	.029
1039091960	.04506998	.039	.00264756	.029	.00022821	.039
1039092020	.00936523	.031	.00073232	.032	.00000000	.999
1039092080	.00371858	.029	.00001751	.059	.00000000	.999
1039092140	.00108182	.031	.00001162	.063	.00000000	.999
1039092200	.00007585	.047	.00000000	.999	.00000000	.999
1039092260	.00000171	.081	.00000000	.999	.00000000	.999
1039092320	.00000171	.081	.00000000	.999	.00000000	.999
1039092380	.00000000	.999	.00000000	.999	.00000000	.999
1039092440	.00000000	.999	.00000000	.999	.00000000	.999
1039092500	.00000000	.999	.00000082	.088	.00000000	.999

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1039092560	.00000000	.999	.00000000	.999	.00000246	.078
1039092620	.00000000	.999	.00000000	.999	.00000790	.066
2039091760	.00000253	.070	.00000224	.071	.00000291	.068
2039091820	.00050165	.031	.00270873	.030	.00537552	.032
2039091880	.01200541	.036	.01268958	.036	.01371659	.036
2039091940	.00793315	.033	.00348426	.030	.00313006	.030
2039092000	.00221454	.029	.00150777	.029	.00084206	.029
2039092060	.00095017	.029	.00087053	.029	.0058122	.030
2039092120	.00024162	.034	.00020862	.034	.0009663	.039
2039092180	.00003912	.046	.00000902	.058	.00000000	.999
2039092240	.00000000	.999	.00000000	.999	.0000149	.075
2039092300	.00000037	.088	.00000700	.060	.00000872	.058
2039092360	.00000075	.081	.00000395	.066	.00000358	.066
2039092420	.00000000	.999	.00000291	.068	.00000000	.999
2039092480	.00000037	.088	.00000037	.088	.00000224	.071
2039091910	.00000998	.057	.00005282	.043	.00012301	.037
2039091952	.00035092	.032	.00099055	.029	.00149548	.029
2039092000	.00084683	.029	.00311553	.030	.00282233	.030
2039092042	.00169829	.029	.00099577	.029	.00031941	.032
2039092090	.00019670	.035	.00012733	.037	.00005104	.044
2039092132	.00003912	.046	.00003323	.047	.00001937	.051
2039092180	.00001423	.054	.00000872	.058	.00000112	.078
2039092222	.00000000	.999	.00000000	.999	.00000253	.070
2040092760	.00000328	.075	.00000000	.999	.00000246	.078
2040092820	.00000715	.067	.00002258	.057	.00000000	.999
2040092880	.00021279	.039	.00201788	.029	.01030348	.031
2040092940	.02458087	.036	.04332818	.039	.05737931	.041
2040093000	.03466077	.037	.02501853	.035	.01794405	.034
2040093060	.01628585	.033	.00892147	.031	.00203691	.029
2040093120	.00026196	.038	.00000246	.078	.00000872	.058
2040092780	.00000075	.081	.00000000	.999	.00000186	.073
2040092840	.00000000	.999	.00000112	.078	.00049569	.031
2040092900	.00000112	.078	.00000998	.034	.00956066	.034
2040092960	.00279672	.030	.00843510			

TABLE 1 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2040093020	.00873953	.034	.00737734	.033	.00732601	.033
2040093080	.00421368	.031	.00063062	.030	.00012502	.037
2040093140	.00000462	.064				
1041091520	.02394207	.035	.06733239	.042	.07288873	.042
1041091580	.02741426	.036	.00933766	.031	.00125661	.030
1041091640	.00028722	.037	.00002041	.058		
2041091520	.00206091	.029	.00760615	.033	.01509078	.037
2041091580	.01881361	.038	.00616491	.032	.00175022	.029
2041091640	.00012994	.037	.00001974	.051		
3041091532	.00000253	.070	.00062473	.030	.00260487	.029
3041091580	.00488646	.031	.00363886	.030	.00150263	.029
3041091622	.00055112	.030	.00011921	.038	.00002004	.051
3041091670	.00000000	.999	.00000000	.999	.00000075	.081
1042091540	.00000082	.088	.00000000	.999	.00001162	.063
1042091600	.00000000	.999	.00000441	.068	.00000328	.075
1042091660	.00000000	.999	.00000000	.999	.00000000	.999
1042091720	.00000328	.075	.00000790	.066	.00000000	.999
1042091780	.00001609	.060	.00010066	.044	.00028156	.037
1042091840	.00064403	.033	.00120208	.030	.00021611	.029
1042091900	.00312567	.029	.00304662	.029	.00059299	.033
1042091960	.00395976	.029	.00353336	.029	.000571735	.029
1042092020	.00706799	.030	.00594102	.030	.000687696	.030
1042092080	.00433207	.029	.00519069	.029	.00321138	.029
1042092140	.00122786	.030	.00019997	.039	.00000441	.081
1042092200	.00002690	.055	.00000559	.070	.00000171	.081
2042091540	.0001907	.052	.00000700	.060	.00002541	.049
2042091600	.00003862	.046	.00002794	.048	.00010960	.038
2042091660	.00011370	.038	.00016019	.036	.00008009	.040
2042091720	.00012703	.037	.00016853	.036	.00017136	.035
2042091780	.00025764	.033	.00030637	.032	.00080824	.029
2042091840	.00089183	.029	.00127882	.029	.00124544	.029
2042091900	.00081092	.029	.00085503	.029	.00077225	.029
2042091960	.00087239	.029	.00063010	.030	.00019811	.035
2042092020	.00001132	.056				

TABLE 1 (contd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
3042091592	.00000833	.041	.00000969	.057	.00004336	.043
3042091640	.00005618	.043	.00009432	.039	.00008397	.043
3042091682	.00014238	.037	.00015393	.036	.00017397	.043
3042091730	.00023432	.034	.00022583	.034	.00015073	.043
3042091772	.00013605	.037	.00013687	.037	.00017509	.043
3042091820	.00019528	.035	.00007622	.041	.00001654	.053
3042091862	.00001665	.057	.00000603	.062		
1043091920	.000002171	.081	.00000246	.078	.00136144	.030
1043091980	.00230797	.029	.00297722	.029	.00441685	.029
1043092040	.00404552	.029	.00378733	.029	.00318334	.029
1043092100	.00473705	.029	.00401452	.029	.00211358	.022
1043092160	.00144072	.030	.00006981	.047	.00010066	.044
2043091900	.00000529	.063	.00014499	.036	.00021771	.034
2043091960	.00021882	.034	.00180408	.029	.00248283	.029
2043092020	.00208743	.029	.00478238	.029	.00300847	.030
2043092080	.00414796	.031	.00267088	.029	.00164092	.029
2043092140	.00134617	.029	.00005528	.043	.00013344	.037
2043092200	.00000291	.068	.00000186	.073		
3043091832	.00000075	.081	.00000224	.071	.00001840	.052
3043091880	.00002004	.051	.00003971	.046	.00009811	.039
3043091922	.00017911	.035	.00015646	.036	.00042252	.031
3043091970	.00066191	.030	.00080138	.029	.00068724	.030
3043092012	.00145979	.029	.00216797	.029	.00252157	.029
3043092060	.00183329	.029	.00154823	.029	.00078022	.029
3043092102	.00052601	.030	.0026517	.033	.00007056	.041
3043092150	.00002287	.050	.00001200	.056	.00007000	.060
3043092192	.00000969	.057	.00000328	.067		
1044091940	.00000246	.078	.00008665	.046	.00018448	.040
1044092000	.00010669	.044	.00005268	.050	.00003181	.054
1044092060	.00046924	.034	.00237390	.029	.00086407	.030
1044092120	.01460090	.033	.002302326	.035	.02149448	.035
1044092180	.01782805	.034	.00130364	.033	.00873379	.031
1044092240	.00770003	.030	.00738546	.030	.00626713	.030
1044092300	.00334047	.029	.00038505	.035	.00012323	.043

TABLE 1 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2044091960	.0000395	.066	.0000382	.046	.00007421	.041
2044092220	.00001229	.055	.00000903	.062	.00007890	.040
2044092080	.00016913	.036	.00096120	.029	.00409432	.031
2044092140	.00367925	.030	.00037186	.032	.00238307	.029
2044092200	.00195637	.029	.00156663	.029	.00173166	.029
2044092260	.00048570	.031	.00015877	.036	.00000499	.053
3044091970	.00000328	.067	.00001700	.060	.00000529	.063
3044092012	.00000872	.058	.00001363	.054	.00006191	.042
3044092060	.00036716	.032	.00052281	.030	.00054061	.030
3044092102	.00126019	.029	.00212371	.029	.00198543	.029
3044092150	.03169881	.029	.00134327	.029	.00124596	.029
3044092192	.00116125	.029	.00077598	.029	.00049517	.031
3044092240	.00039324	.031	.00018023	.035	.00002980	.048
1045091840	.00005886	.049	.00083201	.032	.00346154	.029
1045091900	.00695072	.030	.00779636	.030	.00409640	.029
1045091960	.01227468	.032	.00886247	.031	.00576027	.029
1045092020	.00181481	.029	.00030614	.037	.00008759	.045
1045092080	.00002831	.055	.00000000	.999	.00000790	.066
1045092140	.00000328	.075				
2045091860	.00000037	.088	.00000603	.062	.00012703	.037
2045091920	.00031941	.032	.00130102	.029	.00036910	.032
2045091980	.00272095	.030	.00209220	.029	.00196703	.029
2045092040	.00073597	.030	.00023685	.034	.00005431	.043
2045092100	.00000566	.062	.00000149	.075		
3045091940	.00002727	.049	.00004061	.045	.00017792	.035
3045091982	.00041790	.031	.00061080	.030	.00112437	.029
3045092030	.00132240	.029	.00150369	.029	.00131778	.029
3045092072	.00140712	.029	.00052399	.030	.00056647	.030
3045092120	.00034705	.032	.00025958	.033	.00015466	.036
3045092162	.00009283	.039	.00006162	.042	.00001937	.051
3045092210	.00000603	.062	.00000000	.999	.00001259	.055
3045092252	.00000432	.065				
1046091960	.00000864	.066	.00000059	.070	.00000171	.061
1046092040	.00000000	.999	.00001676	.059	.00000484	.071

TABLE 1 (contd)

I.D.	DOSAGE CM SEC/CU.M	S.E.	DOSAGE CM SEC/CU.M	S.E.	DOSAGE CM SEC/CU.M	S.E.
1046092100	-00000000	.999	-00015527	.041	-00345707	.029
1046092160	-01597635	.033	-03779650	.038	-04792340	.04
1046092220	-08473329	.044	-06439008	.042	-01642190	.0
1046092280	-00145763	.030	-00006840	.047		
2046092120	-00004332	.065	-00007711	.041	-00022724	.034
2046092180	-00515191	.032	-00859760	.034	-02569139	.041
2046092240	-01847379	.038	-00239484	.029	-00025451	.033
2046092300	-00006430	.042	-00000000	.999	-00000000	.999
2046092360	-00000075	.081				
3046092162	-00000529	.063	-00016712	.036	-00065178	.030
3046092210	-00187464	.029	-00388280	.030	-00682130	.033
3046092252	-00267367	.034	-00303246	.030	-00088111	.029
3046092300	-00008248	.040	-00005223	.043	-00000395	.066
1047092060	-00000641	.068	-00000790	.066	-00004716	.050
1047092120	-00038065	.035	-00184126	.029	-00492200	.029
1047092180	-00887156	.031	-01584338	.033	-02015866	.034
1047092240	-01409344	.032	-01451746	.033	-00757255	.030
1047092300	-00187114	.029	-03038445	.035	-00001825	.059
2047092060	-00000529	.063	-00015393	.036	-00048377	.031
2047092120	-00092000	.029	-00151567	.029	-00052303	.030
2047092180	-00555567	.032	-00693955	.033	-00620790	.032
2047092240	-00484765	.031	-00189640	.029	-00033684	.032
2047092300	-00001393	.054	-00001684	.053	-00000337	.088
3047092132	-00001781	.052	-00007711	.041	-00013374	.037
3047092180	-00020467	.034	-00044733	.031	-00060998	.030
3047092222	-00175349	.029	-00190169	.029	-00199735	.029
3047092270	-00166260	.029	-00110224	.029	-00062339	.030
3047092312	-00018105	.035	-00003226	.047	-00000112	.078
1048092180	-00000082	.071	-00000000	.999	-00000062	.088
1048092240	-00001900	.058	-00004858	.050	-00003114	.054
1048092300	-00002399	.054	-00004925	.050	-00003323	.053
1048092360	-00504165	.052	-00002973	.054	-00002348	.056
1048092420	-00014812	.041	-00002673	.053	-00004373	.051
					-000001900	.058

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1048092480	.00016503	.041	.00634015	.030	.02546236	.036
1048092540	.05880855	.041	.09261690	.044	.08200422	.043
1048092600	.04886799	.040	.01280494	.032	.00232622	.029
1048092660	.00077084	.032	.00017159	.040	.00012651	.043
1048092720	.00009470	.045	.00003181	.054	.00000000	.999
1048092780	.00000000	.999	.00001609	.060		
2048092220	.00000149	.075	.00000186	.073	.00000998	.057
2048092280	.00000358	.066	.00000998	.057	.00000633	.061
2048092340	.00000834	.059	.00001103	.056	.00000833	.061
2048092400	.00000767	.059	.00000000	.999	.00000000	.999
2048092460	.00001460	.054	.00000499	.063	.00000395	.066
2048092520	.00104122	.029	.00944041	.034	.01668811	.038
2048092580	.01550190	.037	.01181997	.036	.01049563	.035
2048092640	.00158578	.029	.00022449	.034	.00012644	.037
2048092700	.00001907	.052	.00002444	.049	.00001259	.035
2048092760	.00000566	.062				
1049091860	.00000641	.068	.00002831	.055	.00176256	.029
1049091920	.00384785	.029	.00221521	.029	.00977091	.031
1049091980	.01177207	.032	.01157910	.032	.01129568	.032
1049092040	.00663124	.030	.00586234	.030	.00367075	.029
1049092100	.00332087	.029	.00166364	.029	.00015207	.041
1049092160	.0004791	.050	.00000246	.078	.00000410	.073
1049092220	.00000864	.066	.00000082	.088		
2049091920	.00001781	.052	.00047348	.031	.00129610	.029
2049091980	.00420369	.031	.00533372	.032	.00532292	.032
2049092040	.00391752	.031	.00245787	.029	.00121877	.029
2049092100	.00104830	.029	.00034042	.032	.00014670	.036
2049092160	.00000462	.064	.00000149	.078	.00000872	.038
2049092220	.00000603	.062				
3049091880	.00001781	.052	.00001490	.054	.00009492	.039
3049091922	.00018992	.035	.00032194	.032	.00036553	.032
3049091970	.00050977	.030	.00023313	.029	.00126846	.029
3049092012	.00154868	.029	.00131413	.029	.00098370	.029
3049092060	.00081412	.029	.00032016	.029	.00085407	.029

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
3049092102	.00064269	.030	.00055701	.030	.00013515	.037
3049092150	.00004128	.045	.00002287	.050		
1050092040	.00000484	.071	.00000000	.999	.00000559	.070
1050092100	.00000082	.088	.00000641	.068	.00009537	.045
1050092160	.00129126	.030	.00690818	.030	.02493575	.035
1050092220	.04158050	.039	.03759630	.038	.01895703	.034
1050092280	.00799641	.030	.00123553	.030	.00013635	.042
2050092140	.00000224	.071	.00000000	.999	.00026070	.033
2050092200	.00462897	.031	.01325950	.036	.01174740	.036
2050092260	.00632003	.032	.00291288	.030	.00021398	.034
2050092320	.00001162	.056				
3050092180	.00001036	.057	.00021793	.034	.00046127	.031
3050092222	.00153795	.029	.00349976	.030	.00347249	.030
3050092270	.00257798	.029	.00138350	.029	.00071734	.030
3050092312	.00036165	.032	.00006847	.041	.00001065	.037
1051092220	.00002548	.056	.00002548	.056	.00058994	.033
1051092280	.00168905	.029	.00167340	.029	.00347875	.029
1051092340	.00371911	.029	.00352450	.029	.00396751	.029
1051092400	.00930108	.031	.01398645	.032	.01524828	.033
1051092460	.01259558	.032	.02123453	.034	.02112411	.034
1051092520	.02058640	.034	.01766227	.034	.00895657	.031
1051092580	.00425212	.029	.00018775	.040	.00000939	.045
2051092260	.00001363	.054	.00000328	.067	.00019476	.035
2051092320	.00023484	.034	.00022866	.034	.00041328	.031
2051092380	.00061616	.030	.00133350	.029	.00162356	.029
2051092440	.00255503	.029	.00230489	.032	.00520669	.032
2051092500	.00365011	.030	.00350095	.030	.00158474	.029
2051092560	.00046127	.031	.00003196	.047	.00000000	.999
1052092380	.00000000	.999	.00000559	.070	.0002831	.055
1052092440	.00001751	.059	.00026954	.037	.00172138	.029
1052092500	.00713415	.030	.00577711	.029	.01999587	.034
1052092560	.01549828	.033	.01456514	.033	.01860991	.034
1052092620	.02323605	.035	.01803741	.034	.01155868	.032
1052092680	.00585258	.030	.00253104	.029	.00062890	.033

TABLE 1 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1052092740	.00017673	.040	.00000224	.071	.00004221	.042
2052092440	.00000000	.999	.00291809	.030	.00483871	.031
2052092500	.00071310	.030	.00656530	.033	.00500694	.031
2052092560	.00699788	.033	.00153281	.029	.00021823	.034
2052092620	.00378236	.030	.00000224	.071		
2052092580	.00002638	.049	.00002116	.057	.00002757	.035
1053092420	.00000939	.065	.00002548	.056	.00004373	.031
1053092480	.00003000	.999	.00000246	.078	.00000000	.999
1053092580	.00000939	.065	.00103332	.031	.00662476	.030
1053092660	.00002973	.054	.04620820	.039	.04368499	.039
1053092720	.01972462	.034	.02754435	.036	.01463257	.033
1053092780	.03574505	.038	.00624441	.030	.00332147	.029
1053092840	.01325287	.032	.00026889	.037	.00023521	.038
1053092900	.00070333	.032	.00001825	.059		
1053092960	.00014946	.041	.00000000	.999	.00000186	.073
2053092580	.00000566	.062	.00023715	.034	.00196144	.029
2053092660	.00000253	.070	.01431741	.037	.01429312	.037
2053092720	.00807188	.034	.00500403	.031	.00203669	.029
2053092780	.00937827	.034	.00008963	.040	.00004709	.044
2053092840	.00048891	.031	.00000328	.067		
2053092900	.00001363	.054	.00047788	.034	.00471860	.029
1054091740	.00000715	.067	.00387944	.029	.00585586	.030
1054091800	.00610523	.030	.00522986	.029	.00384338	.029
1054091640	.00839777	.030	.00017352	.040	.00004992	.030
1054091920	.00130586	.030	.00013918	.037	.00044547	.031
2054091780	.00010870	.038	.00070028	.030	.00039048	.031
2054091840	.00044763	.031	.00025421	.033	.00006758	.042
2054091900	.00092342	.029				
2054091960	.00000566	.062	.00002727	.049	.00012241	.037
3054091772	.00001684	.053	.00030361	.032	.00037841	.032
3054091820	.00018395	.035	.00090420	.029	.00039518	.031
3054091862	.00039048	.031	.00022024	.034	.00008427	.040
3054091910	.00068486	.030				
3054091952	.00001974	.051	.00000000	.999		

TABLE 1 (cont'd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1055091920	.00000326	.075	.00008397	.046	.00078470	.032
1055091980	.00224195	.029	.00412896	.029	.00530347	.029
1055092040	.00813529	.030	.00523746	.029	.00434689	.029
1055092100	.00782423	.030	.00478119	.029	.00316434	.029
1055092160	.00142388	.030	.00082962	.032	.00010066	.044
1055092220	.00005201	.050	.00000715	.067	.00000000	.999
2055091960	.00005946	.042	.00023320	.034	.00023685	.034
2055092020	.0029363	.033	.00020638	.034	.00052437	.030
2055092080	.00218436	.029	.00213578	.029	.00137858	.029
2055092140	.00189282	.029	.00103205	.029	.00121072	.029
2055092200	.00072531	.030	.00005826	.043	.00000149	.075
3055091970	.00000931	.058	.00003785	.046	.00004739	.044
3055092012	.00013947	.037	.00025421	.033	.00043780	.031
3055092060	.00054330	.030	.00124313	.029	.00170439	.029
3055092102	.00059284	.030	.00133894	.029	.00120923	.029
3055092150	.00133455	.029	.00103652	.029	.00052929	.030
3055092192	.00063382	.030	.00019900	.035	.00009403	.039
3055092240	.00005312	.043	.00002950	.048	.00000805	.069
1056092200	.00003181	.054	.00067256	.032	.00297762	.029
1056092260	.00522658	.029	.01242422	.032	.01861610	.034
1056092320	.02473988	.035	.02234936	.035	.00423998	.029
1056092380	.01420766	.032	.00653513	.030	.00459559	.029
1056092440	.00105932	.031	.00098944	.031	.00083446	.032
1056092500	.00162020	.029	.00131465	.030	.00045568	.034
1056092560	.00071004	.032	.00036508	.036	.00099532	.031
1056092620	.00073656	.032	.00363521	.029	.00492476	.029
1056092680	.00657834	.030	.00727490	.030	.00679351	.030
1056092740	.00521675	.029	.00610150	.030	.00759028	.030
1056092800	.00808239	.030	.00601046	.030	.00360183	.029
1056092860	.00309095	.029	.00293262	.029	.00181019	.029
1056092920	.00124492	.030	.00046864	.034	.00011265	.044
1056092980	.00002757	.055	.00000000	.999	.00000246	.078
2056092260	.00000395	.066	.00006728	.042	.00024356	.034
2056092320	.00105582	.029	.00159651	.029	.00279054	.030

TABLE 1 (cont'd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2056092380	.00331156	.030	.00289403	.030	.00153825	.029
2056092440	.00103153	.029	.00078529	.029	.00090264	.029
2056092500	.00043973	.031	.00054546	.030	.00122368	.029
2056092560	.00338249	.030	.00224844	.029	.00177287	.029
2056092620	.00165828	.029	.00096463	.029	.00060700	.030
2056092680	.00122115	.029	.00147492	.029	.00351369	.030
2056092740	.00457637	.031	.00582501	.032	.00603624	.032
2056092800	.00565469	.032	.00411801	.031	.00258073	.029
2056092860	.00185259	.029	.00120789	.029	.00040613	.031
2056092920	.00014931	.036	.00004277	.045	.00000998	.057
2056092980	.00001617	.053				
1057091680	.00002183	.057	.00116907	.030	.00901766	.031
1057091740	.01935080	.034	.02783701	.036	.02749011	.036
1057091800	.02431057	.035	.01641572	.033	.01282267	.032
1057091860	.02222501	.035	.02515674	.035	.02036263	.034
1057091920	.01546755	.033	.00461049	.029	.00137845	.030
1057091980	.00021987	.039	.00001311	.062	.00000559	.070
2057091700	.00009373	.039	.00068568	.030	.00242911	.029
2057091760	.00248961	.029	.00760615	.033	.00688188	.033
2057091820	.00409655	.031	.00606611	.032	.00541568	.032
2057091880	.00293590	.030	.00146285	.029	.00038065	.032
2057091940	.00004522	.045				
3057091700	.00000566	.062	.00010930	.038	.00027351	.033
3057091742	.00054494	.030	.00076883	.029	.00109285	.029
3057091790	.00106677	.029	.00098139	.029	.00170387	.029
3057091832	.00207983	.029	.00082150	.029	.00051953	.030
3057091880	.00028580	.033	.00010550	.038	.00000358	.066
1058091780	.00000082	.088	.00014156	.042	.00373684	.029
1058091840	.01719207	.033	.05502969	.040	.05845614	.041
1058091900	.06848074	.042	.05685896	.041	.04035085	.038
1058091960	.02930671	.036	.01485385	.033	.00415936	.029
1058092020	.00052519	.034	.00004508	.051	.00004373	.051
1057092080	.00001013	.064	.00000246	.078		
2058091760	.00000566	.062	.00001229	.055	.00000000	.099

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2058091820	.00000112	.078	.00000767	.059	.00019215	.035
2058091880	.00197075	.029	.00956208	.034	.01927212	.039
2058091940	.01128413	.035	.00732265	.033	.00300944	.030
2058092000	.00396855	.031	.00123769	.029	.00023209	.034
2058092060	.00000767	.059	.00000000	.999		
3058091880	.00001490	.054	.00001907	.052	.00015706	.036
3058091922	.00027187	.033	.00066936	.030	.00073433	.030
3058091970	.00151053	.029	.00387549	.030	.00342898	.030
3058092012	.00208057	.029	.00154845	.029	.00155792	.029
3058092060	.00216745	.029	.00165522	.029	.00081591	.029
3058092102	.00033461	.032	.00066609	.042	.00000834	.059
1059091740	.00000246	.078	.00000171	.081	.00000939	.065
1059091800	.00013113	.042	.00033066	.036	.00347488	.029
1059091860	.01879841	.034	.01940243	.034	.01987644	.034
1059091920	.02335536	.035	.03441654	.037	.04609764	.039
1059091980	.02713397	.036	.02490498	.035	.03112257	.037
1059092040	.03030352	.037	.02449349	.035	.03039248	.037
1059092100	.03808014	.038	.04014343	.038	.03574654	.038
1059092160	.04100032	.038	.03838837	.038	.02409980	.035
1059092220	.01586892	.033	.01151353	.032	.00985026	.031
1059092280	.00714324	.030	.00668570	.030	.00783280	.030
1059092340	.00877582	.031	.00056677	.033	.00592038	.030
1059092400	.00283644	.029	.00125900	.030	.00028223	.037
1059092460	.00000559	.070				
2059091700	.00000075	.081	.00001423	.054	.00004031	.045
2059091760	.00009991	.039	.00017337	.035	.00027940	.033
2059091820	.00046939	.031	.00071786	.030	.00111811	.029
2059091880	.00215538	.029	.00536427	.032	.00872739	.034
2059091940	.00757612	.033	.01005992	.035	.01080247	.035
2059092000	.01044037	.035	.00960454	.034	.00754457	.038
2059092060	.00387378	.030	.00162050	.029	.00064239	.030
2059092120	.00015967	.026	.00002101	.031		
3059091670	.00000395	.066	.00002034	.051	.00003539	.046
3059091712	.00009611	.039	.00021458	.034	.00051625	.030

TABLE 1 (cont'd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
3059091760	.00059523	.030	.00095516	.029	.00149414	.029
3059091802	.00109203	.029	.00080883	.029	.00085816	.029
3059091850	.00087053	.029	.00119105	.029	.00182897	.029
3059091892	.00195943	.029	.00219867	.029	.00198320	.029
3059091940	.00117265	.029	.00078820	.029		
1060091760	.00000641	.068	.00030175	.037	.00551276	.029
1060091820	.02559043	.036	.03235012	.037	.03524326	.037
1060091880	.02184972	.035	.01037575	.031	.00301182	.029
1060091940	.00013568	.042	.00004925	.050	.00000328	.075
2060091800	.00618053	.035	.00164270	.029	.00362881	.030
2060091860	.00405051	.031	.00339918	.030	.00088848	.029
2060091920	.00038035	.032	.00002667	.049		
3060091772	.00000000	.999	.00000037	.088	.00001393	.054
3060091820	.00009932	.039	.00032470	.032	.00136882	.029
3060091862	.00123404	.029	.00140376	.029	.00048734	.031
3060091910	.00019446	.035	.00005477	.043	.00002121	.051
3060091952	.00000000	.999				
1061091780	.00000000	.999	.00000484	.071	.00003532	.053
1061091840	.00077806	.032	.00443382	.029	.01100771	.031
1061091900	.01673669	.033	.02278507	.035	.02136275	.035
1061091960	.02031624	.034	.01310483	.032	.00686675	.030
1061092020	.00134036	.030	.00016250	.041	.00005066	.050
1061092080	.00005066	.050				
2061091520	.00000358	.066	.00006698	.042	.00043839	.031
2061091900	.00115760	.029	.00156559	.029	.00153899	.029
2061091960	.00151053	.029	.00140837	.029	.00089422	.029
2061092020	.00031635	.032	.00021458	.034	.00000633	.061
3061091862	.00000000	.999	.00002317	.050	.00007175	.041
3061091910	.00031695	.032	.00061430	.030	.00096172	.029
3061091952	.00060409	.030	.00099368	.029	.00076696	.029
3061092000	.00055134	.030	.00063434	.030	.00032276	.032
3061092042	.00004782	.036	.00000000	.999		
1062091700	.00000000	.999	.00029042	.037	.00361435	.029
1062091760	.01692198	.033	.02684034	.036	.02327502	.035

TABLE 1 (contd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1062091820	.0448287	.039	.0646240	.042	.0653438	.042
1062091880	.02824746	.036	.00541143	.029	.00033632	.036
1062091940	.00000000	.999	.00000559	.070	.00000000	.999
1062092000	.00000410	.073				
2062091740	.00001907	.052	.00129014	.029	.00746121	.033
2062091800	.00823900	.034	.00828274	.034	.01800977	.038
2062091860	.00989594	.035	.00184543	.029	.00025511	.033
2062091920	.00000224	.071				
3062091730	.00000112	.078	.00001132	.056	.00024334	.034
3062091772	.00243559	.029	.00267692	.029	.00256628	.029
3062091820	.00623129	.032	.00409730	.031	.00235580	.029
3062091862	.00079133	.029	.00020668	.034	.00000291	.068
1063091580	.00001386	.061	.00000000	.999	.00011131	.044
1063091640	.00118971	.030	.00245966	.029	.00625417	.030
1063091700	.00962749	.031	.01000829	.031	.00959463	.031
1063091760	.00917800	.031	.00791781	.030	.00447243	.029
1063091820	.00360295	.029	.00093713	.031	.00016764	.041
1063091880	.00003181	.054	.00000939	.065	.00002183	.057
1063091940	.00000790	.066	.00001825	.059		
2063091620	.00000462	.064	.00000340	.042	.00021711	.034
2063091680	.00047699	.031	.00170343	.029	.00202991	.029
2063091740	.00213221	.029	.00131413	.029	.00104465	.029
2063091800	.00093415	.029	.00037514	.032	.00013374	.037
2063091860	.00004463	.045	.00001296	.055	.00000186	.073
2063091920	.00000037	.088				
3063091670	.00004306	.045	.00013456	.037	.00015505	.036
3063091712	.00029974	.033	.00035234	.032	.00040069	.031
3063091760	.00052899	.030	.00036687	.032	.00032693	.032
3063091802	.00032552	.032	.00014760	.036	.00004090	.045
3063091850	.00003695	.046	.00000328	.067	.00000000	.999
3063091892	.00000075	.081	.00000000	.999	.00000253	.070
1064091620	.00000000	.999	.00007048	.047	.00043839	.035
1064091680	.00179462	.029	.00492036	.029	.00985920	.031
1064091740	.01337215	.032	.01001097	.031	.01126103	.031

TABLE 1 (contd)

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I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1064091800	.00948712	.031	.00915147	.031	.00890180	.031
1064091660	.00617348	.030	.00113554	.030	.00031374	.036
1064091920	.0002041	.058	.00000000	.999		
2064091690	.00002064	.051	.00041410	.031	.00050165	.021
2064091740	.00099316	.029	.00132449	.029	.00118718	.029
2064091800	.00091657	.029	.00072554	.030	.00069819	.030
2064091860	.00009492	.039	.00000998	.057	.00000291	.068
2064091920	.0000253	.070	.00000186	.073		
3064091700	.0000328	.067	.00007115	.041	.00007085	.041
3064091742	.00015795	.036	.00019841	.035	.00025369	.033
3064091790	.00024304	.034	.00026792	.033	.00017993	.035
3064091832	.0002638	.049	.00022444	.049	.00001840	.052
3064091880	.00000000	.999	.00000000	.999		
1065093040	.00000000	.999	.00000328	.075	.00000082	.088
1065093100	.00000246	.078	.00000171	.081	.00006162	.048
1065093160	.00079550	.032	.00474058	.029	.01250520	.032
1065093220	.01697503	.033	.02367444	.035	.02104372	.034
1065093280	.01136817	.032	.00573307	.029	.00304438	.029
1065093340	.00103861	.031	.00049017	.034	.00000410	.073
2065093160	.0002384	.050	.00020497	.034	.00114255	.029
2065093220	.00336573	.030	.00456817	.031	.00629619	.032
2065093280	.00475168	.031	.00215262	.029	.00071600	.033
2065093340	.00023007	.034	.00000499	.063		
1066091760	.00003606	.053	.00021413	.039	.00311948	.029
1066091620	.01140177	.032	.02426915	.035	.04522130	.059
1066091880	.05113885	.040	.04896939	.040	.03175110	.037
1066091940	.02389856	.035	.01730874	.033	.00747398	.050
1066092000	.00287190	.029	.00135256	.030	.00001013	.064
1066092060	.00000082	.088	.00000641	.068	.00001237	.042
1066093240	.00000082	.088	.00000484	.071	.00001386	.061
1066093320	.00003532	.053	.00000082	.088	.00001386	.061
1066093380	.00003532	.053	.00004373	.051	.00000000	.999
2066091800	.00000000	.999	.00002064	.051	.00033356	.032
2066091860	.00169776	.029	.00526808	.032	.00848539	.034

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2066091920	.00922158	.034	.00569371	.032	.00350684	.030
2066091980	.00253335	.029	.00114359	.029	.00012211	.038
2066093320	.00000000	.999	.00000186	.073	.00000633	.061
2066093380	.00000037	.088	.00000671	.061		
3066091850	.00000000	.999	.00001810	.052	.00007570	.041
3066091892	.00023372	.034	.00092633	.029	.00174515	.029
3066091940	.00222482	.029	.00231393	.029	.00184700	.029
3066091982	.00101567	.029	.00036634	.032	.00015765	.036
1057092160	.00000000	.999	.00001386	.061	.00013962	.042
1067092220	.00306010	.029	.00969470	.031	.01964971	.034
1067092280	.02888098	.036	.03050141	.037	.02733998	.036
1067092340	.02016477	.034	.00462696	.029	.01439713	.033
1067092400	.01247540	.032	.00806421	.030	.00293769	.029
1067092460	.00099771	.031	.00015661	.041	.00010401	.044
2067092240	.00003912	.046	.00028528	.033	.00072025	.030
2067092300	.00182055	.029	.00204757	.029	.00376374	.030
2067092360	.00568256	.032	.00475742	.031	.00340879	.030
2067092420	.00294782	.030	.00218786	.029	.00213876	.029
2067092480	.00198670	.029	.00159502	.029	.00054516	.030
2067092540	.00006936	.041	.00000834	.059		
3067092342	.00000000	.999	.00001326	.055		
1068092260	.00000410	.073	.00006773	.047	.00030175	.037
1068092320	.00053376	.034	.00101551	.031	.00040062	.035
1068092380	.01796506	.034	.06964728	.042	.20165704	.031
1068092440	.25083810	.052	.14970213	.048	.01852289	.034
1068092500	.00633255	.030	.00251010	.029	.00011526	.043
1068092560	.00000000	.999				
2068092280	.00001490	.054	.00016622	.036	.00139519	.039
2068092340	.00338152	.030	.00536659	.032	.01474969	.037
2068092400	.01715273	.038	.05345695	.046	.07087223	.048
2068092460	.02511725	.040	.00272661	.030	.00026263	.033
2068092520	.00001460	.054	.00000671	.061	.00000037	.088
1069091540	.00003552	.053	.00088409	.031	.00795417	.030
1069091600	.01634444	.033	.01749607	.033	.02668990	.036

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1069091660	.03285699	.037	.02688512	.036	.01465172	.033
1069091720	.00444330	.029	.00179462	.029	.00048771	.034
1069091780	.00000864	.066				
2069091560	.00000149	.075	.00022955	.034	.00236452	.029
2069091620	.00330664	.030	.00468828	.031	.00395067	.031
2069091680	.00729099	.033	.00076830	.029	.00008635	.040
2069091740	.00001162	.056				
3069091580	.00000037	.088	.00008218	.040	.00070535	.030
3069091622	.00211917	.029	.00196420	.029	.00141487	.029
3069091676	.00078946	.029	.00027329	.033	.00008337	.040
3069091712	.00002317	.050				
1070091660	.00375912	.029	.00448346	.029	.01173533	.032
1070091720	.00798360	.030	.02168663	.035	.02616368	.036
1070091780	.01561016	.033	.00120677	.030	.00001460	.041
2070091600	.00009164	.039	.00142567	.029	.00272691	.030
2070091660	.00382878	.030	.00329908	.032	.00341572	.030
2070091720	.00183731	.029	.00011660	.038	.00058740	.030
2070091780	.00002697	.049				
3070091550	.00002444	.049	.00028022	.033	.00042908	.031
3070091592	.00068374	.030	.00142075	.029	.00186753	.029
3070091640	.00231639	.029	.00263207	.029	.00302427	.030
3070091682	.00314318	.030	.00258446	.029	.00267811	.029
3070091730	.00020921	.034	.0002034	.051	.00000000	.999
1071092960	.00000062	.068	.00005953	.049	.00088468	.031
1071093020	.00431553	.029	.02150767	.035	.06505825	.042
1071093080	.08218624	.043	.05067974	.040	.01678511	.033
1071093140	.00309542	.029	.00023332	.037	.01455955	.037
2071093020	.00003293	.047	.00103258	.039	.00050895	.030
2071093080	.0267358	.041	.01125999	.035		
2071093140	.00000037	.088				
1072093000	.00000000	.999	.00000641	.068	.00006840	.047
1072093060	.00039622	.035	.00282235	.029	.01372859	.032
1072093120	.02769247	.036	.04244460	.039	.04297227	.039
1072093180	.01620024	.033	.00469066	.029	.00023969	.034

TABLE 1 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1072093240	.00001162	.053	.0001907	.052	.00016592	.036
2072093040	.00000075	.081	.00465512	.031	.00559211	.032
2072093100	.00232317	.029	.00189945	.029	.00024863	.033
2072093160	.0084205	.034	.00000000	.999		
2072093220	.00000000	.999	.00000000	.999	.00000328	.075
1073093000	.00000000	.999	.00001088	.063	.00004371	.048
1073093060	.00001162	.063	.01254700	.032	.04624486	.039
1073093120	.00136204	.030	.05799713	.041	.02343252	.035
1073093180	.00571787	.029	.00061311	.033	.00001386	.061
2073093040	.00000000	.999	.00000529	.063	.00001200	.056
2073093120	.00006281	.042	.00263281	.029	.01160897	.035
2073093180	.01695313	.038	.01467042	.037	.00483550	.031
2073093240	.00014670	.036				
1074092920	.00000000	.999	.00003932	.053	.00005133	.050
1074092980	.00010736	.044	.00013173	.042	.00062764	.033
1074093040	.00278912	.029	.00899258	.021	.02045691	.034
1074093100	.02983591	.036	.02986602	.036	.02610423	.036
1074093160	.01438417	.033	.00860986	.031	.00427417	.029
1074093220	.00141628	.030	.00029296	.037	.00000410	.073
2074093000	.00000000	.999	.00000149	.075	.00019245	.035
2074093060	.00100516	.029	.00235178	.029	.00401460	.031
2074093120	.00683367	.033	.00499539	.031	.00375934	.030
2074093180	.00285360	.030	.00127904	.029	.00026375	.033
2074093240	.00000149	.075				
1075093020	.00005819	.049	.00015073	.041	.00069790	.032
1075093080	.00626661	.030	.02214432	.035	.03607653	.038
1075093140	.03207557	.037	.03344953	.037	.02937078	.036
1075093200	.02194673	.035	.00479594	.029	.00033759	.036
1075093260	.00000790	.066				
2075093000	.00000000	.999	.00000000	.999	.00000000	.999
2075093060	.00004463	.045	.00119962	.029	.00030830	.032
2075093120	.00859715	.034	.00653654	.033	.00831120	.034
2075093180	.00960790	.034	.00277758	.030	.00010350	.038

TABLE 1 (contd)

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I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1076093080	.0000715	.067	.00001535	.060	.00004508	.051
1076093140	.00062644	.033	.00414059	.029	.01230292	.032
1076093200	.03604628	.038	.03365882	.037	.03357679	.037
1076093260	.01659147	.033	.00283717	.029	.00029922	.037
1076093320	.00000939	.065	.00000171	.081		
2076093080	.00000767	.059	.00000671	.061	.00002034	.051
2076093140	.00002064	.051	.00014499	.036	.00123926	.029
2076093200	.00519030	.032	.01032129	.035	.00821598	.034
2076093260	.00297457	.030	.00041410	.031	.00001743	.052

TABLE 2. Ocean Breeze exposure data (gm sec m⁻³) and relative standard error of data (%) for 5-ft sampling heights. (See text for explanation of data format.)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1002082400	.01081251	.031	.0005748	.052		
2002082400	.00187486	.029				
1006082820	.00647523	.030	.00546157	.029	.00667326	.030
1006083000	.00130408	.030				
2006082820	.00198871	.029	.00174642	.029	.00148468	.029
2006083000	.00284910	.030				
1007082400	.00024095	.038				
1008082400	.00001609	.060				
1008082580	.00000000	.999	.00000000	.999	.00000171	.081
1008082760	.00104219	.031	.00211701	.029	.00505716	.029
2008082640	.00003815	.046	.00478007	.029	.00099353	.031
2008082820	.00094779	.029	.00140920	.029	.00033602	.032
1012082460	.00002183	.057	.00084209	.030		
1012082640	.0024774	.029	.00060640	.033	.00321075	.029
2012082460	.00000112	.078	.00033681	.033	.00002548	.056
2012082640	.00040419	.031	.00039548	.031	.00073299	.030
1013082400	.00322029	.029	.00000738	.060		
1013082580	.00002898	.055	.00637298	.030	.000229102	.037
2013082400	.00033826	.032	.00157632	.029	.00225492	.029
2013082580	.00065148	.030	.00025056	.033		
1014082400	.00000000	.999	.00001088	.063		
2014082400	.00000224	.071	.00000700	.060		
1015082520	.00011921	.043	.000180960	.029	.00611119	.030
1015082700	.01011714	.031	.00727542	.030	.00144191	.030
1015082880	.00010468	.044	.00001676	.059		
2015082820	.00002854	.048	.00095703	.029	.00036195	.032
2015083000	.00003882	.046				
1016082640	.00150591	.030	.00695072	.030	.00920825	.031
1016082820	.00106879	.031				
2016082640	.00000358	.066	.00090420	.029	.00334285	.030
2016082820	.00170901	.029	.00014961	.036		
1017082400	.00001900	.058	.00000082	.088		
1018082700	.00000359	.070	.00002399	.056	.00002757	.055
1018082880	.00022627	.039	.00616752	.030	.00463299	.029

TABLE 2 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1018083060	.00040866	.035	.00006549	.042	.00433378	.031
2018082820	.00000075	.081	.0002161	.050	.00000432	.065
2018083000	.00327736	.030	.00188209	.029	.00395916	.029
1019082660	.00016764	.041	.00257350	.029	.00226475	.029
1019082820	.00498660	.029	.00045381	.034	.00105403	.029
1019083000	.00161961	.029	.00039384	.031	.00052169	.030
2019082700	.00001781	.052	.00088006	.029		
2019082880	.00179902	.029				
2019083060	.00002064	.051	.00007994	.046	.00189416	.029
1020082400	.00000484	.071	.00230685	.029	.00200145	.029
1020082580	.00264525	.029	.00090793	.031	.00046246	.034
1020082760	.00145942	.030	.0005476	.049		
1020082940	.00093654	.031	.0005402	.043	.00132166	.029
2020082400	.00000075	.081	.00099264	.029	.00033408	.032
2020082580	.00071757	.030	.00014439	.036	.00009783	.039
2020082760	.00024669	.033	.00001974	.031		
2020082940	.00025623	.033	.00046495	.029	.00794612	.030
1021082400	.00140168	.030	.00217296	.029	.00158310	.030
1021082580	.00492856	.029				
1021082760	.00022560	.039	.00035591	.032	.00090867	.029
2021082400	.00123404	.029	.00016734	.036	.00007115	.041
2021082580	.00075214	.029				
2021082760	.00000149	.075	.00038612	.030	.00623576	.030
1022082760	.00117615	.030	.00023581	.038		
1022082940	.00384174	.029	.00140563	.029	.00205919	.029
2022082820	.00009961	.039	.00036500	.032	.00003844	.046
2022083000	.00145569	.029	.00013821	.031	.00035299	.030
1023082940	.00104927	.031	.00000559	.070		
1023083120	.00145942	.030	.00059284	.030	.00040479	.031
2023083000	.00000253	.070				
2023083180	.00002980	.048	.00000171	.081	.00000641	.048
1034082520	.00000559	.070	.00028834	.044	.002494134	.035
1034082700	.00017740	.040				
1034082860	.00004858	.050				

TABLE 2 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2034082500	.00000000	.999	.00000037	.038	.00000291	.068
2034082760	.00181727	.029	.01858696	.038	.00088237	.029
2034082940	.00001326	.055	.00000000	.999	.00000000	.999
1035082400	.00000328	.075	.00000000	.999	.00001237	.062
1035082580	.08577943	.044	.05619648	.041	.01654975	.033
1035082760	.00041798	.035	.00011265	.044	.00004791	.050
1035082940	.00001460	.061	.03009459	.042	.02484426	.040
2035082580	.00002481	.049	.00002667	.049	.00001326	.055
2035082760	.00042967	.031	.00000037	.052	.00480697	.029
2035082940	.00000037	.088	.00003882	.035	.03539905	.038
1036082700	.00000171	.081	.02270393	.035	.00000529	.063
1036082880	.01118697	.031	.00000166	.073	.00588439	.032
1036083060	.00163406	.029	.00024639	.033	.00047050	.034
2036082580	.00000112	.078	.00095375	.031	.00063255	.033
2036082760	.00000499	.063	.00032507	.036	.06219499	.041
2036082940	.01399234	.037	.03231972	.037	.00000790	.066
1037082460	.00002615	.056	.00002332	.057	.00086136	.029
1037082640	.00046000	.034	.00030503	.032	.00086136	.029
1037082820	.00792049	.030	.01042644	.035	.01749717	.038
1037083000	.00470325	.029	.00001296	.055	.00001535	.060
2037082640	.00000442	.064	.00000000	.999	.01119591	.031
2037082820	.00435442	.031	.00061914	.033	.00207126	.029
2037083000	.00140280	.029	.00801831	.030	.0002190	.050
1038082760	.00001386	.061	.00000000	.999	.00009164	.039
1038082940	.00006571	.048	.00001810	.052	.00629112	.032
1038083120	.01984477	.034	.00848603	.032		
2038082700	.00000037	.088				
2038082880	.00000075	.081				
2038083060	.00214331	.029				
2038083240	.00115782	.029				
1039082400	.00000484	.071	.00000000	.999	.00000000	.999
1039082580	.00000000	.999	.00000171	.081	.00000000	.999
1039082760	.00000000	.999	.00002041	.038	.00000484	.071
1039082940	.00000939	.065				

TABLE 2 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1040082880	.00012256	.043	.02261825	.035	.02649583	.036		
1040083060	.01474395	.033	.00017546	.040	.00000246	.078		
2040082820	.00000149	.075	.00000186	.073	.00041187	.031		
2040083000	.00748023	.033	.00559717	.032	.00006340	.042		
1040082400	.00002973	.054	.00000410	.073	.02278455	.035		
1040082580	.01084827	.031	.00187404	.029	.00008062	.046		
2040082400	.00000075	.081	.00001520	.053	.00094287	.029		
2040082580	.01615524	.037	.00157326	.029	.00000805	.059		
2040082760	.00000328	.067						
1051082400	.00949509	.031	.01653373	.033	.01483880	.033		
1051082580	.00309654	.029						
2051082400	.00047103	.031	.00237353	.029	.00399075	.031		
2051082580	.00001654	.053						
1052082400	.00001676	.059	.00018515	.040	.01149043	.032		
1052082580	.00975929	.031	.01385234	.032	.00192001	.029		
2052082460	.00000671	.061	.00266070	.030	.00569597	.032		
2052082640	.00101142	.029						
1053082400	.00001162	.063	.00000000	.999	.00004992	.050		
1053082580	.00002041	.058	.00000000	.999	.00622548	.030		
1053082760	.05435631	.040	.02049111	.034	.00229210	.029		
1053082940	.00020385	.039						
2053082580	.00000566	.062	.00000000	.999	.00156000	.029		
2053082760	.01327284	.036	.00084206	.029	.00002667	.049		
1056082400	.00601262	.030	.00053316	.034	.00114791	.030		
1056082580	.00030428	.037	.00359401	.029	.00756398	.030		
1056082760	.00535585	.029	.00403553	.029	.00213698	.029		
1056082940	.00039876	.035						
2056082400	.00240788	.029	.00082575	.029	.00053599	.030		
2056082580	.00170209	.029	.00099212	.029	.00131160	.029		
2056082760	.00517897	.032	.00259408	.029	.00110924	.029		
2056082940	.00007451	.041	.00000000	.999				
1059082400	.00166647	.029						
1065083060	.00000000	.999	.00000000	.999	.00266507	.029		
1065083240	.02066791	.034						

TABLE 2 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2065083000	.00000000	.999	.00000000	.999	.00000224	.071
2065083180	.00017680	.035	.00492081	.031		
1066083240	.00001235	.060				
1067082400	.00986613	.031	.00078283	.032		
2067082400	.00268407	.030	.00142137	.029	.00050224	.031
1068082400	.06806150	.042	.10818191	.045	.00135284	.030
2068082400	.01417734	.037	.01583926	.037	.00000499	.063
1070082400	.00001013	.064				
1071082940	.00000171	.081	.00068642	.032	.05487010	.040
1071083120	.01522443	.033				
2071083060	.01224183	.036	.00055000	.030		
1072083060	.00031181	.037	.02366535	.035	.00674121	.030
1072083240	.00003465	.053				
2072083060	.00000872	.058	.00581354	.032	.00195965	.029
1073083000	.00000000	.999	.00001088	.063	.00101015	.031
1073083180	.02649933	.036	.00422336	.029		
2073083120	.00008218	.040	.01339540	.036	.00008784	.040
1074083000	.00010796	.044	.00870503	.031	.02101421	.034
1074083180	.00303207	.029	.00021026	.039		
2074083060	.00089794	.029	.00583224	.032	.00196703	.029
2074083240	.00000000	.999				
1075083000	.00000000	.999	.00081524	.032	.03187522	.037
1075083180	.01299642	.032	.00029422	.037		
2075083060	.00003256	.047	.00788175	.033	.00709467	.033
1076083060	.00001967	.058	.00007994	.046	.00485793	.029
1076083240	.02046791	.034				
2076083060	.00000075	.081	.00001132	.056	.00084892	.029
2076083240	.00664592	.033				

TABLE 3. Summary of field and laboratory notes for the Ocean Breeze experiments. Position denotes arc and azimuth location of sampler

FIFTEEN FOOT SAMPLE HEIGHTS

<u>Run</u>	<u>Position</u>	<u>Note</u>
1	1-228	Sample dropped on ground
	1-230	Engine changed out during test
	1-242	Filter split
	1-246	Filter dropped
	2-222 to 2-228	Engines out about 5 minutes during test
	2-242	Engine out 2 minutes during test
2	2-244	Filter not properly seated in holder
	1-230	Engine out 5 minutes during test
	2-230	Engine out 2 minutes during test
	2-234	Engine out 5 minutes during test
3	2-206 through 2-228	Heavy ground fog
6	2-294	Data correct, troubles encountered prior to test
10	2-184	Engine dead at end of test - still warm
11	2-204	Light rain after 1945 H
	2-212 through 2-232	Light rain after 1945 H
	3-216	Sample missing, data interpolated
13	1-224 through 1-252	Spray painting near samplers, paint tested and found not to affect these data
14	2-222 and 2-230	Engines dead, values interpolated
15	2-298	Small bird-peck hole in filter
16	1-256	Small bird-peck hole in filter
19	1-272	Bird observed perched on sampler
20	2-248	Light intermittent rain during test
	2-258	Filter missing, value interpolated
	2-276 and 2-278	Heavy rain shower at 1255 H
	2-294 and 2-296	Light rain shower at 1216 H
	2-318	Sample dropped on ground
	3-161	Split in filter
24	2-160 through 2-174	Light dust on filter
25	3-161 through 3-173	Light dust on filter
26	2-152 through 2-170	Light dust on filter
	3-152 through 3-168	Light dust on filter
27	2-178 through 2-186	Very light dust on filter
	3-174	Light carbon on filter
	3-183	Filter touched with finger
28	1-182 through 1-188	Light carbon on filter
	2-182 through 2-186	Light carbon on filter
29	1-176	Data correct, suspicious sample recounted
30	3-159 through 3-188	Light carbon on filter
32	2-182	Data correct, suspicious sample recounted
35	1-254 and 1-258	Data correct, suspicious sample recounted
37	1-254	Filter touched with finger
38	1-256	Data correct, suspicious data recounted
	1-282	Filter not completely seated in sampler
39	1-194	Data correct, suspicious data recounted
	2-190	Engine dead, data interpolated
	2-200	Heavy carbon, data interpolated
	2-242	Engine dead, data interpolated
41	3-164	Engine dead, data interpolated
42	1-194	Data correct, suspicious sample recounted
	1-193 through 1-210	Dust in vicinity, did not affect samples
	2-200	Data correct, suspicious sample recounted
	3-159 through 3-162	Smoke in vicinity, did not affect samples

TABLE 3 (contd)

<u>Run</u>	<u>Position</u>	<u>Note</u>
43	1-210	Engine dead, but warm at end of test
	2-216	Data correct, suspicious sample recounted
44	2-216	Data correct, suspicious sample recounted
45	1-194	Data correct, suspicious sample recounted
47	1-218	Data correct, suspicious sample recounted
	2-210	Filter dropped
	2-216	Data correct, suspicious sample recounted
	2-218	Engine dead at end of test
	1-236	Data correct, suspicious sample recounted
66	1-194	Filter missing, value interpolated
67	1-236	Data correct, suspicious sample recounted
68	1-236	Data correct, suspicious sample recounted

FIVE FOOT SAMPLE HEIGHTS

<u>Run</u>	<u>Position</u>	<u>Note</u>
13	1-240	No filter, counted backing
	1-252	Carbon on filter
	2-258	Light dust on filter
15	1-288	Filter dropped
21	2-246	Carbon on filter
35	2-264 through 2-294	Light dust on filters

TABLE 4. Ocean Breeze arcwise integrated exposures (AIE) in gm sec m⁻² and standard deviation of arcwise mass distributions (σ_r) in meters for 15-ft sampler heights identified by run number and arc number

Run	Date	Time (EST)	ARC 1		ARC 2		ARC 3	
			AIE (gm sec m ⁻²)	σ_r (m)	AIE (gm sec m ⁻²)	σ_r (m)	AIE (gm sec m ⁻²)	σ_r (m)
1	5-15-61	1825	8,139	52.5	2,084	110.4		
2	5-17-61	1650	2,995	67.0	0,996	96.9		
3	5-17-61	2100	5,519	86.4	2,463	97.5		
4	5-18-61	1650	3,302	60.2	1,619	104.5		
5	5-18-61	2033	2,877	46.3	1,243	82.2		
6	5-18-61	1840	3,443	105.5	2,022	270.1		
7	5-24-61	1650	3,540	106.5	1,028	184.7		
8	5-24-61	2058	2,128	133.1	1,020	180.3		
9	5-28-61	1648	2,287	102.5	3,190	370.3		
10	5-28-61	2032	6,460	204.3	1,740	180.7		
11	5-31-61	1846	6,310	132.1	0,469	189.2		
12	6-5-61	1100	1,180	110.4	1,687	203.1		
13	6-6-61	0900	2,822	104.3	0,727	145.4		
14	6-6-61	1237	1,797	87.4	0,384	149.1		
15	6-7-61	0956	3,780	139.3				
16	6-7-61	1239	2,568	84.1	1,818	181.3		
17	6-8-61	0840	3,280	141.1				
18	6-8-61	1231	1,988	74.8	2,101	164.8		
19	6-9-61	0835	2,704	190.8	1,267	306.7		
20	6-9-61	1210	1,607	252.7	1,097	818.3		
21	6-12-61	1045	3,535	166.0	1,808	394.0		
22	6-13-61	1039	3,101	106.8	1,566	247.7		
23	6-14-61	1037	2,922	84.9	0,560	136.8		
24	1-11-62	1327	9,091	65.5	0,682	127.3	0,304	180.3
25	1-17-62	1543	6,032	53.5	1,544	169.5	1,044	214.0
26	1-17-62	1821	6,421	76.0	8,124	169.5	0,986	214.0
27	1-18-62	1431	12,481	63.5	6,704	64.3	2,383	131.1
28	1-18-62	1724	11,970	55.4	4,383	87.3	2,011	240.3
29	1-18-62	1824	9,003	114.2	4,168	282.7	2,489	246.3
30	1-19-62	1830	12,333	140.5	5,688	182.4	1,444	182.3
31	1-20-62	1349	6,121	87.7	1,631	102.0	1,310	207.3
32	1-20-62	1542	6,103	64.6	1,719	122.6	1,317	162.9
33	1-20-62	1659	6,222	64.7	2,068	110.4		
34	1-22-62	1840	16,252	51.6	12,177	96.1		
35	1-22-62	1823	22,123	84.7	136.3	184.3		
36	1-23-62	1440	12,180	194.7	6,004	184.3		
37	1-23-62	1618	17,033	181.7	9,548	284.1		
38	1-24-62	1431	6,790	111.3	4,489	214.3		
39	1-25-62	1807	17,201	143.6	8,318	233.9	1,489	204.1

TABLE 4 (contd)

Run	Date	Time (EST)	ARC 1 $\frac{A/E}{(\text{cm sec m}^{-2})}$	Q_r (m)	ARC 2 $\frac{A/E}{(\text{cm sec m}^{-2})}$	Q_r (m)	ARC 3 $\frac{A/E}{(\text{cm sec m}^{-2})}$	Q_r (m)
40	1-20-62	1623	10.424	89.3	4.181	153.8	1.758	182.5
41	1-29-62	1970	8.323	44.2	4.243	94.8	0.317	484.3
42	1-30-62	1405	2.639	159.0	0.338	347.2	1.764	376.5
43	1-31-62	1354	1.458	114.4	2.043	201.4	1.796	281.7
44	1-31-62	1542	6.724	114.8	1.493	211.3	1.203	268.3
45	2-1-62	1447	2.196	88.3	0.287	148.6	1.288	175.7
46	2-1-62	1648	11.469	58.4	5.004	66.4	1.387	218.0
47	2-2-62	1402	3.802	78.6	2.059	157.2		
48	2-2-62	1819	13.810	81.6	6.853	127.7	1.442	484.0
49	2-3-62	1338	3.098	107.0	2.178	164.7	1.409	211.5
50	2-3-62	1508	5.922	66.8	3.314	204.3		
51	2-3-62	1337	6.886	141.1	2.288	163.9		
52	3-10-62	1507	6.129	109.3	2.749	187.2	0.472	288.0
53	3-10-62	1839	9.218	89.7	4.705	159.5	1.466	407.5
54	3-13-62	1344	1.688	86.6	0.283	214.9		
55	3-13-62	1508	2.040	104.9	1.029	720.9		
56	3-13-62	1633	8.472	481.7	8.709	189.6	1.315	294.4
57	3-14-62	1340	9.693	132.3	3.418	189.6	0.443	281.5
58	3-14-62	1620	14.685	87.2	1.883	130.4	2.343	618.3
59	3-14-62	1710	11.369	264.2	6.464	241.4	0.546	304.9
60	3-16-62	1505	5.643	59.2	1.197	106.2	0.740	314.4
61	3-16-62	1621	5.016	80.6	0.768	103.4	0.408	314.4
62	3-16-62	1753	11.764	76.9	4.663	125.6	0.181	322.5
63	3-17-62	1342	2.781	97.7	0.886	172.3		
64	3-17-62	1451	3.659	104.8	0.578	172.3		
65	3-20-62	1540	4.274	74.0	1.973	121.3	1.276	322.5
66	3-22-62	1551	11.230	115.4	2.376	180.3		
67	3-24-62	1534	7.705	112.3	2.859	240.8	0.542	308.1
68	3-24-62	1815	30.230	49.3	16.377	171.5		
69	3-27-62	1821	6.344	79.0	1.914	151.7		
70	3-27-62	1954	4.000	76.7	1.628	124.7		
71	3-28-62	1820	10.306	50.1	4.526	160.7		
72	3-28-62	1828	8.419	66.4	1.949	160.7		
73	3-29-62	1817	8.979	81.8	4.376	132.4		
74	3-30-62	1536	6.208	81.5	2.316	132.4		
75	3-30-62	1648	7.974	78.4	3.103	132.4		
76	3-31-62	1823	8.476	87.9	2.403	132.4		

TABLE 5. Total amount of tracer generated, Q, in kilograms, identified by run number, date, and time the 30-min emission period began for Ocean Breeze

<u>Run</u>	<u>Q (kg)</u>	<u>Date</u>	<u>Time Release Began (EST)</u>
1	1.04	15 May 61	1825
2	1.78	17 May 61	1850
3	.55	17 May 61	2100
4	1.78	18 May 61	1850
5	.57	18 May 61	2033
6	.55	19 May 61	1940
7	1.95	24 May 61	1850
8	.61	24 May 61	2056
9	1.70	29 May 61	1848
10	1.11	29 May 61	2052
11	1.80	31 May 61	1846
12	2.13	5 Jun 61	1100
13	1.94	6 Jun 61	0900
14	2.56	6 Jun 61	1237
15	2.73	7 Jun 61	0906
16	2.73	7 Jun 61	1239
17	2.64	8 Jun 61	0840
18	2.67	8 Jun 61	1231
19	2.61	9 Jun 61	0835
20	2.84	9 Jun 61	1210
21	2.79	12 Jun 61	1045
22	2.81	13 Jun 61	1029
23	2.82	14 Jun 61	1037
24	2.86	11 Jan 62	1327
25	2.06	17 Jan 62	1643
26	2.19	17 Jan 62	1821
27	3.26	18 Jan 62	1412
28	2.19	18 Jan 62	1724
29	2.27	19 Jan 62	1634
30	2.04	19 Jan 62	1830
31	2.99	20 Jan 62	1349
32	2.93	20 Jan 62	1842
33	2.45	20 Jan 62	1859
34	3.04	22 Jan 62	1640
35	1.47	22 Jan 62	1825
36	2.93	23 Jan 62	1440
37	2.93	23 Jan 62	1816
38	2.28	24 Jan 62	1431
39	2.24	25 Jan 62	1807
40	2.88	26 Jan 62	1622
41	2.88	29 Jan 62	1930
42	2.88	30 Jan 62	1405
43	3.04	31 Jan 62	1354
44	2.93	31 Jan 62	1542
45	2.88	1 Feb 62	1447
46	2.93	1 Feb 62	1648
47	2.99	2 Feb 62	1402
48	2.39	2 Feb 62	1619
49	2.88	3 Feb 62	1335
50	2.93	3 Feb 62	1508
51	2.88	10 Mar 62	1337
52	2.91	10 Mar 62	1507
53	3.04	10 Mar 62	1639
54	2.99	13 Mar 62	1344

TABLE 3 (contd)

<u>Run</u>	<u>Q (kg)</u>	<u>Date</u>	<u>Time Release Began (EST)</u>
55	3.04	13 Mar 62	1502
56	2.99	13 Mar 62	1633
57	2.96	14 Mar 62	1346
58	2.88	14 Mar 62	1520
59	2.88	14 Mar 62	1710
60	2.96	16 Mar 62	1505
61	2.91	16 Mar 62	1621
62	2.99	16 Mar 62	1753
63	2.93	16 Mar 62	1342
64	2.99	16 Mar 62	1451
65	2.77	20 Mar 62	1540
66	2.99	22 Mar 62	1551
67	2.99	24 Mar 62	1534
68	1.47	24 Mar 62	1816
69	2.22	27 Mar 62	1821
70	2.26	27 Mar 62	1956
71	2.34	28 Mar 62	1820
72	3.01	29 Mar 62	1628
73	2.28	29 Mar 62	1817
74	3.31	30 Mar 62	1538
75	2.24	30 Mar 62	1848
76	3.09	31 Mar 62	1523

TABLE 6. Dry Gulch exposure data (gm sec m⁻³) and relative standard error of data (%).
(See text for explanation of format.)

I.D.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.
1001081190	.00000469	.065	.00001170	.057	.00000283	.070
1001081250	.00013068	.038	.00027165	.033	.00062801	.030
1001081310	.00049181	.031	.00105552	.029	.00086449	.029
1001081370	.00057824	.030	.00043571	.031	.00017099	.036
1001081430	.00005201	.044	.00002407	.050	.00000863	.062
1001081230	.00005551	.063	.00001028	.058	.00002377	.050
2001081260	.00006996	.042	.00013158	.038	.00015736	.037
2001081290	.00017822	.036	.00021644	.035	.00033759	.032
2001081320	.00035033	.032	.00052497	.031	.00062443	.030
2001081350	.00028394	.033	.00001810	.053	.00026733	.034
2001081380	.00019930	.035	.00009485	.040	.00002027	.062
7002080960	.00000730	.067	.00004321	.051	.00003897	.062
7002081020	.00016712	.041	.00069380	.032	.00215895	.029
7002081080	.00625178	.030	.01018748	.031	.01455940	.033
7002081140	.01914166	.034	.02135463	.034	.02412051	.035
7002081200	.02096422	.034	.01545437	.033	.01151077	.032
7002081260	.00749692	.030	.00736647	.030	.00653453	.030
7002081320	.00473879	.029	.00192039	.029	.00094004	.031
7002081380	.00031635	.037	.00027701	.037	.00007398	.047
7002081440	.00008710	.046	.00000961	.045		
8002081020	.00000738	.061	.00002511	.050	.00016876	.036
8002081080	.00066400	.030	.00142492	.029	.00276037	.029
8002081140	.00558943	.031	.00834480	.033	.01101024	.035
8002081200	.01303904	.036	.01503174	.036	.01455300	.036
8002081260	.01360580	.036	.01374096	.036	.01013525	.034
8002081320	.00648677	.032	.00423037	.030	.00271097	.029
8002081380	.00179790	.029	.00110872	.029	.00006005	.043
8002081440	.00019521	.055	.00015579	.037	.00001349	.055
9002081500	.00000551	.063				
9002081100	.00000127	.078	.00000395	.066	.00008151	.041
9002081130	.00063658	.030	.00091389	.029	.00083625	.029
9002081160	.00075852	.030	.00055937	.031	.00053128	.031
9002081190	.00040314	.032	.00088804	.029	.00063747	.030
9002081220	.00045940	.030	.00064489	.030	.00090888	.031

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9002081250	.00001885	.030	.00047326	.031	.00016339	.036
9002081280	.00027753	.033	.00011973	.038	.00022486	.034
9002081310	.00005774	.043	.00014916	.037	.00011973	.038
9002081340	.00009030	.040	.00009127	.040	.00008509	.041
9002081370	.00002444	.050	.00002928	.049	.00000767	.060
9003080800	.00000887	.066	.00002012	.058	.00057288	.033
9003080860	.00103891	.031	.00426777	.029	.00551045	.029
9003080920	.01164362	.032	.01571365	.033	.01972854	.034
9003080980	.03262103	.037	.02689406	.036	.03980190	.038
9003081040	.04417345	.039	.04132651	.038	.04432075	.039
9003081100	.04527494	.039	.04898402	.040	.04476093	.039
9003081160	.04128277	.038	.03559440	.037	.03360972	.037
9003081220	.01680058	.033	.01346327	.032	.01020640	.031
9003081280	.00919357	.031	.01032390	.031	.00849664	.030
9003081340	.00470906	.029	.00173569	.029	.00410423	.029
9003081400	.00278808	.029	.00075767	.032	.00007607	.047
9003081460	.00003032	.054	.00001490	.061	.00002377	.057
9003080840	.00000842	.059	.00001103	.057	.00004634	.045
9003080900	.00132427	.029	.00179313	.029	.00163153	.029
9003080960	.00218447	.029	.01456305	.036	.00972256	.034
9003081020	.00696489	.032	.00802298	.033	.00907198	.034
9003081080	.00308976	.030	.00592493	.032	.01828574	.038
9003081140	.02291493	.039	.02069928	.038	.01378506	.036
9003081200	.01584184	.037	.00876933	.033	.01045130	.034
9003081260	.01211978	.035	.00632428	.032	.01017682	.034
9003081320	.000476584	.031	.00221416	.029	.00097848	.029
9003081380	.00044097	.048	.00022985	.034	.00002302	.081
9003081440	.00003099	.048	.00000358	.067	.00004530	.045
9003081100	.00097848	.029	.00021428	.035	.00038013	.032
9003081130	.00053778	.031	.00022210	.035	.00037007	.032
9003081160	.00054881	.031	.00057586	.030	.00035584	.032
9003081190	.00023827	.034	.00047714	.031	.00020362	.035
9003081220	.00039190	.032	.00029199	.033	.00020362	.035
9003081250	.00018954	.035	.00015452	.037	.00024103	.034

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9003081280	.00006869	.042	.00008509	.041	.00006698	.042
9003081310	.000004701	.045	.00001460	.055	.00001207	.056
1004080950	.00003718	.047	.00006236	.043	.00046425	.031
1004081010	.000086129	.029	.00179363	.029	.00276282	.029
1004081070	.00265270	.029	.00356652	.030	.00309601	.030
1004081130	.00155933	.029	.00105232	.029	.00039376	.032
1004081190	.00007525	.041	.00003785	.047	.00000700	.061
1004081250	.00000358	.067				
2004080960	.00000700	.061	.00001244	.056	.00002362	.051
2004080990	.00001810	.053	.00004023	.046	.00010654	.039
2004081020	.000018135	.036	.00020243	.035	.00031553	.033
2004081050	.00023387	.034	.00080071	.030	.00022702	.024
2004081080	.00012331	.038	.00024162	.034	.00077911	.030
2004081110	.00057645	.030	.00060372	.030	.00044897	.031
2004081140	.00022173	.035	.00039555	.032	.00014089	.037
2004081170	.00012197	.038	.00010297	.039	.00006340	.043
2004081200	.00005804	.043	.00007264	.042		
7005081100	.00003897	.052	.00037961	.035	.00185929	.029
7005081160	.00854775	.030	.01354463	.032	.01843348	.034
7005081220	.01287118	.032	.01244858	.032	.00735387	.050
7005081280	.00467934	.029	.00323233	.029	.00330165	.029
7005081340	.00160754	.030	.00086635	.031	.00100017	.031
7005081400	.00058472	.033	.00096738	.031	.00237599	.029
7005081460	.00424415	.029	.00067405	.033	.00003174	.054
8005081100	.00002164	.051	.00000507	.064	.00004128	.046
8005081160	.00028737	.033	.00096977	.029	.00349656	.030
8005081220	.00554092	.031	.00608772	.032	.00352470	.030
8005081280	.00308752	.030	.00110529	.029	.00070080	.030
8005081340	.00028335	.033	.00026174	.034	.00024043	.034
8005081400	.00134476	.029	.00075653	.030	.00043333	.031
8005081460	.00008509	.041				
9005081150	.00001103	.057	.00003204	.048	.00008933	.040
9005081190	.00019208	.035	.00039645	.032	.00052556	.031
9005081210	.00076481	.030	.00065930	.030	.00061944	.030

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9005081240	.00049628	.031	.00059992	.030	.00051752	.031
9005081270	.00041187	.032	.00016846	.036	.00032715	.033
9005081300	.00015900	.036	.00018299	.036	.00013672	.037
9005081330	.00009522	.040	.00010133	.039	.00008084	.041
9005081360	.00006936	.042	.00005469	.044	.00000738	.061
9005081390	.00000551	.063				
1006081390	.00000700	.061	.00004157	.046	.00013478	.037
1006081450	.00040099	.032	.00070848	.030	.00128612	.029
1006081510	.00168614	.029	.00194281	.029	.00199944	.029
1006081570	.00169426	.029	.00097677	.029	.00191346	.029
1006081630	.00178635	.029	.00227295	.029	.00269085	.029
1006081690	.00344560	.030	.00394069	.030		
2006081410	.00000358	.067	.00005201	.044	.00001319	.056
2006081440	.00000663	.062	.00001602	.054	.00002339	.051
2006081470	.00001103	.057	.00004731	.045	.00000507	.064
2006081500	.00000767	.060	.00001706	.053	.00001103	.057
2006081530	.00001319	.056	.00001498	.054	.00000569	.044
2006081560	.00005640	.044	.00001989	.032	.00000640	.043
2006081590	.00007331	.042	.00006169	.043	.00002027	.052
2006081620	.0002995	.049	.00004224	.046	.00003412	.047
2006081650	.0002615	.050	.00007033	.042	.00008899	.042
2006081680	.00005774	.043	.00006735	.042	.00006005	.043
2006081710	.00001349	.055				
7007081040	.00037648	.036	.00145622	.030	.00288755	.029
7007081120	.00260234	.029	.00458166	.029	.00864677	.030
7007081180	.00648759	.030	.00429146	.029	.00358529	.029
7007081240	.00139251	.030	.00196256	.029	.00184990	.029
7007081300	.00202462	.029	.00132389	.030	.00196315	.029
7007081360	.00245541	.029	.00308439	.029	.00166014	.029
7007081420	.00017442	.040	.00009668	.045	.00010885	.044
7007081480	.00001036	.064				
8007081080	.00000767	.060	.00010848	.039	.00020050	.035
8007081140	.00035644	.032	.00105403	.029	.00109091	.029
8007081200	.00175916	.029	.00166304	.029	.00043780	.031

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8007081260	.00081003	.030	•.00083134	.029	.00085287	.029
9007081320	•.00062093	.030	•.00038162	.032	•.00022829	.034
8007081380	.00011556	.038	.00005670	.044		
9007081140	.00000663	.062	.00000589	.063	.00003785	.047
9007081170	.00034764	.052	.00033453	.032	•.00026487	.034
9007081200	.00037342	.032	.00047117	.031	.00061914	.030
9007081230	.00095420	.029	.00071846	.030	.00088140	.029
9007081260	.0067636	.030	.00076532	.030	.00068024	.030
9007081290	.00053748	.031	.00043206	.031	.00043146	.031
9007081320	.00038662	.032	.00046663	.031	.00038616	.032
9007081350	.00037044	.032	.00018954	.035	.00007786	.041
9007081380	.00005640	.044	•.00002632	.050	.00000991	.058
9007081410	•.00001103	.057				
1008081110	.00008769	.040	.00027932	.033	.00045314	.031
1006081170	.00082172	.029	.00037908	.029	.00118181	.029
1008081230	.00204295	.029	.00353590	.030	.00397839	.030
1008081290	.00349440	.030	.00278309	.029	.00263013	.023
1008081350	.00249930	.029	.00256740	.029	.00146799	.029
1008081410	.00106558	.029	.00027999	.033	.00011072	.039
1008081470	.00002615	.050	.00000916	.059		
2008081160	.00000551	.063	.00001065	.057	.00005372	.044
2008081190	.00005506	.044	.00015423	.037	.00020832	.035
2008081220	.00039890	.032	.00045612	.031	.00090577	.029
2008081250	.00133485	.029	.00113107	.029	.00106990	.029
2008081280	.00127845	.029	.00156581	.029	.00126677	.029
2008081310	.00113167	.029	.00096746	.029	•.00135787	.029
2008081340	•.00117466	.029	.00095129	.029	•.00069700	.030
2008081370	•.00041217	.032	.00009716	.040	.00004634	.045
2008081400	.00004195	.046	.00004090	.046	.00001132	.057
2008081430	.00000738	.061	.00000700	.061	.00010133	.039
2008081460	.00001810	.053				
1008081430	.00000767	.060	.00001460	.055	.00002272	.051
1008081490	.00017226	.036	.00040188	.032	.00135817	.029
1009081550	.00188447	.029	.00116639	.029	.00112996	.029

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1009081610	.00118896	.029	.00129439	.029	.00069112	.030
1009081670	.00030391	.033	.00019051	.035	.00017732	.036
1009081730	.00004224	.046	.00002168	.051		
2009081500	.00001885	.052	.00005975	.053	.00005201	.044
2009081530	.00017285	.036	.00032991	.033	.00034027	.032
2009081560	.00032745	.033	.00051275	.031	.00052735	.031
2009081590	.00091831	.029	.00120327	.029	.00134937	.029
2009081620	.00168644	.029	.00123620	.029	.00110269	.029
2009081650	.00105634	.029	.00085816	.029	.00087589	.029
2009081680	.00067018	.030	.00064634	.030	.00024162	.034
2009081710	.00003032	.048				
7010081060	.00008158	.046	.00070244	.032	.00120588	.030
7010081120	.00243053	.029	.00465915	.029	.00853203	.030
7010081180	.00727214	.030	.00672907	.030	.00523359	.029
7010081240	.00775196	.030	.00753522	.030	.00497729	.029
7010081300	.00136985	.030	.00086144	.031	.00110775	.031
7010081360	.00341572	.029	.00903197	.031	.01285091	.032
7010081420	.00790335	.030	.00152335	.030	.00014521	.042
8010081080	.00000663	.042	.00004128	.046	.00048012	.031
8010081140	.00041462	.032	.00081703	.029	.00033386	.032
8010081200	.00241712	.029	.00130035	.029	.00093885	.029
8010081260	.00100248	.029	.00165626	.029	.00098191	.029
8010081320	.00052199	.031	.00044927	.031	.00044048	.031
8010081380	.00043117	.031	.00013138	.038	.00004396	.045
9010081090	.00002168	.051	.00005201	.044	.00013225	.038
9010081120	.00020772	.035	.00022702	.034	.00028826	.033
9010081150	.00040010	.032	.00073835	.030	.00108257	.029
9010081180	.00158131	.029	.00199921	.029	.00182308	.029
9010081210	.00220172	.029	.00243805	.029	.00207603	.029
9010081240	.00120558	.029	.00109434	.029	.00120185	.029
9010081270	.00108168	.029	.00080712	.030	.00067227	.030
9010081300	.00350232	.031	.00036828	.032	.00012875	.038
9010081330	.00005938	.043	.00002339	.051	.00001103	.057
9010081360	.00001639	.054	.00000805	.060		

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1011081110	.00000700	.061	.00028275	.033	.00038408	.032
1011081170	.00100501	.029	.00132285	.029	.00095882	.029
1011081230	.00104919	.029	.00104800	.029	.00137635	.029
1011081290	.00138290	.029	.00128329	.029	.00104800	.029
1011081350	.00070199	.030	.00050053	.031	.00028335	.033
1011081410	.00005201	.044	.00001848	.053	.00000469	.045
1011081470	.00000626	.062	.00000358	.087		
2011081130	.00000663	.042	.00000738	.061	.00001922	.022
2011081160	.00003412	.047	.00004195	.046	.00011042	.039
2011081190	.00012264	.038	.00012446	.037	.00017568	.036
2011081220	.00033788	.032	.00013418	.038	.00062384	.030
2011081250	.00053689	.031	.00052080	.031	.00040248	.032
2011081280	.00033937	.032	.00049058	.031	.00044085	.031
2011081310	.00014052	.037	.00035673	.032	.00069819	.030
2011081370	.00014529	.037	.00041244	.032	.00027224	.033
2011081340	.00004908	.030	.00009976	.039	.00008968	.040
2011081400	.00005201	.044	.00001810	.053	.00002272	.051
2011081430	.00000469	.065	.00000805	.060	.00045612	.031
1012081370	.00004731	.045	.00034697	.032	.00088170	.029
1012081430	.00029318	.033	.00037588	.032	.00038132	.032
1012081490	.00098683	.029	.00077702	.030	.00031069	.033
1012081550	.00022300	.035	.00024445	.034		
1012081610	.00047117	.031	.00002168	.051	.00004224	.046
2012081390	.00002511	.050	.00005707	.043	.00010073	.039
2012081420	.00004999	.044	.00016719	.036	.00010654	.039
2012081450	.00015832	.036	.00011109	.039	.00013642	.037
2012081480	.00015356	.037	.00006442	.041	.00005335	.044
2012081510	.00010528	.039	.00008442	.044	.00001922	.032
2012081540	.00011943	.038	.00005171	.044	.00015788	.041
7013081060	.00000730	.067	.00000730	.067	.00184461	.029
7013081120	.00108548	.031	.00093944	.031	.00275411	.029
7013081180	.00247978	.029	.00321425	.029	.00273503	.029
7013081240	.00258788	.029	.00262313	.029	.00248611	.029
7013081300	.00289157	.029	.00326450	.029		

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7013081360	.00238232	.029	.00208890	.029	.00150554	.030
7013081420	.00146516	.030	.00060461	.033	.00020869	.039
7013081480	.00082891	.055	.0002451	.056	.00000805	.066
8013081060	.00000663	.062	.00000991	.058	.00001132	.057
8013081120	.00000507	.064	.00003412	.047	.00017129	.036
8013081180	.00029840	.033	.00003295	.031	.00056043	.030
8013081240	.00079051	.030	.00011343	.029	.00094086	.029
8013081300	.00051722	.031	.00001185	.031	.00046365	.031
8013081360	.00035889	.032	.00005280	.034	.00012971	.038
8013081420	.00014313	.037	.00003546	.047	.00001565	.054
8013081480	.00001244	.056	.00000805	.060		
9013081200	.00003032	.048	.00027428	.042	.00019394	.035
9013081230	.00028521	.033	.00027627	.033	.00035584	.032
9013081260	.00041336	.032	.00034243	.032	.00032075	.033
9013081290	.00029229	.033	.00021368	.035	.00020802	.035
9013081320	.00015393	.037	.00010625	.039	.00006169	.043
9013081350	.00004329	.046	.00001386	.055	.00003718	.047
7014081500	.00002161	.057	.00008017	.046	.00184342	.029
7014081560	.00343055	.029	.00788420	.030	.01054533	.031
7014081620	.01369186	.032	.01340471	.032	.01194939	.032
7014081680	.01087673	.031	.00950396	.031	.00702508	.030
7014081740	.00274777	.029	.00151150	.030	.00210591	.029
7014081800	.00503927	.029				
8014081520	.00001781	.053	.00014625	.037	.00078231	.030
8014081580	.00262491	.029	.00355758	.030	.00494927	.031
8014081640	.00262216	.029	.00235185	.029	.00097036	.029
8014081700	.00182591	.029	.00072725	.030	.00058830	.030
8014081760	.00015900	.036	.00040732	.032	.00006899	.042
9014081450	.00001319	.056	.00003137	.048	.00007197	.042
9014081480	.00003681	.047	.00004437	.043	.00005133	.044
9014081510	.00010364	.039	.00009648	.040	.00012851	.038
9014081540	.00017069	.036	.00022583	.034	.00040069	.032
9014081570	.00060730	.030	.00063151	.030	.00043362	.031
9014081600	.00022955	.034	.00013225	.038	.00023358	.034

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9014081630	.00014693	.037	.00009455	.040	.00010394	.039
9014081640	.00010431	.039	.00005871	.043	.00003070	.048
9014081690	.00000991	.058	.00000916	.059		
1015081330	.00002235	.051	.00009716	.040	.00037707	.032
1015081390	.00069372	.030	.00114575	.029	.00131518	.029
1015081450	.00128753	.029	.00093274	.029	.00076422	.030
1015081510	.00032440	.033	.00006437	.043	.00002272	.051
2015081310	.00000507	.064	.00001565	.054	.00003345	.048
2015081340	.00009097	.040	.00016328	.036	.00003568	.032
2015081370	.00036463	.032	.00058480	.030	.00075243	.030
2015081400	.00082453	.029	.00085086	.029	.00092402	.029
2015081430	.00101745	.029	.00033997	.032	.00042848	.031
2015081460	.00029378	.033	.00021867	.035	.00014216	.037
2015081490	.00005439	.044	.00005908	.043	.00007254	.042
2015081520	.00000738	.061	.00000551	.063	.00000358	.067
1016081390	.00001527	.054	.00027500	.033	.00109836	.009
1016081450	.00363715	.030	.00734590	.033	.00932321	.014
1016081510	.00937358	.034	.00759825	.033	.00214867	.029
1016081570	.00023045	.034	.00008005	.060		
2016081380	.00001865	.052	.00003919	.046	.00014849	.037
2016081410	.00040069	.032	.00104308	.029	.00166699	.029
2016081440	.00235908	.029	.00276774	.029	.00287436	.029
2016081470	.00166588	.029	.00089154	.029	.00028491	.033
2016081500	.00060035	.043	.00001103	.057		
7017081160	.00000730	.067	.00001036	.064	.00002667	.056
7017081220	.00006288	.048	.00061274	.033	.00257693	.029
7017081280	.00275443	.029	.00219919	.029	.00522636	.029
7017081340	.00523359	.029	.00707783	.030	.00811242	.030
7017081400	.00840679	.030	.00679955	.030	.00762284	.030
7017081460	.00257462	.029	.00139468	.030	.00015452	.041
7017081520	.00006080	.049				
8017080600	.00000246	.071	.00000246	.071	.00000201	.073
8017080880	.00000551	.063	.00000082	.061	.00000164	.075
8017080940	.00000246	.071	.00000201	.073	.00000201	.073

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
3017081000	..00000201	.073	..00000201	.073	..00000246	.071
8017081040	..00000283	.070	..00001460	.055	..00000358	.067
8017081120	..00001639	.054	..00000432	.066	..00000469	.065
8017081180	..00000127	.078	..00000738	.061	..00000589	.063
8017081240	..00000879	.059	..00003956	.046	..00014466	.036
8017081300	..00096776	.029	..00142798	.029	..00188105	.029
8017081360	..00235543	.029	..00282533	.029	..00259489	.029
8017081420	..00119388	.023	..00029013	.033	..00006236	.043
8017081480	..00001386	.055	..00000467	.065	..00001244	.056
8017081210	..00001132	.057	..00015736	.037	..00023730	.034
9017081240	..00002481	.050	..00030667	.033	..00036433	.032
9017081270	..00029929	.033	..00017323	.036	..00017049	.036
9017081300	..00019647	.035	..00006765	.042	..00004157	.046
9017081330	..00010036	.039	..00003889	.046	..00001669	.053
9017081360	..00001423	.055	..00000469	.065	..00103652	.031
9017081390	..0000058	.061	..00012167	.043	..03193952	.037
7018081380	..00002086	.058	..01413152	.032	..C4842900	.039
7018081440	..00628389	.030	..06452151	.041	..00252604	.029
7018081500	..04923210	.040	..01018532	.031	..00001267	.062
7018081560	..02564281	.035	..00007674	.047	..01185164	.035
7018081620	..00055037	.033	..00172719	.029	..00472285	.031
8018081420	..00004396	.045	..001932040	.038	..00003479	.047
8018081480	..02618529	.040	..00048012	.031	..00010818	.039
8018081540	..00284120	.029	..00003375	.048	..00043720	.031
9018081100	..00000663	.062	..00031315	.033	..00101052	.029
9018081130	..00016876	.036	..00085436	.029	..00119358	.029
9018081160	..00049449	.031	..00091769	.029	..00190653	.029
9018081190	..00145182	.029	..00219367	.029	..00105374	.029
9018081220	..00176728	.029	..00139654	.029	..00046067	.031
9018081250	..00174202	.029	..00031248	.033	..00010945	.039
9018081280	..00049449	.031	..00024013	.034	..00003956	.046
9018081310	..00032745	.033	..00006169	.043		
9018081340	..00008382	.041	..00001565	.054		
9018081370	..00004195	.044				

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1019080870	.00069551	.030	.00068255	.030	.00024132	.034
1019080930	.00036620	.032	.00040285	.032	.00054285	.031
1019080990	.00053570	.031	.00017732	.036	.00061825	.030
1019081050	.00012428	.038	.00034575	.033	.00052527	.031
1019081110	.00041680	.032	.00039501	.032	.00062920	.030
1019081170	.00085607	.029	.00111707	.029	.00081152	.029
1019081230	.00123277	.029	.00213973	.029	.00134848	.029
1019081290	.00154346	.029	.00195146	.029	.00135787	.029
1019081350	.00132143	.029	.00121787	.029	.00111416	.029
1019081410	.00178978	.029	.00087090	.029	.00107221	.029
1019081470	.00040583	.032	.00019580	.035	.00010781	.039
1019081530	.000007659	.041	.00004463	.045	.00003099	.048
1019081590	.00001349	.055				
2019080850	.00014313	.037	.00009425	.040	.00031799	.033
2019080880	.00035554	.032	.00031315	.033	.00038408	.032
2019080910	.00035763	.032	.00038803	.032	.00045523	.031
2019080940	.00045948	.031	.00050300	.031	.00047088	.031
2019080970	.00034608	.032	.00041187	.032	.00039101	.032
2019081000	.00037044	.032	.00026517	.034	.00018045	.036
2019081030	.00030361	.033	.00027470	.033	.00023514	.034
2019081060	.00031248	.033	.00027440	.033	.00024416	.034
2019081090	.00008576	.041	.00014402	.037	.00012748	.038
2019081120	.00019550	.035	.00004567	.045	.00006899	.042
2019081150	.00019208	.035	.00021331	.035	.00021800	.035
2019081180	.00015773	.036	.00031188	.033	.00043087	.031
2019081210	.00050738	.031	.00048355	.031	.00049122	.031
2019081240	.00021331	.035	.00028826	.033	.00017129	.036
2019081270	.000004970	.045	.00017762	.036	.00029474	.033
2019081300	.00029445	.033	.00029445	.033	.00037827	.032
2019081330	.00059098	.030	.00072546	.030	.00064805	.030
2019081360	.00065871	.030	.00075392	.030	.00057943	.030
2019081390	.00043360	.030	.00012971	.038	.00030331	.033
2019081420	.00032350	.033	.00023687	.034	.00030145	.033
2019081450	.00019081	.035	.00005541	.043	.00001989	.032

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2019081480	-.00001132	.057	-.00001885	.052	-.00005536	.044
2019081510	-.00006035	.043	-.00006571	.042	-.00002198	.051
2019081540	-.00001498	.054	-.00001706	.053	-.00001802	.054
2019081570	-.00000738	.061	-.00000916	.059	-.00000551	.063
2019081610	-.00000283	.070	-.00000395	.066	-.00000246	.071
2019081640	-.00000879	.059	-.00001319	.056	-.00000395	.066
1020080870	-.00199668	.029	-.00184387	.029	-.00048943	.031
1020080930	-.00137888	.029	-.00144534	.029	-.00134364	.029
1020080990	-.00147305	.029	-.00152372	.029	-.00136130	.029
1020081050	-.00102781	.029	-.00148296	.029	-.00186957	.029
1020081110	-.00308260	.030	-.00407934	.030	-.00443667	.031
1020081170	-.00332989	.030	-.00161655	.029	-.00085816	.029
1020081230	-.00042640	.031	-.00019617	.035	-.00004463	.043
1020081290	-.0000589	.043	-.0000738	.041		
2020080850	-.00001669	.053	-.00002690	.049	-.00003375	.048
2020080880	-.00005268	.044	-.00004798	.045	-.00018135	.026
2020080910	-.00027567	.033	-.00036709	.032	-.00045883	.031
2020080940	-.00062284	.029	-.00073455	.030	-.00037223	.032
2020080970	-.00089504	.029	-.00081964	.029	-.00063658	.030
2020081000	-.00060789	.030	-.00045811	.030	-.00057973	.030
2020081030	-.00050083	.031	-.00042818	.031	-.00040554	.032
2020081060	-.00056431	.030	-.00046544	.031	-.00040792	.032
2020081090	-.00035003	.032	-.00058182	.030	-.00040039	.032
2020081120	-.00031404	.033	-.00024043	.034	-.00011913	.038
2020081150	-.00020303	.035	-.00008114	.041	-.00004195	.046
2020081180	-.00001781	.053				
7021081140	-.00001416	.061	-.00001341	.062	-.00001714	.059
7021081200	-.00002302	.057	-.00003174	.054	-.00005364	.033
7021081260	-.00155896	.030	-.00193559	.029	-.00145741	.030
7021081320	-.00240847	.029	-.00176869	.029	-.00124909	.030
7021081380	-.00269584	.029	-.00269595	.029	-.00490680	.029
7021081440	-.00429988	.029	-.00301443	.029	-.00159211	.030
7021081500	-.00082360	.046	-.00001416	.061		
8021080600	-.00000283	.070	-.00000395	.066	-.00000082	.081

TABLE 6 (contd)

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I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8021080880	.00000082	.081	.00000283	.070	.00000037	.088
8021080940	.00000164	.075	.00000082	.081	.00000358	.067
8021081000	.00000164	.075	.00000127	.078	.00000246	.071
8021081060	.00000127	.078	.00000103	.057	.00000201	.075
8021081120	.000000916	.059	.00000082	.081	.000000127	.078
8021081180	.00000469	.065	.00001527	.054	.00002235	.051
8021081300	.00010818	.039	.00020802	.035	.00029348	.033
8021081360	.00028424	.033	.00036128	.032	.00103474	.029
8021081420	.00110149	.029	.00029810	.033	.00012904	.038
8021081480	.00000916	.059	.00000626	.062		
9021081280	.00000954	.058	.00003755	.047	.00004500	.045
9021081310	.00007786	.041	.00009879	.040	.00015609	.037
9021081340	.00016816	.036	.00007987	.041	.00017919	.036
9021081370	.00010751	.059	.00002302	.051	.00002652	.050
9021081400	.00001423	.055	.00000507	.064	.00000626	.062
9021081430	.00001519	.056	.00000663	.062		
7022081380	.00000805	.066	.00005938	.049	.00086330	.031
7022081440	.00182346	.029	.00346415	.029	.00428811	.029
7022081500	.00510469	.029	.0021379	.029	.00872783	.031
7022081560	.00937678	.031	.00543922	.029	.00244729	.029
7022081620	.00090837	.031	.00023417	.038	.00004746	.051
8022081420	.00009291	.040	.00094317	.029	.00173979	.029
8022081480	.00141069	.029	.00147700	.029	.00148214	.029
8022081540	.00320420	.030	.00178104	.029	.00070050	.030
8022081600	.00018865	.035	.00000469	.065		
9022081400	.00007130	.042	.00003032	.048	.00004835	.045
9022081430	.00008181	.041	.00009686	.040	.00006936	.042
9022081460	.00006802	.042	.00004157	.046	.00003345	.048
9022081490	.00001132	.057	.00001281	.056	.00001743	.053
9022081520	.00002168	.051	.00000320	.068		
1023081290	.00000469	.065	.00008278	.041	.00022829	.034
1023081350	.00043236	.031	.00171848	.029	.00208028	.029
1023081410	.00272959	.029	.00254810	.029	.00218451	.029
1023081470	.00059366	.030	.00031985	.033	.00011109	.039

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1023081530	.00000663	.062	.00000954	.058	.00003137	.048
2023081300	.00000507	.064	.00000583	.032	.00080012	.030
2023081330	.00015939	.036	.00164025	.029	.00220172	.029
2023081360	.00113226	.029	.00055656	.030	.00053778	.031
2023081390	.00180267	.029	.00029899	.033	.00010587	.039
2023081420	.00050798	.031	.00001602	.054		
2023081450	.00006303	.043	.00014255	.042	.00029191	.037
7024080740	.00005871	.049	.00078375	.032	.00279903	.029
7024080800	.00044495	.035	.00498451	.029	.00536293	.029
7024080860	.00305399	.029	.00150978	.033	.01628727	.033
7024080920	.00986524	.031	.01827061	.034	.02123721	.034
7024080980	.01935899	.034	.01849264	.034	.01935117	.034
7024081040	.02261870	.035	.01295485	.032	.01084715	.031
7024081100	.01399954	.032	.00671364	.030	.00522077	.029
7024081160	.00792846	.030	.00280708	.029	.00157498	.030
7024081220	.00402287	.029	.00034966	.036	.00007607	.047
7024081280	.00100136	.031	.00009120	.045	.00002302	.057
7024081340	.00010483	.044	.00001527	.054	.00003755	.047
8024080760	.00000358	.067	.00027008	.034	.00115290	.029
8024080820	.00008672	.040	.00256985	.029	.00455149	.031
8024080880	.00141919	.029	.00443360	.031	.00860356	.033
8024080940	.00337146	.030	.00340782	.030	.00411645	.030
8024081000	.00427224	.030	.00828847	.033	.00472419	.031
8024081060	.00837408	.033	.00234380	.029	.00411861	.030
8024081120	.00267602	.029	.00222333	.029	.00201173	.029
8024081180	.00243396	.029	.00100650	.029	.00154182	.029
8024081240	.00149146	.029	.00028364	.033	.00023700	.034
8024081300	.00196151	.029	.00012711	.038	.00002027	.052
8024081360	.00005133	.044				
8024081420	.00000954	.058	.00031739	.033	.00034884	.032
9024081100	.00054255	.031	.00034764	.032	.00016592	.036
9024081130	.00044660	.031	.00009388	.040	.00016466	.036
9024081160	.00028305	.033	.00008017	.041	.00003919	.046
9024081190	.00014946	.037				

TABLE 6 (contd)

I.D.	DOSAGE GM SEC./CU.M	S.E.	DOSAGE GM SEC./CU.M	S.E.	DOSAGE GM SEC./CU.M	S.E.
9024081220	.00008576	.041	.00002198	.051	.00002511	.050
9024081250	.00003070	.048	.00004157	.046	.00002719	.049
9024081280	.00003201	.044	.00003852	.047	.00003822	.047
9024081310	.00002407	.050	.00005238	.044	.00000991	.058
9024081340	.00031423	.055				
1025081190	.00000507	.064	.00000432	.066	.00003412	.047
1025081250	.00003099	.048	.00012875	.038	.00049993	.031
1025081310	.00047058	.031	.00112079	.029	.00123993	.029
1025081370	.00142604	.029	.00195988	.029	.00179395	.029
1025081430	.00183575	.029	.00113800	.029	.00070140	.030
1025081490	.00031188	.033	.00000991	.058	.00001103	.057
2025081270	.00000589	.063	.00003614	.047	.00007130	.042
2025081300	.00007823	.041	.00014625	.037	.00025220	.034
2025081330	.00092059	.029	.00134423	.029	.00146563	.029
2025081360	.00167064	.029	.00154376	.029	.00193194	.029
2025081390	.00081323	.029	.00061736	.030	.00027567	.033
2025081420	.00017159	.036	.00031553	.033	.00010170	.039
2025081450	.00008278	.041	.00004433	.045	.00000507	.064
2025081480	.00000432	.066	.00000395	.066		
7026080820	.00002086	.058	.00041269	.035	.00027642	.037
7026080980	.00046886	.034	.00134058	.030	.00115536	.030
7026080940	.00069320	.032	.00378743	.029	.00473149	.029
7026081000	.00630654	.030	.00518724	.029	.00496268	.029
7026081060	.00570111	.029	.00646166	.030	.00590414	.029
7026081120	.00631645	.030	.00477970	.029	.00299148	.029
7026081180	.00286400	.029	.00131130	.030	.00081740	.032
7026081240	.00047326	.034	.00036374	.036	.00016518	.041
7026081300	.00002891	.055	.00006147	.048	.00001192	.043
8026080820	.00003375	.048	.00004597	.045	.00013702	.037
8026080880	.00019178	.035	.00021175	.035	.00036284	.032
8026080940	.00061646	.030	.00109404	.029	.00198416	.029
8026081000	.00280231	.029	.00403143	.030	.00473917	.031
8026081060	.00521220	.031	.00620529	.032	.00471376	.031
8026081120	.00558652	.031	.00551812	.031	.00379875	.030

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8026081180	.00296742	.030	.00424944	.030	.00272661	.029
8026081240	.00172943	.029	.00104740	.029	.00130437	.029
8026081300	.00036073	.030	.00022084	.035	.00013266	.037
8026081360	.00001602	.054	.00000700	.061		
9026081100	.00055119	.051	.00106499	.029	.00129469	.029
9026081130	.00082552	.029	.00085257	.029	.00027537	.033
9026081160	.00030637	.033	.00020506	.035	.00023268	.034
9026081190	.00009648	.040	.00015549	.037	.00013605	.037
9026081220	.00009164	.040	.00006899	.042	.00004731	.045
9026081250	.00007331	.042	.00009224	.040	.00010237	.039
9026081280	.00006169	.043	.00001460	.055	.00001319	.056
9026081310	.00001028	.058				
1027081190	.00001103	.057	.00000469	.065	.00001460	.055
1027081250	.00005104	.044	.00006005	.043	.00010297	.059
1027081310	.00017442	.036	.00031188	.033	.00054404	.031
1027081370	.00061944	.030	.00065222	.030	.00104800	.029
1027081430	.00059962	.030	.00278800	.029	.00270240	.029
1027081490	.00231951	.029	.00291623	.029	.00565715	.031
1027081550	.00563070	.031	.00487842	.031	.00199281	.029
1027081610	.00195511	.029	.00191770	.029	.00050589	.031
1027081670	.00020929	.035	.00003271	.048	.00000879	.059
2027081230	.00000842	.059	.00000432	.066	.00000767	.060
2027081260	.00001639	.054	.00002719	.049	.00005871	.043
2027081290	.00007264	.042	.00009485	.040	.00007391	.042
2027081320	.00020713	.035	.00031956	.033	.000061974	.030
2027081350	.00071399	.030	.00080302	.030	.00102811	.029
2027081380	.00122674	.029	.00131607	.029	.00068849	.030
2027081410	.00072636	.030	.00093604	.029	.00110524	.029
2027081440	.00032566	.033	.00084996	.029	.00098802	.029
2027081470	.00102930	.029	.00091620	.029	.00074714	.030
2027081500	.00056301	.030	.00022396	.034	.00015962	.036
2027081530	.00003479	.047	.00002272	.051	.00003584	.047
2027081560	.00001207	.054	.00000589	.063	.00001349	.055
7028080740	.00000961	.065	.00000017	.046	.00022702	.039

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7028080800	.00104919	.031	.00183873	.029	.00219166	.029
7028080860	.00329420	.029	.00741690	.030	.00826351	.030
7028080920	.00865333	.030	.00992358	.031	.01032658	.031
7028080980	.00990681	.031	.00742070	.030	.00599951	.030
7028081040	.00453390	.029	.00217587	.029	.00146754	.030
7028081100	.00197664	.029	.00096500	.031	.00046261	.034
7028081160	.00004746	.051				
8028080760	.00000700	.061	.00008869	.042	.00014313	.037
8028080820	.00029534	.033	.00044622	.031	.00106759	.029
8028080880	.00137605	.029	.00253513	.029	.00392802	.030
8028080940	.00448965	.031	.00565164	.031	.00590913	.032
8028081000	.00506863	.031	.00461198	.031	.00399914	.030
8028081060	.00188470	.029	.00154912	.029	.00032201	.033
8028081120	.00007825	.041	.00002272	.051	.00001319	.054
9028081100	.00053659	.031	.00020616	.035	.00007033	.042
9028081130	.00002757	.049	.00000805	.060		
7029080960	.00005871	.049	.00049464	.034	.00136271	.030
7029081020	.00177287	.029	.00242181	.029	.00311181	.029
7029081080	.00362054	.029	.00437312	.029	.00662215	.030
7029081140	.00678964	.030	.00672080	.029	.00551045	.029
7029081200	.00450529	.029	.00279844	.029	.00231676	.029
7029081260	.00243857	.029	.00219047	.029	.00105165	.031
7029081320	.00065118	.033	.00080282	.031	.00051036	.034
7029081380	.00003748	.063	.00000730	.067		
8029080960	.00001132	.057	.00003544	.047	.00015832	.036
8029081020	.00023760	.034	.00079051	.030	.00106417	.029
8029081080	.00131749	.029	.00151493	.029	.00188723	.029
8029081140	.00278994	.029	.00211865	.029	.00228018	.029
8029081200	.00152685	.029	.00160500	.029	.00097208	.029
8029081260	.00048526	.031	.00044592	.031	.00014625	.037
8029081320	.00002481	.050	.00000551	.063		
9029081070	.00002168	.051	.00008899	.042	.00022829	.034
9029081100	.00043146	.031	.00061885	.030	.00086509	.029
9029081130	.00099175	.029	.00080071	.030	.00079133	.030

TABLE 2 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9029081160	.00071408	.030	.00056252	.030	.00028208	.033
9029081190	.00016436	.036	.00031002	.033	.00027567	.033
9029081220	.00018075	.036	.00018075	.041	.00002898	.049
9029081250	.00003032	.048	.00002719	.049	.00003375	.048
9029081280	.00001319	.056	.00001244	.056		
1030080870	.00000738	.061	.00000469	.065	.00001565	.054
1030080930	.00001028	.058	.00006273	.043	.00048101	.031
1030080990	.00051424	.031	.00053361	.031	.00071898	.030
1030081050	.00092924	.029	.00071697	.030	.00100993	.029
1030081110	.00126332	.029	.00174344	.029	.00317968	.030
1030081170	.00322245	.030	.00354290	.030	.00366203	.030
1030081230	.00170499	.029	.00133768	.029	.00245295	.029
1030081290	.00107624	.029	.00064276	.030	.00026055	.034
1030081350	.00007361	.042	.00001460	.055	.00000395	.066
2030081030	.00000879	.059	.00001781	.053	.00005640	.044
2030081060	.00011623	.038	.00013195	.038	.00019990	.035
2030081090	.00022829	.034	.00013895	.037	.00036977	.032
2030081120	.00029102	.033	.00053897	.031	.00042699	.031
2030081150	.00039466	.032	.00042334	.031	.00038862	.032
2030081180	.00046186	.031	.00054881	.031	.00052199	.031
2030081210	.00055149	.031	.00040673	.032	.00074275	.030
2030081240	.00073545	.030	.00068873	.030	.00088751	.029
2030081270	.00093304	.029	.00104487	.029	.00074103	.030
2030081300	.00073925	.030	.00052646	.031	.00066417	.030
2030081330	.00070639	.030	.00060968	.030	.00053599	.031
2030081360	.00019081	.035	.00018202	.036	.00009716	.040
2030081390	.00007227	.042	.00005536	.044	.00000805	.060
2030081420	.00002444	.050	.00002928	.053	.00001706	.053
2030081450	.00000954	.058	.00000700	.061	.00000432	.066
2030081480	.00000507	.064	.00000358	.067		
7031080800	.00001110	.063	.00001341	.062	.00004180	.052
7031080860	.00023678	.038	.00037394	.036	.00055037	.033
7031080920	.00119083	.030	.00205860	.029	.00340775	.029
7031080980	.00595458	.029	.00967495	.031	.01280934	.032

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7031081040	.01285836	.032	.01345530	.032	.01133539	.031
7031081100	.00490844	.029	.00484243	.029	.00364840	.029
7031081160	.00238352	.029	.00060707	.033	.00027061	.038
7031081220	.00001341	.062				
8031080700	.00000507	.064	.00001103	.057	.00001244	.056
8031080760	.00001602	.054	.00004433	.045	.00007622	.041
8031080820	.00029162	.033	.00047326	.031	.00083104	.029
8031080880	.00109434	.029	.00164308	.029	.00241652	.029
8031080940	.00344500	.030	.00371933	.030	.00434712	.031
8031081000	.00440180	.031	.00390209	.030	.00221476	.029
8031081060	.00184499	.029	.00198998	.029	.00114426	.029
8031081120	.00047714	.031	.00038251	.032	.00011876	.038
8031081180	.00007738	.061	.00000589	.063		
9031081100	.00000432	.066				
1032080870	.00075802	.050	.00033967	.032	.00186905	.029
1032080930	.00215948	.029	.00294767	.030	.00349224	.030
1032080990	.00368066	.030	.00320174	.030	.00465229	.031
1032081050	.00261195	.029	.00336520	.030	.00328340	.030
1032081110	.00433505	.031	.00474527	.031	.00301711	.030
1032081170	.00326276	.030	.00244059	.029	.00154294	.029
1032081230	.00071079	.030	.00020333	.035	.00003919	.046
1032081290	.00003785	.047	.00022235	.051	.00000589	.063
2032080940	.00000358	.067	.00000738	.061	.00002585	.050
2032080970	.0009745	.040	.00030883	.033	.00013158	.028
2032081000	.00064366	.030	.00044532	.031	.00045165	.031
2032081030	.00093736	.029	.00030451	.033	.00010490	.039
2032081060	.00065841	.030	.00036553	.032	.00011459	.039
2032081090	.00038773	.032	.00064157	.030	.00034213	.032
2032081120	.00075042	.030	.00034764	.032	.00041880	.032
2032081150	.00041880	.032	.00032380	.033	.00026859	.034
2032081180	.00030883	.033	.00018202	.036	.00021584	.035
2032081210	.00022210	.035	.00027284	.033	.00011265	.039
2032081240	.00034489	.032	.00020899	.035	.00022613	.034
2032081270	.00018641	.036	.00021927	.035	.00024661	.034

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2032081300	-.00018455	.036	..00015296	.037	..00014342	.037
2032081330	-.00020646	.035	..00022084	.035	..00013128	.038
2032081360	..00008004	.041	..00007100	.042	..00013255	.038
2032081390	..00004865	.045	..00003345	.048	..00000879	.059
2032081420	..00000991	.058	..00001103	.057	..00000358	.067
7033080320	..00004604	.051	..00018768	.040	..00013381	.042
7033080880	..00033110	.036	..00102073	.031	..00106287	.029
7033080940	..00238992	.029	..00589862	.029	..00519790	.029
7033081000	..00478245	.029	..00644013	.030	..00321880	.029
7033081060	..00369278	.029	..00215784	.029	..00366375	.029
7033081120	..00248446	.029	..00254400	.029	..00102498	.031
7033081180	..00033498	.036	..00015452	.041	..00006914	.047
7033081240	..00002891	.055	..00002965	.049	..00011750	.038
8033080820	..00000432	.066	..00055715	.030	..00123359	.029
8033080880	..00019677	.035	..00323661	.030	..00341304	.030
8033080940	..00225082	.029	..00362739	.030	..00266999	.029
8033081000	..00290968	.029	..00181302	.029	..00072256	.030
8033081060	..00264637	.029	..00031069	.033	..00012778	.038
8033081120	..00043295	.031	..00002027	.052	..00003785	.047
8033081180	..00004768	.045	..00006966	.042	..0002256E	.039
9033081100	..00046998	.031	..00028089	.037	..00149906	.030
9033081130	..00001244	.056	..00117160	.030	..00315137	.029
7034080320	..00003107	.054	..00259198	.029	..00314102	.029
7034080330	..00104681	.031	..00464901	.029	..00295021	.029
7034080740	..00195965	.029	..00270508	.029	..00239932	.029
7034081000	..00428021	.029	..00302419	.029	..00254109	.029
7034081060	..00445522	.029	..00220209	.029	..00014983	.042
7034081120	..00341460	.029	..00044428	.035	..00000887	.046
7034081130	..00204861	.029	..00002526	.056	..00008218	.041
7034081240	..00074498	.032	..00001132	.057	..00046454	.031
7034081300	..00010140	.044	..00029258	.037	..00180095	.029
8034080840	..00000663	.062	..00083134	.029		
8034080900	..00010945	.039				
8034080960	..00071287	.030				

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8034081020	.00258669	.029	.00194617	.029	.00294909	.030
8034081080	.00231229	.029	.00282452	.029	.00287734	.029
8034081140	.00253268	.029	.00139199	.029	.00102758	.029
8034081200	.00120275	.029	.00037163	.032	.00022113	.035
8034081260	.00008084	.041	.00004366	.046	.00000767	.060
8034081320	.00000589	.063				
9034081070	.00003546	.047	.00006899	.042	.00013381	.038
9034081100	.00028335	.033	.00037402	.032	.00071138	.030
9034081130	.00086188	.029	.00084355	.029	.00098109	.029
9034081160	.00107273	.029	.00102468	.029	.00071958	.030
9034081190	.00019737	.035	.00049964	.031	.00056073	.030
9034081220	.00013515	.037	.00012487	.038	.00003517	.047
9034081250	.00007033	.042	.00004865	.045	.00008005	.060
1035081190	.00022272	.051	.00003822	.047	.00021331	.035
1035081250	.00050649	.031	.00097588	.029	.00129166	.029
1035081310	.00136070	.029	.00169486	.029	.00137836	.029
1035081370	.00079453	.030	.00058420	.030	.00022210	.035
1035081430	.00006802	.042	.00004902	.045	.00000358	.067
1035081490	.00000469	.065	.00000395	.066	.00000469	.065
2035081180	.00001244	.056	.00003375	.043	.00005506	.044
2035081210	.00005469	.044	.00003718	.047	.00008181	.041
2035081240	.00011429	.039	.00022220	.034	.00043899	.031
2035081270	.00031345	.038	.00046067	.031	.00056818	.030
2035081300	.00058162	.030	.00057615	.030	.00068225	.030
2035081330	.00067607	.030	.00096634	.029	.00098944	.029
2035081360	.00079133	.030	.00063978	.030	.00054970	.031
2035081390	.00040218	.032	.00021026	.035	.00018738	.035
2035081420	.00011683	.038	.00006236	.043	.00006169	.043
2035081450	.00008315	.041	.00002690	.049	.00003442	.047
2035081480	.00003241	.048	.00002444	.050	.00000589	.063
2035081510	.00000551	.063				
9035081100	.00007920	.041	.00005640	.044	.00006102	.043
9035081130	.00004664	.045	.00005201	.044	.00004157	.046
9035081160	.00003584	.047	.00003375	.048	.00003707	.043

TABLE 6 (contd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9035081190	.00004970	.045	.00004433	.045	.00003822	.047
9035081220	.00001922	.052	.00003479	.047	.00002407	.050
9035081250	.00004433	.045	.00004597	.045	.00004567	.045
9035081280	.00001952	.052	.00002481	.050	.00001952	.052
9035081310	.00003412	.047	.00002861	.049	.00003412	.047
9035081340	.00005603	.044	.00002481	.050	.00002094	.052
9035081370	.00003805	.060	.00000351	.063		
7036081040	.00001341	.062	.00007398	.047	.00006013	.049
7036081100	.00002451	.056	.00010885	.044	.00027314	.037
7036081160	.00094853	.031	.00206791	.029	.00245832	.029
7036081220	.00199243	.029	.00250466	.029	.00124305	.030
7036081280	.00116378	.030	.00059962	.033	.00028737	.037
7036081340	.00008434	.046	.00084746	.031		
8036081060	.00001602	.054	.00002995	.049	.0028118	.033
8036081120	.00042155	.031	.00075124	.030	.00156753	.029
8036081180	.00262737	.029	.00353940	.030	.00256933	.029
8036081240	.00222139	.029	.00144020	.029	.00067696	.030
8036081300	.00009067	.040	.00000991	.058		
9036081100	.00029288	.033	.00008054	.041	.00003345	.044
9036081130	.00001498	.054	.00000738	.061	.00000626	.062
9036081160	.00000358	.067	.00001565	.054		
1037081290	.00001423	.055	.00003070	.048	.00012197	.038
1037081350	.00031129	.033	.00069641	.030	.00109032	.029
1037081410	.00240579	.029	.00201233	.029	.00144333	.029
1037081470	.00120133	.029	.00164308	.029	.00162169	.029
1037081530	.00033453	.032	.00021115	.035	.00015736	.037
1037081590	.00008576	.041	.00008017	.041	.00014879	.037
1037081650	.00000589	.063				
2037081330	.00000432	.066	.00001028	.058	.00002794	.049
2037081360	.00004224	.046	.00005640	.044	.00006236	.043
2037081390	.00012107	.038	.00005335	.044	.00008276	.041
2037081420	.00022486	.034	.00015959	.036	.00094227	.029
2037081450	.00081211	.029	.00103302	.029	.00127785	.029
2037081480	.00102580	.029	.00141442	.029	.00125900	.029

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2037081510	.00064455	.030	.00074662	.030	.00051334	.021
2037081540	.00130489	.029	.00070140	.030	.00091799	.029
2037081570	.00055358	.031	.00059366	.030	.00049569	.031
2037081600	.00035249	.032	.00045523	.031	.00019424	.035
2037081630	.00014499	.037	.00007659	.041	.00009716	.040
2037081660	.00009127	.040	.00008412	.041	.00007063	.042
2037081690	.00003822	.047	.00002928	.049	.00002719	.049
2038081020	.00079229	.032	.00160158	.030	.00187106	.029
2038081080	.00316337	.029	.00647657	.030	.00886858	.030
2038081140	.01165992	.032	.01037672	.031	.00715576	.030
2038081200	.00822753	.030	.00324622	.029	.00279844	.029
2038081260	.00162117	.030	.00044808	.035	.00004388	.051
2038081320	.00001863	.059	.00001788	.059		
8038081040	.00001527	.054	.00009684	.040	.00051603	.031
8038081100	.00137575	.029	.00202231	.029	.00206575	.029
8038081160	.00247143	.029	.00275843	.029	.00199445	.029
8038081220	.00166669	.029	.00159122	.029	.00094146	.029
8038081280	.00061825	.030	.00015900	.036	.00004023	.046
8038081340	.00000551	.063				
9038081130	.00000432	.066	.00002094	.052	.00009485	.040
9038081160	.00015229	.037	.00024632	.034	.00030793	.033
9038081190	.00014752	.037	.00019707	.035	.00018455	.036
9038081220	.00013605	.037	.00012457	.038	.00007331	.042
9038081250	.000008181	.041	.00007227	.042	.00006102	.043
9038081280	.00006869	.042	.00003099	.048	.00001989	.052
9038081300	.00000954	.058	.00000358	.067	.00008412	.041
9038081340	.000003479	.047	.00024162	.034	.00089243	.029
1039081490	.00089213	.029	.00095733	.029	.00101313	.029
1039081550	.00070319	.030	.00082903	.029	.00066549	.030
1039081610	.00038616	.032	.00032261	.033	.00033051	.033
1039081670	.00000589	.063	.00000551	.063	.00000507	.064
2039081440	.00004503	.045	.00004195	.046	.00005938	.043
2039081470	.00013001	.038	.00012137	.038	.00010036	.039
2039081500	.00014402	.037	.00020869	.035	.00018984	.035

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2039081560	.00044234	.031	.00035092	.032	.00062294	.030
2039081590	.00031985	.033	.00056610	.030	.00054613	.031
2039081620	.00060958	.030	.00060730	.030	.00069641	.030
2039081650	.00070371	.030	.00053391	.031	.00034608	.032
2039081680	.00029869	.033	.00015005	.037	.00022985	.034
2039081710	.00034392	.032				
1040081210	.00000	.060	.00003994	.046	.00011012	.039
1040081270	.000	.034	.00077061	.030	.00053838	.031
1040081330	.00087160	.029	.00091359	.029	.00149913	.029
1040081390	.00114031	.029	.00077173	.030	.00086159	.029
1040081450	.00042908	.031	.00035033	.032	.00031739	.033
1040081510	.00014695	.037	.00003755	.047		
2040081260	.00000738	.061	.00001922	.052	.00008114	.041
2040081290	.00020087	.035	.00028364	.033	.00023298	.034
2040081320	.00046365	.031	.00104941	.029	.00143394	.029
2040081350	.00150815	.029	.00123702	.029	.00117525	.029
2040081380	.00148669	.029	.00109807	.029	.00076383	.030
2040081410	.00104286	.029	.00047773	.031	.00039615	.032
2040081440	.00026271	.034	.00013031	.038	.00006638	.042
2040081470	.00003994	.046	.00001349	.055	.00001781	.053
7041081280	.00001110	.063	.00009254	.045	.00218526	.029
7041081340	.00409685	.029	.00933990	.031	.00876479	.031
7041081400	.00908621	.031	.01230329	.032	.01660533	.033
7041081460	.01423709	.032	.01022309	.031	.00612624	.030
7041081520	.00447378	.029	.00375397	.029	.00406697	.029
7041081580	.00459455	.029	.00321366	.029	.00392333	.029
7041081640	.00378460	.029	.00279672	.029	.00078924	.032
7041081700	.00030607	.037	.00016913	.041	.00001036	.064
7041081760	.00001788	.059	.00001267	.062		
8041081360	.00000805	.060	.00108972	.029	.00142798	.029
8041081420	.00341438	.030	.00351228	.030	.00358514	.030
8041081480	.00184946	.029	.00073284	.030	.00060104	.030
8041081540	.00069730	.030	.00052139	.031	.00037767	.032
8041081600	.00052169	.031	.00022829	.034	.000001743	.053

TABLE 6 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8041081660	.00003956	.046	.00001207	.056	.00001989	.052
9041081340	.00000767	.060	.00010006	.039	.00010364	.039
9041081370	.00009648	.040	.00022113	.035	.00020429	.035
9041081400	.00014342	.037	.00025123	.034	.00031278	.033
9041081430	.00020146	.035	.00014313	.037	.00008740	.040
9041081460	.00022955	.034	.00009812	.040	.00005871	.043
9041081490	.00012107	.038	.00007294	.042	.00006668	.042
9041081520	.00006273	.043	.00004023	.046	.00003099	.048
9041081550	.00006340	.043	.00008360	.046	.00065364	.033
9041081580	.00001922	.052	.00413813	.029	.00518285	.029
7042081100	.00000887	.066	.00575602	.029	.00707120	.030
7042081160	.00181228	.029	.00942690	.030	.01006559	.031
7042081220	.00486590	.029	.00993654	.031	.00778526	.030
7042081280	.00985876	.031	.00342935	.029	.00283867	.029
7042081340	.00664368	.030	.00008836	.040	.00034764	.032
7042081400	.00794046	.030	.00142403	.029	.00187770	.029
7042081460	.00036180	.036	.00227213	.029	.00260346	.029
8042081140	.00001498	.054	.00054485	.030	.00115521	.029
8042081200	.00097066	.029	.00082113	.029	.00033632	.032
8042081260	.00189669	.029	.00001460	.055	.00009194	.040
8042081320	.00091068	.029	.00031404	.033	.00037439	.052
8042081360	.00165403	.029	.00068285	.030	.00088342	.029
8042081440	.00007227	.042	.00050232	.031	.00101887	.029
9042081140	.00009954	.058	.00054047	.031	.00041552	.032
9042081170	.00022396	.034	.00013255	.038	.00013545	.037
9042081200	.00055209	.031	.00013992	.037	.00008479	.041
9042081230	.00059903	.030	.00000589	.063	.00174291	.029
9042081260	.00094667	.029	.00015803	.036	.000251561	.029
9042081290	.00029102	.033	.00063337	.031	.00033997	.032
9042081320	.00014566	.037	.00072986	.029		
9042081350	.00002615	.050				
1043081530	.00002377	.050				
1043081590	.00313230	.030				
1043081650	.00129268	.029				

TABLE 6 (contd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1043081710	.00014789	.037	.00006899	.042	.00003032	.048
2043081540	.00001207	.054	.00006102	.043	.00007227	.042
2043081570	.00015140	.037	.00036798	.032	.00053629	.031
2043081600	.00056729	.030	.00063390	.030	.00079662	.030
2043081630	.00066251	.030	.00067964	.030	.00043750	.031
2043081660	.00040099	.032	.00029445	.033	.00017196	.056
2043081690	.00012904	.038	.00006765	.042	.00003614	.047
2043081720	.00001885	.052				
1044081150	.00000358	.067	.00009522	.040	.00010103	.039
1044081210	.00043750	.031	.00065282	.030	.00079282	.030
1044081270	.00100419	.029	.00119045	.029	.00160277	.029
1044081330	.00153303	.029	.00168473	.029	.00143230	.029
1044081390	.00116125	.029	.00094406	.029	.00043392	.031
1044081450	.00006735	.042	.00003271	.048		
2044081210	.00004564	.045	.00011556	.038	.00013769	.037
2044081240	.00022702	.034	.00035129	.032	.00060640	.030
2044081270	.00045948	.031	.00095621	.029	.00115149	.029
2044081300	.00071608	.030	.00142604	.029	.00129297	.029
2044081330	.00204965	.029	.00240855	.029	.00184022	.029
2044081360	.00069521	.030	.00063211	.030	.00056639	.030
2044081390	.00028886	.033	.00012837	.038	.00006668	.042
2044081420	.00004731	.045	.0002481	.050	.0001065	.057
7045081340	.00000961	.065	.0001036	.044	.00022808	.039
7045081400	.00154532	.030	.000303626	.029	.00077599	.029
7045081460	.00839375	.030	.00041962	.035	.00783555	.030
7045081520	.00714257	.030	.00050240	.031	.01059160	.031
7045081580	.01020260	.031	.00798851	.030	.00626892	.030
7045081640	.00672907	.030	.00708550	.030	.00611909	.030
7045081700	.00682101	.030	.00416344	.029	.00131130	.030
7045081760	.00105038	.031	.00025764	.038	.00013180	.042
7045081820	.00005646	.049				
8045081420	.00022888	.034	.00278257	.029	.00310749	.030
8045081480	.00310034	.030	.00401286	.029	.00404842	.030
8045081540	.00420809	.030	.00318793	.030	.00268961	.029

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8045061600	.00160078	.029	.00088751	.029	.00034548	.032
8045081660	.002246927	.029	.00183120	.029	.00040039	.032
8045081720	.00073574	.030	.00039071	.032	.00016436	.036
8045081780	.00000991	.058				
9045081270	.00000358	.067	.00000395	.066	.00003651	.047
9045081300	.00000400	.043	.00009425	.040	.00011973	.038
9045081330	.00024691	.034	.00023328	.034	.00031553	.033
9045081360	.00040583	.032	.00058800	.030	.00034794	.032
9045081390	.000035495	.032	.00033788	.032	.00053897	.031
9045081420	.00048168	.031	.00042212	.030	.00063449	.030
9045081450	.00070346	.029	.00075862	.030	.00070110	.030
9045081480	.00069611	.030	.00050232	.031	.00074744	.030
9045081510	.00073574	.030	.00057228	.030	.00060759	.030
9045081540	.00062563	.030	.00060312	.030	.00053540	.031
9045081570	.00032991	.033	.00027038	.033	.00020146	.035
9045081600	.00012331	.038	.00011876	.038	.00006273	.043
9045081630	.00002064	.052	.00004023	.046	.00003785	.047
1046081410	.00005603	.044	.00006966	.042	.00012971	.033
1046081470	.00016719	.036	.00012875	.038	.00030421	.033
1046081530	.00029013	.033	.00041582	.032	.00043869	.031
1046081590	.00073574	.030	.00087269	.029	.00080213	.030
1046081650	.00103392	.029	.00099346	.029	.00147417	.029
1046081710	.00160955	.029				
2046081460	.00001207	.056	.00004157	.046	.00004262	.046
2046081490	.00010848	.039	.00012748	.038	.00018798	.035
2046081520	.00015452	.037	.00016828	.035	.00030085	.033
2046081550	.00020899	.035	.00022888	.034	.00022270	.035
2046081580	.00018768	.035	.00020273	.035	.00012428	.038
2046081610	.00015005	.037	.00023514	.034	.00020273	.035
2046081640	.00019021	.035	.00020489	.035	.00019863	.035
2046081670	.00025406	.034	.00015520	.037	.00009909	.040
2046081700	.00007890	.041	.00003681	.047	.00002168	.051
1047081190	.00000991	.056	.00013448	.037	.00031859	.033
1047081250	.00063978	.030	.00060253	.030	.00067994	.030

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1047081310	.00071287	.030	.00088200	.029	.001C4770	.029
1047081370	.00065044	.030	.00069819	.030	.00023387	.034
1047081430	.00004128	.046	.00001281	.056		
2047081210	.00003204	.048	.00008376	.041	.00031069	.033
2047081240	.00036553	.032	.00052795	.031	.00076301	.030
2047081270	.00061944	.030	.00020161	.030	.00088252	.029
2047081300	.00078343	.029	.00076331	.030	.00084214	.029
2047081330	.00075214	.030	.00078723	.030	.00041790	.032
2047081360	.00028335	.033	.00016889	.036	.00005707	.043
2047081390	.00002272	.051	.00000738	.061		
7048081240	.00001341	.062	.00004105	.052	.00028029	.037
7048081300	.00029832	.037	.00295244	.029	.00488050	.029
7048081360	.01221091	.032	.01928687	.034	.01968421	.034
7048081420	.02137855	.034	.02169010	.035	.01717694	.033
7048081480	.01481146	.033	.00773445	.030	.00537686	.029
7048081540	.00405230	.029	.00049338	.034	.00001416	.061
8048081300	.00001498	.054	.00002690	.049	.00008382	.041
8048081360	.00011072	.039	.00296833	.029	.00326000	.030
8048081420	.00297070	.030	.00332147	.030	.00347950	.030
8048081480	.00101194	.029	.00080491	.030	.00033721	.032
8048081540	.00000062	.081	.00000358	.067		
9048081290	.00000767	.060	.00002131	.051	.00004224	.046
9048081320	.00013158	.038	.00019774	.035	.00026211	.034
9048081350	.00040345	.032	.00057228	.030	.00077613	.030
9048081380	.00022054	.035	.00020362	.035	.00017792	.036
9048081410	.00011109	.079	.00011109	.039	.00013798	.037
9048081440	.00016202	.036	.00017948	.036	.00013098	.038
9048081470	.00007331	.042	.00006966	.042	.00005133	.044
9048081500	.00001170	.057	.00000395	.066	.00000358	.047
7049081060	.00000805	.066	.00017971	.040	.00127845	.030
7049081120	.00294618	.029	.00512697	.029	.00677586	.030
7049081180	.01021445	.031	.01160026	.032	.01353025	.032
7049081240	.01544699	.033	.01566716	.033	.01345729	.032
7049081300	.00536904	.029	.00326626	.029	.00122085	.030

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.F.	DOSAGE GM SEC/CU.M	S.F.	DOSAGE GM SEC/CU.M	S.F.
7049081360	.00096925	.031	.00086263	.031	.00168264	.029
7049081420	.00164956	.029	.00125267	.030	.00105225	.031
7049081480	.00012100	.043				
8049081060	.00000432	.066	.00012837	.038	.00039771	.032
8049081140	.00076652	.030	.00090726	.029	.00154324	.029
8049081200	.00259548	.029	.00363633	.030	.00531338	.031
8049081260	.00455551	.031	.00437073	.031	.00262573	.029
8049081320	.00072137	.030	.00033118	.033	.00005908	.043
8049081380	.00018768	.035	.00007659	.041	.00015356	.037
8049081440	.00001952	.052				
9049081150	.00001781	.053	.00002302	.051	.00010557	.039
9049081160	.00042394	.031	.00041366	.032	.00097618	.029
9049081210	.00089936	.029	.00095726	.029	.00076272	.030
9049081240	.00030205	.033	.00034884	.032	.00017032	.036
9049081270	.00007622	.041	.00006936	.042	.00002131	.031
9049081300	.00000634	.045	.00000344	.047	.00000295	.049
9049081330	.00001244	.056				
1050081330	.00001065	.057	.00000551	.063	.00011913	.036
1050081390	.00021639	.036	.00094779	.029	.00005964	.029
1050081450	.00111397	.030	.00166841	.029	.00153698	.029
1050081510	.00135899	.029	.00265323	.029	.00290148	.029
1050081570	.00243090	.029	.00167429	.029	.00111707	.029
1050081630	.00006521	.042				
2050081370	.00000954	.058	.00001743	.053	.00005908	.043
2050081400	.00006503	.043	.00008576	.041	.00016622	.036
2050081430	.00026241	.034	.00036709	.032	.00034429	.032
2050081460	.00023082	.034	.00030488	.033	.00025310	.034
2050081490	.00022613	.034	.00029162	.033	.00037193	.032
2050081520	.00036582	.032	.00029720	.033	.00026919	.034
2050081550	.00010878	.039	.00005238	.044	.00001207	.056
2050081580	.00000879	.059	.00000358	.067		
1051081310	.00000738	.061	.00002168	.051	.00001743	.063
1051081370	.00035584	.032	.00170246	.029	.00352748	.030
1051081430	.00273891	.029	.00439953	.032	.00308998	.030

TABLE 6 (contd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1051081490	.00213951	.029	.00269309	.029	.00185557	.029
1051081550	.00117786	.029	.00037648	.032	.0009716	.040
1051081610	.0002511	.050	.0000469	.065	.0000767	.060
2051081370	.00001386	.055	.00000805	.060	.00056936	.042
2051081400	.00020802	.035	.00018544	.036	.00068083	.030
2051081430	.00067465	.030	.00137765	.029	.00148691	.029
2051031460	.00158951	.029	.00179090	.029	.00150733	.029
2051091490	.00122100	.029	.00079401	.030	.00081852	.029
2051091520	.00079513	.030	.00057138	.030	.00030451	.033
2051081550	.0009425	.040	.0005908	.043	.0002511	.050
2051081580	.00000395	.066	.00000879	.059	.00001922	.052
9051081100	.00001989	.052	.00004932	.045	.00007525	.041
9051081130	.0004157	.046	.00024721	.034	.00047803	.031
9051081160	.00011459	.039	.00056840	.030	.00070199	.030
9051081190	.00053069	.030	.00083424	.029	.00054553	.031
9051081220	.00081763	.029	.00096714	.029	.00064157	.030
9051031250	.0067921	.030	.00069082	.030	.00056830	.030
9051081280	.00088572	.029	.00055298	.031	.00044622	.031
9051081310	.00037104	.032	.00031434	.033	.00027284	.033
9051081340	.00045225	.031	.00014115	.037	.00016943	.036
9051081370	.00027008	.034	.00011846	.038	.00006996	.042
9051031400	.0005439	.038	.00000507	.064	.00000358	.067
9051081430	.00000551	.063	.00000589	.063	.00210248	.029
1052081370	.00001132	.057	.00025712	.034	.00379011	.030
1052081490	.00344858	.030	.00596561	.032	.00376314	.030
1052081550	.00634372	.032	.00473350	.031	.00135221	.029
1052081610	.00352234	.030	.00228822	.029	.00001527	.054
1052081670	.00040643	.032	.00009261	.040	.00007294	.042
2052081510	.00001706	.053	.00004999	.044	.00084604	.030
2052081540	.00022054	.035	.00035308	.032	.00283107	.029
2052081570	.00187628	.029	.00233602	.031	.00427335	.030
2052081600	.00392474	.030	.00442296	.031	.00287343	.029
2052081630	.00391319	.030	.00345886	.030		

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2032081660	.00173926	.029	.00100940	.029	.00038962	.032
2032081690	.00032715	.033	.00026241	.034	.00013158	.038
2032081720	.00006899	.042	.00003546	.047		
9032081180	.00000626	.062	.00000767	.060	.00000663	.062
9032081210	.00000358	.067	.00000700	.061	.00000201	.073
9032081240	.00000663	.062	.00000767	.060	.00000551	.063
9032081276	.00003785	.047	.00027657	.033	.00018105	.036
9032081300	.00028364	.033	.00044085	.031	.00039376	.032
9032081330	.00046454	.031	.00045732	.031	.00048555	.031
9032081360	.00054464	.031	.00051990	.031	.00026859	.034
9032081390	.00024259	.034	.00050917	.031	.00068963	.030
9032081420	.00077501	.030	.00125617	.029	.00143938	.029
9032081450	.00133738	.029	.00184134	.029	.00186704	.029
9032081480	.00217557	.029	.00176281	.029	.00200644	.029
9032081510	.00275977	.029	.00265017	.029	.00270873	.029
9032081540	.00297092	.030	.00261694	.029	.00259988	.029
9032081570	.00255197	.029	.00211500	.029	.00228517	.029
9032081600	.00225186	.029	.00172153	.029	.00132658	.029
9032081630	.00128411	.029	.00104286	.029	.00089985	.029
9032081660	.00069442	.030	.00039494	.032	.00037813	.032
9032081690	.00029334	.033	.00029364	.033	.00030847	.033
9032081720	.00020333	.035	.00018671	.035	.00013158	.038
9032081750	.00011586	.038	.00008836	.040	.00009619	.040
9032081780	.00008702	.040	.00009745	.040	.00008832	.042
1033081150	.00000767	.060	.00012778	.038	.00029436	.034
1033081210	.00097789	.029	.00307173	.030	.00256464	.029
1033081270	.00295863	.030	.00093073	.029	.00037402	.032
1033081330	.00003889	.046	.00005670	.044	.00011139	.039
2033081160	.00001810	.053	.00029229	.033	.00037707	.032
2033081190	.00015229	.037	.00067317	.030	.00094116	.029
2033081220	.00032842	.033	.00010461	.039	.00003308	.048
2033081250	.00042275	.031	.00000395	.066		
2033081280	.00000991	.058	.00001669	.053	.00039257	.032
1054031350	.00001281	.056				

TABLE 6 (contd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1054081410	.00100762	.029	.00092261	.029	.00066408	.030
1054081470	.00149712	.029	.00176728	.029	.00201762	.029
1054081530	.00201672	.029	.00162303	.029	.00140361	.029
1054081590	.00062783	.029	.00115462	.029	.00075422	.030
1054081650	.00051811	.031	.00033997	.032	.00007689	.041
1054081710	.00010034	.030				
2054081730	.00000432	.046	.00004262	.046	.00007264	.042
2054081790	.00008807	.040	.00010237	.039	.00021396	.035
2054081850	.00021212	.035	.00037499	.032	.00045463	.031
2054081910	.00057943	.030	.00060521	.030	.00053868	.031
2054081970	.00050550	.031	.00056870	.030	.00092030	.029
2054082030	.00086047	.029	.00074454	.030	.00078112	.030
2054082090	.00077322	.030	.00059509	.030	.00067577	.030
2054082150	.00053868	.031	.00036649	.032	.00040829	.032
2054082210	.00020953	.033	.00021584	.035	.00001281	.036
2054082270	.00000395	.046	.00000283	.070	.00000358	.067
7055081100	.0002161	.057	.00012979	.043	.00092544	.031
7055081160	.00400931	.029	.01165062	.032	.01634054	.033
7055081220	.01838744	.034	.02422325	.035	.02166897	.034
7055081280	.01001753	.031	.01359776	.032	.01124039	.031
7055081340	.00843346	.030	.00473201	.029	.00024460	.038
7055081400	.00001788	.059				
8055081080	.00004463	.045	.00001028	.058	.00001319	.056
8055081140	.00001669	.051	.00000358	.040	.00134262	.029
8055081200	.00423037	.030	.00483066	.031	.00408459	.032
8055081260	.00612438	.032	.00580952	.032	.00393741	.030
8055081320	.00250041	.029	.00126705	.029	.00077732	.030
9055081150	.00004090	.046	.00006996	.042	.00011779	.038
9055081180	.00024721	.034	.00032596	.033	.00045799	.031
9055081210	.00134334	.029	.00141382	.029	.00117041	.029
9055081240	.00489094	.029	.00062741	.030	.00043333	.031
9055081270	.00031278	.033	.00017032	.036	.00011817	.038
9055081300	.00007361	.042	.00003174	.048	.00000842	.059
7056081160	.00001863	.059	.00002012	.058	.00022247	.039

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7056081246	.00270627	.029	.00824332	.030	.00969715	.031
7056081300	.01643375	.033	.02015457	.034	.01383796	.032
7056081360	.01766779	.033	.00641756	.030	.00493757	.029
7056081420	.00144020	.030	.00038095	.035		
8056081200	.00000395	.066	.00000767	.060	.00010975	.039
8056081260	.00111245	.029	.00272661	.029	.00358492	.030
8056081320	.00260539	.029	.00142999	.029	.0163347	.029
8056081380	.00140108	.029	.00070371	.030	.0009485	.040
9056081200	.00000358	.067	.00001103	.057	.0000976	.039
9056081230	.0030547	.033	.00065252	.030	.00090376	.029
9056081260	.00115462	.029	.00139028	.029	.00155114	.029
9056081290	.00135817	.029	.00111558	.029	.00069700	.030
9056081320	.00021927	.035	.00061102	.043	.00001781	.053
9056081350	.00000320	.068	.00000283	.070		
7057081180	.00003465	.053	.0008501	.046	.00030540	.037
7057081240	.00079043	.032	.00142530	.030	.00118062	.030
7057081300	.00250347	.029	.00356883	.029	.00398897	.029
7057081360	.00482783	.029	.00194326	.029	.00110112	.031
7057081420	.00047080	.034	.00016846	.041	.00006706	.048
7057081480	.00001863	.059				
8057081180	.00000507	.064	.00002511	.050	.00009291	.040
8057081240	.00065602	.030	.00084504	.029	.00144275	.029
8057081300	.00234053	.029	.00140898	.029	.00054076	.031
8057081360	.00118040	.029	.00134505	.029	.00042938	.031
8057081420	.00003718	.047	.00000551	.063		
9057081220	.00000395	.066	.00000469	.065	.00002064	.052
9057081250	.00018358	.036	.00040038	.032	.00056840	.030
9057081260	.00063151	.030	.00086479	.029	.00089444	.029
9057081310	.00088781	.029	.00076003	.030	.00071958	.030
9057081340	.00063598	.030	.00035062	.032	.00019930	.035
9057081370	.0001848	.053				
1058081290	.00000283	.070	.00000463	.062	.00017226	.036
1058081350	.00047535	.031	.00058800	.030	.00108629	.029
1058081410	.00097007	.029	.00048673	.031	.00014246	.037

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1058081470	.00000551	.063	.00006303	.043	.00013448	.037
2058081330	.00001028	.058	.00030942	.033	.00044711	.031
2058081360	.00021115	.035	.00037074	.032	.00017196	.036
2058081390	.00043295	.031	.00005670	.044	.00001498	.054
2058081420	.00021331	.035	.00019029	.040	.00200242	.029
7058081200	.00006656	.068	.01822225	.014	.01995958	.034
7058081260	.00588916	.029	.02259128	.035	.02954498	.036
7058081320	.0176036	.034	.0285513	.036	.02366215	.035
7058081380	.02924785	.036	.01874276	.034	.01375201	.031
7058081440	.02429143	.035	.00380725	.029	.00332050	.029
7058081500	.00526369	.029	.00127777	.030	.00001192	.063
7058081560	.00233650	.019				
7058081620	.00000574	.070				
8058081240	.00000551	.063	.00015005	.037	.00108719	.029
8058081300	.00247091	.029	.00126332	.029	.00126645	.029
8058081360	.00166304	.029	.00378825	.030	.00701509	.032
8058081420	.00517793	.031	.00406966	.030	.00194423	.029
8058081480	.03111707	.029	.00104889	.029	.00077583	.033
8058081540	.00040159	.032	.00000395	.066		
9058081230	.00000589	.063	.00000469	.065	.00001423	.055
9058081260	.00001498	.054	.00003651	.047	.00005335	.044
9058081290	.00004634	.045	.00011846	.038	.00013515	.037
9058081320	.00018328	.036	.00021428	.035	.00040948	.032
9058081350	.00053003	.031	.00051215	.031	.00072606	.030
9058081380	.00022329	.034	.00013351	.038	.00011750	.038
9058081410	.00014693	.037	.00008442	.041	.00012137	.038
9058081440	.00011235	.039	.00000151	.041	.00010237	.039
9058081470	.00002719	.049	.00001386	.055		
1060081310	.00000954	.058	.00001386	.055	.00008479	.041
1060081370	.00081263	.029	.00183851	.029	.00227325	.029
1060081430	.00220414	.029	.000141270	.029	.00029929	.033
1060081490	.00007987	.041	.00001244	.056		
2060081340	.00001781	.053	.00007100	.042	.00008218	.041
2060081370	.00015043	.037	.00025623	.034	.00042573	.031

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.
2050081400	-00049837	.031	-00035219	.032	-00036828	.032	-00036828	.032
2060081430	-00027567	.033	-00046664	.045	-00002377	.050	-00002377	.050
2060081460	-00001028	.058	-00000738	.061				
7061081200	-00006080	.049	-00032537	.036	-00151448	.030	-00151448	.030
7061081260	-00442430	.029	-00694916	.030	-00792630	.030	-00792630	.030
7061081320	-00843458	.030	-00846997	.030	-01810350	.034	-01810350	.034
7061081380	-00950888	.031	-00977606	.031	-00710800	.030	-00710800	.030
7061081440	-01238562	.032	-00648448	.030	-00328563	.029	-00328563	.029
7061081500	-00177108	.024	-00063136	.033	-00009321	.045	-00009321	.045
7061081560	-00003964	.052						
8061081200	-00000432	.062	-00000320	.068	-00003174	.048	-00003174	.048
8061081260	-00071876	.030	-00068314	.030	-00082985	.029	-00082985	.029
8061081320	-00040464	.032	-00046805	.030	-00076532	.030	-00076532	.030
8061081380	-00272825	.025	-00301875	.030	-00286534	.029	-00286534	.029
8061081440	-00193976	.027	-00088081	.029	-00004192	.032	-00004192	.032
8061081500	-00025034	.034	-00004634	.045				
9061081260	-00000551	.061	-00000879	.059	-00000626	.062	-00000626	.062
9061081290	-00000700	.061	-00003271	.048	-00003308	.049	-00003308	.049
9061081320	-00003137	.047	-00002652	.050	-00009879	.040	-00009879	.040
9061081350	-00017352	.036	-00017978	.036	-00033692	.032	-00033692	.032
9061081380	-00013128	.038	-00006765	.042	-00006869	.042	-00006869	.042
9061081410	-00003994	.046	-00004366	.046	-00007167	.042	-00007167	.042
9061081440	-00011206	.039	-00004224	.046	-00001810	.053	-00001810	.053
1062081510	-00001065	.057	-00005255	.031	-00452340	.031	-00452340	.031
1062081570	-01479134	.036	-00891916	.034	-00227265	.029	-00227265	.029
1062081630	-00020117	.035	-00003375	.048				
2062081520	-00000469	.065	-00000589	.063	-00003104	.044	-00003104	.044
2062081550	-00023387	.034	-00059307	.030	-00302233	.030	-00302233	.030
2062081580	-00315271	.030	-00333746	.030	-00243713	.029	-00243713	.029
2062081610	-00133201	.029	-00039890	.032	-00009485	.040	-00009485	.040
2062081640	-00010721	.039	-00000283	.070				
7063080920	-00001110	.063	-00003032	.054	-00010073	.045	-00010073	.045
7063080980	-00037454	.036	-00094373	.031	-00141934	.030	-00141934	.030
7063081040	-00343904	.029	-00243236	.029	-00250757	.029	-00250757	.029

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7063081100	.00381805	.029	.00526257	.029	.00647329	.030
7063081160	.00586592	.029	.00370122	.029	.00441194	.029
7063081220	.00405565	.029	.00457324	.029	.00484295	.029
7063081280	.00397824	.029	.00192679	.029	.00112042	.031
7063081340	.00014588	.042	.00004955	.050	.00001788	.052
7063081400	.00000656	.068				
8063080960	.00000283	.070	.00001952	.052	.00027627	.033
8063081020	.00065662	.030	.00143766	.029	.00185646	.029
8063081080	.00245795	.029	.00186928	.029	.00186227	.029
8063081140	.00184409	.029	.00222057	.029	.00335030	.030
8063081200	.00298515	.030	.00258200	.029	.00213340	.029
8063081260	.00202261	.029	.00153109	.029	.00091590	.029
8063081320	.00028707	.033	.00007227	.042	.00001063	.057
8063081380	.00000449	.065				
9063081100	.00188440	.029	.00193052	.029	.00184774	.029
9063081130	.00163518	.029	.00131634	.029	.00079952	.030
9063081160	.00064485	.030	.00038773	.032	.00015296	.037
9063081190	.00007391	.042	.00004433	.045	.00005938	.043
9063081220	.000004500	.045	.00002302	.051		
1064081230	.00001781	.053	.00022270	.035	.00031404	.033
1064081290	.00032105	.033	.00010915	.039	.00013769	.037
1064081350	.00038832	.032	.00053838	.031	.00003715	.029
1064081410	.00072725	.030	.00042215	.031	.00048526	.031
1064081470	.00042215	.031	.00013739	.037	.00007592	.041
2064081270	.00000509	.063	.00002302	.051	.00007063	.042
2064081300	.000004835	.045	.00003345	.048	.00008278	.041
2064081330	.00004835	.045	.00006936	.042	.00012837	.038
2064081360	.00027567	.033	.00032507	.033	.00022210	.035
2064081390	.00021987	.035	.00028983	.033	.00022672	.034
2064081420	.00016116	.036	.00014313	.037	.00005908	.043
2064081450	.00003032	.048				
7065081140	.00000730	.067	.00011697	.043	.00036408	.035
7065081200	.00445089	.029	.01472726	.033	.03338009	.037
7065081260	.04317179	.039	.03628395	.038	.03647819	.038

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7065081320	.03285751	.037	.03103137	.037	.03487438	.037
7065081380	.01100413	.031	.00717498	.030	.01775384	.033
7065081440	.00991330	.031	.00406809	.029	.00307806	.027
7065081500	.00210941	.029	.00015184	.041	.00001565	.060
8065081180	.00000358	.067	.00011496	.039	.00352934	.030
8065081240	.01056008	.034	.01487806	.036	.01697361	.037
8065081300	.01582243	.037	.00734841	.033	.00473142	.031
8065081360	.00670716	.032	.00666670	.032	.00634193	.032
8065081420	.00228599	.029	.00022261	.029	.00097729	.029
8065081480	.00021741	.035	.00002652	.050	.00094198	.029
9065081210	.00003991	.058	.00026174	.034	.00126019	.029
9065081240	.00189364	.029	.00126585	.029	.00181668	.029
9065081270	.00193276	.029	.00127584	.029	.00086449	.029
9065081300	.00163518	.029	.00089355	.029	.00120960	.029
9065081330	.00118099	.029	.00103503	.029	.00024301	.034
9065081360	.00121385	.029	.00010915	.039	.00009522	.040
9065081390	.00015832	.036	.00005938	.043	.00000432	.066
9065081420	.00009842	.040	.0002481	.050	.00022270	.035
1066081470	.00001170	.057	.01707144	.037	.02144679	.039
1066081530	.00329971	.030	.01131020	.035	.00307910	.030
1066081590	.01974933	.038	.0002407	.050	.00018135	.036
1066081650	.00057526	.030	.00007428	.042	.00143960	.029
2066081440	.00001669	.053	.00102147	.029	.00080593	.030
2066081470	.00048406	.031	.00100791	.029	.00166982	.029
2066081500	.00119358	.029	.00109665	.029	.00475086	.031
2066081530	.00097267	.029	.00358731	.030	.00175409	.029
2066081560	.00320233	.030	.00048041	.031	.00011586	.038
2066081590	.00490718	.031	.00050828	.031	.00118563	.029
2066081620	.00098884	.029	.00194922	.029	.00217587	.029
2066081650	.00003345	.048	.00099063	.029	.00022516	.034
1067081310	.00019394	.035				
1067081370	.00172041	.029				
1067081430	.00277723	.029				
1067081490	.00000991	.058				

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2067081330	.00000842	.059	.00007525	.041	.00015043	.037
2067081360	.00019990	.035	.00038557	.032	.00029869	.033
2067081390	.00047475	.031	.00055179	.031	.00034764	.032
2067081420	.00020899	.035	.00011235	.039	.00004701	.045
2067081450	.00002548	.050	.00001649	.053		
7068081200	.00001110	.063	.000000654	.068	.00039741	.035
7068081260	.00189163	.029	.00740595	.030	.00805184	.030
7068081320	.01544915	.033	.01744002	.033	.02197318	.035
7068081390	.00618763	.030	.01306564	.032	.01057066	.031
7068081440	.01120552	.031	.00566272	.029	.00195496	.029
7068081500	.00022963	.039	.00001863	.059		
8068081220	.00000507	.064	.00000246	.071	.00013702	.037
8068081280	.00046663	.031	.00227489	.029	.00140019	.029
8068081340	.00168867	.029	.00213340	.029	.00465311	.031
8068081400	.00446290	.031	.00176847	.029	.00178866	.029
8068081460	.00044771	.031	.00007659	.041	.00003994	.046
8068081520	.00000991	.058	.00000507	.064		
9068081250	.00000469	.065	.00000589	.063	.00000551	.063
9068081280	.00000395	.066	.00000358	.067	.00001498	.054
9068081310	.00004999	.044	.00016622	.036	.00032745	.033
9068081340	.00045799	.031	.00047058	.031	.00039525	.032
9068081370	.00030115	.033	.00003133	.044	.00007331	.042
9068081400	.00002407	.050	.00002235	.051	.00001319	.056
9068081430	.00002198	.051	.00001349	.055	.00002235	.051
9068081460	.00000767	.060				
7069081300	.00003822	.052	.00004744	.051	.00002161	.057
7069081350	.00012241	.043	.00075117	.032	.00429317	.029
7069081420	.01417875	.032	.04418544	.039	.05891405	.041
7069081480	.05938202	.041	.02688795	.036	.01086116	.031
7069081540	.00437759	.029	.00079535	.032	.00002742	.055
8069081360	.00000589	.063	.00001132	.057	.00013361	.038
8069081420	.00314400	.030	.01393504	.036	.02625629	.040
8069081480	.01208715	.035	.00342114	.030	.00069790	.030
8069081540	.00005536	.044				

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9069081350	.0001065	.057	.0006005	.043	.00020146	.035
9069081380	.00645612	.031	.00111274	.029	.00227377	.029
9069081410	.00213780	.029	.00183962	.029	.00201844	.029
9069081440	.00077792	.030	.00024199	.034	.00006273	.043
9069081470	.00001423	.055	.00000507	.064	.00000283	.070
7070081240	.00003174	.054	.00064246	.033	.00696845	.030
7070081300	.01522772	.033	.02867669	.036	.03056251	.036
7070081360	.02994969	.036	.02839148	.036	.02739623	.035
7070081420	.02161756	.034	.01155734	.032	.00478081	.029
7070081480	.00062078	.033	.00003465	.053		
8070081260	.00002928	.049	.00033118	.033	.00204071	.029
8070081320	.00181191	.029	.00351958	.030	.00522412	.031
8070081380	.00614494	.032	.00726566	.033	.00449345	.031
8070081440	.00004061	.046	.00026241	.034	.00000663	.062
9070081270	.00165209	.029	.00029013	.033	.00107020	.029
9070081300	.00147536	.029	.00152200	.029	.00105493	.029
9070081360	.00094607	.029	.00178389	.029	.00157970	.029
9070081390	.00055775	.030	.00089705	.029	.00050172	.031
9070081420	.00000507	.064	.00015929	.036	.00002794	.049
9070081450	.00000991	.058	.00000283	.070	.00000358	.067
1071081230	.00000954	.058	.00000037	.088	.00001706	.033
1071081290	.00035398	.032	.00003651	.047	.00032440	.033
1071081350	.00110149	.029	.00101514	.029	.00134788	.029
1071081410	.00050563	.044	.00070959	.030	.00027813	.033
2071081270	.00002064	.052	.00004500	.045	.00000320	.068
2071081300	.00017732	.036	.00002548	.050	.00009097	.040
2071081330	.00038922	.032	.00033513	.032	.00032626	.033
2071081360	.00010200	.039	.00048436	.031	.00018828	.035
2071081390	.00001527	.054	.00009127	.040	.00004664	.045
7072081500	.00000961	.065	.00001781	.053		
7072081560	.01198307	.032	.00025176	.038	.00130534	.030
7072081620	.06305486	.041	.03466293	.037	.06137654	.041
7072081680	.02261922	.035	.04927747	.040	.03989205	.038
			.00623964	.030	.00066914	.033

TABLE 6 (cont'd)

I.D.	DOSAGE GM SEC/CM	S.E.	DOSAGE GM SEC/CM	S.E.	DOSAGE GM SEC/CM	S.E.
7072081740	.00007465	.047	.00000551	.063	.00000916	.059
8072081480	.00000283	.070	.00347540	.030	.01234226	.035
8072081540	.00026144	.034	.02402604	.039	.01474120	.036
8072081600	.01653560	.037	.00203401	.029	.00019617	.035
8072081660	.00780642	.033	.00011453	.038	.00068344	.030
9072081520	.00001706	.053	.00217699	.029	.000293180	.029
9072081550	.00129409	.029	.00226550	.029	.00244081	.029
9072081580	.00262164	.029	.00122733	.029	.00030607	.033
9072081610	.00206674	.029	.00001460	.055	.00000283	.070
9072081640	.00013158	.038	.00013895	.037	.00057258	.030
1073081370	.00001939	.052	.00323385	.030	.00322573	.030
1073081430	.00211060	.029	.00107072	.029	.00006643	.040
1073081490	.00184469	.029	.00000320	.068	.00012904	.038
1073081550	.00001028	.058	.00003479	.047	.00094749	.029
2073081380	.00002615	.050	.00046782	.031	.00154406	.029
2073081410	.00037402	.032	.00167206	.029	.00041127	.032
2073081440	.00137098	.029	.00273336	.030	.00007920	.041
2073081470	.00139706	.029	.00012681	.038	.00021967	.035
2073081500	.00024632	.034	.00000358	.067	.00238612	.029
2073081530	.00000738	.061	.00010528	.039	.00512555	.031
1074081090	.00000589	.063	.00161126	.029	.00477090	.031
1074081150	.00088222	.029	.00461705	.031	.00036949	.029
1074081210	.00382870	.030	.00471748	.031	.00008546	.041
1074081270	.00495866	.031	.00246346	.029	.00003375	.048
1074081330	.00401288	.030	.0026427	.034	.00035398	.032
1074081390	.00053331	.031	.00000432	.066	.00201650	.029
1074081450	.00002377	.050	.0001810	.053	.00302747	.030
2074081160	.00000879	.059	.00021458	.035	.00183322	.029
2074081190	.00007063	.042	.00149482	.029	.00085516	.039
2074081220	.00061527	.030	.00289842	.029	.00011109	.039
2074081250	.00248000	.029	.00238590	.029		
2074081280	.00290528	.029	.00078432	.030		
2074081310	.00142999	.029	.00255712	.034		
2074081340	.00054643	.031				

TABLE 6 (contd)

I.D.	DOSEAGE CM SEC/CU.P	S.E.	DOSEAGE CM SEC/CU.M	S.E.	DOSEAGE CM SEC/CU.M	S.E.
2074081370	.00009879	.040	.000006035	.043	.00004970	.045
2074081400	.00001319	.056	.00000283	.070	.00000507	.064
2074081430	.00000432	.066				
7075081360	.00001714	.059	.00003539	.053	.00001192	.063
7075081420	.00001420	.061	.00005029	.050	.00025630	.038
7075081480	.00183702	.029	.00348181	.029	.00485361	.029
7075081540	.01015782	.031	.00830330	.030	.00682160	.030
7075081600	.00857227	.030	.00450924	.029	.00211291	.029
7075081660	.00279211	.029	.00354722	.029	.00500858	.029
7075081720	.00788637	.030	.01257569	.032	.01607701	.033
7075081780	.02162792	.034	.01614504	.033		
8075081420	.00000432	.066	.00000320	.068	.00007987	.041
8075081480	.00076272	.030	.00131719	.029	.00117958	.029
9075081540	.00175528	.029	.00153669	.029	.00193357	.029
8075081600	.00220753	.029	.00171706	.029	.00138462	.029
6075081560	.00093915	.029	.00097367	.029	.00097618	.029
8075081720	.00156775	.029	.00419118	.030	.00719771	.033
8075081780	.00780359	.033	.00613570	.032		
9075081380	.00001639	.054	.00003517	.047	.00007495	.041
9075081410	.00306005	.043	.00007391	.042	.00007361	.042
9075081440	.00008769	.040	.00010297	.039	.00007264	.042
9075081470	.00012428	.038	.00014752	.037	.00018828	.035
9075081500	.00012467	.038	.00025466	.034	.00030763	.033
9075081530	.00036187	.032	.00033051	.033	.00045918	.031
9075081560	.00036523	.032	.00043027	.032	.00041127	.032
9075081590	.00064425	.030	.00077941	.030	.00083894	.029
9075081620	.00082813	.029	.00081703	.029	.00140131	.029
9075081650	.00134007	.029	.00142090	.029	.00094578	.029
9075081680	.00143595	.029	.00158586	.029	.00159174	.029
9075081710	.00151746	.029	.00156298	.029	.00151239	.029
9075081740	.00158131	.029	.00130691	.029	.00096053	.029
9075081770	.00091359	.029	.00086978	.029	.00088982	.029
9075081800	.00081964	.029				
1076081130	.00001527	.054	.00028580	.033	.00065930	.030

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1076081190	.00078902	.030	.00059049	.031	.00033543	.032
1076081250	.00013962	.037	.00032932	.039	.00042873	.031
1076081310	.00057794	.030	.00058182	.030	.00044339	.031
1076081370	.00045978	.031	.00061527	.030	.00046723	.031
1076081430	.00049777	.031	.00033818	.032	.00020742	.035
1076081490	.00017159	.036	.00007756	.041	.00004597	.045
2076081170	.00000283	.070	.00000358	.067	.00003099	.048
2076081200	.00009879	.040	.00014529	.037	.00013128	.038
2076081230	.00019491	.035	.00015423	.037	.00023328	.034
2076081260	.00019364	.035	.00020869	.035	.00025123	.034
2076081290	.00033326	.032	.00047028	.031	.00055984	.030
2076081320	.00044800	.031	.00059336	.030	.00050917	.031
2076081350	.00053927	.032	.00039406	.032	.00038013	.032
2076081380	.00034764	.035	.00031248	.033	.00032164	.033
2076081410	.00021525	.035	.00016544	.036	.00017196	.036
2076081440	.00010103	.046	.00010006	.039	.00007331	.042
2076081470	.00004128	.046	.00004932	.045	.00301100	.029
2076081500	.00003465	.053	.00065610	.033	.03957272	.028
2076081560	.01008175	.031	.02341084	.035	.01224026	.032
2076081600	.02625774	.036	.02492763	.035	.00195324	.029
2076081220	.00763319	.030	.00292093	.029	.00000492	.071
2076081280	.00164419	.029	.00023291	.039	.00045165	.031
2076081340	.00000961	.065	.00002181	.057	.01062751	.034
2076081400	.00000589	.063	.00000807	.040	.00759251	.033
2076081460	.00136353	.029	.00561453	.031	.00164501	.029
2076081520	.01205146	.035	.01222469	.035	.00001669	.053
2076081580	.00392969	.032	.00326738	.030	.00010394	.029
2076081640	.00115432	.029	.00032991	.033	.00025221	.029
2076081700	.00001386	.055	.00003070	.048	.00198998	.029
2076081760	.00023730	.034	.00052109	.031	.00153191	.029
2076081820	.00267387	.029	.00263698	.029	.00020616	.035
2076081880	.00219256	.029	.00127584	.029	.00000916	.059
2076081940	.00108056	.029	.00028461	.033		
2076081000	.000316388	.036	.00016719	.036		

TABLE 6 (cont'd)

I.O.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9077081330	.00500432	.066	.00000432	.066	.00026610	.037
7076081140	.00601192	.063	.00003681	.053	.00634036	.030
7076081200	.01170447	.029	.00362483	.029	.00908568	.031
7076081260	.01281999	.032	.01178294	.032	.01666012	.031
7076081320	.01027467	.031	.00807039	.030	.00013649	.042
7076081380	.00221260	.029	.00082724	.032		
7076081440	.00705446	.049	.00002667	.056		
9076081200	.00005439	.044	.00111848	.029	.00182755	.029
8076081260	.00455650	.031	.00608273	.032	.00810012	.033
8076081320	.00223909	.029	.00113457	.029	.00121161	.029
8076081380	.00070639	.030	.00013418	.038	.00001460	.055
8076081440	.00000954	.058				
9076081230	.00000320	.068	.000004090	.046	.00019237	.035
9076081280	.00026919	.034	.00044115	.031	.00052884	.031
9076081290	.00054672	.031	.00049688	.031	.00040643	.032
9076081320	.00025809	.034	.00023358	.034	.00008933	.040
9076081350	.00004195	.046	.00001460	.055		
1076081410	.00001423	.055	.00046395	.031	.00519969	.031
1076081470	.01717739	.037	.01334746	.036	.00474848	.031
1076081530	.00064157	.030	.00001386	.055	.00000432	.066
2076081450	.00000738	.061	.00007130	.042	.00050709	.031
2076081480	.00159740	.029	.00364063	.030	.00341572	.030
2076081510	.00233859	.029	.00094898	.029	.00022672	.034
2076081540	.00004731	.045	.00000916	.059	.00000700	.061
1080081370	.00000432	.066	.00002064	.052	.00024565	.034
1080081430	.00135161	.029	.00334159	.030	.00466745	.032
1080081490	.00507610	.032	.00398055	.030	.00350170	.030
1080081550	.00027682	.029	.00260182	.029	.00075974	.030
1080081610	.00019081	.035	.00001063	.057	.00000767	.040
1080081670	.00000320	.068				
2080081390	.00002302	.051	.000005305	.044	.00009164	.040
2080081420	.00016153	.036	.00050232	.031	.00130810	.039
2080081450	.00201742	.029	.00108660	.029	.00113267	.029
2080081480	.00093073	.029	.00067317	.030	.00046514	.031

TABLE 6 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2080081510	-00049022	-030	-00076093	-030	-00082053	-029
2080081540	-00044927	-031	-00103302	-029	-00069760	-030
2080081570	-00054613	-031	-00034489	-032	-00014566	-037
2080081600	-00006005	-043	-00006869	-042	-00000805	-060
2080081630	-00001065	-057	-00001885	-052	-00002511	-050
2080081660	-00000700	-061	-00001498	-054	-00000469	-065
2080081690	-00004597	-045	-00003822	-047	-00002235	-051
7081081160	-00000827	-066	-00000574	-070	-00000805	-066
7081081220	-00000887	-066	-00001714	-059	-00004038	-052
7081081280	-00005029	-050	-00022963	-039	-00053354	-034
7081081340	-00115179	-030	-00295646	-029	-00394255	-029
7081081400	-00654496	-032	-01061313	-031	-01612768	-033
7081081460	-02276950	-035	-02922483	-036	-03259353	-037
7081081520	-03513493	-037	-02492757	-035	-01708604	-033
7081081580	-00807367	-030	-00434160	-029	-00231966	-029
7081081640	-0030607	-037	-00001341	-062	-00001706	-053
8081081300	-00000283	-070	-00001498	-054	-00379719	-030
8081081360	-00009552	-040	-00056580	-030	-01269646	-035
8081081420	-00772148	-033	-01120746	-035	-00203684	-029
8081081480	-00876442	-032	-00564791	-031	-00006035	-043
8081081540	-00067994	-030	-00022270	-046	-00003994	-046
8081081600	-00004701	-045	-00004157	-045	-00004768	-045
8081081660	-00005640	-044	-00004463	-045	-00004835	-045
8081081720	-00003651	-047	-00003366	-046	-00014879	-037
8081081780	-00063994	-046	-00005101	-044	-00008151	-041
9081080900	-00020243	-035	-00022985	-034	-00030272	-033
9081080930	-00030488	-033	-00017129	-036	-00016466	-036
9081080960	-00018738	-035	-00016309	-036	-00034243	-032
9081080990	-00021830	-035	-00016466	-036	-00042126	-031
9081081020	-00021368	-035	-00031129	-037	-00044987	-031
9081081050	-00038892	-032	-00015520	-033	-00052974	-031
9081081080	-00033207	-033	-00027932	-032	-00056699	-030
9081081110	-00041038	-032	-00035062	-031		
9081081140	-00037049	-030	-00054225	-031		

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.	DOSAGE GM SEC/CM.M	S.E.
9081081170	.00063688	.030	.00066020	.030	.00052318	.031
9081081200	.00047535	.031	.00047472	.031	.00098281	.029
9081081210	.00123128	.029	.00100155	.029	.00086218	.029
9081081260	.00382344	.024	.00060968	.030	.00048794	.031
9081081290	.00028707	.033	.00018455	.036	.00013545	.031
9081081320	.00010517	.019	.00009812	.040	.00006072	.043
9081081350	.00066765	.042	.00042622	.046	.00002565	.050
9081081360	.00000874	.059	.00000879	.059		
9081081380	.00000469	.065	.00003546	.047	.00013925	.037
9081081390	.00039831	.032	.00061177	.030	.00109234	.029
9081081390	.00116669	.029	.00128016	.029	.00032290	.029
9081081430	.00374223	.030	.00059456	.030	.00041097	.032
9081081490	.00019960	.035	.00025004	.034	.00001848	.053
9081081550	.00000469	.065				
9081081560	.00000767	.060	.00002168	.051	.00000805	.040
9081081290	.00002861	.042	.00004437	.043	.00008702	.040
9081081320	.00014149	.037	.00015989	.036	.00022084	.035
9081081350	.00025339	.034	.00033033	.031	.00058539	.030
9081081380	.00376152	.030	.00055805	.030	.00047018	.030
9081081410	.00058152	.030	.00052229	.031	.00055090	.031
9081081440	.00036947	.032	.00021630	.035	.00011526	.038
9081081470	.00045597	.045	.00002064	.052	.00000395	.046
9081081500	.00000246	.071				
9081081510	.00000663	.062	.00000283	.070	.00000432	.046
9081081570	.00001244	.056	.00004597	.045	.00003268	.044
9081081130	.00008836	.040	.00018328	.036	.00034094	.032
9081081190	.00045285	.031	.00070460	.030	.00050500	.031
9081081250	.00051036	.031	.00047517	.030	.00052169	.031
9081081310	.00029810	.033	.00024907	.034	.00009425	.040
9081081370	.00008740	.040	.00000663	.042		
9081081060	.00000700	.061	.00001952	.032	.00004329	.044
9081081110	.00019364	.035	.00023827	.034	.00021085	.035
9081081140	.00030667	.033	.00027902	.033	.00052020	.031
9081081170	.00048198	.031	.00048764	.031	.00051303	.031

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2083081200	.00081293	.029	.00066310	.030	.00060283	.030
2083081230	.00055596	.031	.00047743	.031	.00039771	.032
2083081260	.00030331	.033	.00020020	.035	.00014216	.037
2083081290	.00010200	.039	.00005066	.044	.00002064	.052
2083081320	.00001989	.052	.00001103	.057	.00001207	.056
2083081350	.00000449	.065				
7084081100	.00008434	.044	.00050411	.034	.00240847	.029
7084081160	.00545815	.029	.01076922	.031	.01933545	.034
7084081220	.01410747	.032	.01689620	.033	.01966335	.034
7084081280	.01494057	.033	.01236528	.032	.00853039	.030
7084081340	.00436470	.029	.00489667	.029	.00399160	.029
7084081400	.00380948	.029	.00174694	.029	.00048839	.034
7084081460	.0009254	.045	.0002161	.057		
8084081100	.00000507	.044	.00000320	.048	.00011168	.039
8084081160	.00063956	.030	.00125386	.029	.00164360	.029
8084081220	.00331335	.030	.00462748	.031	.00625506	.022
8084081280	.00555389	.031	.00385843	.030	.00272162	.029
8084081340	.00154890	.029	.00060104	.030	.00077583	.030
8084081400	.00106528	.029	.00013575	.037	.00002168	.051
8084081460	.00000358	.067				
9084081160	.00000700	.061	.00003546	.047	.00015005	.037
9084081190	.00016116	.036	.00029544	.033	.00037193	.032
9084081220	.00040792	.032	.00048892	.030	.00031953	.033
9084081250	.00029624	.033	.00023305	.033	.00026144	.034
9084081280	.00021175	.035	.00014849	.037	.00008702	.040
9084081310	.00005268	.044	.00003479	.047	.00004865	.045
9084081360	.00002928	.049	.00001261	.056	.00001291	.056
9084081370	.00001460	.055				
1085081370	.00014469	.037	.00032321	.033	.00081792	.029
1085081430	.00072925	.030	.00077292	.030	.00079252	.033
1085081490	.00145011	.029	.00253698	.029	.00156216	.029
1085081550	.00152148	.029	.00136472	.029	.00118412	.029
1085081610	.00023796	.033	.00013418	.036	.00001028	.058
1085081670	.00003358	.067				

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2085081370	.00000395	.064	.00000738	.061	.00001045	.057
2085081400	.00001848	.053	.00001496	.054	.00004865	.045
2085081430	.00016056	.036	.00021242	.035	.00036158	.032
2085081460	.00041701	.032	.00046007	.031	.00037648	.032
2085081490	.00033721	.032	.00037797	.032	.00047256	.030
2085081520	.00043266	.031	.00048168	.031	.00042066	.032
2085081550	.00048257	.031	.00037381	.033	.00007823	.041
2085081580	.00004597	.045	.00005372	.044	.00002861	.049
2085081610	.00022272	.051	.00001602	.054	.00003137	.048
2085081640	.00000589	.063				
2086081000	.000005312	.050	.00080943	.032	.00242293	.029
2086081060	.00207841	.029	.00345163	.029	.00543639	.029
2086081120	.00478061	.029	.00705749	.030	.00398502	.029
2086081180	.00284217	.029	.00269242	.029	.00084676	.032
2086081240	.00154473	.030	.00096068	.031	.00013918	.042
2086081300	.00001267	.062				
2086081020	.00002548	.050	.00054970	.031	.00120960	.029
2086081080	.00178248	.029	.00274003	.029	.00348814	.030
2086081140	.00219032	.029	.00166021	.029	.00196345	.029
2086081200	.00114031	.029	.00028491	.033	.00021711	.035
2086081260	.00003919	.046	.00000589	.063		
2086081000	.00000283	.070	.00000432	.066	.00000170	.057
2086081030	.000002585	.050	.00007391	.042	.00013702	.037
2086081060	.00016026	.036	.00025123	.034	.00060283	.030
2086081090	.00076411	.030	.00095472	.029	.00069012	.029
2086081120	.00106650	.029	.00132859	.029	.00087880	.029
2086081150	.00082202	.029	.00044634	.030	.00034362	.032
2086081180	.00030361	.033	.00017762	.036	.00025772	.034
2086081210	.00003358	.067	.00003956	.046	.00001669	.053
2086081240	.00001319	.056	.00000991	.058	.00000442	.059
2086081270	.00000246	.071				
2087080980	.00003539	.053	.00022113	.039	.00098012	.031
2087081040	.000576384	.029	.00636451	.030	.00730008	.030
2087081100	.00477292	.029	.00430554	.029	.00533894	.029

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7087081160	.00561386	.029	.00389449	.029	.00426465	.029
7087081220	.00142947	.030	.00429764	.029	.00582874	.029
7087081280	.00555269	.029	.00562444	.029	.00501804	.029
7087081340	.00370346	.029	.00160456	.030	.00123464	.030
7087081400	.00113130	.030	.00084735	.032	.00078551	.032
7087081460	.00055037	.033	.00018768	.040	.00011899	.043
7087081520	.00006080	.049	.00001341	.062	.0000730	.067
8087081000	.00006246	.071	.00001669	.053	.00010884	.039
8087081060	.00040159	.032	.00051692	.031	.00147365	.029
8087081120	.00169739	.029	.00084795	.029	.00097185	.029
8087081180	.00076711	.030	.00053272	.031	.00055954	.030
8087081240	.00091739	.029	.00162758	.029	.00174567	.029
8087081300	.00141755	.029	.00116579	.029	.00073895	.030
8087081360	.00045523	.031	.00081673	.029	.00045374	.031
8087081420	.0018701	.035	.00014789	.037	.00010818	.039
8087081480	.0003822	.047	.00001170	.057	.0000589	.063
9087081080	.0000805	.060	.00008933	.040	.00014566	.037
9087081110	.00020176	.035	.00021085	.035	.00025377	.034
9087081140	.00329564	.033	.00035554	.032	.00044294	.031
9087081170	.00037767	.032	.00042096	.032	.00022642	.034
9087081200	.00031650	.033	.00035979	.033	.00033207	.033
9087081230	.00046246	.031	.00046633	.031	.00050679	.031
9087081260	.00059187	.030	.00072725	.030	.00064097	.030
9087081290	.00058509	.030	.00062473	.030	.00075042	.030
9087081320	.00068083	.030	.00073425	.030	.00072986	.030
9087081350	.00083975	.029	.00064723	.030	.00071168	.030
9087081380	.00044592	.031	.00038043	.032	.00037104	.032
9087081410	.00029564	.033	.00029199	.033	.00034302	.032
9087081440	.00032134	.033	.00025034	.034	.00020243	.035
9087081470	.00028953	.033	.00030145	.033	.00018865	.035
9087081500	.00028670	.033	.00023082	.034	.00010133	.039
9087081530	.00006802	.042	.00004932	.045	.00003651	.047
9087081560	.00004292	.046	.00002168	.051	.00002094	.052
9087081590	.00001602	.054	.00000663	.062		

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1080081110	.00001103	.057	.00001922	.052	.00009842	.040
1080081170	.00034429	.032	.00059903	.030	.00100791	.029
1080081230	.00105724	.029	.00082694	.029	.00069901	.030
1080081290	.00119731	.029	.00040948	.032	.00032961	.033
1080081350	.00006936	.042	.00005975	.043	.00004128	.046
2080081130	.00001065	.057	.00000079	.059	.00000432	.066
2080081160	.00002481	.050	.00004835	.045	.00009581	.040
2080081190	.00012681	.038	.00020958	.035	.00026390	.034
2080081220	.00030547	.033	.00053808	.031	.00062682	.030
2080081250	.00077941	.030	.00102811	.029	.00097528	.029
2080081280	.00083134	.029	.00088140	.029	.00088543	.029
2080081310	.00091217	.029	.00076182	.030	.00077233	.030
2080081340	.00067607	.030	.00073455	.030	.00043392	.031
2080081370	.00044897	.031	.00038108	.032	.00027135	.033
2080081400	.00024751	.034	.00008836	.040	.00008017	.041
2080081430	.00003479	.047	.00001706	.053		
1049081350	.00000246	.071	.00001103	.057	.00015482	.037
1089081410	.00071697	.030	.00053391	.031	.00059724	.030
1089081470	.00080012	.030	.00157088	.029	.00112563	.029
1089081530	.00030361	.033	.00021525	.035	.00053808	.031
1089081590	.00047117	.031	.00042483	.031	.00065751	.030
1089081650	.00035189	.032	.00018455	.036	.00004195	.046
1089081710	.00002094	.052	.00000395	.066		
2089081420	.00001810	.053	.00009030	.040	.00011496	.039
2089081450	.00020303	.035	.00020929	.035	.00028245	.035
2089081480	.00027440	.033	.00033021	.033	.00032291	.033
2089081510	.00031926	.033	.00029624	.033	.00022985	.034
2089081540	.00011876	.038	.00017479	.036	.00025094	.034
2089081570	.00019364	.035	.00022516	.034	.00049748	.031
2089081600	.00043027	.031	.00034884	.032	.00031158	.033
2089081630	.00024348	.034	.00011429	.039	.00008836	.040
2089081660	.00004128	.046	.00004224	.046	.00003070	.048
2089081690	.00002302	.051				
7090081220	.000005171	.050	.000002742	.055	.000000961	.048

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7090081280	.00009865	.045	.00037774	.036	.00074685	.032		
7090081340	.00375450	.029	.00499964	.029	.00938974	.031		
7090081400	.01189410	.032	.01811087	.034	.02087370	.034		
7090081460	.00926837	.031	.01042143	.031	.00860602	.030		
7090081520	.00858806	.030	.00731982	.030	.01123771	.031		
7090081580	.01475215	.033	.00915453	.031	.01263380	.032		
7090081640	.00849448	.030	.00758119	.030	.00511192	.029		
7090081700	.00381120	.029	.00180289	.029	.00032023	.036		
8090081300	.00000432	.066	.00010721	.039	.00020713	.035		
8090081360	.00013866	.037	.00098571	.029	.00297807	.030		
8090081420	.00426449	.030	.00420086	.030	.00380121	.030		
8090081480	.00324778	.030	.00308897	.030	.00233829	.029		
8090081540	.00173867	.029	.00299446	.030	.00334211	.030		
8090081600	.00261553	.029	.00254013	.029	.00194505	.029		
8090081660	.00218391	.029	.00148356	.029	.00099145	.029		
8090081720	.00000700	.061	.00000320	.068	.00000991	.058		
8090081780	.00001922	.052						
9090001380	.00000469	.065	.00012904	.038	.00011586	.038		
9090081410	.00014596	.037	.00008576	.041	.00019111	.035		
9090081440	.00025250	.034	.00033848	.032	.00034392	.032		
9090081470	.00030553	.033	.00029683	.033	.00029466	.034		
9090081500	.00015296	.037	.00029899	.033	.00035444	.032		
9090081530	.00034973	.032	.00043631	.031	.00032596	.033		
9090081560	.00024907	.034	.00026889	.034	.00016489	.036		
9090081590	.00019178	.035	.00012167	.038	.00003852	.047		
9090081620	.00009909	.040	.00005104	.044	.00005066	.044		
9090081650	.00005305	.044	.00001885	.052	.00001885	.052		
9090081680	.00001170	.057	.00000738	.061	.00000320	.068		
9090081710	.00000767	.060						
1091081250	.00000954	.058	.00001332	.057	.00002481	.050		
1091081310	.00010975	.039	.00036798	.032	.00084616	.029		
1091081370	.00190116	.029	.00229361	.029	.00294715	.029		
1091081430	.00238836	.029	.00165828	.029	.00056639	.030		
1091081490	.00022054	.035	.00002348	.050	.00002690	.049		

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1091081550	.00000432	.066	.000009358	.040	.00014372	.037
2091081330	.00005037	.044	.00032350	.033	.00051424	.031
2091081360	.00021242	.035	.00096485	.029	.00070401	.030
2091081390	.00077292	.030	.00068083	.030	.00040524	.032
2091081420	.00068083	.030	.00004530	.045	.00004329	.046
2091081450	.00019081	.035	.00000767	.060	.00003718	.047
2091081480	.00001386	.055	.00000320	.068	.00236072	.029
1092081410	.00000246	.071	.0011707	.029	.00504732	.031
1092081470	.00028118	.032	.00424191	.030	.00017732	.036
1092081530	.00469372	.031	.00119559	.029	.00005133	.044
1092081590	.00341654	.030	.00000700	.061	.00049807	.031
1042081650	.00001639	.054	.00025623	.034	.00097327	.029
2042081470	.00000507	.064	.00080302	.030	.00084795	.029
2092081500	.00015900	.036	.00058711	.030	.00017978	.036
2092081530	.00065871	.030	.00041592	.032	.00004463	.045
2092081560	.00069991	.030	.00003032	.048	.00015803	.036
2092081590	.00081122	.029	.00000246	.071	.00097930	.029
2092081620	.00011072	.039	.00004157	.046	.00111043	.029
2092081650	.00000283	.070	.00093937	.029	.00052884	.031
1093081150	.00002615	.050	.00079731	.030	.00000767	.060
1093081210	.00073224	.033	.00004292	.046	.00004128	.046
1093081270	.00147022	.029	.00002585	.050	.00013322	.038
1093081330	.00092201	.029	.0007726	.041	.00045016	.031
1093081390	.0004592	.031	.00036314	.032	.00043511	.031
2093081210	.00000432	.066	.00055596	.031	.00071228	.030
2093081240	.00005469	.044	.00080183	.030	.00044174	.031
2093081270	.00037439	.032	.00051901	.031	.00004396	.045
2093081300	.00056550	.030	.00008412	.041	.00000283	.070
2093081330	.00071019	.030	.00001639	.054	.00008807	.040
2093081360	.00057496	.030	.00000626	.062		
2093081390	.00022054	.035				
2093081420	.00001170	.057				
2093081450	.00000551	.063				
1094081370	.00000469	.065				

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1094081430	.00036858	.032	.00179902	.029	.00365301	.030
1094081490	.00464536	.031	.00199169	.029	.00498444	.031
1094081550	.00356540	.030	.00449024	.031	.00310309	.030
1094081610	.00050023	.031	.00031218	.033	.00003517	.047
2094081420	.00000805	.060	.00000805	.060	.00004023	.046
2094081450	.00019617	.035	.00034057	.032	.00043720	.031
2094081480	.00046216	.031	.00052407	.031	.00071928	.030
2094081510	.00116177	.029	.00090346	.029	.00107534	.029
2094081540	.00103995	.029	.00117294	.029	.00183769	.029
2094081570	.00091188	.029	.00090607	.029	.00056989	.030
2094081600	.00055984	.030	.00044502	.031	.00003919	.046
2094081630	.00006139	.043	.00008054	.041	.00000879	.059
1095081330	.00000589	.063	.00000954	.058	.00008933	.040
1095081390	.00061132	.057	.00000082	.081	.00886057	.032
1095081450	.00101425	.029	.00574842	.032	.00794180	.033
1095081510	.00859655	.033	.01266673	.035	.01259834	.035
1095081570	.01187846	.035	.01088150	.035	.00966512	.034
1095081630	.01209453	.035	.01243412	.035	.00327766	.030
1095081690	.00752285	.033	.00433750	.031	.00016466	.036
1095081750	.00188328	.029	.00074983	.030	.00311315	.030
1095081810	.00001706	.053	.00390455	.030	.00128672	.029
2095081440	.00342607	.030	.00182956	.029	.00040524	.032
2095081470	.00269696	.029	.00117294	.029	.00133082	.029
2095081500	.00160500	.029	.00082694	.029	.00087269	.029
2095081530	.00027135	.033	.00111908	.029	.00013322	.038
2095081560	.00125043	.029	.00028610	.033	.00306810	.029
2095081590	.00047177	.031	.0000551	.063	.01514792	.033
2095081620	.00003271	.048	.00082597	.032	.02891831	.036
7096081000	.00010483	.044	.01055449	.031	.01637951	.033
7096081060	.00737198	.030	.02346516	.035	.00786342	.030
7096081120	.01734972	.033	.02481058	.031	.00096500	.031
7096081180	.02482809	.035	.00091448	.030		
7096081240	.01176044	.032	.00138775	.030		
7096081300	.00201643	.029				

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
7096081360	.00033490	.036	.00011697	.043	.00004321	.061
8076081000	.00000246	.071	.00000320	.068	.00004463	.045
8096081060	.00030451	.033	.00071898	.030	.00199057	.029
8096081120	.00494264	.031	.00784837	.033	.01137719	.035
8096081180	.01486599	.036	.01450658	.036	.01032658	.034
8096081240	.01395173	.036	.01390874	.036	.01483120	.036
8096081300	.01013622	.034	.00546463	.031	.00184551	.029
8096081360	.00129670	.029	.00064905	.030	.00006514	.042
8096081420	.00000132	.057				
9096081110	.00000469	.065	.00050858	.031	.00076622	.030
9096081140	.00103272	.029	.00101514	.029	.00116840	.029
9096081170	.00074014	.030	.00043422	.031	.00007622	.041
9096081200	.00034094	.032	.00035219	.032	.00019334	.035
9096081230	.00012070	.038	.00006571	.042	.00009164	.040
9096081260	.00010441	.039	.00006169	.043	.00002407	.030
9096081290	.00001460	.055	.00000700	.061	.00000432	.066
9096081320	.00003755	.047	.00000082	.081	.00000507	.044
9096081350	.00000626	.062				
9097081060	.00001639	.060	.00058345	.033	.00122383	.010
9097081120	.00423960	.029	.00824004	.030	.01155682	.032
9097081180	.00998564	.031	.01232415	.032	.00898421	.031
9097081240	.01093104	.031	.00793993	.030	.00575438	.029
9097081300	.00511914	.029	.00258677	.029	.00257984	.029
9097081360	.00181876	.029	.00186868	.029	.00136271	.030
9097081420	.00080518	.032	.00042595	.035	.00011228	.044
8097081060	.00000589	.063	.00003822	.047	.00007592	.041
8097081120	.00031039	.033	.00172466	.029	.00331819	.030
8097081180	.00279240	.029	.00224859	.029	.00284098	.029
8097081240	.00267550	.029	.00224277	.029	.00204295	.029
8097081300	.00175551	.029	.00102960	.029	.00043057	.031
8097081360	.00007495	.041	.00016622	.036	.00003718	.047
9097081120	.00001386	.055	.00002481	.050	.00003919	.046
9097081150	.00006303	.043	.00013128	.038	.00015803	.036
9097081180	.00026241	.034	.00041097	.032	.00057079	.030

TABLE 6 (cont'd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9097061210	.00069141	.030	.00077233	.030	.00081964	.029
9097081240	.00078402	.030	.00073925	.030	.00108026	.029
9097081270	.00065513	.030	.00071488	.030	.00074953	.030
9097081300	.00092633	.029	.00107251	.029	.00087060	.029
9097081330	.00097357	.029	.00088051	.029	.00081591	.029
9097081360	.00071399	.030	.00073604	.030	.00045553	.031
9097081390	.00046007	.031	.00023358	.034	.00025526	.034
9097081420	.00013448	.037	.00022858	.034	.00010073	.039
9097081450	.0002548	.050	.00001848	.053	.00000246	.071
9098081220	.00002377	.057	.00008501	.046	.00140801	.030
9098081280	.00543922	.029	.01226649	.032	.01518488	.031
9098081340	.01560070	.033	.01386560	.032	.00913613	.031
9098081400	.00814028	.030	.00860058	.030	.00652127	.030
9098081460	.00394203	.029	.00187345	.029	.00119984	.030
9098081520	.00089929	.031	.00075541	.032	.00033624	.036
9098081580	.00005797	.049	.00002524	.056	.00001937	.058
9098081640	.00001341	.062	.00002526	.056		
8098081220	.00000842	.059	.00003412	.047	.00083275	.029
8098081280	.00089042	.029	.00292502	.029	.00313066	.030
8098081340	.00286557	.029	.00192747	.029	.00156216	.029
8098081400	.00177570	.029	.00153080	.029	.00116348	.029
8098081460	.00074334	.030	.00055596	.031	.00023201	.034
8098081520	.00011720	.038	.00011139	.039	.00004157	.046
8098081580	.00001743	.053	.00001602	.054	.00000589	.063
9098081200	.00000626	.062	.00015169	.037	.00036284	.032
9098081230	.00051662	.031	.00048853	.031	.00059426	.030
9098081260	.00058301	.030	.00059634	.030	.00051245	.031
9098081290	.00056520	.030	.00056043	.030	.00060789	.030
9098081320	.00056192	.030	.00053212	.031	.00046216	.031
9098081350	.00048228	.031	.00041038	.032	.00044048	.031
9098081380	.00026360	.034	.00030793	.033	.00024461	.034
9098081410	.00017948	.036	.00029378	.033	.00049748	.031
9098081440	.00050887	.031	.00041552	.032	.00041969	.032
9098081470	.00043571	.031	.00043452	.031	.00043839	.031

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9098081500	.00044631	.031	.00073805	.030	.00054762	.031
9098081530	.00049904	.031	.00054404	.031	.00061117	.030
9098081560	.00075303	.030	.00067726	.030	.00058569	.030
9098081590	.00056401	.030	.00058509	.030	.00066400	.030
9098081620	.00056371	.030	.00062334	.031	.00035793	.032
9098081650	.00034943	.032	.00024348	.034	.00011720	.038
9098081680	.00017762	.036	.00017665	.036	.00015482	.037
9098081710	.00012584	.038	.00008933	.040	.00004567	.045
9098081740	.0002198	.051	.00001989	.052	.00001498	.044
9098081770	.00001207	.056	.00000767	.060	.00001103	.057
9098081800	.00000767	.060				
9098081830	.00000469	.065	.00003614	.047	.00018261	.036
9098081860	.00024632	.034	.00047624	.031	.00033148	.033
9098081890	.00035092	.032	.00029750	.033	.00024907	.034
9098081920	.00015900	.036	.00032745	.033	.00056989	.030
9098081950	.00022985	.034	.00030823	.033	.00033818	.032
9098081980	.00029474	.033	.00024319	.034	.00009328	.040
9098081450	.00003994	.046				
2099081130	.00000879	.059	.00001848	.053	.00003442	.047
2099081160	.0002346	.050	.00003707	.043	.00008017	.041
2099081190	.00010848	.039	.00014679	.037	.00021487	.035
2099081220	.00022396	.034	.00035033	.032	.00034824	.032
2099081250	.00047565	.031	.00049241	.031	.00050232	.031
2099081280	.00063866	.030	.00067845	.030	.00053897	.031
2099081310	.00050411	.031	.00057824	.030	.00133909	.039
2099081340	.00074014	.030	.00064306	.030	.00063300	.030
2099081370	.00052765	.031	.00040643	.032	.00042245	.031
2099081400	.00055656	.030	.00038372	.032	.00022024	.035
2099081430	.00011459	.039	.00007227	.042	.00005737	.043
2099081460	.00002861	.049	.00003718	.047	.00008088	.040
2099081490	.00008479	.041				
1100081230	.00000738	.061	.00001182	.057	.00000907	.044
1100081260	.00036582	.032	.00037163	.032	.00037827	.032
1100081350	.00012971	.038	.00011556	.038	.00027075	.043

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
1100081410	.00061177	.030	.00046812	.031	.00014663	.037
1100081470	.00007987	.041	.00031952	.052	.00000469	.065
1100081530	.00000916	.059				
1100081270	.00000246	.071	.00001922	.052	.00003755	.047
2100081300	.00000991	.058	.00002198	.051	.00008966	.042
2100081330	.00006735	.042	.00012197	.038	.00012457	.038
2100081360	.00010721	.039	.00012197	.038	.00018441	.036
2100081390	.00022553	.034	.00023387	.034	.00031099	.033
2100081420	.00032015	.033	.00037007	.032	.00026457	.034
2100081450	.00022955	.034	.00026889	.034	.00029683	.033
2100081480	.00017159	.036	.0002861	.049	.00003137	.048
2100081510	.00005037	.044	.00008996	.042	.00008084	.041
2100081540	.00004292	.046	.00002131	.051	.00002027	.052
2100081570	.00002064	.052	.00008345	.041	.00010721	.039
2100081600	.00012361	.038	.00013702	.037	.00017606	.036
2100081630	.00014722	.037	.00013140	.037	.00011720	.038
2100081660	.00014372	.037	.00012837	.038	.00010878	.039
2100081690	.00007950	.041	.00004392	.046	.00001460	.055
7101081000	.00015117	.041	.00049904	.034	.00158563	.030
7101081050	.00382200	.029	.00621915	.030	.00743501	.030
7101081120	.00880936	.031	.00963546	.031	.01040310	.031
7101081180	.00799835	.030	.00712886	.030	.00644705	.030
7101081240	.00290312	.029	.00221550	.029	.00194147	.029
7101081300	.00134058	.030	.00068828	.032	.00022441	.039
7101081360	.00009321	.045	.00000887	.066		
8101081040	.00000700	.061	.00007592	.041	.00053033	.031
8101081100	.00076331	.030	.00116840	.029	.00229679	.029
8101081160	.00193417	.029	.00309981	.030	.00234527	.029
8101081220	.00190675	.029	.00105895	.029	.00056870	.030
8101081280	.00045076	.031	.00026859	.034	.00007987	.041
8101081340	.00002965	.049	.00000283	.070		
9101081110	.00001885	.052	.00004865	.045	.00009455	.040
9101081140	.00021428	.035	.00019990	.035	.00033237	.033
9101081170	.00045553	.031	.00047714	.031	.00043206	.031

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
9101081200	.00038557	.032	.00041244	.032	.00054851	.031
9101081230	.00029929	.033	.00022769	.034	.00017352	.036
9101081250	.00015736	.037	.00009879	.040	.00006936	.042
9101081290	.00006035	.043	.00003137	.048	.00002824	.049
9101081320	.00002965	.049	.00001281	.056	.00000000	.059
7102061280	.00010684	.044	.00009187	.045	.00338435	.029
7102081340	.00592299	.029	.01143731	.031	.01640633	.033
7102081400	.01835547	.034	.02004459	.034	.02199076	.035
7102081460	.01297615	.032	.00987492	.031	.00450641	.029
7102081520	.00078551	.032	.00009187	.045	.00033788	.032
8102081300	.00001132	.057	.00008479	.041	.00322543	.030
8102081360	.00064246	.030	.00254780	.029	.00289738	.029
8102081420	.00251450	.029	.00262983	.029	.00002198	.051
8102081480	.00078052	.030	.00007950	.041	.00002548	.050
8102081540	.00000954	.058	.00000395	.066	.00022054	.035
9102081270	.00000246	.071	.00018441	.036	.00031926	.033
9102081300	.00003956	.046	.00034764	.032	.00009648	.040
9102081330	.00020519	.035	.00040583	.032	.00306517	.030
9102081360	.00027962	.033	.00000589	.063	.00200033	.029
9102081390	.00003919	.046	.00090197	.029	.00001349	.055
1103081390	.00008382	.041	.000142545	.029	.00012851	.038
1103081450	.00549853	.031	.00002302	.051	.00118211	.029
1103081510	.00030853	.033	.00003785	.047	.00049449	.031
2103081380	.00000700	.061	.00053868	.031	.00004798	.045
2103081410	.00021331	.035	.00096825	.029	.00090055	.029
2103081440	.00126272	.029	.00007950	.041	.00796959	.033
2103081470	.00018261	.036	.00000916	.059	.00301495	.030
2103081500	.00001028	.058	.0003651	.047	.00009097	.040
1104081370	.00000246	.071	.00001752	.032	.00000000	.029
1104081430	.00348710	.030	.00046491	.031	.00000000	.029
1104081490	.00658713	.032	.00059664	.030	.00000000	.029
1104081550	.00117123	.029	.00000432	.046	.00000000	.029
1104081610	.00002198	.051	.00027075	.033	.00000000	.029
2104081380	.00005469	.044				

TABLE 8 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
2104081410	.00105061	.029	.00079781	.030	.00111960	.029
2104081440	.00082433	.029	.00125557	.029	.00108540	.029
2104081470	.00088282	.029	.00041366	.032	.00015773	.036
2104081500	.00004433	.045	.00001045	.057		
9104081060	.00000805	.060	.00004530	.045	.00015646	.037
9104081090	.00024229	.034	.00032715	.033	.00040613	.032
9104081120	.00048704	.031	.00066519	.030	.00081792	.029
9104081150	.00069283	.030	.00040248	.032	.00019707	.035
9104081180	.00009648	.040	.00031848	.053	.00000626	.042
9104081210	.00000643	.062				
7105081160	.00001036	.064	.00023958	.038	.00209071	.029
7105081220	.00266068	.029	.01054749	.031	.01890540	.036
7105081280	.02750449	.036	.01763349	.033	.01638949	.033
7105081340	.01460761	.033	.01649693	.033	.01215793	.037
7105081400	.00992574	.031	.00628941	.030	.00303335	.029
7105081460	.00267684	.029	.00140205	.030	.00074066	.032
7105081520	.00012510	.045				
8105081180	.00001706	.053	.00010364	.039	.00051931	.031
8105081240	.00158615	.029	.00274494	.029	.00665062	.032
8105081300	.00829287	.033	.00281215	.029	.00140898	.029
8105081460	.00213432	.029	.00151187	.029	.00099091	.079
8105081420	.00047922	.031	.00023887	.034	.00003956	.046
8105081480	.00000469	.065				
9105081220	.00000417	.046	.00016212	.036	.00044174	.031
9105081250	.00094347	.029	.00088431	.029	.00082552	.029
9105081280	.00057109	.030	.00050858	.031	.00031099	.033
9105081310	.00033177	.033	.00019021	.035	.00010133	.039
9105081340	.00003309	.048	.00000551	.063	.00000358	.067
7106081420	.00004247	.052	.00001714	.059	.00004604	.051
7106081480	.00044622	.035	.00237599	.029	.01264662	.032
7106081540	.02370402	.035	.04352689	.039	.06157465	.041
7106081600	.05494088	.040	.03691815	.038	.01022577	.031
7106081660	.00130117	.030	.00004955	.050		
8106081460	.00000954	.058	.00302272	.051	.00075623	.030

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8106081520	.00477567	.031	.01297757	.036	.01918927	.038
8106081580	.01586087	.037	.01169227	.035	.00385545	.030
8106081640	.00039890	.032	.00007063	.042	.00003755	.047
8106081700	.00304157	.046	.00009783	.040	.00008017	.041
8106081760	.00014313	.037	.00012428	.038	.00009291	.040
8106080900	.00003822	.047	.00002511	.050	.00007428	.042
8106080930	.00005171	.044	.00004463	.045	.00002690	.049
8106080960	.00005469	.044	.00008248	.041	.00011846	.038
8106080990	.00012010	.038	.00013478	.037	.00018515	.036
8106081020	.00013739	.037	.00020400	.035	.00020899	.035
8106081050	.00020519	.035	.00020429	.035	.00018045	.036
8106081080	.00008412	.041	.00009686	.040	.00024199	.034
8106081110	.00026576	.034	.00035003	.032	.00034057	.032
8106081140	.00035889	.032	.00026271	.034	.00031188	.033
8106081170	.00100993	.029	.00035860	.032	.00080012	.030
8106081200	.00015393	.037	.00007495	.041	.00058003	.030
8106081230	.00090808	.029	.00131719	.029	.00133365	.029
8106081260	.00149772	.029	.00128984	.029	.00152595	.029
8106081290	.00150785	.029	.00184551	.029	.00164476	.029
8106081320	.00171594	.029	.00124075	.029	.00150226	.029
8106081350	.00109404	.029	.00149034	.029	.00112534	.029
8106081380	.00041336	.032	.00022955	.034	.00015393	.037
8106081410	.00007458	.041	.00009933	.039	.00004835	.045
8106081440	.00001989	.052	.00001706	.053	.00001423	.055
8106081470	.00001649	.053				
8107081200	.00001341	.062	.00009730	.048	.00020079	.040
8107081260	.00067286	.038	.00092849	.031	.00111484	.031
8107081320	.00191741	.029	.00261277	.029	.00633307	.030
8107081380	.00576325	.029	.00435042	.029	.00590801	.029
8107081440	.000470906	.029	.00332735	.029	.00338547	.029
8107081500	.00275291	.029	.00396491	.029	.00183284	.029
8107081560	.00085413	.031	.00143004	.030	.00223043	.029
8107081620	.00072591	.032	.00006966	.048	.00000803	.044
8107081680	.00000492	.071				

TABLE 6 (contd)

I.D.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.	DOSAGE GM SEC/CU.M	S.E.
8107081280	.00002757	.049	.00004396	.045	.00013702	.037
8107081340	.00013068	.038	.00009716	.040	.00054941	.031
8107081400	.00062093	.030	.00033902	.032	.00049420	.031
8107081460	.00069343	.030	.00054539	.030	.00031769	.033
8107081520	.00036649	.032	.00034638	.032	.00032350	.033
8107081580	.00030823	.033	.00012904	.038	.00003479	.047
8107081640	.00030109	.048	.00000738	.061	.00005268	.044
9107081230	.00000246	.071	.00000626	.062	.00006102	.043
9107081260	.00003308	.048	.00004768	.045	.00014342	.037
9107081290	.00007391	.042	.00011876	.036	.00016719	.036
9107081320	.00012651	.038	.00015609	.037	.00034489	.032
9107081350	.00015452	.037	.00029072	.033	.00000805	.060
9107081380	.00008933	.040	.00001244	.056	.00015326	.037
1107081590	.00000246	.071	.00000826	.062	.01068495	.034
1107081650	.00215448	.029	.00630144	.033	.07008297	.036
1107081710	.02288237	.019	.02574451	.040	.00010073	.039
1107081770	.00527278	.031	.00009177	.029		
1107081810	.00000091	.058	.00000507	.044	.00000991	.058
2107081600	.00000342	.046	.00009716	.040	.00002377	.050
2107081630	.00012651	.038	.00000463	.062	.00001065	.057
2107081660	.00001706	.053	.00008442	.041	.00069819	.030
2107081690	.00000700	.061	.00016242	.036	.00052676	.031
1107081310	.00001781	.053	.00174262	.029	.00217892	.029
1107081370	.00082605	.029	.00108912	.029	.00052229	.031
1107081430	.00188350	.029	.00003661	.047	.00002272	.051
1107081490	.00013158	.038				
1107081550	.00001498	.034	.00013992	.037	.00025220	.034
2107081310	.00001602	.054	.00068404	.030	.00070930	.030
2107081360	.00044451	.031	.00106670	.029	.00129893	.029
2107081390	.00069231	.030	.00069141	.030	.00089112	.030
2107081420	.00114374	.029	.00041336	.032	.00023914	.034
2107081450	.00052735	.031	.00001928	.058	.00001103	.057
2107081480	.000006467	.043				

TABLE 7. Summary of field and laboratory notes for the Dry Gulch experiments. Position denotes arc and azimuth location of sampler.

Run	Position	Note
2	2-1307 2-1309 2-137 2-1369	Low vacuum gauge readings; correction applied from curve of below critical flow rate vs. pressure drop.
2	7-134	Interpolated; low count-no explanation; Interpolated count-20,448, original count-1484.
	8-114	Interpolated; no vacuum relief valve - replaced 1100 hrs.
	8-120	Interpolated; no membrane filter in filter holder.
	8-122	Interpolated; dead engine at 1315 hrs. - out of gas; in ravine.
	8-124	Interpolated; engine not installed.
	8-126	Interpolated; dead engine at 1315 hrs. - out of gas; in ravine.
	9-115	Interpolated; dead engine at 1325; heavy carbon deposit.
	9-123	Interpolated; low count - no explanation; Interpolated count-366, original count-27.
3	7-004	Interpolated; low count - no explanation; Interpolated count-28,260, original count-531.
	7-124	Interpolated; low count - no explanation; Interpolated count-24,102, original count-283.
	8-104	Interpolated; heavy carbon deposit.
	8-124	Interpolated; low count - no explanation; Interpolated count-38,781, original count-5294.
	8-122	Interpolated; heavy carbon deposit; in ravine.
	8-124	Interpolated; engine not installed.
4	2-117	Interpolated; low count - no explanation; Interpolated count-383, original count-8.
5	8-122	Interpolated; heavy smoke deposit; in ravine.
	8-126	Interpolated; heavy carbon deposit; in ravine.
6	2-123	Interpolated; heavy carbon deposit.
7	7-118	Interpolated; dust cap not removed.
	8-110	Interpolated; no flow through filter.
	8-128	Interpolated; low count - no explanation; Interpolated count-2717, original count-667.
	8-122	Interpolated; in ravine; Interpolated count-2000, original count-670.
	8-124	Interpolated; in ravine; Interpolated count-1200, original count-147.
	8-126	Interpolated; in ravine; Interpolated count-700, original count-66.
9	1-173	Extrapolated beyond edge of grid.
	1-175	Extrapolated beyond edge of grid.
10	8-124	Interpolated; in ravine; Interpolated count-1393, original count-222.
	9-100	Extrapolated beyond edge of grid.
13	8-124	Interpolated; in ravine; Interpolated count-1125, original count-337.
17	7-148	Interpolated; low count - no explanation; Interpolated count-2232, original count-71.
	8-122	Interpolated; heavy carbon deposit; in ravine.
	8-124	Interpolated; in ravine; Interpolated count-8110, original count-2771.
	8-144	Interpolated; dead engine - gas valve not opened.
	8-146	Interpolated; dead engine - gas valve not opened.
	8-148	Interpolated; dead engine - gas valve not opened.
	9-124	Interpolated; below critical flow - bad vacuum gauge.
18	7-148	Interpolated; low count - no explanation; Interpolated count-59,718, original count-1027.
	9-124	Interpolated; below critical flow - bad vacuum gauge.

TABLE 7 (contd)

Run	Position	Note
19	1-116	Interpolated; heavy dust deposit.
	1-137	Interpolated; heavy carbon deposit.
	2-099	Interpolated; behind trees; interpolated count-1231, original count-804.
	2-126	Interpolated; heavy dust deposit.
20	2-130	Interpolated; heavy carbon deposit.
	2-151	Interpolated; dead engine - out of gas; heavy carbon deposit.
	2-103	Interpolated; behind trees; interpolated count-1861, original count-518.
	2-108	Interpolated; near tree; surrounded by cyclone fences; interpolated-1287, original count-475.
21	7-148	Interpolated; low count - no explanation; interpolated count-2561, original count-108.
22	7-148	Interpolated; low count - no explanation; interpolated count-7248, original count-229.
24	7-122	Interpolated; moderate carbon deposit; interpolated count-6778, original count-1131.
27	8-129	Interpolated; no flow through filter.
	1-161	Interpolated; clean filter mistakenly brought in from field.
29	9-107	Extrapolated beyond edge of grid.
	9-108	Extrapolated beyond edge of grid.
	9-109	Extrapolated beyond edge of grid.
	2-138	Interpolated; dead engine at 1145; plugged orifice.
34	9-107	Extrapolated beyond edge of grid.
	9-108	Extrapolated beyond edge of grid.
	9-109	Extrapolated beyond edge of grid.
	7-148	Interpolated; low count - no explanation; interpolated count-18,050, original count-538.
41	9-138	Interpolated; in dense trees; interpolated count-295, original count-83.
	8-136	Interpolated; in ravine; interpolated count-3838, original count-606.
43	1-173	Extrapolated beyond edge of grid.
	1-175	Extrapolated beyond edge of grid.
	2-172	Extrapolated beyond edge of grid.
44	2-137	Interpolated; cap not removed.
45	7-182	Extrapolated beyond edge of grid.
46	2-172	Extrapolated beyond edge of grid.
49	7-122	Interpolated; low count - no explanation; interpolated count-24,228, original count-11,956.
51	2-148	Interpolated; low count - no explanation; interpolated count-6076, original count-9.
52	2-158	Interpolated; dead engine.
	2-172	Extrapolated beyond edge of grid.
	3-173	Extrapolated beyond edge of grid.
53	2-127	Interpolated; dead engine - cold at 1750.
54	1-149	Interpolated; filter not changed; found on test 58 - no good.
56	2-157	Interpolated; filter lost.
	8-112	Interpolated; dead engine.
61	9-122	Interpolated; filter lost.
73	2-149	Interpolated; dead engine - cold at 1420.
77	9-130	Interpolated; dead engine - cold, gas tank 3/4 full at 1840.
81	9-100	Interpolated; dead engine.
82	9-101	Interpolated; dead engine.
	1-147	Interpolated; low count - no explanation; interpolated count-1300, original count-58.

TABLE 7 (contd)

<u>Run</u>	<u>Position</u>	<u>Note</u>
86	9-126	Interpolated; low count - no explanation; interpolated count-880, original count-88.
87	8-118	Interpolated; low count - no explanation; interpolated count-2500, original count-8.
88	1-123	Interpolated; dead engine - warm at 1845 - restarted.
89	1-159	Interpolated; dead engine at 2145.
90	8-132	Interpolated; in ravine; interpolated count-320, original count-2.
95	1-179	Extrapolated beyond edge of grid.
	1-181	Extrapolated beyond edge of grid.
96	8-116	Interpolated; filter ruptured.
97	8-118	Interpolated; low count - no explanation; interpolated count-9700, original count-38.
	9-119	Interpolated; in ravine; interpolated count-1300, original count-431.
99	2-141	Interpolated; dead engine - cold at 2105 - restarted.
101	9-119	Interpolated; in ravine; interpolated count-1370, original count-258.
103	2-149	Interpolated; dead engine.
105	8-118	Interpolated; dead engine - bad spark plug - restarted.
106	9-096	Interpolated; dead engine - out of gas, cold at 0028.
107	7-144	Interpolated; dropped filter after test.
108	1-179	Extrapolated beyond edge of grid.
	1-181	Extrapolated beyond edge of grid.
	1-183	Extrapolated beyond edge of grid.

TABLE 8 (contd)

Run	Date	Time (PST)	ARC 1		ARC 2		ARC 7		ARC 8		ARC 9	
			AIE (gm sec m ⁻²)	σ_y (m)	AIE (gm sec m ⁻²)	σ_y (m)	AIE (gm sec m ⁻²)	σ_y (m)	AIE (gm sec m ⁻²)	σ_y (m)	AIE (gm sec m ⁻²)	σ_y (m)
56-D	3- 8-62	1453					3.042	62.1	0.8070	326.7	0.7839	182.4
57-D	3- 9-62	1235	0.3148	118.1	0.2408	215.6	0.6681	68.2	0.5418	377.7	0.3470	231.3
58-D	3- 9-62	1610										
59-D	3-10-62	1010	0.7231	112.5	0.2584	220.5	8.031	102.9	1.742	478.0	0.3417	247.3
61-D	3-12-62	1445					3.189	85.6	0.8418	483.0	0.1383	317.7
62-D	3-12-62	1830	2.502	71.1	1.481	161.2	1.636	122.4	1.580	441.0	0.9046	184.3
63-D	3-13-62	1447										
64-D	3-18-62	1245	0.4139	264.3	0.2435	368.8	8.607	96.6	5.143	464.2	1.761	373.6
65-D	3-19-62	1615										
66-D	3-19-62	1910	8.153	102.0	3.372	390.5	3.621	80.1	1.115	376.0	0.1908	216.4
67-D	3-21-62	1245	0.5861	145.0	0.2870	237.3	4.493	43.0	3.120	168.2	0.8201	131.1
68-D	3-21-62	1610					8.146	87.3	1.728	218.5	2.115	280.3
69-D	3-22-62	1812										
70-D	3-22-62	1812										
71-D	3-23-62	1245	6.4228	133.4	0.2286	228.4	8.875	61.1	4.386	235.4	1.486	191.8
72-D	3-23-62	1940										
73-D	3-24-62	1445	0.8861	112.8	0.8484	338.3	4.068	161.6	2.286	807.3	2.330	678.7
74-D	3-28-62	1305	2.368	226.0	2.128	356.3						
75-D	3-28-62	1830					4.684	58.2	5.283	340.7	1.371	231.4
76-D	3-27-62	1545	0.6417	406.8	0.7706	808.0	2.349	70.8	1.462	292.0	0.3888	201.6
77-D	3-28-62	1830										
78-D	3-28-62	1500	3.340	73.8	1.265	136.4	6.530	82.0	3.791	108.7	1.481	883.1
79-D	3-28-62	1830	2.476	176.3	1.386	812.1						
80-D	5-31-62	1855	0.4321	208.0	0.6407	374.7	4.308	95.8	1.684	138.2	0.3400	303.2
81-D	6- 1-62	1843	0.3895	232.0	0.7591	453.6	2.168	84.0	0.9017	116.8	0.8328	284.2
82-D	6- 4-62	1510					3.887	168.4	0.8288	368.6	1.608	847.4
83-D	6- 5-62	1915	1.014	241.4	0.8787	432.3						
84-D	6- 5-62	1830										
85-D	6- 6-62	1635					8.638	149.7	2.563	236.1	0.4783	817.7
86-D	6- 7-62	1055										
87-D	6- 7-62	1601	0.8424	185.2	1.322	526.8	2.168	84.0	0.9017	116.8	0.8328	284.2
88-D	6- 8-62	1901	0.7001	303.7	0.6788	628.8	3.887	168.4	0.8288	368.6	1.608	847.4
89-D	6- 8-62	1904										
90-D	6- 8-62	1920										
91-D	6-11-62	1620	1.080	151.0	0.3883	370.8	8.147	89.9	8.785	151.4	0.3887	307.0
92-D	6-11-62	2016	1.852	121.4	0.6889	297.5	2.836	106.7	1.237	151.2	1.447	642.3
93-D	6-12-62	1618	0.7704	216.5	0.7138	381.6	3.138	88.4	1.071	151.4	1.682	1153.8
94-D	6-12-62	2035	2.388	187.8	1.324	403.7						
95-D	6-18-62	1815	10.12	284.0	2.674	467.7						
96-D	6-20-62	1830										
97-D	6-21-62	1900										
98-D	6-21-62	2035	0.3836	352.3	1.214	628.8						
99-D	6-22-62	1717	0.2383	229.4	0.5323	1070.7	2.269	84.4	0.8693	131.8	0.8228	235.0
100-D	6-22-62	2008					2.738	66.4	0.5283	83.0	0.1784	189.3
101-D	6-23-62	1600										
102-D	6-23-62	1945										
103-D	6-25-62	1725	1.069	98.8	0.5087	176.0	4.872	91.0	1.549	117.5	0.1362	207.4
104-D	6-25-62	2015	2.782	144.2	0.8683	261.0	7.376	47.2	2.843	85.4	0.4402	286.7
105-D	6-26-62	1745					1.644	126.8	0.2824	192.6	0.1364	280.3
106-D	6-26-62	2100										
107-D	6-28-62	1730										
108-D	6-28-62	2032	7.732	118.5	0.1075	322.3						
109-D	6-28-62	1550	0.7340	161.0	0.6866	312.4						

TABLE 9. Total amount of tracer generated, Q, in kilograms, identified by run, number, date and time the 30-min emission period began for Dry Gulch

<u>Run</u>	<u>Q(kg)</u>	<u>Date</u>	<u>Time Release Began (PST)</u>
1	1.18	6-12-61	1215
2	2.60	6-14-61	1045
3	2.52	6-15-61	0800
4	1.60	6-16-61	0955
5	1.26	6-20-61	1905
6	1.19	6-21-61	1857
7	1.20	6-22-61	1905
8	2.30	6-23-61	1505
9	1.20	6-23-61	1830
10	1.22	6-24-61	1905
11	1.74	6-26-61	1500
12	1.19	6-26-61	1830
13	1.76	6-27-61	1450
14	1.10	6-27-61	1928
15	1.76	6-28-61	1506
16	1.20	6-28-61	2000
17	2.12	6-29-61	1617
18	1.16	6-29-61	2025
19	1.30	6-30-61	1946
20	2.40	7-01-61	1606
21	2.20	7-05-61	0945
22	2.32	7-06-61	0742
23	2.55	7-06-61	1230
24	1.82	7-07-61	0808
25	2.40	7-07-61	1147
26	1.91	7-08-61	0917
27	1.94	7-10-61	0845
28	1.74	7-11-61	0935
29	1.96	7-13-61	1100
30	2.32	7-17-61	1100
31	1.74	7-18-61	1104
32	2.40	7-19-61	0903
33	1.82	7-19-61	1230
34	1.82	7-20-61	0915
35	2.44	7-21-61	0900
36	1.87	7-24-61	1600
37	1.35	7-24-61	1935
38	1.88	7-25-61	1510
39	1.35	7-25-61	1930
40	2.67	7-26-61	1522
41	1.25	7-26-61	1930
42	2.49	7-27-61	1530
43	1.30	7-27-61	1950
44	2.52	7-28-61	1515
45	1.28	7-28-61	1955
46	1.36	7-29-61	1930
47	2.64	7-31-61	1535
48	1.27	7-31-61	1905
49	2.40	8-01-61	1530
50	1.23	8-01-61	1925
51	2.40	8-02-61	1925
52	2.46	8-03-61	1937
53	2.11	2-05-62	1645
54	3.04	2-06-62	1415
55	2.73	3-07-62	1622
56	3.33	3-08-62	1455
57	2.78	3-09-62	1235

TABLE 9 (contd)

<u>Run</u>	<u>Q(kg)</u>	<u>Date</u>	<u>Time Release Began (PST)</u>
58	2.90	5-09-62	1610
59	3.06	3-10-62	1910
60	3.11	5-10-62	1355
61	3.22	3-12-62	1445
62	2.33	3-12-62	1830
63	3.22	3-13-62	1447
64	2.73	3-19-62	1245
65	2.49	3-19-62	1645
66	2.21	3-19-62	1940
67	2.78	3-21-62	1245
68	2.60	3-21-62	1610
69	2.03	3-21-62	1912
70	1.48	3-22-62	1850
71	2.78	3-23-62	1245
72	2.49	3-23-62	1940
73	2.81	3-24-62	1445
74	2.70	3-26-62	1305
75	1.72	3-26-62	1850
76	2.03	3-27-62	1545
77	2.01	3-28-62	1630
78	2.49	3-29-62	1500
79	2.75	3-29-62	1850
80	1.83	3-31-62	1855
81	2.07	6-01-62	1943
82	2.24	6-04-62	1540
83	2.16	6-05-62	1250
84	1.70	6-05-62	1915
85	1.73	6-06-62	1830
86	2.39	6-07-62	1635
87	1.34	6-07-62	1955
88	2.49	6-08-62	1501
89	1.87	6-08-62	1906
90	1.87	6-09-62	1930
91	2.59	6-11-62	1650
92	1.93	6-11-62	2045
93	2.27	6-12-62	1843
94	2.68	6-12-62	2035
95	2.70	6-18-62	1915
96	2.87	6-20-62	1850
97	2.17	6-21-62	1800
98	2.03	6-21-62	2035
99	2.54	6-22-62	1717
100	2.05	6-22-62	2008
101	2.89	6-23-62	1600
102	1.90	6-23-62	1945
103	2.43	6-25-62	1725
104	2.19	6-25-62	2010
105	2.81	6-26-62	1745
106	2.03	6-28-62	2100
107	2.05	6-28-62	1730
108	1.93	6-28-62	2032
109	2.84	6-29-62	1550

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III. Ocean Breeze and Dry Gulch Meteorological Data

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1. STANDARD DEVIATIONS OF THE AZIMUTH FLUCTUATIONS

The wind direction traces on the Type M strip charts were read at 2-sec intervals on a Gerber Automatic Chart Reader, No. GDDRS-3, and were digitized on cards by Research Calculations, Inc. These data cards were used as input for an IBM 650 program to compute the standard deviations, $\sigma(\theta_g)$ of azimuth fluctuations, θ_k . Strip chart readings were made only every 2 sec because the type M vanes are relatively slow response instruments. Turbulent eddies of less than a 2-sec duration made practically no contribution to the $\sigma(\theta_g)$. It has been concluded by Hay and Pasquill¹ that the crosswind spread of particles from a continuous point source could be reliably computed from smoothed azimuth fluctuation data. They indicated that these data should be smoothed by using a running mean averaging period of approximately one quarter of the mean downwind travel time of the released particles out to a selected distance. For the diffusion prediction equations developed at a later date, however, the running mean averaging period chosen for

Ocean Breeze and Dry Gulch was 16 seconds. A description of the development of these $\sigma(\bar{\Theta}_s)$ may be found in Chapter I of Volume II.

Here, the smoothed $\sigma(\bar{\Theta}_s)$ are listed. The results using various non-overlapping averaging periods are also listed since these were easily computed in the same computer program. The variable subscript s indicates the time span, in seconds, of the variates, $(\bar{\Theta}_s)_i$, used in each $\sigma(\bar{\Theta}_s)$ computation. $s = 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 1536, 2048, 2560$.

The first 30 min of each wind direction record that was read coincided with the tracer emission period. For most of the experiments, another 18 min were read to take into account a rough indication of downwind mean travel time. Therefore, a sample size of 1440 data points was used for most of the computations for $\sigma(\bar{\Theta}_s)$.

$$\sigma(\bar{\Theta}_s) = \left\{ \frac{1}{n_s - 1} \left[\sum_{i=1}^{n_s} (\bar{\Theta}_s)_i^2 - \frac{1}{n_s} \left(\sum_{i=1}^{n_s} (\bar{\Theta}_s)_i \right)^2 \right] \right\}^{1/2} \quad (1)$$

For the nonoverlapping means,

$$(\bar{\Theta}_s)_i = \frac{2}{s} \sum_{k=(i-1)s/2+1}^{is/2} \Theta_k \quad i = 1, 2, \dots, n_s \quad (2)$$

$$\text{where } n_s = \left\lfloor \frac{N}{s/2} \right\rfloor$$

For the overlapping means,

$$(\bar{\Theta}_s)_i = \frac{2}{s} \sum_{k=i}^{is/2-1} \Theta_k \quad i = 1, 2, \dots, n_s \quad (3)$$

$$\text{where } n_s = N - s/2 + 1$$

Table I presents these standard deviations for all Ocean Breeze diffusion runs except run 76 (type M chart lost enroute). Word one of the output is an identification word. A one in Column 1 indicates the location, AMR. The next four columns are the date block: month and day. A five, six, or seven in Column 6 indicates the first, second, or third experiment, respectively, of the same day. Column 7 contains a 1 or 2; a year code. The last three columns indicate the number of minutes of recording that were read, and were programmed to establish the upper limits of n_s for the nonoverlapping smoothings as follows:

Column 8, 9, 10	Time (min)	Maximum s (sec)
038	13-17	64
098	18-26	64
889	27-34	128
989	35-43	128
099	44-48	128

The next eight to eleven ten-digit words contain the nonoverlapping means used in the longest nonoverlapping sigma computation, that is, that with the largest s . These means are rounded off to the nearest whole degree and are packed two to a word with four zeros separating each pair.

The following two lines are the nonoverlapping variance and standard deviation for each value of s . Thus, the first of these lines shows $\sigma(\theta_2)^2$, $\sigma(\theta_2)$, $\sigma(\theta_4)^2$, $\sigma(\theta_4)$, $\sigma(\theta_8)^2$, $\sigma(\theta_8)$, $\sigma(\theta_{16})^2$, $\sigma(\theta_{16})$. The $\sigma(\theta_2)$ is unsmoothed since each variate is a 2-sec reading. Both $\sigma(\theta_2)^2$ and $\sigma(\theta_2)$ are repeated at the beginning of the overlapping output that follows the nonoverlapping output.

All the sigma tabulations are in floating point format with the last two digits of each word representing the machine exponent, m . Each number is, therefore, equal to the eight-digit digitand multiplied by ten raised to the $(m-50)$ power. The decimal point of the digitand is always located immediately to the left of the extreme left digit. The final one word line of output, (found mainly in Phase II and III of the Ocean Breeze runs), is the mean wind direction, $\frac{1}{N} \sum_{i=1}^N (\theta_2)_i$, and is also in floating point.

Table 2 lists the Dry Gulch results. The data were reduced and processed in the same manner as the Ocean Breeze data. A two in Column 1 of the identification word indicates the D course at Vandenberg, and a three, the B course.

Missing data for high values of s in the Dry Gulch experiments are due to dropping of the tens position of the eight-digit digitand when the machine exponent exceeded 58. This occurred in the $\sum (\theta_8)_i^2$ when the θ_8 were large fourth quadrant values, and s was greater than 1536. Using Eq. (1), a negative result was produced, but, of course, this was set to zero in the output.

At a later date, all the Type M charts for both Ocean Breeze and Dry Gulch were reread at 10-sec intervals for the 30-min emission period. The unsmoothed sigmas, $\sigma(\theta_{10})$, were computed on a Packard Bell 250 computer using a program which also processed nondiffusion Ocean Breeze and Dry Gulch runs in the same way the diffusion runs were processed on the IBM 550.

2. AZIMUTH FREQUENCY DISTRIBUTIONS

Frequency distributions of the 2-sec and 10-sec azimuth readings were compared by constructing histograms of the 2-sec data using 10° class intervals. Frequency polygons of the 10-sec data were then superimposed on the 2-sec histograms. In each of these graphical representations, the frequency polygon conformed very closely to the corresponding histogram. These comparisons are not shown here. However, a scatter diagram of $\sigma(\theta_2)$ vs $\sigma(\theta_{10})$ is presented in Figure 1 for Ocean Breeze, and Figure 2 for Dry Gulch. For comparison purposes these data are presented in Tables 3 and 4 respectively.

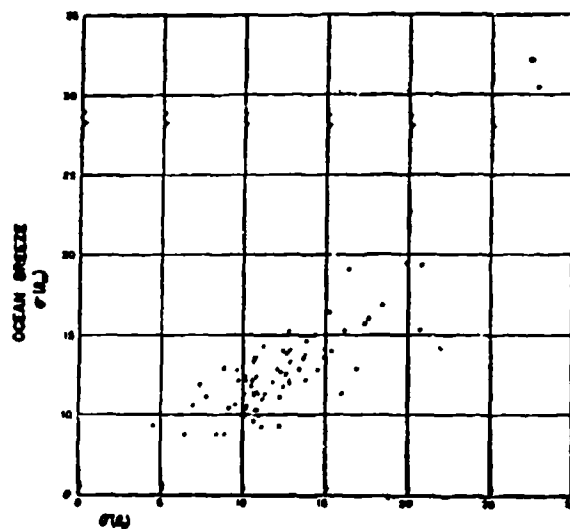
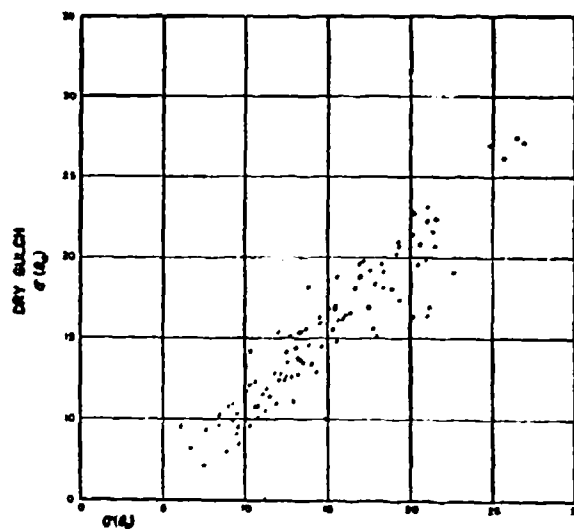
3. TEMPERATURE DIFFERENCES AND WIND SPEED DATA

The ΔT 's for all Ocean Breeze runs were computed from three wiresonde temperature measurements taken at intervals of 50 ft to a height of 500 ft for each ascent and descent of the captive balloon. These temperature differences are tabulated in Table 5 in degrees centigrade. The letter m denotes missing data. No wiresonde data were available for runs 54, 60, 63, 64, 72, and 74. Therefore, ΔT 's listed for these runs were obtained from WIND System printouts.

Temperature differences for Dry Gulch experiments were initially obtained by wiresonde instruments mounted on an Atlas Gantry, and after Experiment 20, by wiresondes, for the first series of experiments. For the second and third series, measurements of temperature differences between 6 ft and 54 ft were recorded from shielded thermocouple junctions, and these, as well as the wiresondes, were used. Throughout the second series of experiments, ΔT_{54-6} 's were also obtained from Rustrak recordings of 6-junction thermopiles mounted in Beckman-Whitley aspirated shields. The ΔT 's for all the Dry Gulch experiments are found in Table 6 in degrees centigrade.

The 'gantrysonde' readings are listed under Column 1 of ΔT data where the difference was taken from 50 ft to roughly 6 feet. In Column 2 are found the readings that were estimated from rawinsonde data taken at nearby Point Arguello because no 'gantrysondes' were available for these runs. All wiresonde data available for Experiments 30B through 109B are listed in Column 3 of the ΔT data. These readings are from 50 ft to about 6 feet. The next column of the ΔT listings shows measurements recorded from the shielded thermocouple junctions erected on the B course referred to as Mod II site. The last column is a tabulation of the Rustrak recordings from the 6-junction thermopiles located near the D course source point.

The wind speed data for all Ocean Breeze and Dry Gulch experiments were read from the strip chart recordings of the Belfort Instrument Company's Type M

Figure 1. $\sigma(\theta_2)$ vs $\sigma(\theta_{10})$ for Ocean BreezeFigure 2. $\sigma(\theta_2)$ vs $\sigma(\theta_{10})$ for Dry Gulch

anemometer and are tabulated together with the ΔT 's in the aforementioned tables. These $\bar{U}$ data are in tenths of meters per second.

4. RAWINSONDE DATA

Rawinsonde data collected from Cape Canaveral by Pan American Airways are tabulated for the three experimental phases of Ocean Breeze in Table 7. If an observation was not taken during the two hours before, during the pigment generation period, or during the 60 min following the generation shut off, then the two closest observations are given, if available. The time to the right of the data is the starting time of the experiment; the time in parentheses on the next line is that of the rawinsonde observation. No observations were available that coincided with Experiments 24, 41, 42, 43, and 44.

Values of pressure, height, temperature and relative humidity are given for significant and mandatory levels. The pressure is given in whole millibars, the height in meters above the ground, the temperature in degrees centigrade, and the relative humidity in per cent.

The values for the winds are given for the standard heights. The height is given in meters above the ground, the direction in whole degrees, and the speed in meters per second. Calm wind conditions are denoted by c.

Table 8 presents the rawinsonde observations for Dry Gulch made by the U. S. Weather Bureau's Point Arguello rawinsonde station. No observations were available for Experiments 20-B, 49-D, 50-B, and 102-D. All values are given in the same units as the Ocean Breeze observations.

References

1. J. S. HAY and F. PASQUILL, 1959: Diffusion from a Continuous Source in Relation to the Spectrum and Scale of Turbulence. Adv. in Geophysics, Vol. 6, pp. 345-365.

[illegible]

TABLE 1 (contd)

BREEZE	1170000114	1180000117	1190000119	1190000128	1180000124
/ OCEAN	1300000132	1300000136	1300000138	1300000138	1300000138
1051953109	1320000130	1320000134	1320000136	1320000138	1320000138
1474764253	1101674383	1049811882	9949933182	9949933182	9949933182
7034811582	8716772351	71165664382	8403259051	8403259051	8403259051
1216033352	1078943953	10382577952	9332590362	9332590362	9332590362
8771112501	7119431852	6455431551	6721439082	6182304152	7862449281
75225254051	3015732852	8491549051	1508504082	9497114481	2380862181
7822244050					
BREEZE	0520000047	0830000057	0830000058	0810000083	0420000084
/ OCEAN	0610000056	0830000059	0830000068	0830000083	0830000084
1082411099	0570000085	0570000085	0570000085	0570000085	0570000085
1180518463	1084549032	7037552252	4301901281	4301901281	4301901281
2480335962	4905330151	1050440952	4301901281	4301901281	4301901281
11180740065	10465449052	7019005352	8376420051	1445204082	3001565081
2506623452	5065623051	2018505352	4492844751	4507214952	6772998051
4995354751	2450220051	1000107851	10000033951	1513084152	3890817151
1252500049	1457730050			6075802960	7704801550
BREEZE	0960000104	1020000100	0990000099	0990000104	1120000114
/ OCEAN	1150000121	1180000122	1220030117	1220030117	1220030117
1160000121	1180000122	1180000122	1180000122	1180000122	1180000122
14574025252	1275454952	1178454952	1085566652	9795392052	9795392052
9474052052	9013666551	9013666551	9013666551	9013666551	9013666551
1427025753	1278549252	1185340853	1048733652	9415484252	9009373351
8137711072	4050920051	7510575352	6666666551	66734352	8291179351
5750035452	750364551	3623060352	6019196551	1849577652	5297182151
8250000050	6184658550				
1105933353					
BREEZE	0100000010	0970000008	0130000017	0170000016	0160000021
/ OCEAN	0230000023	0260000027	0270000030	0270000030	0270000030
0210000030	0230000023	0260000027	0270000030	0270000030	0270000030
1192102053	1091834352	8724175552	9340335551	9340335551	9340335551
5494109052	4951890952	7056647551	4001123352	9229014051	9229014051
1192102053	1091834352	8724175552	9340335551	9340335551	9340335551
3305540452	7336630851	4863198252	6973408351	4447227652	6666753351
5035110551	1875252352	4330408351	1009741182	3177642051	3730204051
5039937550	7099231550				
1039300053					

TABLE 1 (contd)

/ OCEAN	BRLZE	RUN NO.	IC	018000017	0220000025	0290000028	0260000022
1052961099	0150000013	0140000013	10	0120000014	0220000025	0290000028	0260000022
0210000023	0130000028	0270000029	0250000023	0250000023	0270000029	0290000028	0260000022
9006437152	9400225051	6250482652	7905495551	4825339852	6946665551	1179733352	6465086051
3719073352	6090422051	3437827352	5663299051	3423778252	5851304551	4032567752	6350250051
5006437152	9400225051	6048771252	7773845551	4696495182	6853098051	2079269552	8349097551
3675187552	6062332551	3420236552	5648279051	3268510952	5717089051	2455817351	1567104851
2566670652	5066232051	1169740352	3449261351	3461517951	2379394551		
1237687550	3518078350						
2134600052							
/ OCEAN	BRLZE	RUN NO.	11	0300000026	0400000039	0390000042	0500000048
1053151889	0360000026	0340000033	0340000029	0300000026	0400000039	0390000042	0500000048
1265225553	1125133652	9676777352	9637061051	8129294652	9016260051	7143778852	8452088551
6175180052	7058231551	5323713552	7294321551	4641651552	6739333551	6948800452	8335944551
1265425553	1125133652	9551046452	9772945551	8002622852	8943738051	3130764252	8595323551
6121432752	7843961051	5131797252	7163656551	4037794952	6354368051		
1802135152	4245156251	4065463751	2016306651	4684485550	6844592550		
3683173052							
/ OCEAN	BRLZE	RUN NO.	12	0970000080	0970000089	0910000095	1000000082
1060551099	0900000083	0950000095	0930000093	0970000080	0970000089	0910000095	1000000082
1050000094	0970000092	0900000088	0890000086	1058946853	1029002852	8889608952	9428474351
1882049253	1372169552	1295545253	1130220352	2870714352	5357904551		
7114359652	8434666551	4767545552	6904741551	1063572483	1031296552	2709986052	9332726551
1882849253	1372169552	1336516053	1152077952	2753706452	5247577651	1044339352	2242404051
6837429852	8264875551	4674360852	6836929551	3649643950	6057756950	2139423150	4625389850
4111486551	2057680151	6312500050	7945124550				
2187500049	1479020050						
/ OCEAN	BRLZE	RUN NO.	13	0610000084	0660000083	0260000066	0760000063
1060851099	0580000061	0550000059	0420000055	0610000084	0660000083	0260000066	0760000063
0690000071	0700000063	0680000066	0630000066	8854930482	9410064051	7175815652	8471018551
1581196753	1257454552	1130171153	1040890452	3186593852	5644993851	6987150852	8358918051
5830427052	7635723551	4284068252	6545279551	8671371952	9312020051	2338269852	4833664051
1381196753	1257454552	1085789353	1042012352	3161598852	5422280951	4925486850	7018177050
5343335752	7445358051	4283833552	6545101551	3907440851	1976724751		
1746738252	4177006451	1150323352	3486331951				
3800000049	1949358950						
/ OCEAN	BRLZE	RUN NO.	14	0500000084	0530000080	0440000083	0440000083
1060681099	0510000055	0470000050	0520000052	0500000084	0530000080	0440000083	0440000083
0500000051	0520000056	0530000056	0540000058	6030933952	7765910051	3934782182	6272784051
1646690853	1283274552	9655952752	9826471051	1378769852	7307073551	3929783552	8268798551
2991618052	5469566551	9286908252	4817015351	5684498652	7539951551	9868140251	3141389051
1646690853	1283274552	9286908252	9637698051	1469338752	3633195451	3973857750	6303614050
2811439652	5302301051	2357566852	4535489951	4357142850	6600864050		
6816636551	2618669351	1895474151	1376762251				
3731250049	1905893950						

TABLE 1 (contd)

/ OCEAN	BREEZE	RUN NO.	15	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	16	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	17	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	18	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	19	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	20	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	21	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	22	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	23	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	24	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	25	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	26	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	27	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	28	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	29	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	30	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	31	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	32	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	33	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	34	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	35	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	36	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	37	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	38	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	39	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	40	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	41	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	42	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	43	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	44	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	45	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	46	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	47	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	48	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	49	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	50	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	51	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	52	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	53	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	54	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	55	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	56	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	57	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	58	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	59	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	60	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	61	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	62	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	63	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	64	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	65	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	66	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	67	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	68	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	69	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	70	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	71	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	72	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	73	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	74	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	75	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	76	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	77	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	78	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	79	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	80	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	81	0820000083	0840000076	0830000087	0920000093	0970000100
/ OCEAN	BREEZE	RUN NO.	82	0820000083	0840000076	0830000087	0920000093	0970000100

[illegible]

TABLE 1 (contd)

[illegible]

TABLE 1 (contd)

/ OCEAN	BREEZE	RUN NO. 33	0050000007	0030000006	0090000009	0090000013	0110000012	0080000008
			1012072889	0070000007	0030000006	0090000009	0110000012	0080000008
			1260730153	0845557052	0030000006	0090000009	0110000012	0080000008
			1159818202	0677777851	0815384851	0090000009	0110000012	0080000008
			1260730153	0811048052	0865500051	0090000009	0110000012	0080000008
			1176700000	0041874751	0865500051	0090000009	0110000012	0080000008
			4414500000	1152061951	0865500051	0090000009	0110000012	0080000008
			8165000000	1073301151	0865500051	0090000009	0110000012	0080000008
			1012520099	1040000109	0865500051	0090000009	0110000012	0080000008
			1120000111	1130000116	0865500051	0090000009	0110000012	0080000008
/ OCEAN	BREEZE	RUN NO. 34	1012520099	1040000109	0865500051	0090000009	0110000012	0080000008
			1120000111	1130000116	0865500051	0090000009	0110000012	0080000008
			1593000153	1262414452	0865500051	0090000009	0110000012	0080000008
			1532071052	0914800051	0865500051	0090000009	0110000012	0080000008
			1593000153	1262414452	0865500051	0090000009	0110000012	0080000008
			1426053452	3776312251	0865500051	0090000009	0110000012	0080000008
			3564189251	1687906151	0865500051	0090000009	0110000012	0080000008
			1075000050	3278719350	0865500051	0090000009	0110000012	0080000008
			1127616753	1040000109	0865500051	0090000009	0110000012	0080000008
			1012262099	1050000109	0865500051	0090000009	0110000012	0080000008
/ OCEAN	BREEZE	RUN NO. 35	1012262099	1050000109	0865500051	0090000009	0110000012	0080000008
			1010000105	1591278052	0865500051	0090000009	0110000012	0080000008
			2532168253	1481304852	0865500051	0090000009	0110000012	0080000008
			1944230053	1591278052	0865500051	0090000009	0110000012	0080000008
			2532168253	1591278052	0865500051	0090000009	0110000012	0080000008
			1527696053	1266000052	0865500051	0090000009	0110000012	0080000008
			1000054453	1000202752	0865500051	0090000009	0110000012	0080000008
			4731250050	6878408550	0865500051	0090000009	0110000012	0080000008
			1003913353	1040000142	0865500051	0090000009	0110000012	0080000008
			1012352099	1360000139	0865500051	0090000009	0110000012	0080000008
/ OCEAN	BREEZE	RUN NO. 36	1012352099	1360000139	0865500051	0090000009	0110000012	0080000008
			1320000140	1626827352	0865500051	0090000009	0110000012	0080000008
			2646567153	1268234952	0865500051	0090000009	0110000012	0080000008
			1459831553	1626827352	0865500051	0090000009	0110000012	0080000008
			2646567153	1626827352	0865500051	0090000009	0110000012	0080000008
			1455531153	1206379452	0865500051	0090000009	0110000012	0080000008
			9973702052	9966842551	0865500051	0090000009	0110000012	0080000008
			4312500049	2076656050	0865500051	0090000009	0110000012	0080000008
			1329910053	1040000142	0865500051	0090000009	0110000012	0080000008
			1012352099	1360000139	0865500051	0090000009	0110000012	0080000008

TABLE 1 (cont'd)

/ OCEAN	BREEZE	RUN NO. 37	1180000119	1290000132	1340000124	1250000141	1270000131
	1012362099	1050000112	1130000117	1440000136	1422289152	1314239652	1240409052
	1390000126	1260000129	1310000136	1422289152	1314239652	1338614353	1240409052
	2604086253	1613718252	20222906853	1727646753	1314239652	1338614353	1240409052
	1344516953	1176655052	1321518253	1149573152	1162238153	1298401752	1207030352
	2604086253	1613718252	2011710753	1418347952	16860028153	1456941353	1207030352
	122879253	1132642652	1123934753	1060157952	9376671552	7142759152	8451484551
	4297381852	6555442051	1734590552	4164641651	8431547051	5919471281	243290481
	1458750051	1207787351					
	129700053						
/ OCEAN	BREEZE	RUN NO. 38	1530000155	1560000157	1580000159	1660000107	1660000102
	1012452099	1520000154	1510000149	1630000164	1042937852	6267318452	7016639551
	1680000167	1640000159	1620000164	1042937852	6196957051	6102164852	7811639851
	1607477453	1267863352	1087719153	1042937852	6196957051	6102164852	7811639851
	4732696652	6379459551	3840227352	1039013052	8004317352	2885823252	5371904051
	1607477453	1267863352	1079548053	1039013052	3227325852	1552884851	1246147951
	4720856752	6870849051	3761789852	6133343051	5944940951		
	2349493252	4847157151	1465301752	3827925051			
	1637500050	4046633550					
	1596040053						
/ OCEAN	BREEZE	RUN NO. 39	0340000038	0390000041	0390000040	0340000033	0290000029
	1012552099	0650000060	0530000041	0280000035	1541849653	1454080453	1206884652
	0250000024	0250000025	0220000024	1300169652	1319591453	1148724752	1193371252
	173018853	1339036552	1690440953	1156223652	1297309552	1424134853	1193371252
	1385469753	1177059852	1336853053	1297309552	1530186153	8958452752	9464919551
	173018853	1339036552	1683011953	1112063952	1098402453	6163653851	2480659951
	1344970553	1155409352	1236686153	6094180051	1791184552		
	573708452	7874634541	3719633652				
	1028750051	1014273251					
	3575100052						
/ OCEAN	BREEZE	RUN NO. 40	1410000134	1340000133	1330000137	1410000140	1430000105
	1012652099	1400000140	1380000139	1490000140	8472757752	3957466052	6290889851
	1480000147	1430000144	1470000150	9163437551	2871637152	4076606152	6384839551
	123384353	1238499052	847774752	5330062551	5545055752	2439462852	8137999551
	3333922652	5774021551	3058159152	9133989551	2842369852	1149278851	1672044851
	1533304353	1238299052	8342976452	5481956551	6727678851		
	3319030952	5761103051	3005184752	4043673261	2893776951		
	2274831152	4769519051	1635129352				
	1947500050	3297726850					
	1418070053						

TABLE 1 (contd)

1012252099	URLEZE	3540000034	RUN NO. 41	0050000005	0080000006	0040000003	0010000002	0070000039
35500000360		0060000000	0060000004	0010000007				
7107016652		0430313551	0443010452	8027335351	8594401152	7670905051	5116201152	7132742551
3960674252		6203385051	2832727352	5322337051	2060952452	4539771051		
7107016852		0430313551	0421116652	8013373551	5007103152	7620335051	4984636952	7060196051
3961044952		0206313551	3014204552	3440171051	2148502352	4833356051	1394054952	3733704551
6951013551		0206313551	2101253151	1449503051	2676571550	5175441550	3774030850	6143320550
10122500000		4257346650						
1741670051	URLEZE	0300000041	RUN NO. 42	0420000050	0440000033	0340000048	0810000046	0480000054
1013032099		0300000033	0300000033	0420000050				
06000000055		0600000055	0620000059	03600000061				
3062084752		1732073352	2368504551	1238944552	2103433953	1450393052	1928974353	1387704852
1725255153		1030663452	1630127351	1276764452	1327783953	1182243852		
3605840953		1732073352	2396106053	1340000752	2107623953	1182176752	1907939253	1381281752
1735806253		1316391452	1529427053	1236700352	1244410953	1137765052	1070147453	1034003552
5041754152		0206313551	0303642352	7786930051	2790131052	5282463551	7620407751	2726767451
74400000050		8628543550						
407223052	URLEZE	0430000043	RUN NO. 43	0440000043	0430000043	0410000032	0440000040	0400000040
1013122099		0430000043	0430000043	0440000043				
0430000043		0430000043	0390000043	0440000041				
1024501083		1012176452	5040723552	7642242051	4238793952	451062051	3191402252	5649249551
2313048152		4009414951	1737403852	4192211451	1167319052	3501930251		
1024501053		1012176452	8642072352	7696417051	4180417852	6465613051	3112128952	8578440851
2294063152		4785209251	1611015052	4013745051	1049579552	3239719951	8432155051	2362264151
2236142651		1495375051	1054310351	1026796251	2046107150	4626706450	3326923149	1823008550
3537507049		1380824350						
4104433052	URLEZE	0600000048	RUN NO. 44	0630000048	0670000059	0840000043	0880000061	0870000057
1013122099		0600000048	0600000048	0630000048				
04000000087		0200000046	0400000041	0310000041				
2100056453		1449333152	1328160453	1151181753	1084440753	1826037352	9236764452	9607437951
8426797352		0180048551	7605043552	8780601051	7031900052	3086448551		
2100566453		1449333152	1352754553	1162079452	1044304453	1031690152	9107260452	9843201851
4215161552		9033783051	7464436182	4651554551	4947674452	8334271051	8813193852	7882381651
4730084152		0914249051	2860194052	4784144951	1490997052	3893664751	6162143551	2670280551
8230000080		7893036080						
8624263052								

[illegible]

STATE	COUNTY	RUN NO.	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	2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TABLE 1 (contd)

/ OCEAN	BREEZE	RUN NO. 61	0300000043	0320000031	0300000028	0370000035	0390000034
			8022024331	4438276852	6664039251	3173446652	8433519851
			4347031051	1358853822	3688263421		
			8000647051	4959988852	5678315051	3163822952	8442537951
			4125416851	1317361152	3629547151	9224274651	3637149151
			9985248550	6083333349	2466441450		
	BREEZE	RUN NO. 62	0250000027	0250000026	0250000025	0290000021	0150000018
			7153470551	2859047852	5374950051	2195984752	4663949351
			3495908551	1465033352	3827578451		
			7033709051	2965946552	5446970551	2181706052	4670873451
/ OCEAN	BREEZE	RUN NO. 63	3430733651	3018463951	1420874451	1173076950	3428021050
			2650876251				
	BREEZE	RUN NO. 64	0130000021	0180000018	0180000014	0140000016	0380000039
			0820000019	4178103152	6443825051	8739440952	8433534651
			8064540051	1192883852	3483335951		
			301580251	4187295052	6470038051	2461040952	8542877951
			7464410051	1149948852	3351102551	8384427451	2898404951
			3886760451	1321384251	1140401751	2808173150	6088144850
			1977640051				
	BREEZE	RUN NO. 65	0280000021	0270000028	0280000023	0280000020	0170000023
/ OCEAN	BREEZE	RUN NO. 66	0230000030	0230000024	0230000023		
			6024414551	4344444752	6393787851	2920844952	8404488051
			4084411051	9118180551	2019434351		
			4084411051	4244897752	6330420051	2915764052	8402844851
			8117004551	1044476852	3263244951	3718346259	1627768750
			3961249951	1073660750	4091034950		
			9082409550				
	BREEZE	RUN NO. 67	0180000019	0330000019	0330000018		
			0330000018	0330000017	0330000016		
			0330000016	0330000015	0330000014		
	BREEZE	RUN NO. 68	0330000014	0330000013	0330000012		
			0330000011	0330000010	0330000009		
			0330000008	0330000007	0330000006		
			0330000005	0330000004	0330000003		
			0330000002	0330000001	0330000000		
			0330000000	0330000000	0330000000		

BRLEZE	RUN NO. 65	1650000162	1640000167	1610000184	1600000189	1600000199
/ OCEAN		1500000160	1500000166	1490000172	1480000178	1470000184
BRLEZE	RUN NO. 66	1680000168	1670000174	1660000180	1650000186	1640000192
/ OCEAN		1630000163	1620000169	1610000175	1600000181	1590000187
BRLEZE	RUN NO. 67	1700000170	1690000176	1680000182	1670000188	1660000194
/ OCEAN		1650000165	1640000171	1630000177	1620000183	1610000189
BRLEZE	RUN NO. 68	1720000172	1710000178	1700000184	1690000190	1680000196
/ OCEAN		1670000167	1660000173	1650000179	1640000185	1630000191
BRLEZE	RUN NO. 69	1740000174	1730000180	1720000186	1710000192	1700000198
/ OCEAN		1690000169	1680000175	1670000181	1660000187	1650000193
BRLEZE	RUN NO. 70	1760000176	1750000182	1740000188	1730000194	1720000200
/ OCEAN		1710000171	1700000177	1690000183	1680000189	1670000195
BRLEZE	RUN NO. 71	1780000178	1770000184	1760000190	1750000196	1740000202
/ OCEAN		1730000173	1720000179	1710000185	1700000191	1690000197
BRLEZE	RUN NO. 72	1800000180	1790000186	1780000192	1770000198	1760000204
/ OCEAN		1750000175	1740000181	1730000187	1720000193	1710000199
BRLEZE	RUN NO. 73	1820000182	1810000188	1800000194	1790000200	1780000206
/ OCEAN		1770000177	1760000183	1750000189	1740000195	1730000201
BRLEZE	RUN NO. 74	1840000184	1830000190	1820000196	1810000202	1800000208
/ OCEAN		1790000179	1780000185	1770000191	1760000197	1750000203
BRLEZE	RUN NO. 75	1860000186	1850000192	1840000198	1830000204	1820000210
/ OCEAN		1810000181	1800000187	1790000193	1780000199	1770000205
BRLEZE	RUN NO. 76	1880000188	1870000194	1860000200	1850000206	1840000212
/ OCEAN		1830000183	1820000189	1810000195	1800000201	1790000207
BRLEZE	RUN NO. 77	1900000190	1890000196	1880000202	1870000208	1860000214
/ OCEAN		1850000185	1840000191	1830000197	1820000203	1810000209
BRLEZE	RUN NO. 78	1920000192	1910000198	1900000204	1890000210	1880000216
/ OCEAN		1870000187	1860000193	1850000199	1840000205	1830000211
BRLEZE	RUN NO. 79	1940000194	1930000200	1920000206	1910000212	1900000218
/ OCEAN		1890000189	1880000195	1870000201	1860000207	1850000213
BRLEZE	RUN NO. 80	1960000196	1950000202	1940000208	1930000214	1920000220
/ OCEAN		1910000191	1900000197	1890000203	1880000209	1870000215
BRLEZE	RUN NO. 81	1980000198	1970000204	1960000210	1950000216	1940000222
/ OCEAN		1930000193	1920000199	1910000205	1900000211	1890000217
BRLEZE	RUN NO. 82	2000000200	1990000206	1980000212	1970000218	1960000224
/ OCEAN		1950000195	1940000201	1930000207	1920000213	1910000219
BRLEZE	RUN NO. 83	2020000202	2010000208	2000000214	1990000220	1980000226
/ OCEAN		1970000197	1960000203	1950000209	1940000215	1930000221
BRLEZE	RUN NO. 84	2040000204	2030000210	2020000216	2010000222	2000000228
/ OCEAN		1990000199	1980000205	1970000211	1960000217	1950000223
BRLEZE	RUN NO. 85	2060000206	2050000212	2040000218	2030000224	2020000230
/ OCEAN		2010000201	2000000207	1990000213	1980000219	1970000225
BRLEZE	RUN NO. 86	2080000208	2070000214	2060000220	2050000226	2040000232
/ OCEAN		2030000203	2020000209	2010000215	2000000221	1990000227
BRLEZE	RUN NO. 87	2100000210	2090000216	2080000222	2070000228	2060000234
/ OCEAN		2050000205	2040000211	2030000217	2020000223	2010000229
BRLEZE	RUN NO. 88	2120000212	2110000218	2100000224	2090000230	2080000236
/ OCEAN		2070000207	2060000213	2050000219	2040000225	2030000231
BRLEZE	RUN NO. 89	2140000214	2130000220	2120000226	2110000232	2100000238
/ OCEAN		2090000209	2080000215	2070000221	2060000227	2050000233
BRLEZE	RUN NO. 90	2160000216	2150000222	2140000228	2130000234	2120000240
/ OCEAN		2110000211	2100000217	2090000223	2080000229	2070000235
BRLEZE	RUN NO. 91	2180000218	2170000224	2160000230	2150000236	2140000242
/ OCEAN		2130000213	2120000219	2110000225	2100000231	2090000237
BRLEZE	RUN NO. 92	2200000220	2190000226	2180000232	2170000238	2160000244
/ OCEAN		2150000215	2140000221	2130000227	2120000233	2110000239
BRLEZE	RUN NO. 93	2220000222	2210000228	2200000234	2190000240	2180000246
/ OCEAN		2170000217	2160000223	2150000229	2140000235	2130000241
BRLEZE	RUN NO. 94	2240000224	2230000230	2220000236	2210000242	2200000248
/ OCEAN		2190000219	2180000225	2170000231	2160000237	2150000243
BRLEZE	RUN NO. 95	2260000226	2250000232	2240000238	2230000244	2220000250
/ OCEAN		2210000221	2200000227	2190000233	2180000239	2170000245
BRLEZE	RUN NO. 96	2280000228	2270000234	2260000240	2250000246	2240000252
/ OCEAN		2230000223	2220000229	2210000235	2200000241	2190000247
BRLEZE	RUN NO. 97	2300000230	2290000236	2280000242	2270000248	2260000254
/ OCEAN		2250000225	2240000231	2230000237	2220000243	2210000249
BRLEZE	RUN NO. 98	2320000232	2310000238	2300000244	2290000250	2280000256
/ OCEAN		2270000227	2260000233	2250000239	2240000245	2230000251
BRLEZE	RUN NO. 99	2340000234	2330000240	2320000246	2310000252	2300000258
/ OCEAN		2290000229	2280000235	2270000241	2260000247	2250000253
BRLEZE	RUN NO. 100	2360000236	2350000242	2340000248	2330000254	2320000260
/ OCEAN		2310000231	2300000237	2290000243	2280000249	2270000255

ERLEZ	RUN NO. 73	1640000164	1610000162	1600000158	1890000189
1570000166	1630000163	1640000164	1600000162	1600000159	1890000189
1560000159	1570000160	1570000161	1560000159	1560000158	1880000188
1550000152	1560000153	1560000154	1550000152	1550000151	1870000187
1540000145	1550000146	1550000147	1540000145	1540000144	1860000186
1530000138	1540000139	1540000140	1530000138	1530000137	1850000185
1520000131	1530000132	1530000133	1520000131	1520000130	1840000184
1510000124	1520000125	1520000126	1510000124	1510000123	1830000183
1500000117	1510000118	1510000119	1500000117	1500000116	1820000182
1490000110	1500000111	1500000112	1490000110	1490000109	1810000181
1480000103	1490000104	1490000105	1480000103	1480000102	1800000180
1470000096	1480000097	1480000098	1470000096	1470000095	1790000179
1460000089	1460000090	1460000091	1460000089	1460000088	1780000178
1450000082	1450000083	1450000084	1450000082	1450000081	1770000177
1440000075	1440000076	1440000077	1440000075	1440000074	1760000176
1430000068	1430000069	1430000070	1430000068	1430000067	1750000175
1420000061	1420000062	1420000063	1420000061	1420000060	1740000174
1410000054	1410000055	1410000056	1410000054	1410000053	1730000173
1400000047	1400000048	1400000049	1400000047	1400000046	1720000172
1390000040	1390000041	1390000042	1390000040	1390000039	1710000171
1380000033	1380000034	1380000035	1380000033	1380000032	1700000170
1370000026	1370000027	1370000028	1370000026	1370000025	1690000169
1360000019	1360000020	1360000021	1360000019	1360000018	1680000168
1350000012	1350000013	1350000014	1350000012	1350000011	1670000167
1340000005	1340000006	1340000007	1340000005	1340000004	1660000166
1330000000	1330000001	1330000002	1330000000	1330000000	1650000165
1320000000	1320000001	1320000002	1320000000	1320000000	1640000164
1310000000	1310000001	1310000002	1310000000	1310000000	1630000163
1300000000	1300000001	1300000002	1300000000	1300000000	1620000162
1290000000	1290000001	1290000002	1290000000	1290000000	1610000161
1280000000	1280000001	1280000002	1280000000	1280000000	1600000160
1270000000	1270000001	1270000002	1270000000	1270000000	1590000159
1260000000	1260000001	1260000002	1260000000	1260000000	1580000158
1250000000	1250000001	1250000002	1250000000	1250000000	1570000157
1240000000	1240000001	1240000002	1240000000	1240000000	1560000156
1230000000	1230000001	1230000002	1230000000	1230000000	1550000155
1220000000	1220000001	1220000002	1220000000	1220000000	1540000154
1210000000	1210000001	1210000002	1210000000	1210000000	1530000153
1200000000	1200000001	1200000002	1200000000	1200000000	1520000152
1190000000	1190000001	1190000002	1190000000	1190000000	1510000151
1180000000	1180000001	1180000002	1180000000	1180000000	1500000150
1170000000	1170000001	1170000002	1170000000	1170000000	1490000149
1160000000	1160000001	1160000002	1160000000	1160000000	1480000148
1150000000	1150000001	1150000002	1150000000	1150000000	1470000147
1140000000	1140000001	1140000002	1140000000	1140000000	1460000146
1130000000	1130000001	1130000002	1130000000	1130000000	1450000145
1120000000	1120000001	1120000002	1120000000	1120000000	1440000144
1110000000	1110000001	1110000002	1110000000	1110000000	1430000143
1100000000	1100000001	1100000002	1100000000	1100000000	1420000142
1090000000	1090000001	1090000002	1090000000	1090000000	1410000141
1080000000	1080000001	1080000002	1080000000	1080000000	1400000140
1070000000	1070000001	1070000002	1070000000	1070000000	1390000139
1060000000	1060000001	1060000002	1060000000	1060000000	1380000138
1050000000	1050000001	1050000002	1050000000	1050000000	1370000137
1040000000	1040000001	1040000002	1040000000	1040000000	1360000136
1030000000	1030000001	1030000002	1030000000	1030000000	1350000135
1020000000	1020000001	1020000002	1020000000	1020000000	1340000134
1010000000	1010000001	1010000002	1010000000	1010000000	1330000133
1000000000	1000000001	1000000002	1000000000	1000000000	1320000132
9900000000	9900000001	9900000002	9900000000	9900000000	1310000131
9800000000	9800000001	9800000002	9800000000	9800000000	1300000130
9700000000	9700000001	9700000002	9700000000	9700000000	1290000129
9600000000	9600000001	9600000002	9600000000	9600000000	1280000128
9500000000	9500000001	9500000002	9500000000	9500000000	1270000127
9400000000	9400000001	9400000002	9400000000	9400000000	1260000126
9300000000	9300000001	9300000002	9300000000	9300000000	1250000125
9200000000	9200000001	9200000002	9200000000	9200000000	1240000124
9100000000	9100000001	9100000002	9100000000	9100000000	1230000123
9000000000	9000000001	9000000002	9000000000	9000000000	1220000122
8900000000	8900000001	8900000002	8900000000	8900000000	1210000121
8800000000	8800000001	8800000002	8800000000	8800000000	1200000120
8700000000	8700000001	8700000002	8700000000	8700000000	1190000119
8600000000	8600000001	8600000002	8600000000	8600000000	1180000118
8500000000	8500000001	8500000002	8500000000	8500000000	1170000117
8400000000	8400000001	8400000002	8400000000	8400000000	1160000116
8300000000	8300000001	8300000002	8300000000	8300000000	1150000115
8200000000	8200000001	8200000002	8200000000	8200000000	1140000114
8100000000	8100000001	8100000002	8100000000	8100000000	1130000113
8000000000	8000000001	8000000002	8000000000	8000000000	1120000112
7900000000	7900000001	7900000002	7900000000	7900000000	1110000111
7800000000	7800000001	7800000002	7800000000	7800000000	1100000110
7700000000	7700000001	7700000002	7700000000	7700000000	1090000109
7600000000	7600000001	7600000002	7600000000	7600000000	1080000108
7500000000	7500000001	7500000002	7500000000	7500000000	1070000107
7400000000	7400000001	7400000002	7400000000	7400000000	1060000106
7300000000	7300000001	7300000002	7300000000	7300000000	1050000105
7200000000	7200000001	7200000002	7200000000	7200000000	1040000104
7100000000	7100000001	7100000002	7100000000	7100000000	1030000103
7000000000	7000000001	7000000002	7000000000	7000000000	1020000102
6900000000	6900000001	6900000002	6900000000	6900000000	1010000101
6800000000	6800000001	6800000002	6800000000	6800000000	1000000100
6700000000	6700000001	6700000002	6700000000	6700000000	9900000099
6600000000	6600000001	6600000002	6600000000	6600000000	9800000098
6500000000	6500000001	6500000002	6500000000	6500000000	9700000097
6400000000	6400000001	6400000002	6400000000	6400000000	9600000096
6300000000	6300000001	6300000002	6300000000	6300000000	9500000095
6200000000	6200000001	6200000002	6200000000	6200000000	9400000094
6100000000	6100000001	6100000002	6100000000	6100000000	9300000093
6000000000	6000000001	6000000002	6000000000	6000000000	9200000092
5900000000	5900000001	5900000002	5900000000	5900000000	9100000091
5800000000	5800000001	5800000002	5800000000	5800000000	9000000090
5700000000	5700000001	5700000002	5700000000	5700000000	8900000089
5600000000	5600000001	5600000002	5600000000	5600000000	8800000088
5500000000	5500000001	5500000002	5500000000	5500000000	8700000087
5400000000	5400000001	5400000002	5400000000	5400000000	8600000086
5300000000	5300000001	5300000002	5300000000	5300000000	8500000085
5200000000	5200000001	5200000002	5200000000	5200000000	8400000084
5100000000	5100000001	5100000002	5100000000	5100000000	8300000083
5000000000	5000000001	5000000002	5000000000	5000000000	8200000082
4900000000	4900000001	4900000002	4900000000	4900000000	8100000081
4800000000	4800000001	4800000002	4800000000	4800000000	8000000080
4700000000	4700000001	4700000002	4700000000	4700000000	7900000079
4600000000	4600000001	4600000002	4600000000	4600000000	7800000078
4500000000	4500000001	4500000002	4500000000	4500000000	7700000077
4400000000	4400000001	4400000002	4400000000	4400000000	7600000076
4300000000	4300000001	4300000002	4300000000	4300000000	7500000075
4200000000	4200000001	4200000002	4200000000	4200000000	7400000074
4100000000	4100000001	4100000002	4100000000	4100000000	7300000073
4000000000	4000000001	4000000002	4000000000	4000000000	7200000072
3900000000	3900000001	3900000002	3900000000	3900000000	7100000071
3800000000	3800000001	3800000002	3800000000	3800000000	7000000070
3700000000	3700000001	3700000002	3700000000	3700000000	6900000069
3600000000	3600000001	3600000002	3600000000	3600000000	6800000068
3500000000	3500000001	3500000002	3500000000	3500000000	6700000067
3400000000	3400000001	3400000002	3400000000	3400000000	6600000066
3300000000	3300000001	3300000002	3300000000	3300000000	6500000065
3200000000	3200000001	3200000002	3200000000	3200000000	6400000064
3100000000	3100000001	3100000002	3100000000	3100000000	6300000063
3000000000	3000000001	3000000002	3000000000	3000000000	6200000062
2900000000	2900000001	2900000002	2900000000	2900000000	6100000061
2800000000	2800000001	2800000002	2800000000	2800000000	6000000060
2700000000	2700000001	2700000002	2700000000	2700000000	

TABLE 2. Means, $\sigma^2(\theta_m)$, and $\sigma(\theta_m)$ computed from Dry Gulch azimuth data

[illegible]

TABLE 2 (contd)

[illegible]

TABLE 3 (cont'd)

/ DAY	GULCH	RUN NO. 16									
		3230000327	3230000328	3230000329	3230000330	3230000331	3230000332	3230000333	3230000334	3230000335	3230000336
3662061099	3230000327	3230000327	3230000328	3230000329	3230000330	3230000331	3230000332	3230000333	3230000334	3230000335	3230000336
3680000321	3230000328	3230000328	3230000329	3230000330	3230000331	3230000332	3230000333	3230000334	3230000335	3230000336	3230000337
3391152453	3230000329	3230000329	3230000330	3230000331	3230000332	3230000333	3230000334	3230000335	3230000336	3230000337	3230000338
3236179052	3230000330	3230000330	3230000331	3230000332	3230000333	3230000334	3230000335	3230000336	3230000337	3230000338	3230000339
32391422453	3230000331	3230000331	3230000332	3230000333	3230000334	3230000335	3230000336	3230000337	3230000338	3230000339	3230000340
3746395252	3230000332	3230000332	3230000333	3230000334	3230000335	3230000336	3230000337	3230000338	3230000339	3230000340	3230000341
3232344851	3230000333	3230000333	3230000334	3230000335	3230000336	3230000337	3230000338	3230000339	3230000340	3230000341	3230000342
3230000349	3230000334	3230000334	3230000335	3230000336	3230000337	3230000338	3230000339	3230000340	3230000341	3230000342	3230000343
3239103353	3230000335	3230000335	3230000336	3230000337	3230000338	3230000339	3230000340	3230000341	3230000342	3230000343	3230000344
/ DAY											
GULCH											
2062061099	3230000336	3230000336	3230000337	3230000338	3230000339	3230000340	3230000341	3230000342	3230000343	3230000344	3230000345
3100000310	3230000337	3230000337	3230000338	3230000339	3230000340	3230000341	3230000342	3230000343	3230000344	3230000345	3230000346
105230353	3230000338	3230000338	3230000339	3230000340	3230000341	3230000342	3230000343	3230000344	3230000345	3230000346	3230000347
484157352	3230000339	3230000339	3230000340	3230000341	3230000342	3230000343	3230000344	3230000345	3230000346	3230000347	3230000348
105230353	3230000340	3230000340	3230000341	3230000342	3230000343	3230000344	3230000345	3230000346	3230000347	3230000348	3230000349
4778089952	3230000341	3230000341	3230000342	3230000343	3230000344	3230000345	3230000346	3230000347	3230000348	3230000349	3230000350
7931418951	3230000342	3230000342	3230000343	3230000344	3230000345	3230000346	3230000347	3230000348	3230000349	3230000350	3230000351
5030000049	3230000343	3230000343	3230000344	3230000345	3230000346	3230000347	3230000348	3230000349	3230000350	3230000351	3230000352
/ DAY											
GULCH											
2062061099	3230000346	3230000346	3230000347	3230000348	3230000349	3230000350	3230000351	3230000352	3230000353	3230000354	3230000355
1106007653	3230000347	3230000347	3230000348	3230000349	3230000350	3230000351	3230000352	3230000353	3230000354	3230000355	3230000356
3441095952	3230000348	3230000348	3230000349	3230000350	3230000351	3230000352	3230000353	3230000354	3230000355	3230000356	3230000357
1106807653	3230000349	3230000349	3230000350	3230000351	3230000352	3230000353	3230000354	3230000355	3230000356	3230000357	3230000358
3389766552	3230000350	3230000350	3230000351	3230000352	3230000353	3230000354	3230000355	3230000356	3230000357	3230000358	3230000359
4023291951	3230000351	3230000351	3230000352	3230000353	3230000354	3230000355	3230000356	3230000357	3230000358	3230000359	3230000360
324701353	3230000352	3230000352	3230000353	3230000354	3230000355	3230000356	3230000357	3230000358	3230000359	3230000360	3230000361
/ DAY											
GULCH											
3663031889	3230000355	3230000355	3230000356	3230000357	3230000358	3230000359	3230000360	3230000361	3230000362	3230000363	3230000364
7157152453	3230000356	3230000356	3230000357	3230000358	3230000359	3230000360	3230000361	3230000362	3230000363	3230000364	3230000365
4033308183	3230000357	3230000357	3230000358	3230000359	3230000360	3230000361	3230000362	3230000363	3230000364	3230000365	3230000366
7157152453	3230000358	3230000358	3230000359	3230000360	3230000361	3230000362	3230000363	3230000364	3230000365	3230000366	3230000367
6064129053	3230000359	3230000359	3230000360	3230000361	3230000362	3230000363	3230000364	3230000365	3230000366	3230000367	3230000368
1385066653	3230000360	3230000360	3230000361	3230000362	3230000363	3230000364	3230000365	3230000366	3230000367	3230000368	3230000369
3267722753	3230000361	3230000361	3230000362	3230000363	3230000364	3230000365	3230000366	3230000367	3230000368	3230000369	3230000370
/ DAY											
GULCH											
3070151099	3230000365	3230000365	3230000366	3230000367	3230000368	3230000369	3230000370	3230000371	3230000372	3230000373	3230000374
3070000316	3230000366	3230000366	3230000367	3230000368	3230000369	3230000370	3230000371	3230000372	3230000373	3230000374	3230000375
4094510153	3230000367	3230000367	3230000368	3230000369	3230000370	3230000371	3230000372	3230000373	3230000374	3230000375	3230000376
3515640453	3230000368	3230000368	3230000369	3230000370	3230000371	3230000372	3230000373	3230000374	3230000375	3230000376	3230000377
4094510153	3230000369	3230000369	3230000370	3230000371	3230000372	3230000373	3230000374	3230000375	3230000376	3230000377	3230000378
2462921353	3230000370	3230000370	3230000371	3230000372	3230000373	3230000374	3230000375	3230000376	3230000377	3230000378	3230000379
8339527052	3230000371	3230000371	3230000372	3230000373	3230000374	3230000375	3230000376	3230000377	3230000378	3230000379	3230000380
5437500050	3230000372	3230000372	3230000373	3230000374	3230000375	3230000376	3230000377	3230000378	3230000379	3230000380	3230000381

TABLE 2 (contd)

[illegible]

TABLE 2 (contd)

2071851099	2830000284	GULCH	RUN NO. 31	2880000279	2830000280	2770000294	2930000285	2900000289
2990000296	2940000300		2980000301	3030000295				
1637470553	1287427952		1416731653	1190265452	1275013953	1129163252	1120223553	1058404152
8989213552	9481146551		7495909152	8657892051	7209047652	8490611051		
1637470553	1287427952		1427407853	1194525552	1263449053	1120121552	1109217953	1053194552
9240353952	9693932551		7243437552	4673774051	6409734452	8130030051	5756384152	7558402051
4581570952	6753940351		3158081952	5619041551	1254974452	3940781951	4322113451	2078990951
2812500050	3302301050	GULCH	RUN NO. 32	2940000270	2850000281	2710000277	2760000286	2730000260
3071951099	3020000283		2780000287	2940000274				
2670000266	2570000235		2640000274	2640000277	4207270283	2051143252	3063184453	1978797752
5115705453	8261792552		4544485653	2134919752	1083047853	1408207352		
3487443953	1867603052		2643977353	1636284652	2134814452	2082670852	3046743053	1918214552
5118705453	8261792552		4544485653	2134919752	1083047853	1408207352	1281081053	1318304652
3377648553	1637443052		2402788753	1640961052	1913993853	1302467152	1677804453	3283118351
9784223052	9876347051		8761009152	7890190851	2968442152	9439193051		
3128000050	8390170050	GULCH	RUN NO. 33	2730000273	2680000286	2790000289	2720000264	2820000261
2071951099	2680000268		2850000268	2730000277	1612244163	1240787852	1439720753	1196834652
2730000271	2720000277		2820000277	1335448752	4161904852	7849780051		
2128611053	1456942452		1783532753	9281605051	1420085751	1272814152	1429120153	1198480152
1172213553	1042446152		9451134452	1340829052	9360974051	7383709051	2772628052	8208924051
2228031053	1456942452		1783532753	9281605051	1420085751	1272814152	1429120153	1198480152
1180052553	1042446152		9451134452	1340829052	9360974051	7383709051	2772628052	8208924051
6187530051	2487448451		1636284652	279395781	7360000050	8462840850	3876192350	4221087050
2812500050	8303301050	GULCH	RUN NO. 34	2810000287	2900000276	2900000298	3060000279	3120000296
2072351099	2910000301		2990000280	2730000277	3924607253	1942071852	3406816453	1899161852
3140000307	2920000304		2990000280	2730000277	3924607253	1942071852	3406816453	1899161852
4028770053	8151437752		4178247653	2944076252	2464424653	1571123452	3407611753	599371452
3277202253	1817334452		2999022753	1731760752	2040207051	1971504752	3407611753	599371452
4628770053	2151437752		4178247653	2944076252	2464424653	1571123452	3407611753	599371452
3269542953	1808220052		2889346653	1694607052	2357921853	1535552552	1795807953	340077652
1395913953	1180217852		7498343652	8659321051	2217687152	4709413051	4495192350	6704617550
5937500050	7705317550	GULCH	RUN NO. 35	3210000316	3240000322	3130000314	3080000329	3090000299
3072181099	3070000322		3170000316	3080000320	3708273053	1925687752	3413964853	1847692552
2030000302	3100000312		3150000304	1992440052	2448047853	1564623852		
4471160553	2114511952		3059919253	1673354052	3695195053	1922289052	3416131353	1848276052
3177685453	1782606452		2800113653	1992807052	3695195053	1922289052	3416131353	1848276052
4471160553	2114511952		3059919253	1673354052	3695195053	1922289052	3416131353	1848276052
3134631253	1770545452		2797230153	1672494252	3480037453	1542753152	2038719953	1427837452
1654054553	1206427052		1903717753	1045809652	3490922452	5908403051	4920673151	2218259051
3562500050	5964668350							

TABLE 3 (contd)

/ DAY	GULCH	RUN NO. 36	3040000000	3010000302	3030000000	2960000001	3020000000
2072551099	2710000277	2840000029	2830000029	1401337083	1183700028	1319441393	1148668482
3010000000	2950000029	2020000029	1461600029	9997019082	9996000029	1291270093	1136341082
1747100000	1321011152	1962934653	1044374652	1044944383	1185303522	6983321782	9386873551
1107436837	1049676652	1091130453	1543341153	1242200052	9275734651	6870192380	9418178080
1747100000	1241011152	1543341153	1022469233	1011370052	2485373051		
1172471053	1042007454	1022469233	1041573302	3079400051	6177083381		
4001010000	6400871051	1241573302					
3250100000	5710877050						
/ DAY	GULCH	RUN NO. 37	3120000000	3140000037	3440000037	3400000032	3140000032
3072551099	3210000038	3110000031	3440000037	2447771653	1564735052	2220167853	1500359952
3160000030	3210000038	3270000031	1143654652	1421478653	1047835052		
2012706753	1725720152	1701594653	1317474652	2401211703	1500003052	4233319653	1944494052
4007191053	1410440152	1701594653	1046911152	1402471653	1304000052	1074314053	1036491252
3012706753	1725720152	1701594653	1310442152	9007443381	3601239951	8206730051	2491321251
1991271053	1411131052	1701594653	3932992051				
6156121652	7603918551	1547629952					
9062500050	9519716950						
/ DAY	GULCH	RUN NO. 38	2840000029	2910000029	2900000030	2890000029	2900000029
2072551099	2960000029	2920000029	9850440051	8558035752	9250965051	7188018052	8478210051
1113500000	1052691052	9703118052	6347644551	2763076952	8256498051		
5282909152	7247695051	4029259052	9771954651	6276013452	9098389051	6907735482	6311278051
1113500000	1052691052	9703118052	8946964051	1942344852	4407033851	7870238051	8804880051
5212443452	7216725051	3536635952	4849037850	6816101849			
2796849451	1673227281	2047628950					
5923944753							
/ DAY	GULCH	RUN NO. 39	3450000034	3420000037	3310000031	3540000031	0130000006
3072551099	3200000037	3390000039	3470000034	2430055753	1530863652	2281764251	1500821352
3480000034	3480000037	3220000036	1619049552	1824142983	1350600452		
2929390533	1711344152	1621321353	1391170752	2418133753	1588247052	2224441353	1491450152
2060000033	1435270052	1435270052	1623069152	1598331052	1264250252	1224141753	1105177752
2929390533	1711344152	1621321353	1817107553	1348031052	2340605251	6223961550	7890476050
7739020352	6707170051	2927801752	5410916551	5516359981			
1212500001	1101135451						
/ DAY	GULCH	RUN NO. 40	3200000030	3310000031	3130000031	3210000031	3330000031
3072551099	3150000034	3200000037	3270000037	1840105853	1377717652	1536237053	1239454452
3130000031	3150000034	3310000039	1536884652	5837619052	7640431551		
3047118153	1745599152	2348174053	9248833051	1441052483	1392533752	1547067053	1243811952
1084480652	1084480652	8534000952	1543687052	5662770752	7325151551	3244469552	5740182551
3047118153	1745599152	2348174053	9197563551	5662770752	1337032351	9082500050	9319719550
1209410153	1099731452	8459517052	1937604351	1700233351			
1242394652	3524767551	3754310351					
8785000040	2938039950						

TABLE 2 (contd)

/ DRY	GULCH	RUN NO. 46	3390000341	3430000341	3570000356	3400000355	3450000342
			3390000341	3510000338			
			3390000348	1437124452	1351827452	1584636953	1298823652
			2065340053	1015781652	8441767551		
			1039534553	1437284252	1347467552	1576925353	1255768852
			2065785453	1021432352	8485446051	4264290852	6645435551
			1043323453	3272798151	1327928151	1730769250	4160231550
			1071120752				
			3272798151				
			2051650150				
/ DRY	GULCH	RUN NO. 47	3380000340	3420000340	3430000351	3400000354	3450000341
			3390000350	3500000337	1354153952	1580770953	1263664652
			2080333453	1442336352	6348230551		
			1015997152	1348631652	1348631652	1577304553	1255907952
			2070236453	1023774352	6501841051	4185213452	6469322551
			1048011453	1421131051	1192112051	4206730850	6469931550
			9256463451				
			2500000050				
			3425502352				
/ DRY	GULCH	RUN NO. 48	3170000313	3180000319	3160000321	3220000324	3320000326
			3260000315				
			8605800351	629885852	7936552051	6408379952	7354169051
			6303841551	3324761952	5417870551		
			8575931051	6284818452	7927685051	6468575452	7394981851
			6103976051	2945494252	5427241051	2185213452	4674626651
			1064210151	6875000050	8291582050	6490384649	2347623350
/ DRY	GULCH	RUN NO. 49	3080000309	3040000308	3010000306	2970000300	2940000305
			2980000301				
			9162875051	7243175852	8510685051	8727933052	7668311051
			5639733551	1940952452	4403624251		
			9114860051	7080779952	6418737051	6903631352	7683509051
			5841202551	2317887252	4814132651	1480182952	3847314851
			2226662051	2840773851	1685489251	1103348451	1080412051
/ DRY	GULCH	RUN NO. 50	3480000347	3420000336	3300000332	3300000329	3380000342
			3390000327				
			1200857452	1117103153	1066931052	6692737452	9323480851
			6636893051	4244285752	6514818551		
			1166033752	1985724253	1011980952	6205307352	9086316051
			6384244051	2113272152	8879740051	2240091852	4732404851
			1286591251	8133928650	7168144050	6697110450	7647924850
/ DRY	GULCH	RUN NO. 51	3040000304	3040000304	3040000304	2970000300	2940000305
			2950000299				
			8395827552	9162875051	8510685051	8727933052	7668311051
			8668136551	3180681852	5639733551		
			9840261051	8080686052	9114860051	6903631352	7683509051
			6236267551	3435369352	5841202551	1480182952	3847314851
			3333896451	4990051751	1685489251	1103348451	1080412051
/ DRY	GULCH	RUN NO. 52	3400000332	3360000339	3420000336	3300000332	3380000342
			3360000327				
			1411424552	1442050452	1066931052	6692737452	9323480851
			7591390551	4677045582	6636893051		
			1411434552	1406475953	1166033752	6205307352	9086316051
			7475030051	4037642052	8879740051	2240091852	4732404851
			3717194051	1844031751	7168144050	6697110450	7647924850

TABLE 2 (contd)

[illegible]

TABLE 2 (contd)

[illegible]

TABLE 2 (contd)

2032162869	GULCH	RUN NO. 69	3150000315	3160000318	3170000311	3090003311	3090000309
5672970052			6066037051	2704910752	5200875551	1942342352	4407801381
1586543552			3746603451	1232307752	3510424151		
5672970052			6070759551	2616741182	5115409051	1916929352	4378274051
1439366552			34475847551	6795454351	2965713251	5746114051	2397104451
3658389151			1031713051	2803030380	8294365050		
3134243353							
2032252099	GULCH	RUN NO. 70	3010000302	3040000297	3000000299	2960000293	2950000294
2930900291			2920000288				
9148714452			8315326051	5911699252	7424082051	4825498352	6727331051
3985168552			6096571551	3973809582	5978135051		
9148714452			8326608051	5543871982	7445718051	4582402252	6769244051
4061104552			6057841551	3257558152	5704444051	2923780552	5407190551
2324493352			1482327652	7864583351	2804336651	2939903851	1714614851
2875000050							
2965286753							
3232752099	GULCH	RUN NO. 71	3190000334	3280000323	3240000328	3270000333	3340000329
3300000330			3320000336				
2113203653			1230353352	1026713183	1013268552	6851396652	8277214851
4247065252			5515062051	1928095262	4301008151		
2113203653			1230805452	1036908153	6955307382	6955307382	8339844851
4497331352			5528050051	1779049852	4217402151	8948170751	2991349351
2718944551			7698522050	3318424860	5760601050	1177884650	3432034150
1437500650							
3287393353							
2032252099	GULCH	RUN NO. 72	3270000322	3250000319	3300000326	3260000325	3260000325
3230000325			3300000336				
4505906952			5840961551	2839584382	5039399051	1849720782	4308340851
1247303482			2888063251	6087142081	2401126481		
4205906952			5426457081	2509082982	8009044551	1800977782	4243798851
1147331352			3923446051	6044302351	2943990451	4442804981	2308174051
2288051451			4618912850	2782735180	8275166580	1814423180	3891899050
3268746753							
3032452869	GULCH	RUN NO. 73	3390000337	3400000333	3400000347	3360000333	3240000348
2867630753			1441996452	1859776853	1248910352	1161801983	1079510682
9364127352			8197786551	8453076982	7518649851		
2867630753			1440522852	1536416183	1240409782	1170047382	1081674852
48371444052			7945057551	3944172282	6201751581	1630471582	4047803851
3290372781			3070867080	1134363680	3370999380		
3263749383							

TABLE 2 (contd)

/ DRY	GULCH	RUN NO. 74	3060000308	3180000324	2940000304	3060000314	3040000294
332652099	3260000330	3160000302	3310000323	3387463253	1840506852	2883407893	1698060032
3540000307	3070000320	3370000320	1953271952	1486381053	1219172352	2926396653	1710871453
4546459033	2132232752	1815271453	1350244652	3393941353	1842603352	9859756152	9929030551
2355797033	1534860232	1823396553	1957742052	1341773152	1154512552	3147800081	1785507181
5546029033	2132262752	3032753653	1800355153	1672521652	2637344951		
2357752053	1548467952	1800355153	1341773152				
5275330045	7203152051	1672521652					
1875330045	1342306451						
3137456753							
/ DRY	GULCH	RUN NO. 75	3380000325	3170000323	3230000321	3230000317	3160000310
2032652849	3500000335	3430000342	1116459252	1163784653	1078793152	1095855293	1046031452
1412760953	1185534052	1240481153	9587604051	8776923152	9368523551		
1045511553	1012533052	9192222452	1115064952	1165491153	1079579252	1094861053	1047311252
1412760953	1184604652	1242374253	9037434551	8391744451	9160647551	7494559452	6657112851
1045511553	1011047952	9288018452	4025694051	6091933953	8302975053		
5256952452	7249866051	1020618552					
3241113353							
/ DRY	GULCH	RUN NO. 76	3150000312	3370000352	3260000350	3230000318	3090000232
3032752053	3020000321	3230000306	3170000326	3020523753	1740269452	8766397353	1644781052
3430000341	3270000337	3210000320	1847059152	1894444753	1376828152		
4056775553	2014143952	3411627353	1479305052	3071233943	1732499352	2704539183	1644840352
2453454453	1540244152	2188500053	1659606552	1664604753	1491744952	1164786453	1079282852
4056775553	2014143952	3448134353	1482222152			1170473181	1081974951
2349436253	1549012052	2108444953	2187344151	9480692951	2907042051		
4348117652	7467947051	4784482951					
2000000050	4472136050						
3255350053							
/ DRY	GULCH	RUN NO. 77	2870000282	3870000284	3910000287	2870000287	2960000298
3032752053	2810000287	2860000287	2870000284	4840303652	6818468851	3800000082	8014009081
2870000284	2840000283	2840000281	7244004651	1379823852	3714942851	3381284952	5814881851
6430690852	7160007051	5390383952	4615644751	4244624052	6630409051	8453231751	2912598851
2620001152	6130001051	2130444552	7403948651	4388777151	1358284952	2644230849	1026109180
4439444453	9160007051	9481910352	4388777151	1270521251			
2430418052	5128955051	1926134452					
4894453751	2212334951	1614224151					
6290000045	7905694049						
2871690753							

TABLE 2 (contd)

/ DRY	202992099	3420000344	RUN NO. 78	3430000344	3410000340	3390000340	3410000340	3390000340
	2910000294	2970000293	3420000344	2900000292				
	7972202932	8928719531	8342197832	7335344051	3949840782	6284791551	2901117358	5346888081
	217640462	4612435381	1841303682	3981409481	8790476291	2944873781	2932960098	5418448081
	7972202932	8928719531	8342197832	7335344051	3949840782	6284791551	2901117358	5346888081
	217640462	4612435381	1841303682	3981409481	8790476291	2944873781	2932960098	5418448081
	3349032481	1425737481	6922412480	9448883089	6413490880	4000000080	1002004400	4240000080
	3125000049	1787787080						
/ DRY	293151085							
	3032992099	3950000294	RUN NO. 79	2890000290	2870000293	2960000298	2950000292	2970000290
	3410000242	3430000240	3430000245	3440000243				
	1531543633	1245617832	1011221383	1088444752	5491822032	7844463051	3482234448	6018893081
	21921134852	4682023981	1147273382	3367812461	4487142991	2203891751	3837011282	8947277681
	1891843683	1245417832	9796940282	9897849481	5468449482	7883388881	3983982481	1998478081
	2023944842	4843021481	1078994382	2380232581	8018497781	2432220881	7932892349	2818803480
	1928475781	1367487151	9494278980	9447944580	3229144790	544874080		
	5425000049	2371700380						
/ DRY	3419200083							
	3023162099	3390000336	RUN NO. 80	3360000332	3380000332	3470000334	3400000346	3390000342
	2310000244	3430000339	3330000351	3370000328				
	2449270343	1627687982	1742223383	1319933352	1319832953	1148839832	8294049482	9108287081
	4838427352	6970242051	3338181852	8777700051	2789047652	5281143551	8194134152	9052145551
	2649270343	1627687982	1742223383	1319933352	1319832953	1148839832	8294049482	9108287081
	5325442752	7297637051	3445483052	4094322551	2424414452	4943430451	6422256181	2902112481
	5981416931	1726476481	1239224151	1113204881	6770633380	6228807880	1802884450	4248038950
/ DRY	3391790053							
	2046132099	3040000310	RUN NO. 81	3000000322	3046070291	3070000349	3080000322	3165000319
	3230000313	3200000311	3000000348	2900000346				
	4228770053	2054397452	3440304063	1913198052	3172982453	1781278452	2403110853	1613421452
	2104056453	1451225452	1332250083	1237840952	1231095253	1108847352	2669343653	1633812652
	4223770053	2054397452	3440304063	1913198052	3172982453	1781278452	2403110853	1613421452
	2150000053	1444287952	1617258553	1271714952	1206395353	1098360352	8864289352	9415054851
	5323770352	7302582051	2009487252	4482485151	4445178481	2159902551	7684613450	8879838850
	4875000050	6982120050						
	3039900053							

TABLE 2 (contd)

/ DAY	GULCH	RUN NO. 82	3260000321	3276600327	3310000336	3310000328	3300000327
3060552099	3320000328	3320000328	3430000328	1485403923	1218771532	1119329483	3300000327
3370000331	3300000336	3300000337	3300000336	1485403923	1218771532	1119329483	1067983092
2721333483	1340173252	1340173252	1340173252	1485403923	1218771532	1119329483	1067983092
7415056254	8611072081	8611072081	8611072081	1485403923	1218771532	1119329483	1067983092
2372133483	1640173252	1640173252	1640173252	1485403923	1218771532	1119329483	1067983092
7942415752	8912823851	8912823851	8912823851	1485403923	1218771532	1119329483	1067983092
6293913451	2876016251	2876016251	2876016251	1485403923	1218771532	1119329483	1067983092
8000000049	2236000000	2236000000	2236000000	1485403923	1218771532	1119329483	1067983092
3300513363				1485403923	1218771532	1119329483	1067983092
/ DAY	GULCH	RUN NO. 83	31900000297	31300000342	34300000321	31500000319	31300000302
3060552099	31100000317	31100000317	31100000317	31300000342	34300000321	31500000319	31300000302
32500000342	33300000321	33300000321	33300000321	31300000342	34300000321	31500000319	31300000302
6146089053	2475534152	2475534152	2475534152	31300000342	34300000321	31500000319	31300000302
3723202253	1929560152	1929560152	1929560152	31300000342	34300000321	31500000319	31300000302
6148089053	2475534152	2475534152	2475534152	31300000342	34300000321	31500000319	31300000302
3684971523	1914620152	1914620152	1914620152	31300000342	34300000321	31500000319	31300000302
4461148652	6679183051	6679183051	6679183051	31300000342	34300000321	31500000319	31300000302
2897500080	8184110890	8184110890	8184110890	31300000342	34300000321	31500000319	31300000302
3186303363				31300000342	34300000321	31500000319	31300000302
/ DAY	GULCH	RUN NO. 84	28900000284	28900000293	29400000298	29300000293	30000000310
2060552099	28900000284	28900000284	28900000284	28900000293	29400000298	29300000293	30000000310
3570000265	28600000390	28600000390	28600000390	28900000293	29400000298	29300000293	30000000310
1317998453	1146011252	1146011252	1146011252	28900000293	29400000298	29300000293	30000000310
6156853952	7846562551	7846562551	7846562551	28900000293	29400000298	29300000293	30000000310
1317998453	1146011252	1146011252	1146011252	28900000293	29400000298	29300000293	30000000310
5943118052	7702162051	7702162051	7702162051	28900000293	29400000298	29300000293	30000000310
1413051452	3760121051	3760121051	3760121051	28900000293	29400000298	29300000293	30000000310
1437500050	3791437750	3791437750	3791437750	28900000293	29400000298	29300000293	30000000310
2915246753				28900000293	29400000298	29300000293	30000000310
/ DAY	GULCH	RUN NO. 85	35200000350	34700000346	35600000359	35400000346	35300000343
3060552099	33700000346	33700000346	33700000346	34700000346	35600000359	35400000346	35300000343
33300000343	33000000350	33000000350	33000000350	34700000346	35600000359	35400000346	35300000343
1740166053	1319153052	1319153052	1319153052	34700000346	35600000359	35400000346	35300000343
7319101152	8535174551	8535174551	8535174551	34700000346	35600000359	35400000346	35300000343
1740166053	1319153052	1319153052	1319153052	34700000346	35600000359	35400000346	35300000343
7158000552	8460503051	8460503051	8460503051	34700000346	35600000359	35400000346	35300000343
6559459551	2338079851	2338079851	2338079851	34700000346	35600000359	35400000346	35300000343
1250000049	1118034050	1118034050	1118034050	34700000346	35600000359	35400000346	35300000343
3484833353				34700000346	35600000359	35400000346	35300000343

TABLE 2 (contd)

/ DAY	GULCH	RUN NO. 90	3220000310	3040000307	3010000306	3040000309
2060552099	3220000327	3330000329	3220000310	3040000307	3010000306	3040000309
3150000313	3200000323	3250000321	3270000323	3040000307	3010000306	3040000309
1635163333	1276733152	1269415053	1126633632	3040000307	3010000306	3040000309
9659764034	9847901051	9811618252	9847901051	3040000307	3010000306	3040000309
1635163333	1276733152	1269415053	1126633632	3040000307	3010000306	3040000309
9745427024	9576475031	9575000052	9423425051	3040000307	3010000306	3040000309
6290118424	7033422531	2504956552	3034640051	3040000307	3010000306	3040000309
3120000049	1767676950			3040000307	3010000306	3040000309
3173333333				3040000307	3010000306	3040000309
/ DAY	GULCH	RUN NO. 91	3340000335	3330000340	3360000329	3280000327
3031123349	3320000337	3320000331	3340000335	3330000340	3360000329	3280000327
3060000338	3450000339	3310000339	3340000335	3330000340	3360000329	3280000327
2369792053	1535473754	1604057253	1124401153	3330000340	3360000329	3280000327
2460016652	7270048051	3492500042	4013333352	3330000340	3360000329	3280000327
2369792053	1535473754	1604057253	1124401153	3330000340	3360000329	3280000327
5423661752	7084004251	3534647752	1201432552	3330000340	3360000329	3280000327
6337162251	2556767251	1368333551	2310319652	3330000340	3360000329	3280000327
1062500050	3259601250		5729166750	3330000340	3360000329	3280000327
3343765753				3330000340	3360000329	3280000327
/ DAY	GULCH	RUN NO. 92	3410000345	3470000351	3510000352	3540000353
3061162099	3420000340	3430000346	3410000345	3470000351	3510000352	3540000353
3550000350	3490000349	3490000342	3410000345	3470000351	3510000352	3540000353
1559624953	1248849352	1072813653	8032962452	3470000351	3510000352	3540000353
3450147252	5873795351	2527985552	1746322952	3470000351	3510000352	3540000353
1559624953	1248849352	1072813653	8032962452	3470000351	3510000352	3540000353
3532010352	5943072351	2410968752	8036972552	3470000351	3510000352	3540000353
1176673452	3433379951	6592963451	4910161751	3470000351	3510000352	3540000353
3509375049	1873332650		1633469951	3470000351	3510000352	3540000353
3479643353				3470000351	3510000352	3540000353
/ DAY	GULCH	RUN NO. 93	3420000350	3120000314	3010000315	3250000317
3061232099	3120000324	3310000325	3420000350	3120000314	3010000315	3250000317
3310000310	3230000324	3280000325	3420000350	3120000314	3010000315	3250000317
4376444033	2091894552	3358000653	3036429953	3120000314	3010000315	3250000317
2204775333	1494846852	1886364553	1240047653	3120000314	3010000315	3250000317
4376444033	2091894552	3358000653	3036429953	3120000314	3010000315	3250000317
2136037653	1494846852	1886364553	1240047653	3120000314	3010000315	3250000317
3624185452	6500096051	1799030252	1181613452	3120000314	3010000315	3250000317
2000000060	4472134050		6282976851	3120000314	3010000315	3250000317
3203783353				3120000314	3010000315	3250000317

[illegible]

[illegible]

TABLE 3. OCEAN BREEZE: Unsmoothed 2-second and 10-second sigmas.

Run	$\sigma(\theta_2)$	$\sigma(\theta_{10})$	Run	$\sigma(\theta_2)$	$\sigma(\theta_{10})$
1	10.0	m*	39	13.4	12.9
2	11.1	m	40	12.3	14.0
3	11.1	9.3	41	8.4	8.8
4	10.6	9.6	42	17.3	15.7
5	10.3	10.0	43	10.1	12.4
6	12.2	11.3	44	14.5	12.8
7	10.9	11.3	45	10.8	12.4
8	12.8	12.1	46	12.3	12.7
9	10.3	9.8	47	12.9	13.3
10	9.5	10.8	48	13.6	13.8
11	11.3	11.3	49	14.3	12.2
12	13.7	13.8	50	15.1	18.0
13	12.6	12.6	51	16.2	18.4
14	12.8	12.0	52	16.9	17.5
15	15.3	14.1	53	14.5	13.6
16	10.8	10.3	54	17.7	11.1
17	19.8	19.5	55	12.4	12.4
18	10.2	10.4	56	10.4	11.8
19	18.3	16.9	57	16.8	13.2
20	20.7	19.4	58	20.8	18.2
21	14.9	14.1	59	10.3	10.5
22	12.0	12.9	60	10.2	12.1
23	12.2	13.1	61	10.2	12.1
24	11.1	11.0	62	10.1	10.9
25	8.4	8.5	63	10.0	10.9
26	10.8	10.5	64	10.8	11.2
27	10.0	11.3	65	13.8	11.3
28	9.1	10.4	66	10.7	11.3
29	10.5	11.5	67	16.3	12.9
30	9.7	12.1	68	8.5	8.5
31	7.3	11.9	69	9.5	12.3
32	4.5	9.3	70	6.5	10.5
33	11.2	14.3	71	8.5	12.9
34	12.8	13.9	72	10.2	12.8
35	16.9	11.5	73	12.3	12.8
36	16.3	19.1	74	12.3	14.0
37	16.1	18.3	75	10.1	12.3
38	12.7	15.5	76	10.1	12.3
*m denotes missing value					

TABLE 4. DRY GULCH: Unsmoothed 2-second and 10-second sigmas.

Run	$\sigma(\theta_2)$	$\sigma(\theta_{10})$	Run	$\sigma(\theta_2)$	$\sigma(\theta_{10})$	Run	$\sigma(\theta_2)$	$\sigma(\theta_{10})$
18	15.5	18.8	358	17.1	19.8	770	9.2	9.9
20	13.4	15.4	408	17.5	19.2	780	8.9	8.0
30	19.3	20.7	410	12.4	12.8	785	12.5	13.8
48	21.0	23.1	420	11.3	11.9	808	16.3	16.8
50	12.3	12.4	438	10.6	12.3	810	20.8	20.8
68	18.6	18.1	439	18.2	19.8	820	15.4	16.9
70	13.1	14.4	450	11.7	11.7	830	24.8	27.0
88	19.3	21.0	488	15.6	16.1	840	11.6	11.4
98	14.0	13.4	478	16.7	19.2	850	13.2	13.8
100	17.9	16.1	480	9.7	11.7	860	13.5	11.6
118	21.0	22.2	490	9.8	11.1	870	20.1	13.4
128	14.5	16.3	508	14.1	11.1	880	21.6	22.4
130	12.1	12.6	618	15.4	15.4	890	18.3	18.1
140	9.4	9.6	828	13.8	12.8	900	12.8	12.6
168	16.8	16.1	838	13.7	15.6	918	16.4	16.8
188	15.5	14.8	848	19.2	20.2	928	12.6	14.1
170	10.3	12.1	850	9.6	9.4	938	20.3	19.9
180	10.8	10.8	860	9.6	9.1	948	13.3	13.7
198	26.8	27.1	870	6.1	9.5	958	11.1	11.6
208	20.2	22.7	888	12.0	15.4	960	12.0	12.4
210	8.0	10.9	890	13.4	10.3	970	13.1	14.4
220	8.4	9.4	898	12.7	11.1	980	14.8	12.9
238	18.0	18.8	910	15.1	10.1	998	28.4	27.4
240	20.4	19.4	928	10.0	12.2	1008	18.2	18.1
268	20.0	20.4	930	19.3	17.4	1010	11.2	10.3
288	15.3	15.6	948	16.9	19.8	1020	10.7	10.1
278	17.0	18.4	950	9.2	10.9	1038	10.1	11.7
280	21.0	16.4	968	11.8	12.8	1048	13.3	15.4
290	13.8	14.8	978	13.8	18.2	1080	14.8	10.1
308	25.7	20.1	980	7.8	9.3	1085	10.3	14.3
310	12.9	12.1	990	7.6	7.1	1070	17.7	16.8
328	22.8	19.1	700	9.8	8.8	1088	10.3	9.8
330	14.6	14.6	718	14.4	15.9	1098	16.0	14.4
340	21.8	20.7	720	6.7	8.2			
358	31.1	36.9	738	16.9	19.8			
360	13.2	12.8	748	21.4	31.4			
378	17.4	16.9	760	11.9	11.0			
380	19.8	19.8	788	20.1	23.4			

* m denotes missing value

TABLE 5. $\bar{U}$ (m sec⁻¹) and ΔT (°C) for OCEAN BREEZE runs.

Run	Date	Time (EST)	ΔT (°C)	$\bar{U}$ (m sec ⁻¹)
1	15 May 61	1825	+0.2	1.3
2	17	1650	-0.2	3.3
3	17	2100	+0.3	1.8
4	18	1650	-0.9	3.1
5	18	2012	+0.2	2.1
6	19	1940	+0.6	2.0
7	20	1437	+0.1	2.9
8	20	2056	+0.1	3.3
9	22	1440	-0.3	3.3
10	23	2035	-0.9	1.9
11	31	1844	-0.1	2.1
12	3 June 61	1100	-0.7	2.4
13	6	0900	-2.1	1.9
14	6	1237	-1.6	3.3
15	7	0904	-0.5	2.3
16	7	1239	-1.3	2.4
17	8	0840	-0.6	0.9
18	8	1231	-1.7	4.6
19	9	0815	-0.8	1.7
20	9	1210	-0.9	4.1
21	12	1045	-1.1	1.9
22	13	1029	-0.7	2.3
23	14	1037	-1.1	3.6
24	11 Jan 62	1227	m*	7.4
25	17	1643	-0.3	5.9
26	17	1821	20.0	3.2
27	18	1412	-0.3	4.4
28	18	1724	10.0	2.9
29	19	1634	-0.2	3.0
30	19	1830	+0.4	1.8
31	19	1349	-0.8	6.9
32	20	1042	-0.7	7.6
33	20	1659	-0.3	5.7
34	22	1640	-0.1	2.1
35	22	1825	+0.7	0.3
36	23	1440	-0.8	3.0
37	23	1818	-0.6	2.9
38	24	1431	-0.9	3.3
39	25	1807	+3.1	0.8
40	26	1622	-0.5	2.8
41	29	1930	11.0	4.7
42	30	1405	-0.7	3.6
43	30	1354	-1.5	3.8
44	31	1542	-0.3	3.0
45	1 Feb 62	1447	-0.6	3.7
46	1	1640	-0.3	3.6
47	2	1402	-0.6	2.9
48	2	1619	-0.2	1.9
49	3	1335	-0.5	3.6
50	3	15.4	-0.9	2.8
51	10 Mar 62	1337	-0.7	3.2
52	10	1507	-0.7	3.0
53	10	1639	-0.4	2.3
54	13	1344	+1.7	5.3
55	13	1502	-0.8	3.3
56	13	1633	-0.3	1.4
57	14	1346	-0.4	2.9
58	14	1520	-0.2	2.4

* m denotes missing value

TABLE 5. (contd)

Run	Date	Time (EST)	$\Delta T (^{\circ}C)$	$\bar{u}$ (m sec ⁻¹)
59	14 Mar 62	1710	m	0.7
60	16	1505	-0.7	4.1
61	16	1621	m	2.9
62	16	1753	+0.1	3.2
63	17	1348	-1.5	7.2
64	17	1451	-1.2	6.1
65	20	1540	-0.4	4.9
66	22	1551	-0.6	3.2
67	24	1534	-0.3	2.7
68	24	1815	+0.4	1.2
69	27	1821	-0.3	4.6
70	27	1954	+0.9	4.1
71	28	1820	+0.3	3.4
72	28	1628	-0.3	4.7
73	29	1817	+0.2	3.7
74	30	1538	+0.8	4.5
75	30	1848	20.0	3.3
76	31	1523	m	m

TABLE 6. $\bar{U}$ (m sec⁻¹) and various available ΔT 's (°C) for DRY GULCH runs.

Run	Date	Time (PST)	ΔT (°C)			$\bar{U}$ (m sec ⁻¹)
			Gullywings	Rawlinsville	Wingsville	
1-B	12 Jun 81	1715	-0.2			5.0
2-D	14	1515	-0.1			2.9
3-D	14	1700	-0.2			1.7
4-B	16	0255	-0.8			2.1
5-D	20	1255	-0.2			2.2
6-B	21	1857	0.0			0.8
7-D	22	1905	-1.2			2.2
8-B	23	1505		-1.0		3.0
9-B	23	1630	-0.4			1.4
10-D	24	1905	-0.6			1.2
11-B	26	1500	-1.7			2.0
12-B	26	1830	-1.1			2.7
13-D	27	1450	-1.5			5.6
14-D	27	1928	-0.4			3.8
15-B	28	1506	-1.0			5.7
16-B	28	2600		-0.1		2.5
17-D	29	1617	-1.8			1.1
18-D	29	2025	-0.2			2.7
19-B	30	1946		-0.1		0.4
20-B	1 July 81	1605	m ^a			2.4
21-D	5	0345		-1.0		8.5
22-D	6	0742	-0.7			7.2
23-B	6	1230	-2.2			7.0
24-D	7	0603	-0.3			1.7
25-B	7	1147	-1.4			4.0
26-D	8	0917	-1.8			3.0
27-B	10	0345		0.4	-1.7	2.4
28-D	11	0635		-1.5	-1.0	3.8
29-D	13	1100			-0.8	4.2
30-B	17	1100			-1.4	2.0
31-D	18	1104			-1.1	2.4
32-B	19	0703			-1.0	4.0
33-D	19	1250			-0.8	1.6
34-D	20	0915			-0.4	4.2
35-B	21	0900			-0.3	1.8
36-D	24	1600			-1.5	4.8
37-B	24	1935				
38-D	25	1510				
39-B	25	1950				
40-B	26	1552				

^am Indicates missing value

TABLE 8. (contd)

Run	Date	Time (MST)	ΔT ($^{\circ}\text{C}$)			Revolutions	$\bar{U}$ (m sec $^{-1}$)
			Centrifuge	Rawinsonde	Wire		
41-10	24 July 61	18 10	-0.4				3.1
42-10	27	18 10	-1.2				4.6
43-10	27	19 00	-0.5				2.7
44-10	28	16 16	-1.2				3.1
45-10	28	17 55	-0.7				2.0
46-10	28	19 09	-0.6				3.0
47-10	28	19 09	-0.6				3.6
48-10	28	19 09	-0.6				3.6
49-10	28	19 09	-0.6				3.6
50-10	28	19 09	-0.6				3.6
51-10	28	19 09	-0.6				3.6
52-10	28	19 09	-0.6				3.6
53-10	28	19 09	-0.6				3.6
54-10	28	19 09	-0.6				3.6
55-10	28	19 09	-0.6				3.6
56-10	28	19 09	-0.6				3.6
57-10	28	19 09	-0.6				3.6
58-10	28	19 09	-0.6				3.6
59-10	28	19 09	-0.6				3.6
60-10	28	19 09	-0.6				3.6
61-10	28	19 09	-0.6				3.6
62-10	28	19 09	-0.6				3.6
63-10	28	19 09	-0.6				3.6
64-10	28	19 09	-0.6				3.6
65-10	28	19 09	-0.6				3.6
66-10	28	19 09	-0.6				3.6
67-10	28	19 09	-0.6				3.6
68-10	28	19 09	-0.6				3.6
69-10	28	19 09	-0.6				3.6
70-10	28	19 09	-0.6				3.6
71-10	28	19 09	-0.6				3.6
72-10	28	19 09	-0.6				3.6
73-10	28	19 09	-0.6				3.6
74-10	28	19 09	-0.6				3.6
75-10	28	19 09	-0.6				3.6
76-10	28	19 09	-0.6				3.6
77-10	28	19 09	-0.6				3.6
78-10	28	19 09	-0.6				3.6
79-10	28	19 09	-0.6				3.6
80-10	28	19 09	-0.6				3.6
81-10	28	19 09	-0.6				3.6
82-10	28	19 09	-0.6				3.6
83-10	28	19 09	-0.6				3.6
84-10	28	19 09	-0.6				3.6
85-10	28	19 09	-0.6				3.6
86-10	28	19 09	-0.6				3.6
87-10	28	19 09	-0.6				3.6
88-10	28	19 09	-0.6				3.6
89-10	28	19 09	-0.6				3.6
90-10	28	19 09	-0.6				3.6
91-10	28	19 09	-0.6				3.6
92-10	28	19 09	-0.6				3.6
93-10	28	19 09	-0.6				3.6
94-10	28	19 09	-0.6				3.6
95-10	28	19 09	-0.6				3.6
96-10	28	19 09	-0.6				3.6
97-10	28	19 09	-0.6				3.6
98-10	28	19 09	-0.6				3.6
99-10	28	19 09	-0.6				3.6
100-10	28	19 09	-0.6				3.6

TABLE 6. (contd)

Run	Date	Time (PST)	$\Delta T(^{\circ}\text{C})$				Mod II	Burstak	$\bar{U}$ (m sec^{-1})
			Gastropode	Rawinopode	Wetopode	Wetopode			
81-D	1 Jun 63	1843			-0.1	-0.1			1.4
82-B	4	1540			-2.1	-1.4			3.3
83-B	5	1250			-2.4	-2.0			3.6
84-D	5	1915			-0.3	-0.3			2.4
85-B	6	1930			-0.3	-0.5			1.4
86-D	7	1635			-0.4	-1.3			1.3
87-D	7	1555			-0.3	-0.5			1.2
88-B	8	1501			-0.7	-1.2			1.7
89-B	8	1908			-0.5	-0.5			1.9
90-D	9	1930			-0.5	-0.4			3.3
91-B	11	1850			-1.5	-1.5			2.4
92-B	11	1945			-1.1	-1.1			1.3
93-B	12	1648			-0.5	-0.5			1.3
94-B	13	1935			-0.5	-0.5			1.3
95-B	19	1916			-0.5	-0.5			1.3
96-D	20	1840			-0.7	-0.7			3.6
97-D	21	1800			-0.4	-0.4			1.7
98-B	22	1717			-0.4	-0.4			1.3
99-B	22	1901			-0.4	-0.4			1.3
100-B	23	1640			-1.7	-1.7			4.3
101-D	23	1940			-0.5	-0.5			1.3
102-B	25	1728			-0.5	-0.5			1.3
103-B	25	1718			-0.5	-0.5			1.3
104-B	28	1748			-0.5	-0.5			1.3
105-D	28	1608			-0.5	-0.5			1.3
106-D	28	1750			-1.3	-1.3			1.3
107-D	29	1903			-0.5	-0.5			1.3
108-B	29	1840			-0.5	-0.5			1.3
109-B	29				-0.5	-0.5			1.3

TABLE 7. OCEAN BREEZE rawinsonde observations.

Run 81 (1745N)				Run 82 (1650N)				Run 83 (2110N)				Run 84 (1811N)			
15 May 61	17 May 61	18 May 61	19 May 61	17 May 61	18 May 61	19 May 61	20 May 61	17 May 61	18 May 61	19 May 61	20 May 61	18 May 61	19 May 61	20 May 61	
P (mb)	Z (m)	T (°C)	RH (%)	P (mb)	Z (m)	T (°C)	RH (%)	P (mb)	Z (m)	T (°C)	RH (%)	P (mb)	Z (m)	T (°C)	
1004	4.9	24.8	70	1018	4.9	25.7	70	1017	4.9	23.5	87	1017	4.9	23.6	
1000	132.4	21.9		1000	104.5	24.5		1000		24.7		1000		24.0	
500	304.3	22.3		984		23.5		910		18.5		928		19.7	
910		22.0		898		19.9		816		17.0	84	848		18.0	
840		18.0		880	1084.5	16.3		831	1000	14.0		848	1004.0	16.3	
830	1004.0	18.1	64	877		14.5		817		11.0		810		11.5	
810		17.8		783		10.5		810	1000	14.1		785		10.5	
785		16.8		783		11.5		816		12.5		764		10.1	
741		8.3		783		10.5		790	8174	8.0		720		87.5	
700		10.1		700	4837.5	7.5		700				700		87.7	
	3144.3														

Wind				Wind				Wind				Wind			
Z (m)	D (sec)	S (m sec ⁻¹)		Z (m)	D (sec)	S (m sec ⁻¹)		Z (m)	D (sec)	S (m sec ⁻¹)		Z (m)	D (sec)	S (m sec ⁻¹)	
8FC	4.9	040	3.1	4.9	040	4.1	8FC	4.9	060	2.0		4.9	040	4.1	
	304.3	060	3.1												
	609.5	018	2.6												
	914.4	347	7.3		639	5.7									
	1219.3	318	9.3		634	4.1									
	1524.0	332	8.3		542	3.2									
	1828.8	328	8.3		513	5.1									
	2133.6	333	8.3		441	5.1									
	2438.4	346	8.2		360	3.1									
	2743.2	345	8.2		2743.2	024									
	3048.0	345	10.3		2048.0	041									
	3352.8	344	10.3		1352.8	033									
					662.4	061	2.8								
					4872.0	004	4.1								

TABLE 7. (contd)

Run 85				Run 86				Run 87				Run 88			
18 May 61 (contd)				19 May 61 (1122Z)				24 May 61 (1122Z)				24 May 61 (1122Z)			
P (mb)	Z (m)	T (°C)	RH (%)	P (mb)	Z (m)	T (°C)	RH (%)	P (mb)	Z (m)	T (°C)	RH (%)	P (mb)	Z (m)	T (°C)	RH (%)
1018	4.	23.3	76	1017	4.9	24.0	83	1016	4.9	24.3	76	1014	4.9	23.9	76
1050	161	23.0		1000	169.7	23.8		1004	169.7	23.1		1000	169.7	23.9	
850	155.8	14.9	88	988	155.3	22.4		998	155.3	22.9		998	155.3	23.9	
806	2200	12.0		857	2200	13.2		850	2200	13.2		850	2200	18.2	
786		8.1		850	1553.3	18.2		838	1553.3	20.9		850	1553.3	18.2	
700	1171	7.0		758	1171	8.1		830	1047.2	16.6		850	1047.2	14.6	
				738		9.4		840		13.9		789		11.4	
				716		7.6		814		13.0		758		9.3	
				700	3189.6	7.1		701	3072.1	4.7		753	3165.3	4.8	

Winds				Winds				Winds				Winds			
Z (m)	D (deg)	S (m sec ⁻¹)		Z (m)	D (deg)	S (m sec ⁻¹)		Z (m)	D (deg)	S (m sec ⁻¹)		Z (m)	D (deg)	S (m sec ⁻¹)	
SFC	19	030	2.0	SFC	49	090	3.1	SFC	49	060	8.1	SFC	49	230	5.7
263.0	030	7.0		204.3	044	3.7		204.3	047	7.8		204.3	218	10.2	
505.0	031	9.2		809.8	036	8.1		809.8	037	7.8		809.8	218	9.8	
750.0	046	8.0		814.9	329	3.1		814.9	037	3.6		814.9	224	9.2	
1000.0	042	8.0		1219.2	327	6.7		1219.2	285	3.8		1219.2	228	9.8	
1500.0	031	5.0		1524.0	315	10.3		1524.0	277	5.7		1524.0	224	9.8	
2000.0	035	6.0		1828.8	318	12.4		1828.8	279	5.1		1828.8	224	9.8	
2500.0	342	8.0		2131.6	319	12.4		2131.6	292	5.1		2131.6	224	10.2	
3000.0	340	3.0		2433.4	324	10.8		2433.4	292	5.7		2433.4	218	10.2	
3500.0	342	6.0		2743.2	337	10.8		2743.2	298	6.7		2743.2	212	10.2	
4000.0	342	5.0		3043.0	343	9.8		3043.0	291	9.3		3043.0	217	10.2	
4500.0	340	6.0		3332.8	315	10.3		3332.8	280	11.3		3332.8	229	10.2	

TABLE 7. (contd)

Run #9				Run #10				Run #11				Run #12			
23 May 61 (1100)				22 May 61 (1110)				31 May 61 (1125)				5 June 61 (1025)			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1018	4.9	24.2	80	1018	4.9	21.2	83	1023	4.9	25.2	65	1018	4.9	21.1	93
1020	162.2	22.2		1020	157.6	21.2		1060	175.3	23.7		1009	158.2	21.7	
850	1561.8	14.6		838	850	22.2		869		21.7		979		22.4	
605		11.4		850	1560.3	16.4		883		15.3		944		16.8	
750		8.2		814		13.1		877		14.8		937		16.3	
720		7.1		786		11.2		853	1570.0	12.7		874		16.0	
703	3172.9	6.0		703	3172.4	7.7		819		11.0		850	1652.4	16.3	
								803		10.3		813		13.0	
								769		8.3		747		10.7	
								757		8.1		700	3182.1	8.3	
								744		7.7					
								738		7.7					
								703	3181.5	6.8					

Wind				Wind				Wind				Wind			
Z	D	S		Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
SFC	4.9	020	3.1	SFC	4.9	2.1		SFC	4.9	030	3.6	SFC	4.9	350	2.1
	314.8				324.8	033	5.1		315.8	033	3.1		304.8	101	3.0
	609.6				609.6	032	3.6		609.6	055	3.1		602.6	112	3.1
	914.4				914.4	013	3.1		914.4	054	5.7		914.4	070	4.5
	1219.2				1219.2	347	5.6		1219.2	055	7.2		1219.2	078	6.2
	1524.0				1524.0	314	4.6		1524.0	052	8.8		1524.0	089	7.3
	1828.8				1828.8	293	5.7		1828.8	050	9.3		1828.8	082	7.3
	2133.6				2133.6	337	6.2		2133.6	055	8.8		2133.6	083	6.1
	2438.4				2438.4	312	6.7		2438.4	059	6.7		2438.4	078	1.5
	2743.2				2743.2	311	6.7		2743.2	061	6.3		2743.2	200	1.0
	3048.0				3048.0	307	6.2		3048.0	013	7.2		3048.0	181	1.0
	3352.8				3352.8	313	7.3		3352.8	040	7.7		3352.8	110	9.8

TABLE 7. (contd)

June 61				June 61				June 61				June 61			
(1435)				(0625)				(1833)				(0625)			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1018	4.9	26.1	69	1019	4.9	22.2	90	1018	4.9	24.4	76	1018	4.9	22.9	90
1001	152.4	24.4	69	1000	147.0	23.2	90	1000	159.8	23.0	76	1000	165.2	23.0	90
984	304.8	21.8	70	987	1876.3	23.9	18.6	987	857	22.6	911	978	911	23.1	911
967	457.2	21.4	70	974		18.4	17.1	974	858	17.2	17.2	858	1672.2	17.1	17.1
950	609.6	19.8	77	961		17.1	75	961	1608.2	17.1	75	850	1672.2	17.1	75
933	762.0	18.1	75	945		16.2	18.2	945		16.9	16.9	724		16.2	16.2
916	914.4	16.0	44	928		13.5	13.5	928		11.9	11.9	700		6.4	6.4
899	1066.8	13.5	37	911		11.9	6.3	911		9.3	9.3			6.3	6.3
882	1219.2	11.9	30	894		9.3	3.1	894		3.1	3.1				
865	1371.6	11.9	20	877		7.7	20	877		2.0	2.0				
848	1524.0	11.9	15	860		6.0	15	860		1.5	1.5				
831	1676.4	11.9	10	843		4.3	10	843		1.0	1.0				
814	1828.8	11.9	8	826		2.6	8	826		0.8	0.8				
797	1981.2	11.9	6	809		0.9	6	809		0.6	0.6				
780	2133.6	11.9	4	792		0.4	4	792		0.4	0.4				
763	2286.0	11.9	3	775		0.3	3	775		0.3	0.3				
746	2438.4	11.9	2	758		0.2	2	758		0.2	0.2				
729	2590.8	11.9	1	741		0.1	1	741		0.1	0.1				
712	2743.2	11.9	0	724		0.0	0	724		0.0	0.0				
	2895.6	11.9	0			0.0	0			0.0	0.0				
	3048.0	11.9	0			0.0	0			0.0	0.0				

Winds				Winds				Winds				Winds			
Z	D	S	U	Z	D	S	U	Z	D	S	U	Z	D	S	U
(m)	(deg)	(m sec ⁻¹)	(m sec ⁻¹)	(m)	(deg)	(m sec ⁻¹)	(m sec ⁻¹)	(m)	(deg)	(m sec ⁻¹)	(m sec ⁻¹)	(m)	(deg)	(m sec ⁻¹)	(m sec ⁻¹)
4.9	090	3.0	4.6	4.9	339	3.0	3.1	4.9	110	3.0	3.0	4.9	143	3.0	3.0
152.4	093	4.6	4.6	304.8	136	4.6	4.6	152.4	131	4.6	4.6	304.8	172	4.6	4.6
304.8	097	6.1	6.1	609.6	145	6.1	6.1	304.8	116	6.1	6.1	609.6	192	6.1	6.1
457.2	096	6.1	6.1	914.4	161	6.1	6.1	457.2	121	6.1	6.1	914.4	240	6.1	6.1
609.6	103	6.1	6.1	1219.2	176	6.1	6.1	609.6	122	6.1	6.1	1219.2	288	6.1	6.1
762.0	103	6.1	6.1	1824.0	174	6.1	6.1	762.0	123	6.1	6.1	1824.0	336	6.1	6.1
914.4	108	6.1	6.1	2438.4	167	6.1	6.1	914.4	124	6.1	6.1	2438.4	384	6.1	6.1
1066.8	109	6.1	6.1	3048.0	149	6.1	6.1	1066.8	134	6.1	6.1	3048.0	432	6.1	6.1
1219.2	108	6.1	6.1		158	6.1	6.1	1219.2	132	6.1	6.1		480	6.1	6.1
1371.6	104	6.1	6.1		162	6.1	6.1	1371.6	129	6.1	6.1		528	6.1	6.1
1524.0	099	6.1	6.1		166	6.1	6.1	1524.0	117	6.1	6.1		576	6.1	6.1
1676.4	091	6.1	6.1		169	6.1	6.1	1676.4	101	6.1	6.1		624	6.1	6.1
1828.8	078	6.1	6.1					1828.8	100	6.1	6.1		672	6.1	6.1
1981.2	074	6.1	6.1					1981.2	100	6.1	6.1		720	6.1	6.1
2133.6	074	6.1	6.1					2133.6	100	6.1	6.1		768	6.1	6.1
2286.0	074	6.1	6.1					2286.0	100	6.1	6.1		816	6.1	6.1
2438.4	074	6.1	6.1					2438.4	100	6.1	6.1		864	6.1	6.1
2590.8	074	6.1	6.1					2590.8	100	6.1	6.1		912	6.1	6.1
2743.2	074	6.1	6.1					2743.2	100	6.1	6.1		960	6.1	6.1
2895.6	074	6.1	6.1					2895.6	100	6.1	6.1		1008	6.1	6.1
3048.0	074	6.1	6.1					3048.0	100	6.1	6.1		1056	6.1	6.1

TABLE 7. (contd)

Run #16 7 June 61 (1830)					Run #17 8 June 61 (0635)					Run #18 8 June 61 (1835)					Run #19 9 June 61 (0711)				
P (mb)	Z (m)	T (°C)	RH (%)		P (mb)	Z (m)	T (°C)	RH (%)		P (mb)	Z (m)	T (°C)	RH (%)		P (mb)	Z (m)	T (°C)	RH (%)	
1017	4.9	27.0	78		1017	4.9	22.0			1014	4.9	26.3	78		1012	4.9	26.0		78
1000	154.5	28.5			1035	185.3	22.5			1053	130.1	24.9			1035	18.5	25.1		
997		25.4			878		23.1			880		22.8			930		21.2		
955		22.1			640	1688.1	16.4			894		20.9			846		17.5		
893		20.0			818		14.4			860	1636.8	16.0			858		16.7		
850	1857.0	18.9			788		12.9			760	3181.1	6.3			880	1817.0	14.9		
780		12.5			700	3184.9	4.8								821		12.6		
700	3188.5	6.9													700	3133.8	6.5		
Wind					Wind					Wind					Wind				
Z (m)	D (deg)	S (m sec ⁻¹)			Z (m)	D (deg)	S (m sec ⁻¹)			Z (m)	D (deg)	S (m sec ⁻¹)			Z (m)	D (deg)	S (m sec ⁻¹)		
4.9	130	3.6			4.9	191	2.8			4.9	140	4.1			4.9	100	1.8		
304.8	143	6.7			304.8					304.8	136	6.7			304.8	116	2.6		
609.8	141	6.7			609.8					609.8	123	6.7			609.8	139	6.3		
914.4	137	6.6			914.4	163	4.3			914.4	188	6.7			914.4	130	6.7		
1219.3	139	4.1			1219.3	163				1219.3	187	7.7			1219.3	129	8.3		
1824.0	143	4.1			1824.0	165	3.6			1824.0	184	6.3			1824.0	130	11.3		
1829.8	136	3.1			1829.8	165	3.6			1829.8	170	4.8			1829.8	127	13.4		
2133.6	119	2.1			2133.6	162	3.1			2133.6	112	4.1			2133.6	116	12.9		
2438.4	113	2.1			2438.4	140	3.1			2438.4	106	3.6			2438.4	104	13.4		
2743.2	115	2.1			2743.2	138	3.6			2743.2	991	3.1			2743.2	102	12.9		
3048.0	187	0.0			3048.0	133	4.1			3048.0	970	2.6			3048.0	109	11.3		
3352.8	284	1.0			3352.8	126	4.1			3352.8	946	2.1			3352.8	116	16.9		

TABLE 7. (contd)

Run #20 (1730)				Run #21 (1053)				Run #22 (0832)			
9 June 61				12 June 61				13 June 61			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1010	4.9	24.4	87	1017	4.9	28.8	45	1018	4.9	34.5	89
1000	94.5	23.7		986	304.8	25.0	73	1000	146.5	24.2	
840		22.4		950	609.6	21.1	76	983	24.0	24.0	
850	1499.0	18.0		918	914.4	21.3	76	950	21.5	19.1	
760	3137.5	8.9		887	1219.2	20.0	76	880		17.1	
				858	1524.0	18.4	70	850	1874.6	17.1	
				825	1829.8	16.8	68	784		9.3	
				796	2133.6	14.9	75	700	2804.1	7.3	
				766	2438.4	12.8	73				
				741	2743.2	10.8	67				
				714	3048.0	8.8	64				

Winds				Winds				Winds			
Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
SFC	4.9	050	5.1	SFC	4.9	060	2.1	SFC	4.9	150	0.5
	304.8	024	7.2		304.8	084	3.1		304.8	150	3.1
	609.6	023	6.7		609.6	201	0.5		609.6	160	3.6
	914.4	068	7.2		914.4	272	2.8		914.4	159	5.6
	1219.2	066	7.2		1219.2	277	4.1		1219.2	163	3.6
	1524.0	067	6.2		1524.0	269	3.6		1524.0	176	2.1
	1829.8	072	5.1		1829.8	235	2.6		1829.8	209	1.0
	2133.6	082	4.1		2133.6	235	1.6		2133.6	208	1.0
	2438.4	084	4.1		2438.4	187	2.1		2438.4	177	1.6
	2743.2	083	6.2		2743.2	180	2.1		2743.2	162	2.1
	3048.0	087	7.7		3048.0	158	2.1		3048.0	120	5.1
	3352.8	093	7.7		3352.8	147	1.6		3352.8	122	5.6

TABLE F.7. (cont'd)

14 June 61				10 Jan 62				16 Jan 62				10 Jan 62				1412			
Run #23				Run #24 (20)				Run #25 (20)				Run #26 (20)				Run #27			
P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1019	4.0	21.4	73	1021	4.0	18.7	82	1021	4.0	18.7	82	1021	4.0	22.3	89	1000	191.7	4.0	22.3
1020	141.0	22.3		1021	141.1	20.7		1021	141.1	18.7		1021	141.1	20.7		1000	191.7	18.7	
820	24.3	24.3		910	910	18.7		910	910	18.7		910	910	18.7		910	910	18.7	
820	1375.8	17.5		910	1002.4	18.7		910	1002.4	18.7		910	1002.4	18.7		910	1002.4	18.7	
747	10.7	10.7		883	883	18.7		883	883	18.7		883	883	18.7		883	883	18.7	
747	8.5	10.2		883	883	18.7		883	883	18.7		883	883	18.7		883	883	18.7	
760	206.3	7.4		804	206.3	9.1		804	206.3	9.1		804	206.3	9.1		804	206.3	9.1	
				716	2101.7	6.8		716	2101.7	6.8		716	2101.7	6.8		716	2101.7	6.8	
				700				700				700				700			

TABLE 7. (contd)

Run #28 (1815)				Run #29 (1831)				Run #30 (1810)				Run #31 (1810)			
18 Jan 62				19 Jan 62				20 Jan 62				21 Jan 62			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1019	4.9	11.5	84	1019	4.9	10.6	77	1018	4.9	16.9	93	1022	4.9	19.9	79
1000	162.2	19.0		1032	164.1	19.7		1000	165.8	18.6		1000	165.9	18.7	
950	609.3	17.1		976	605.8	18.6		932	609.3	19.4		953	609.6	18.3	
911	1037.7	13.9		950	1067.4	17.9		950	1067.4	18.7		950	1067.4	17.9	
853		10.3		930		15.0		905		16.4		950		17.9	
850	1548.7	10.0		880		13.4		935	1069.2	15.3		935	1069.2	14.9	
828		8.0		851		11.2		850	1042.6	11.3		885	1038.2	14.3	
803		7.1		850	1548.4	11.2		800	2046.2	8.2		850	1578.8	12.1	
800	2042.5	7.1		816		9.5		776		6.7		816	2046.1	9.4	
778		6.8		830	2034.1	8.2		750	2073.6	6.3		800		8.3	
750	2578.6	6.0		787		7.1		745		5.9		782		4.7	
700	3141.3	4.3		723	2281.7	3.4		724		3.8		750	2614.6	4.6	
				702		1.5		700	3185.8	3.2		720		3.3	
												700	3176.7	2.9	

Wind				Wind				Wind				Wind			
Z	D	S		Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
SFC	340	3.6		SFC	030	1.0		SFC	010	2.8		SFC	010	2.8	
	010	3.1			215	1.0			301.8	117	2.1		364.8	027	4.2
	122	3.6			225	3.6			609.6	183	2.1		609.6	064	3.5
	143	2.6			239	4.6			814.4	248	3.1		814.4	116	1.5
	199	1.5			251	5.6			1219.2	261	5.1		1219.2	280	0.5
	256	4.1			256	6.7			1554.0	256	6.2		1554.0	294	3.1
	234	6.1			253	7.2			1828.8	248	6.7		1828.8	283	4.1
	245	5.6			252	7.7			2131.6	248	6.2		2131.6	283	4.6
	243	5.6			254	8.2			2433.4	265	4.8		2433.4	245	5.5
	237	7.7			247	7.2			2743.2	289	6.2		2743.2	241	4.6
	235	8.7			240	7.7			3048.0	281	10.2		3048.0	241	4.6
	248	8.7			245	11.6			3352.8	280	14.8		3352.8	240	6.7

TABLE 7. (contd)

[illegible]

TABLE 7. (contd)

Run 537 23 Jan 62				Run 536 24 Jan 62				Run 539 25 Jan 62				Run 540 26 Jan 62			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1022	4.8	18.1	96	1021	4.9	23.9	81	1021	4.9	22.3	76	1021	4.9	17.5	88
1020	197.3	21.5		1000	187.8	23.5		1000	181.1	22.8		1000	181.7	18.8	
950	641.9	19.8		950	832.8	19.5		950	676.4	20.5		950	642.2	18.8	
900	1105.1	18.5		900	1097.9	16.8		900	1092.1	17.0		900	1048.7	18.5	
887				876				860	1878.0	15.2		860	1870.2	12.5	
850	1599.4	13.0		850	1592.3	13.8		800	3044.8	9.5		800	2871.5	8.7	
800	2098.2	8.7		800	2091.3	10.3		750	3179.1	4.0		750	2810.0	7.5	
750				750	2823.2	6.5		700		4.5		700		4.5	
700	2829.8	7.1		700	3187.8	5.8				3.8			3074.8	4.8	
	3104.1	6.7													
Wind				Wind				Wind				Wind			
Z	D	S		Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
8FC				8FC				8FC				8FC			
4.9	170	2.1		4.9	160	4.1		4.9	130	4.1		4.9	304.8	0.40	1.9
304.8	168	4.5		304.2	175	5.6		304.8	161	6.2		304.8	609.8	288	3.8
609.8	131	1.0		609.8	136	5.7		609.8	200	3.8		609.8	814.4	239	6.7
914.4	338	1.5		914.4	198	6.2		914.4	254	5.1		914.4	1719.2	231	5.1
1219.2	312	3.1		1219.2	227	6.2		1219.2	255	5.6		1219.2	1924.0	220	5.1
1524.0	296	3.1		1524.0	231	7.2		1524.0	344	9.7		1524.0	1825.8	204	1.0
1828.8	284	1.5		1828.8	233	7.2		1828.8	243	10.2		1828.8	2133.8	313	2.6
2133.8	235	2.0		2133.8	236	6.2		2133.8	247	11.2		2133.8	2438.4	308	5.1
2438.4	237	1.5		2438.4	238	6.2		2438.4	247	11.2		2438.4	3048.0	308	5.1
2743.2	324	3.6		2743.2	328	6.7		2743.2	340	11.2		2743.2	3382.8	308	5.1
3048.0				3048.0				3048.0				3048.0			
3382.8				3382.8				3382.8				3382.8			

TABLE 7. (contd)

Run 640				Run 646				Run 648				Run 647				Run 649			
1 Feb 62				1 Feb 62				1 Feb 62				8 Feb 68				1 Feb 68			
P	Z	T	MM	P	Z	T	MM	P	Z	T	MM	P	Z	T	MM	P	Z	T	MM
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1020	4.9	19.5	88	1021	4.9	17.8	76	1019	4.9	14.6	76	1023	4.9	21.3	87	1023	4.9	21.3	87
1000	177.7	20.1		1000	181.4	16.3		1000	182.5	15.9		1000	202.7	18.9		1000	202.7	18.9	
900	619.7	19.6		900	615.1	14.7		900	609.6	13.2		900	639.8	17.7		900	639.8	17.7	
800	1044.8	18.9		800	1037.7	13.2		800	1031.9	11.7		800	1095.8	14.9		800	1095.8	14.9	
700	1508.9	11.7		700	1540.2	10.4		700	1531.2	8.3		700	1571.9	13.5		700	1571.9	13.5	
600	2073.3	9.2		600	2051.2	7.3		600	2025.1	5.8		600	2072.0	9.9		600	2072.0	9.9	
500	2606.2	8.1		500	2562.8	5.8		500	2531.5	4.1		500	2600.3	6.1		500	2600.3	6.1	
400	3175.9	9.2		400	3119.9	1.9		400	3109.7	0.8		400	3162.0	2.9		400	3162.0	2.9	
300																			
200																			
100																			
SFC				SFC				SFC				SFC				SFC			
Wind				Wind				Wind				Wind				Wind			
Z	D	S		Z	D	S		Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
4.9	170	4.1		4.9	300	3.1		4.9	300	3.1		4.9	060	2.1		4.9	380	4.6	
304.8	152	6.7		304.8	354	0.5		304.8	354	0.5		304.8	071	1.5		304.8	332	4.1	
609.6	177	8.1		609.6	185	1.0		609.6	237	1.0		609.6	237	1.0		609.6	290	2.6	
914.4	200	8.2		914.4	196	2.1		914.4	196	2.1		914.4	265	4.1		914.4	287	2.6	
1219.2	206	9.6		1219.2	216	3.1		1219.2	203	3.1		1219.2	263	6.6		1219.2	242	1.6	
1524.0	212	9.8		1524.0	239	4.1		1524.0	239	4.1		1524.0	263	7.3		1524.0	238	2.6	
1828.8	210	9.9		1828.8	244	4.6		1828.8	244	4.6		1828.8	260	9.3		1828.8	240	4.1	
2133.6	199	8.0		2133.6	245	6.2		2133.6	245	6.2		2133.6	260	9.3		2133.6	234	5.1	
2438.4	191	8.0		2438.4	252	7.7		2438.4	252	7.7		2438.4	260	7.7		2438.4	248	6.7	
2743.2	181	8.0		2743.2	258	8.2		2743.2	258	8.2		2743.2	270	7.2		2743.2	248	6.7	
3048.0	193	10.2		3048.0	256	8.2		3048.0	256	8.2		3048.0	278	7.7		3048.0	246	7.7	
3352.8	187	9.8		3352.8	248	9.8		3352.8	248	9.8		3352.8	270	8.2		3352.8	248	8.2	

TABLE 7. (contd)

Run #48				Run #49				Run #50				Run #51			
3 Feb 62				3 Feb 62				3 Feb 62				10 Mar 62			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1021	4.5	19.1	67	1021	4.9	20.4	63	1020	173.4	18.0	81	1015	4.9	22.4	63
1020	152.6	19.1		1020	182.3	18.3		1000	173.4	18.8		1000	173.6	21.3	
1019	304.8	19.1		1019	617.8	18.9		992	173.4	18.9		950	581.0	16.8	
1018	457.2	19.1		1018	944	18.7		964	612.7	17.8		900	1241.0	16.7	
1017	610.4	19.1		1017	1271.8	18.5		950	1067.4	16.5		850	1536.7	11.8	
1016	763.6	19.1		1016	1596.2	18.0		902	1345.0	15.9		800	2003.6	9.5	
1015	916.8	19.1		1015	1921.6	17.7		850	1667.4	15.7		791	2363.9	8.8	
1014	1070.0	19.1		1014	2247.0	17.5		800	2046.4	15.5		750	2863.9	8.8	
1013	1223.2	19.1		1013	2572.4	17.3		750	2876.5	15.3		702	3137.3	8.1	
1012	1376.4	19.1		1012	2897.8	17.1		700	3137.3	15.1		700		8.0	
1011	1529.6	19.1		1011	3223.2	16.9									
1010	1682.8	19.1		1010	3548.6	16.7									
1009	1836.0	19.1		1009	3874.0	16.5									
1008	1989.2	19.1		1008	4200.0	16.3									
1007	2142.4	19.1		1007	4525.4	16.1									
1006	2295.6	19.1		1006	4850.8	15.9									
1005	2448.8	19.1		1005	5176.2	15.7									
1004	2602.0	19.1		1004	5501.6	15.5									
1003	2755.2	19.1		1003	5827.0	15.3									
1002	2908.4	19.1		1002	6152.4	15.1									
1001	3061.6	19.1		1001	6477.8	14.9									
1000	3214.8	19.1		1000	6803.2	14.7									

Winds				Winds				Winds			
Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
SFC	100	2.1	SFC	4.9	030	3.1	SFC	4.9	070	2.1	SFC
	004.8	0.7		304.8	076	1.5		304.8	074	1.5	
	000.0	1.0		600.0	070	1.5		600.0	076	1.5	
	011.4	0.2		914.4	035	2.1		914.4	030	2.1	
	1219.2	7.7		1219.2	030	3.1		1219.2	035	2.1	
	1524.0	4.1		1524.0	035	2.1		1524.0	030	3.1	
	1828.8	2.4		1828.8	030	2.1		1828.8	035	2.1	
	2133.6	0.7		2133.6	030	2.1		2133.6	035	2.1	
	2438.4	0.2		2438.4	035	1.5		2438.4	030	1.5	
	2743.2	4.1		2743.2	035	1.5		2743.2	030	1.5	
	3048.0	4.6		3048.0	030	2.4		3048.0	035	2.4	
	3352.8	5.1		3352.8	030	4.1		3352.8	035	4.1	

TABLE 7. (contd)

Run 852 (53)					Run 854 (1318)					Run 855 (58)					Run 857 (1208)				
10 Mar 62					13 Mar 62					14 Mar 62					14 Mar 62				
P	Z	T	RH		P	Z	T	RH		P	Z	T	RH		P	Z	T	RH	
(mb)	(m)	(°C)	(%)		(mb)	(m)	(°C)	(%)		(mb)	(m)	(°C)	(%)		(mb)	(m)	(°C)	(%)	
1013	4.9	20.1	80		1013	4.9	21.0	45		1013	4.9	17.2	64		1017	4.9	14.3	79	
1000	117.0	20.1			1000	116.7	19.8			1000	112.6	12.6			1000	151.2	13.6		
985	20.1	20.1			973	17.6	17.6			960	681.7	15.0			960	682.1	12.9		
954	20.1	20.1			950	15.0	15.0			943	16.4	14.4			943	16.4	12.9		
950	359.6	19.4			937	351.0	15.2			907	1011.0	14.4			907	1011.0	12.8		
932	559.6	18.1			904	1018.2	15.1			900	1011.0	14.2			900	1037.8	12.5		
900	1025.3	18.5			872	850	15.1			871	1403.9	13.6			871	1417.5	11.5		
850	1511.3	14.4			850	1405.4	13.1			850	1405.4	13.0			850	1517.5	10.9		
830	1800	10.9			800	2032.1	11.4			800	2001.6	12.9			800	2072.7	10.1		
804	2022.7	11.1			750	2538.1	8.8			750	2541.4	9.0			750	2559.1	7.2		
769	2561.5	11.1			712	3103.5	7.0			700	3109.9	6.1			700	3124.5	4.3		
714	3129.6	8.6					6.5												
700		7.6																	

Wind					Wind					Wind				
Z	D	S			Z	D	S			Z	D	S		
(m)	(deg)	(m sec ⁻¹)			(m)	(deg)	(m sec ⁻¹)			(m)	(deg)	(m sec ⁻¹)		
4.9	120	4.1			4.9	130	3.1			4.9	130	3.1		
304.8	112	6.7			304.8	217	4.1			304.8	217	4.1		
609.6	148	4.1			609.6	252	6.2			609.6	252	6.2		
914.4	206	4.6			914.4	276	8.7			914.4	276	8.7		
1219.2	232	6.7			1219.2	248	12.4			1219.2	239	6.7		
1524.0	235	8.7			1524.0	287	18.4			1524.0	259	9.2		
1828.8	243	9.8			1828.8	280	17.0			1828.8	248	11.8		
2133.6	260	13.9			2133.6	273	18.5			2133.6	254	14.9		
2438.4	271	18.0			2438.4	288	21.1			2438.4	257	17.9		
2743.2	276	18.4			2743.2	285	22.7			2743.2	259	18.6		
3048.0	278	17.8			3048.0	287	23.7			3048.0	263	19.8		
3352.8	279	17.8			3352.8	285	24.7			3352.8	265	21.1		

TABLE 7. (contd)

Run 858 (55)					Run 860 (1010)					Run 861 (62)					Run 863 (1125)				
14 Mar 62 (1101)					16 Mar 62 (1101)					16 Mar 62 (1101)					17 Mar 62 (1125)				
P	Z	T	RH		P	Z	T	RH		P	Z	T	RH		P	Z	T	RH	
(mb)	(m)	(°C)	(%)		(mb)	(m)	(°C)	(%)		(mb)	(m)	(°C)	(%)		(mb)	(m)	(°C)	(%)	
1015	4.9	15.7	86		1017	4.9	14.7	79		1017	4.9	15.8	47		1025	4.9	15.1		
1000	122.9	15.2			1000	151.2	15.0			1000	154.2	14.6			1000	214.0	11.3		47
982		14.7			980		11.1			950	584.6	12.2			980		9.3		
950	562.1	12.4			950	540.9	9.7			900	1007.8	7.8			950	638.9	6.8		
919		11.5			909		5.6			887		5.1			900	1082.0	5.7		
900	1016.2	11.1			900	10 ⁰⁰ 0	9.6			856	1508.5	5.0			850	1531.4	4.9		
861		11.9			877		9.7			826	2003.5	4.7			800	2047.3	4.1		
850	1455.4	11.9			850		9.8			794	2538.0	7.1			760	2576.3	6.8		
800	2003.5	10.4			841		9.9			750		8.1			700		0.8		
750	2537.9	7.4			804		10.2			738		6.3							
743		7.1			800		10.0			700		5.5							
710		6.0			771		7.1					5.2							
700	3104.8	3.9			760	2545.1	6.2					3.9							
					736		3.7												
					700	3108.1	3.4												

Wind					Wind					Wind					Wind				
Z	D	S			Z	D	S			Z	D	S			Z	D	S		
(m)	(m sec ⁻¹)	(m sec ⁻¹)			(m)	(m sec ⁻¹)	(m sec ⁻¹)			(m)	(m sec ⁻¹)	(m sec ⁻¹)			(m)	(m sec ⁻¹)	(m sec ⁻¹)		
800	4.9	2.1			4.9	350	5.6			4.9	360	8.4			4.9	340	8.4		
	304.8	9.8			304.8	341	8.3			304.8	338	5.1			304.8	340	10.2		
	609.6	8.1			609.6	345	8.2			609.6	325	6.1			609.6	337	10.2		
	914.4	6.1			914.4	377	7.3			914.4	308	7.7			914.4	332	10.2		
	1219.2	8.7			1219.2	299	9.3			1219.2	300	9.8			1219.2	323	10.2		
	1524.0	8.7			1524.0	273	12.9			1524.0	246	12.4			1524.0	318	11.2		
	1828.8	11.9			1828.8	250	17.0			1828.8	241	16.0			1828.8	305	12.4		
	2133.6	13.9			2133.6	231	17.6			2133.6	200	20.0			2133.6	284	14.4		
	2438.4	15.4			2438.4	248	24.2			2438.4	202	23.2			2438.4	292	17.0		
	2743.2	17.4			2743.2	247	25.7			2743.2	202	24.7			2743.2	292	17.0		
	3048.0	18.4			3048.0	248	25.2			3048.0	202	23.2			3048.0	292	17.0		
	3352.8	20.8			3352.8	231	22.1			3352.8	236	26.3			3352.8	277	19.8		

TABLE 7. (contd)

17 Mar 62				23 Mar 62				30 Mar 62				1040				22 Mar 62				1041				1042				1043				1044				1045				1046				1047				1048				1049				1050				1051				1052				1053				1054				1055				1056				1057				1058				1059				1060				1061				1062				1063				1064				1065				1066				1067				1068				1069				1070				1071				1072				1073				1074				1075				1076				1077				1078				1079				1080				1081				1082				1083				1084				1085				1086				1087				1088				1089				1090				1091				1092				1093				1094				1095				1096				1097				1098				1099				1100				1101				1102				1103				1104				1105				1106				1107				1108				1109				1110				1111				1112				1113				1114				1115				1116				1117				1118				1119				1120				1121				1122				1123				1124				1125				1126				1127				1128				1129				1130				1131				1132				1133				1134				1135				1136				1137				1138				1139				1140				1141				1142				1143				1144				1145				1146				1147				1148				1149				1150				1151				1152				1153				1154				1155				1156				1157				1158				1159				1160				1161				1162				1163				1164				1165				1166				1167				1168				1169				1170				1171				1172				1173				1174				1175				1176				1177				1178				1179				1180				1181				1182				1183				1184				1185				1186				1187				1188				1189				1190				1191				1192				1193				1194				1195				1196				1197				1198				1199				1200				1201				1202				1203				1204				1205				1206				1207				1208				1209				1210				1211				1212				1213				1214				1215				1216				1217				1218				1219				1220				1221				1222				1223				1224				1225				1226				1227				1228				1229				1230				1231				1232				1233				1234				1235				1236				1237				1238				1239				1240				1241				1242				1243				1244				1245				1246				1247				1248				1249				1250				1251				1252				1253				1254				1255				1256				1257				1258				1259				1260				1261				1262				1263				1264				1265				1266				1267				1268				1269				1270				1271				1272				1273				1274				1275				1276				1277				1278				1279				1280				1281				1282				1283				1284				1285				1286				1287				1288				1289				1290				1291				1292				1293				1294				1295				1296				1297				1298				1299				1300				1301				1302				1303				1304				1305				1306				1307				1308				1309				1310				1311				1312				1313				1314				1315				1316				1317				1318				1319				1320			
P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P	Z	T	MI	P																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

TABLE 7. (contd)

24 Mar 68				24 Mar 68				27 Mar 68				27 Mar 68				27 Mar 68			
Run 667				Run 668				Run 669				Run 670				Run 671			
(1970)				(1970)				(1970)				(1970)				(1970)			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1018	4.9	22.7	46	1018	4.9	20.4	46	1017	4.9	17.2	44	1018	4.9	15.1	44	1018	4.9	15.1	44
1020	14.3	21.8		1020	14.3	19.9		1000	14.3	13.3		1000	14.3	12.3		1000	14.3	12.3	
950	843.5	18.1		950	843.5	16.4		950	843.5	10.8		950	843.5	9.8		950	843.5	9.8	
930	837	17.2		930	837	15.8		900	837	9.8		900	837	8.0		900	837	8.0	
900	1043.8	14.7		900	1043.8	12.1		900	1043.8	7.8		900	1043.8	6.3		900	1043.8	6.3	
868	868	14.4		868	868	9.1		800	868	5.0		800	868	4.3		800	868	4.3	
833	1632.3	12.0		833	1632.3	8.9		800	833	3.0		800	833	2.3		800	833	2.3	
800	2032.0	11.1		800	2032.0	7.4		730	800	1.4		730	800	0.5		730	800	0.5	
770	2571.0	10.5		770	2571.0	9.4		730	770	0.5		730	770	0.5		730	770	0.5	
750	3144.7	10.4		750	3144.7	8.1		730	750	0.5		730	750	0.5		730	750	0.5	
700				700				700		0.7		700		0.7		700		0.7	
Wind				Wind				Wind				Wind				Wind			
Z	D	S		Z	D	S		Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
SFC	4.9	060	6.2	SFC	4.9	060	6.2	SFC	4.9	350	9.3	SFC	4.9	360	8.7	SFC	4.9	360	8.7
304.8	070	6.7		304.8	070	6.7		304.8	070	6.7		304.8	070	6.7		304.8	070	6.7	
609.6	074	6.7		609.6	074	6.7		609.6	074	6.7		609.6	074	6.7		609.6	074	6.7	
914.4	065	5.5		914.4	065	5.5		914.4	065	5.5		914.4	065	5.5		914.4	065	5.5	
1219.2	065	4.6		1219.2	065	4.6		1219.2	065	4.6		1219.2	065	4.6		1219.2	065	4.6	
1524.0	091	3.6		1524.0	091	3.6		1524.0	091	3.6		1524.0	091	3.6		1524.0	091	3.6	
1828.8	074	3.1		1828.8	074	3.1		1828.8	074	3.1		1828.8	074	3.1		1828.8	074	3.1	
2133.6	057	2.1		2133.6	057	2.1		2133.6	057	2.1		2133.6	057	2.1		2133.6	057	2.1	
2438.4	001	1.4		2438.4	001	1.4		2438.4	001	1.4		2438.4	001	1.4		2438.4	001	1.4	
2743.2	258	7.7		2743.2	258	7.7		2743.2	258	7.7		2743.2	258	7.7		2743.2	258	7.7	
3048.0	282	7.1		3048.0	282	7.1		3048.0	282	7.1		3048.0	282	7.1		3048.0	282	7.1	
3352.8				3352.8				3352.8				3352.8				3352.8			

TABLE 7. (contd)

Run #71 (120.0)				Run #72 (73)				Run #74 (75)				Run #76 (121.0)			
28 Mar 62				29 Mar 62 (1200)				30 Mar 62 (1200)				31 Mar 62			
P	Z	T	RH	P	Z	T	RH	P	Z	T	RH	P	Z	T	RH
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
102.2	4.9	22.4	38	102.4	4.9	22.8	61	10.32	4.9	25.0	64	1016	4.9	25.5	68
110.0	194.8	19.7		1000	211.8	19.9		1000	193.5	22.5		1000	144.8	21.8	
98.0	64.9	17.2		950	649.8	16.4		960	638.8	17.7		960	549.8	21.8	
90.0	111.8	14.7		932	1104.8	13.9		900	1097.0	14.0		950	549.8	19.8	
918	1087.8	12.3		900	1104.8	11.8		864	1077.0	12.0		944	549.8	19.8	
900	1087.8	10.2		874	1104.8	11.0		850	1077.0	10.9		910	1084.5	18.2	
868	1560.3	7.0		850	1382.2	9.4		837	1382.2	9.8		950	1084.5	17.9	
850	1560.3	6.1		800	2082.1	6.6		800	2081.8	7.8		878	1542.3	17.1	
835	2053.3	6.0		799	2082.1	6.4		765	2013.6	4.7		850	1542.3	16.9	
800	2584.1	6.9		774	2013.6	5.5		750	2013.6	5.1		844	1542.3	16.8	
750	3150.7	7.0		750	2210.3	7.6		738	2013.6	1.9		812	2053.1	12.2	
700	3150.7	4.1		700	3178.4	3.9		700	3169.3	3.6		778	2053.1	10.4	
												760	2588.9	11.2	
												700	3161.7	7.1	

Wind				Wind				Wind				Wind			
Z	D	S		Z	D	S		Z	D	S		Z	D	S	
(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)		(m)	(deg)	(m sec ⁻¹)	
SFC	4.9	090	2.8	SFC	4.9	150	8.2	SFC	4.9	130	8.9	SFC	4.9	170	11.2
304.8	141	1.5		304.8	149	8.2		304.8	136	8.7		304.8	164	11.2	
609.6	163	2.5		609.6	183	8.7		609.6	136	10.2		609.6	181	11.2	
914.4	179	3.1		914.4	196	9.8		914.4	143	10.2		914.4	189	11.2	
1219.2	189	2.5		1219.2	215	9.3		1219.2	146	10.2		1219.2	191	11.2	
1524.0	210	4.1		1524.0	233	9.3		1524.0	146	10.2		1524.0	186	11.2	
1828.8	240	2.8		1828.8	243	9.3		1828.8	170	9.1		1828.8	204	8.7	
2133.6	266	3.1		2133.6	259	9.8		2133.6	209	4.1		2133.6	218	7.7	
2438.4	324	4.0		2438.4	271	8.7		2438.4	203	4.6		2438.4	222	8.7	
2743.2	325	4.6		2743.2	172	8.2		2743.2	207	4.1		2743.2	223	10.2	
3048.0	320	4.6		3048.0	166	8.2		3048.0	237	4.1		3048.0	223	10.2	
3352.8	300	3.8		3352.8	163	8.2		3352.8	237	4.1		3352.8	227	10.2	

TABLE 8. Dry Gulch rawinsonde observations

Date 8-1-8				Date 8-2-8				Date 8-3-8				Date 8-4-8			
12 June 81				14 June 81				15 June 81				16 June 81			
(11700)				(1115)				(0900)				(1000)			
P	Z	T	S	P	Z	T	S	P	Z	T	S	P	Z	T	S
(mb)	(m)	(°C)	(m sec ⁻¹)	(mb)	(m)	(°C)	(m sec ⁻¹)	(mb)	(m)	(°C)	(m sec ⁻¹)	(mb)	(m)	(°C)	(m sec ⁻¹)
1000	113	11.5	3.1	1000	104	10.7	3.1	1000	81	10.0	3.1	1000	100	10.5	3.1
990	115	11.5	3.1	990	106	10.7	3.1	990	83	10.0	3.1	990	102	10.5	3.1
980	117	11.5	3.1	980	108	10.7	3.1	980	85	10.0	3.1	980	104	10.5	3.1
970	119	11.5	3.1	970	110	10.7	3.1	970	87	10.0	3.1	970	106	10.5	3.1
960	121	11.5	3.1	960	112	10.7	3.1	960	89	10.0	3.1	960	108	10.5	3.1
950	123	11.5	3.1	950	114	10.7	3.1	950	91	10.0	3.1	950	110	10.5	3.1
940	125	11.5	3.1	940	116	10.7	3.1	940	93	10.0	3.1	940	112	10.5	3.1
930	127	11.5	3.1	930	118	10.7	3.1	930	95	10.0	3.1	930	114	10.5	3.1
920	129	11.5	3.1	920	120	10.7	3.1	920	97	10.0	3.1	920	116	10.5	3.1
910	131	11.5	3.1	910	122	10.7	3.1	910	99	10.0	3.1	910	118	10.5	3.1
900	133	11.5	3.1	900	124	10.7	3.1	900	101	10.0	3.1	900	120	10.5	3.1
890	135	11.5	3.1	890	126	10.7	3.1	890	103	10.0	3.1	890	122	10.5	3.1
880	137	11.5	3.1	880	128	10.7	3.1	880	105	10.0	3.1	880	124	10.5	3.1
870	139	11.5	3.1	870	130	10.7	3.1	870	107	10.0	3.1	870	126	10.5	3.1
860	141	11.5	3.1	860	132	10.7	3.1	860	109	10.0	3.1	860	128	10.5	3.1
850	143	11.5	3.1	850	134	10.7	3.1	850	111	10.0	3.1	850	130	10.5	3.1
840	145	11.5	3.1	840	136	10.7	3.1	840	113	10.0	3.1	840	132	10.5	3.1
830	147	11.5	3.1	830	138	10.7	3.1	830	115	10.0	3.1	830	134	10.5	3.1
820	149	11.5	3.1	820	140	10.7	3.1	820	117	10.0	3.1	820	136	10.5	3.1
810	151	11.5	3.1	810	142	10.7	3.1	810	119	10.0	3.1	810	138	10.5	3.1
800	153	11.5	3.1	800	144	10.7	3.1	800	121	10.0	3.1	800	140	10.5	3.1
790	155	11.5	3.1	790	146	10.7	3.1	790	123	10.0	3.1	790	142	10.5	3.1
780	157	11.5	3.1	780	148	10.7	3.1	780	125	10.0	3.1	780	144	10.5	3.1
770	159	11.5	3.1	770	150	10.7	3.1	770	127	10.0	3.1	770	146	10.5	3.1
760	161	11.5	3.1	760	152	10.7	3.1	760	129	10.0	3.1	760	148	10.5	3.1
750	163	11.5	3.1	750	154	10.7	3.1	750	131	10.0	3.1	750	150	10.5	3.1
740	165	11.5	3.1	740	156	10.7	3.1	740	133	10.0	3.1	740	152	10.5	3.1
730	167	11.5	3.1	730	158	10.7	3.1	730	135	10.0	3.1	730	154	10.5	3.1
720	169	11.5	3.1	720	160	10.7	3.1	720	137	10.0	3.1	720	156	10.5	3.1
710	171	11.5	3.1	710	162	10.7	3.1	710	139	10.0	3.1	710	158	10.5	3.1
700	173	11.5	3.1	700	164	10.7	3.1	700	141	10.0	3.1	700	160	10.5	3.1
690	175	11.5	3.1	690	166	10.7	3.1	690	143	10.0	3.1	690	162	10.5	3.1
680	177	11.5	3.1	680	168	10.7	3.1	680	145	10.0	3.1	680	164	10.5	3.1
670	179	11.5	3.1	670	170	10.7	3.1	670	147	10.0	3.1	670	166	10.5	3.1
660	181	11.5	3.1	660	172	10.7	3.1	660	149	10.0	3.1	660	168	10.5	3.1
650	183	11.5	3.1	650	174	10.7	3.1	650	151	10.0	3.1	650	170	10.5	3.1
640	185	11.5	3.1	640	176	10.7	3.1	640	153	10.0	3.1	640	172	10.5	3.1
630	187	11.5	3.1	630	178	10.7	3.1	630	155	10.0	3.1	630	174	10.5	3.1
620	189	11.5	3.1	620	180	10.7	3.1	620	157	10.0	3.1	620	176	10.5	3.1
610	191	11.5	3.1	610	182	10.7	3.1	610	159	10.0	3.1	610	178	10.5	3.1
600	193	11.5	3.1	600	184	10.7	3.1	600	161	10.0	3.1	600	180	10.5	3.1
590	195	11.5	3.1	590	186	10.7	3.1	590	163	10.0	3.1	590	182	10.5	3.1
580	197	11.5	3.1	580	188	10.7	3.1	580	165	10.0	3.1	580	184	10.5	3.1
570	199	11.5	3.1	570	190	10.7	3.1	570	167	10.0	3.1	570	186	10.5	3.1
560	201	11.5	3.1	560	192	10.7	3.1	560	169	10.0	3.1	560	188	10.5	3.1
550	203	11.5	3.1	550	194	10.7	3.1	550	171	10.0	3.1	550	190	10.5	3.1
540	205	11.5	3.1	540	196	10.7	3.1	540	173	10.0	3.1	540	192	10.5	3.1
530	207	11.5	3.1	530	198	10.7	3.1	530	175	10.0	3.1	530	194	10.5	3.1
520	209	11.5	3.1	520	200	10.7	3.1	520	177	10.0	3.1	520	196	10.5	3.1
510	211	11.5	3.1	510	202	10.7	3.1	510	179	10.0	3.1	510	198	10.5	3.1
500	213	11.5	3.1	500	204	10.7	3.1	500	181	10.0	3.1	500	200	10.5	3.1
490	215	11.5	3.1	490	206	10.7	3.1	490	183	10.0	3.1	490	202	10.5	3.1
480	217	11.5	3.1	480	208	10.7	3.1	480	185	10.0	3.1	480	204	10.5	3.1
470	219	11.5	3.1	470	210	10.7	3.1	470	187	10.0	3.1	470	206	10.5	3.1
460	221	11.5	3.1	460	212	10.7	3.1	460	189	10.0	3.1	460	208	10.5	3.1
450	223	11.5	3.1	450	214	10.7	3.1	450	191	10.0	3.1	450	210	10.5	3.1
440	225	11.5	3.1	440	216	10.7	3.1	440	193	10.0	3.1	440	212	10.5	3.1
430	227	11.5	3.1	430	218	10.7	3.1	430	195	10.0	3.1	430	214	10.5	3.1
420	229	11.5	3.1	420	220	10.7	3.1	420	197	10.0	3.1	420	216	10.5	3.1
410	231	11.5	3.1	410	222	10.7	3.1	410	199	10.0	3.1	410	218	10.5	3.1
400	233	11.5	3.1	400	224	10.7	3.1	400	201	10.0	3.1	400	220	10.5	3.1
390	235	11.5	3.1	390	226	10.7	3.1	390	203	10.0	3.1	390	222	10.5	3.1
380	237	11.5	3.1	380	228	10.7	3.1	380	205	10.0	3.1	380	224	10.5	3.1
370	239	11.5	3.1	370	230	10.7	3.1	370	207	10.0	3.1	370	226	10.5	3.1
360	241	11.5	3.1	360	232	10.7	3.1	360	209	10.0	3.1	360	228	10.5	3.1
350	243	11.5	3.1	350	234	10.7	3.1	350	211	10.0	3.1	350	230	10.5	3.1
340	245	11.5	3.1	340	236	10.7	3.1	340	213	10.0	3.1	340	232	10.5	3.1
330	247	11.5	3.1	330	238	10.7	3.1	330	215	10.0	3.1	330	234	10.5	3.1
320	249	11.5	3.1	320	240	10.7	3.1	320	217	10.0	3.1	320	236	10.5	3.1
310	251	11.5	3.1	310	242	10.7	3.1	310	219	10.0	3.1	310	238	10.5	3.1
300	253	11.5	3.1	300	244	10.7	3.1	300	221	10.0	3.1	300	240	10.5	3.1
290	255	11.5	3.1	290	246	10.7	3.1	290	223	10.0	3.1	290	242	10.5	3.1
280	257	11.5	3.1	280	248	10.7	3.1	280	225	10.0	3.1	280	244	10.5	3.1
270	259	11.5	3.1	270	250	10.7	3.1	270	227	10.0	3.1	270	246	10.5	3.1
260	261	11.5	3.1	260	252	10.7	3.1	260	229	10.0	3.1	260	248	10.5	3.1
250	263	11.5	3.1	250	254	10.7	3.1	250	231	10.0	3.1	250	250	10.5	3.1
240	265	11.5	3.1	240	256	10.7	3.1	240	233	10.0	3.1	240	252	10.5	3.1
230	267	11.5	3.1	230	258	10.7	3.1	230	235	10.0	3.1	230	254	10.5	3.1
220	269	11.5	3.1	220	260	10.7	3.1	220	237	10.0	3.1	220	256	10.5	3.1
210	271	11.5	3.1	210	262	10.7	3.1	210	239	10.0	3.1	210	258	10.5	3.1
200	273	11.5	3.1	200	264	10.7	3.1	200	241	10.0	3.1	200	260	10.5	3.1
190	275	11.5	3.1	190	266	10.7	3.1	190	243	10.0	3.1	190	262	10.5	3.1
180	277	11.5	3.1	180	268	10.7	3.1	180	245	10.0	3.1	180	264	10.5	3.1
170	279	11.5	3.1	170	270	10.7	3.1	170	247	10.0	3.1	170			

[illegible]

TABLE 8 (contd)

24 June 61				24 June 61				24 June 61				24 June 61				24 June 61			
Sun 41-8				Sun 41-8				Sun 41-8				Sun 41-8				Sun 41-8			
107.1				107.1				107.1				107.1				107.1			
P	Z	U	W	P	Z	U	W	P	Z	U	W	P	Z	U	W	P	Z	U	W
(mb)	(in)	(in/sec)	(in/sec)	(mb)	(in)	(in/sec)	(in/sec)	(mb)	(in)	(in/sec)	(in/sec)	(mb)	(in)	(in/sec)	(in/sec)	(mb)	(in)	(in/sec)	(in/sec)
106.1	181	11.7	88	106.2	180	11.7	88	106.3	179	11.7	88	106.4	178	11.7	88	106.5	177	11.7	88
106.6	180	11.7	88	106.7	179	11.7	88	106.8	178	11.7	88	106.9	177	11.7	88	107.0	176	11.7	88
107.1	179	11.7	88	107.2	178	11.7	88	107.3	177	11.7	88	107.4	176	11.7	88	107.5	175	11.7	88
107.6	178	11.7	88	107.7	177	11.7	88	107.8	176	11.7	88	107.9	175	11.7	88	108.0	174	11.7	88
108.1	177	11.7	88	108.2	176	11.7	88	108.3	175	11.7	88	108.4	174	11.7	88	108.5	173	11.7	88
108.6	176	11.7	88	108.7	175	11.7	88	108.8	174	11.7	88	108.9	173	11.7	88	109.0	172	11.7	88
109.1	175	11.7	88	109.2	174	11.7	88	109.3	173	11.7	88	109.4	172	11.7	88	109.5	171	11.7	88
109.6	174	11.7	88	109.7	173	11.7	88	109.8	172	11.7	88	109.9	171	11.7	88	110.0	170	11.7	88
110.1	173	11.7	88	110.2	172	11.7	88	110.3	171	11.7	88	110.4	170	11.7	88	110.5	169	11.7	88
110.6	172	11.7	88	110.7	171	11.7	88	110.8	170	11.7	88	110.9	169	11.7	88	111.0	168	11.7	88
111.1	171	11.7	88	111.2	170	11.7	88	111.3	169	11.7	88	111.4	168	11.7	88	111.5	167	11.7	88
111.6	170	11.7	88	111.7	169	11.7	88	111.8	168	11.7	88	111.9	167	11.7	88	112.0	166	11.7	88
112.1	169	11.7	88	112.2	168	11.7	88	112.3	167	11.7	88	112.4	166	11.7	88	112.5	165	11.7	88
112.6	168	11.7	88	112.7	167	11.7	88	112.8	166	11.7	88	112.9	165	11.7	88	113.0	164	11.7	88
113.1	167	11.7	88	113.2	166	11.7	88	113.3	165	11.7	88	113.4	164	11.7	88	113.5	163	11.7	88
113.6	166	11.7	88	113.7	165	11.7	88	113.8	164	11.7	88	113.9	163	11.7	88	114.0	162	11.7	88
114.1	165	11.7	88	114.2	164	11.7	88	114.3	163	11.7	88	114.4	162	11.7	88	114.5	161	11.7	88
114.6	164	11.7	88	114.7	163	11.7	88	114.8	162	11.7	88	114.9	161	11.7	88	115.0	160	11.7	88
115.1	163	11.7	88	115.2	162	11.7	88	115.3	161	11.7	88	115.4	160	11.7	88	115.5	159	11.7	88
115.6	162	11.7	88	115.7	161	11.7	88	115.8	160	11.7	88	115.9	159	11.7	88	116.0	158	11.7	88
116.1	161	11.7	88	116.2	160	11.7	88	116.3	159	11.7	88	116.4	158	11.7	88	116.5	157	11.7	88
116.6	160	11.7	88	116.7	159	11.7	88	116.8	158	11.7	88	116.9	157	11.7	88	117.0	156	11.7	88
117.1	159	11.7	88	117.2	158	11.7	88	117.3	157	11.7	88	117.4	156	11.7	88	117.5	155	11.7	88
117.6	158	11.7	88	117.7	157	11.7	88	117.8	156	11.7	88	117.9	155	11.7	88	118.0	154	11.7	88
118.1	157	11.7	88	118.2	156	11.7	88	118.3	155	11.7	88	118.4	154	11.7	88	118.5	153	11.7	88
118.6	156	11.7	88	118.7	155	11.7	88	118.8	154	11.7	88	118.9	153	11.7	88	119.0	152	11.7	88
119.1	155	11.7	88	119.2	154	11.7	88	119.3	153	11.7	88	119.4	152	11.7	88	119.5	151	11.7	88
119.6	154	11.7	88	119.7	153	11.7	88	119.8	152	11.7	88	119.9	151	11.7	88	120.0	150	11.7	88
120.1	153	11.7	88	120.2	152	11.7	88	120.3	151	11.7	88	120.4	150	11.7	88	120.5	149	11.7	88
120.6	152	11.7	88	120.7	151	11.7	88	120.8	150	11.7	88	120.9	149	11.7	88	121.0	148	11.7	88
121.1	151	11.7	88	121.2	150	11.7	88	121.3	149	11.7	88	121.4	148	11.7	88	121.5	147	11.7	88
121.6	150	11.7	88	121.7	149	11.7	88	121.8	148	11.7	88	121.9	147	11.7	88	122.0	146	11.7	88
122.1	149	11.7	88	122.2	148	11.7	88	122.3	147	11.7	88	122.4	146	11.7	88	122.5	145	11.7	88
122.6	148	11.7	88	122.7	147	11.7	88	122.8	146	11.7	88	122.9	145	11.7	88	123.0	144	11.7	88
123.1	147	11.7	88	123.2	146	11.7	88	123.3	145	11.7	88	123.4	144	11.7	88	123.5	143	11.7	88
123.6	146	11.7	88	123.7	145	11.7	88	123.8	144	11.7	88	123.9	143	11.7	88	124.0	142	11.7	88
124.1	145	11.7	88	124.2	144	11.7	88	124.3	143	11.7	88	124.4	142	11.7	88	124.5	141	11.7	88
124.6	144	11.7	88	124.7	143	11.7	88	124.8	142	11.7	88	124.9	141	11.7	88	125.0	140	11.7	88
125.1	143	11.7	88	125.2	142	11.7	88	125.3	141	11.7	88	125.4	140	11.7	88	125.5	139	11.7	88
125.6	142	11.7	88	125.7	141	11.7	88	125.8	140	11.7	88	125.9	139	11.7	88	126.0	138	11.7	88
126.1	141	11.7	88	126.2	140	11.7	88	126.3	139	11.7	88	126.4	138	11.7	88	126.5	137	11.7	88
126.6	140	11.7	88	126.7	139	11.7	88	126.8	138	11.7	88	126.9	137	11.7	88	127.0	136	11.7	88
127.1	139	11.7	88	127.2	138	11.7	88	127.3	137	11.7	88	127.4	136	11.7	88	127.5	135	11.7	88
127.6	138	11.7	88	127.7	137	11.7	88	127.8	136	11.7	88	127.9	135	11.7	88	128.0	134	11.7	88
128.1	137	11.7	88	128.2	136	11.7	88	128.3	135	11.7	88	128.4	134	11.7	88	128.5	133	11.7	88
128.6	136	11.7	88	128.7	135	11.7	88	128.8	134	11.7	88	128.9	133	11.7	88	129.0	132	11.7	88
129.1	135	11.7	88	129.2	134	11.7	88	129.3	133	11.7	88	129.4	132	11.7	88	129.5	131	11.7	88
129.6	134	11.7	88	129.7	133	11.7	88	129.8	132	11.7	88	129.9	131	11.7	88	130.0	130	11.7	88
130.1	133	11.7	88	130.2	132	11.7	88	130.3	131	11.7	88	130.4	130	11.7	88	130.5	129	11.7	88
130.6	132	11.7	88	130.7	131	11.7	88	130.8	130	11.7	88	130.9	129	11.7	88	131.0	128	11.7	88
131.1	131	11.7	88	131.2	130	11.7	88	131.3	129	11.7	88	131.4	128	11.7	88	131.5	127	11.7	88
131.6	130	11.7	88	131.7	129	11.7	88	131.8	128	11.7	88	131.9	127	11.7	88	132.0	126	11.7	88
132.1	129	11.7	88	132.2	128	11.7	88	132.3	127	11.7	88	132.4	126	11.7	88	132.5	125	11.7	88
132.6	128	11.7	88	132.7	127	11.7	88	132.8	126	11.7	88	132.9	125	11.7	88	133.0	124	11.7	88
133.1	127	11.7	88	133.2	126	11.7	88	133.3	125	11.7	88	133.4	124	11.7	88	133.5	123	11.7	88
133.6	126	11.7	88	133.7	125	11.7	88	133.8	124	11.7	88	133.9	123	11.7	88	134.0	122	11.7	88
134.1	125	11.7	88	134.2	124	11.7	88	134.3	123	11.7	88	134.4	122	11.7	88	134.5	121	11.7	88
134.6	124	11.7	88	134.7	123	11.7	88	134.8	122	11.7	88	134.9	121	11.7	88	135.0	120	11.7	88
135.1	123	11.7	88	135.2	122	11.7	88	135.3	121	11.7	88	135.4	120	11.7	88	135.5	119	11.7	88
135.6	122	11.7	88	135.7	121	11.7	88	135.8	120	11.7	88	135.9	119	11.7	88	136.0	118	11.7	88
136.1	121	11.7	88	136.2	120	11.7	88	136.3	119	11.7	88	136.4	118	11.7	88	136.5	117	11.7	88
136.6	120	11.7	88	136.7	119	11.7	88	136.8	118	11.7	88	136.9	117	11.7	88	137.0	116	11.7	88
137.1	119	11.7	88	137.2	118	11.7	88	137.3	117	11.7	88	137.4	116	11.7	88	137.5	115	11.7	88
137.6	118	11.7	88	137.7	117	11.7	88	137.8	116	11.7	88	137.9	115	11.7	88	138.0	114	11.7	88
138.1	117	11.7	88	138.2	116	11.7	88	138.3	115	11.7	88	138.4	114	11.7	88	138.5	113	11.7	88
138.6	116	11.7	88	13															

[illegible]

6 July 61				8 July 61				13 July 61				17 July 61				20 July 61			
Sun 223-D				0042				1336				Sun 223-D				0008			
(10333)				(13333)				(13333)				(12333)				(12333)			
P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1003	130	14.4	87	1004	149	14.1	73	1007	136	14.1	67	1007	136	14.1	67	1007	136	14.7	78
1006		13.7	88	1006		13.1	73	1006		14.3	44	1006		14.3	44	1006		14.9	78
994		13.0	79	999		11.7	71	992		10.8	42	992		10.8	42	992		14.4	74
974		12.4	42	974		11.1	71	970		10.4	38	970		10.4	38	970		14.7	74
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		23.0	79
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944		10.1	44	944		9.2	40	910		8.5	36	910		8.5	36	910		27.0	78
944																			

TABLE 3 (contd)

8 July 61				10 July 61				11 July 61				12 July 61				1969			
Sum 934-D				Sum 934-D				Sum 934-D				Sum 934-D				Sum 934-D			
P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W
(mb)	(m)	(°C)	(m/sec)	(mb)	(m)	(°C)	(m/sec)	(mb)	(m)	(°C)	(m/sec)	(mb)	(m)	(°C)	(m/sec)	(mb)	(m)	(°C)	(m/sec)
1001	321	11.1	108	1001	321	10.9	108	1000	321	10.8	108	1000	321	10.7	108	1000	321	10.6	108
1002	321	11.0	108	1002	321	10.8	108	1001	321	10.7	108	1001	321	10.6	108	1001	321	10.5	108
1003	321	10.9	108	1003	321	10.7	108	1002	321	10.6	108	1002	321	10.5	108	1002	321	10.4	108
1004	321	10.8	108	1004	321	10.6	108	1003	321	10.5	108	1003	321	10.4	108	1003	321	10.3	108
1005	321	10.7	108	1005	321	10.5	108	1004	321	10.4	108	1004	321	10.3	108	1004	321	10.2	108
1006	321	10.6	108	1006	321	10.4	108	1005	321	10.3	108	1005	321	10.2	108	1005	321	10.1	108
1007	321	10.5	108	1007	321	10.3	108	1006	321	10.2	108	1006	321	10.1	108	1006	321	10.0	108
1008	321	10.4	108	1008	321	10.2	108	1007	321	10.1	108	1007	321	10.0	108	1007	321	9.9	108
1009	321	10.3	108	1009	321	10.1	108	1008	321	10.0	108	1008	321	9.9	108	1008	321	9.8	108
1010	321	10.2	108	1010	321	10.0	108	1009	321	9.9	108	1009	321	9.8	108	1009	321	9.7	108
1011	321	10.1	108	1011	321	9.9	108	1010	321	9.8	108	1010	321	9.7	108	1010	321	9.6	108
1012	321	10.0	108	1012	321	9.8	108	1011	321	9.7	108	1011	321	9.6	108	1011	321	9.5	108
1013	321	9.9	108	1013	321	9.7	108	1012	321	9.6	108	1012	321	9.5	108	1012	321	9.4	108
1014	321	9.8	108	1014	321	9.6	108	1013	321	9.5	108	1013	321	9.4	108	1013	321	9.3	108
1015	321	9.7	108	1015	321	9.5	108	1014	321	9.4	108	1014	321	9.3	108	1014	321	9.2	108
1016	321	9.6	108	1016	321	9.4	108	1015	321	9.3	108	1015	321	9.2	108	1015	321	9.1	108
1017	321	9.5	108	1017	321	9.3	108	1016	321	9.2	108	1016	321	9.1	108	1016	321	9.0	108
1018	321	9.4	108	1018	321	9.2	108	1017	321	9.1	108	1017	321	9.0	108	1017	321	8.9	108
1019	321	9.3	108	1019	321	9.1	108	1018	321	9.0	108	1018	321	8.9	108	1018	321	8.8	108
1020	321	9.2	108	1020	321	9.0	108	1019	321	8.9	108	1019	321	8.8	108	1019	321	8.7	108
1021	321	9.1	108	1021	321	8.9	108	1020	321	8.8	108	1020	321	8.7	108	1020	321	8.6	108
1022	321	9.0	108	1022	321	8.8	108	1021	321	8.7	108	1021	321	8.6	108	1021	321	8.5	108
1023	321	8.9	108	1023	321	8.7	108	1022	321	8.6	108	1022	321	8.5	108	1022	321	8.4	108
1024	321	8.8	108	1024	321	8.6	108	1023	321	8.5	108	1023	321	8.4	108	1023	321	8.3	108
1025	321	8.7	108	1025	321	8.5	108	1024	321	8.4	108	1024	321	8.3	108	1024	321	8.2	108
1026	321	8.6	108	1026	321	8.4	108	1025	321	8.3	108	1025	321	8.2	108	1025	321	8.1	108
1027	321	8.5	108	1027	321	8.3	108	1026	321	8.2	108	1026	321	8.1	108	1026	321	8.0	108
1028	321	8.4	108	1028	321	8.2	108	1027	321	8.1	108	1027	321	8.0	108	1027	321	7.9	108
1029	321	8.3	108	1029	321	8.1	108	1028	321	8.0	108	1028	321	7.9	108	1028	321	7.8	108
1030	321	8.2	108	1030	321	8.0	108	1029	321	7.9	108	1029	321	7.8	108	1029	321	7.7	108
1031	321	8.1	108	1031	321	7.9	108	1030	321	7.8	108	1030	321	7.7	108	1030	321	7.6	108
1032	321	8.0	108	1032	321	7.8	108	1031	321	7.7	108	1031	321	7.6	108	1031	321	7.5	108
1033	321	7.9	108	1033	321	7.7	108	1032	321	7.6	108	1032	321	7.5	108	1032	321	7.4	108
1034	321	7.8	108	1034	321	7.6	108	1033	321	7.5	108	1033	321	7.4	108	1033	321	7.3	108
1035	321	7.7	108	1035	321	7.5	108	1034	321	7.4	108	1034	321	7.3	108	1034	321	7.2	108
1036	321	7.6	108	1036	321	7.4	108	1035	321	7.3	108	1035	321	7.2	108	1035	321	7.1	108
1037	321	7.5	108	1037	321	7.3	108	1036	321	7.2	108	1036	321	7.1	108	1036	321	7.0	108
1038	321	7.4	108	1038	321	7.2	108	1037	321	7.1	108	1037	321	7.0	108	1037	321	6.9	108
1039	321	7.3	108	1039	321	7.1	108	1038	321	7.0	108	1038	321	6.9	108	1038	321	6.8	108
1040	321	7.2	108	1040	321	7.0	108	1039	321	6.9	108	1039	321	6.8	108	1039	321	6.7	108
1041	321	7.1	108	1041	321	6.9	108	1040	321	6.8	108	1040	321	6.7	108	1040	321	6.6	108
1042	321	7.0	108	1042	321	6.8	108	1041	321	6.7	108	1041	321	6.6	108	1041	321	6.5	108
1043	321	6.9	108	1043	321	6.7	108	1042	321	6.6	108	1042	321	6.5	108	1042	321	6.4	108
1044	321	6.8	108	1044	321	6.6	108	1043	321	6.5	108	1043	321	6.4	108	1043	321	6.3	108
1045	321	6.7	108	1045	321	6.5	108	1044	321	6.4	108	1044	321	6.3	108	1044	321	6.2	108
1046	321	6.6	108	1046	321	6.4	108	1045	321	6.3	108	1045	321	6.2	108	1045	321	6.1	108
1047	321	6.5	108	1047	321	6.3	108	1046	321	6.2	108	1046	321	6.1	108	1046	321	6.0	108
1048	321	6.4	108	1048	321	6.2	108	1047	321	6.1	108	1047	321	6.0	108	1047	321	5.9	108
1049	321	6.3	108	1049	321	6.1	108	1048	321	6.0	108	1048	321	5.9	108	1048	321	5.8	108
1050	321	6.2	108	1050	321	6.0	108	1049	321	5.9	108	1049	321	5.8	108	1049	321	5.7	108
1051	321	6.1	108	1051	321	5.9	108	1050	321	5.8	108	1050	321	5.7	108	1050	321	5.6	108
1052	321	6.0	108	1052	321	5.8	108	1051	321	5.7	108	1051	321	5.6	108	1051	321	5.5	108
1053	321	5.9	108	1053	321	5.7	108	1052	321	5.6	108	1052	321	5.5	108	1052	321	5.4	108
1054	321	5.8	108	1054	321	5.6	108	1053	321	5.5	108	1053	321	5.4	108	1053	321	5.3	108
1055	321	5.7	108	1055	321	5.5	108	1054	321	5.4	108	1054	321	5.3	108	1054	321	5.2	108
1056	321	5.6	108	1056	321	5.4	108	1055	321	5.3	108	1055	321	5.2	108	1055	321	5.1	108
1057	321	5.5	108	1057	321	5.3	108	1056	321	5.2	108	1056	321	5.1	108	1056	321	5.0	108
1058	321	5.4	108	1058	321	5.2	108	1057	321	5.1	108	1057	321	5.0	108	1057	321	4.9	108
1059	321	5.3	108	1059	321	5.1	108	1058	321	5.0	108	1058	321	4.9	108	1058	321	4.8	108
1060	321	5.2	108	1060	321	5.0	108	1059	321	4.9	108	1059	321	4.8	108	1059	321	4.7	108
1061	321	5.1	108	1061	321	4.9	108	1060	321	4.8	108	1060	321	4.7	108	1060	321	4.6	108
1062	321	5.0	108	1062	321	4.8	108	1061	321	4.7	108	1061	321	4.6	108	1061	321	4.5	108
1063	321	4.9	108	1063	321	4.7	108	1062	321	4.6	108	1062	321	4.5	108	1062	321	4.4	108
1064	321	4.8	108	1064	321	4.6	108	1063	321	4.5	108	1063	321	4.4	108	1063	321	4.3	108
1065	321	4.7	108	1065	321	4.5	108	1064	321	4.4	108	1064	321	4.3	108	1064	321	4.2	108
1066	321	4.6	108	1066	321	4.4	108	1065	321	4.3	108	1065	321	4.2	108	1065	321	4.1	108
1067	321	4.5	108	1067	321	4.3	108	1066	321	4.2	108	1066	321	4.1	108	1066	321	4.0	

Run 220-B				Run 221-B				Run 222-B				Run 223-D			
17 July 41		18 July 41		19 July 41		20 July 41		18 July 41		19 July 41		20 July 41		21 July 41	
P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W
(m)	(m)	(°C)	(m/sec)	(m)	(m)	(°C)	(m/sec)	(m)	(m)	(°C)	(m/sec)	(m)	(m)	(°C)	(m/sec)
1000	121	84.8	68	1002	181	10.4	73	1002	180	14.5	100	1001	120	17.0	76
1000	121	30.6	75	1000	180	16.1	76	1000	180	14.5	100	1000	120	17.0	76
944	121	22.2	64	938	180	16.1	76	991	180	12.9	72	990	120	17.0	76
944	121	23.0	61	942	180	18.5	76	991	180	18.4	74	990	120	17.0	76
944	121	25.0	61	947	180	21.1	68	945	180	21.8	65	941	120	17.0	76
900	120	26.0	27	940	180	23.5	72	945	180	23.0	33	941	120	17.0	76
880	120	27.2	28	944	180	28.5	72	945	180	28.5	36	941	120	17.0	76
840	120	27.6	28	944	180	30.7	72	945	180	30.7	36	941	120	17.0	76
850	120	27.6	28	944	180	30.7	72	945	180	30.7	36	941	120	17.0	76
800	120	27.6	28	944	180	30.7	72	945	180	30.7	36	941	120	17.0	76
725	120	27.6	28	944	180	30.7	72	945	180	30.7	36	941	120	17.0	76
700	120	27.6	28	944	180	30.7	72	945	180	30.7	36	941	120	17.0	76

[illegible]

[illegible]

TABLE 8 (cont'd)

[illegible]

TABLE 8 (contd)

19 Mar 62 (1521)				19 Mar 62 (1530)				19 Mar 62 (1539)				19 Mar 62 (1545)				19 Mar 62 (1555)			
P	Z	D	S	P	Z	D	S	P	Z	D	S	P	Z	D	S	P	Z	D	S
(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
1000	113	10.5	80	1000	113	10.5	80	1000	113	10.5	80	1000	113	10.5	80	1000	113	10.5	80
974	879	7.1	75	974	879	7.1	75	974	879	7.1	75	974	879	7.1	75	974	879	7.1	75
948	853	5.5	65	948	853	5.5	65	948	853	5.5	65	948	853	5.5	65	948	853	5.5	65
922	827	3.9	55	922	827	3.9	55	922	827	3.9	55	922	827	3.9	55	922	827	3.9	55
896	801	2.3	45	896	801	2.3	45	896	801	2.3	45	896	801	2.3	45	896	801	2.3	45
870	775	0.7	35	870	775	0.7	35	870	775	0.7	35	870	775	0.7	35	870	775	0.7	35
844	749		25	844	749		25	844	749		25	844	749		25	844	749		25
818	723		15	818	723		15	818	723		15	818	723		15	818	723		15
792	697		5	792	697		5	792	697		5	792	697		5	792	697		5
766	671			766	671			766	671			766	671			766	671		

19 Mar 62 (1521)				19 Mar 62 (1530)				19 Mar 62 (1539)				19 Mar 62 (1545)				19 Mar 62 (1555)			
P	Z	D	S	P	Z	D	S	P	Z	D	S	P	Z	D	S	P	Z	D	S
(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
1000	113	10.5	80	1000	113	10.5	80	1000	113	10.5	80	1000	113	10.5	80	1000	113	10.5	80
974	879	7.1	75	974	879	7.1	75	974	879	7.1	75	974	879	7.1	75	974	879	7.1	75
948	853	5.5	65	948	853	5.5	65	948	853	5.5	65	948	853	5.5	65	948	853	5.5	65
922	827	3.9	55	922	827	3.9	55	922	827	3.9	55	922	827	3.9	55	922	827	3.9	55
896	801	2.3	45	896	801	2.3	45	896	801	2.3	45	896	801	2.3	45	896	801	2.3	45
870	775	0.7	35	870	775	0.7	35	870	775	0.7	35	870	775	0.7	35	870	775	0.7	35
844	749		25	844	749		25	844	749		25	844	749		25	844	749		25
818	723		15	818	723		15	818	723		15	818	723		15	818	723		15
792	697		5	792	697		5	792	697		5	792	697		5	792	697		5
766	671			766	671			766	671			766	671			766	671		

Run 973-3				Run 974-3				Run 975-3				Run 976-3				Run 977-3			
11 Mar 63		1445		58 Mar 63		1305		30 Mar 63		1150		31 Mar 63		1880		31 Mar 63		1845	
P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W	P	Z	T	W
(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)	(mb)	(m)	(°C)	(%)
1210		12.8	80	1367		7.2	100	1007		10.4	84	1000		10.4	84	1000		10.4	81
1000	187	11.8	78	1350	130	7.2		1000		10.4	84	1000	100	10.4	84	1000	100	10.4	81
863		10.5	61	974		6.3		990		6.4	78	990		6.4	78	990		6.4	78
818		9.5	51	845		12.1		871		10.3	43	840		10.3	43	840		10.3	43
616		11.5	48	816		17.6		810		17.6	19	800		17.6	19	800		17.6	19
503		16.7	43	616		17.6		600		18.5	18	600		18.5	18	600		18.5	18
484		16.7	43	480		17.2		480		18.4	11	477		18.4	11	477		18.4	11
450		8.6	44	448		15.0		440		15.4	10	440		15.4	10	440		15.4	10
335		8.5	44	330		10.4		330		10.4	10	330		10.4	10	330		10.4	10
330	2044	8.5	43	300		10.4		300		10.4	10	300		10.4	10	300		10.4	10
700		8.5	43	700		10.4		700		10.4	10	700		10.4	10	700		10.4	10
700	2104	8.5	43	700		10.4		700		10.4	10	700		10.4	10	700		10.4	10

Run 081-D				Run 082-D				Run 083-D				Run 084-D			
1 June 82		2 June 82		3 June 82		4 June 82		5 June 82		6 June 82		7 June 82			
P	T	P	T	P	T	P	T	P	T	P	T	P	T		
(mb)	(°C)	(mb)	(°C)	(mb)	(°C)	(mb)	(°C)	(mb)	(°C)	(mb)	(°C)	(mb)	(°C)		
1002	11.1	80	15.9	1004	13.7	74	15	1000	15.0	250	15.1	84	15.1		
1000	13.0	82	15.4	1000	13.9	75	15	1000	15.0	250	15.1	84	15.1		
971	13.8	87	15.9	990	14.1	84	15	1000	15.0	250	15.1	84	15.1		
954	14.1	91	16.2	985	14.2	84	15	1000	15.0	250	15.1	84	15.1		
925	15.7	97	16.7	965	14.3	85	15	1000	15.0	250	15.1	84	15.1		
885	17.0	100	17.0	900	14.3	85	15	1000	15.0	250	15.1	84	15.1		
850	18.5	105	18.5	850	14.3	85	15	1000	15.0	250	15.1	84	15.1		
820	19.5	110	19.5	800	14.3	85	15	1000	15.0	250	15.1	84	15.1		
800	20.0	111	20.0	781	14.3	85	15	1000	15.0	250	15.1	84	15.1		
800	20.0	111	20.0	760	14.3	85	15	1000	15.0	250	15.1	84	15.1		
718	21.8	113	21.8	700	14.3	85	15	1000	15.0	250	15.1	84	15.1		
700	21.8	113	21.8	600	14.3	85	15	1000	15.0	250	15.1	84	15.1		

W/ W/				W/ W/				W/ W/					
2		D		2		D		2		D		2	
(m)	(sec)	(m)	(sec)	(m)	(sec)	(m)	(sec)	(m)	(sec)	(m)	(sec)	(m)	(sec)
280	343	303	457	708	377	60	33	250	330	250	330	250	330
530	339	320	448	470	376	33	30	810	372	372	372	372	372
800	048	718	039	880	036	30	30	1000	036	1000	036	1000	036
1000	029	039	039	1110	036	30	30	1200	036	1200	036	1200	036
1200	029	039	039	1320	036	30	30	1400	036	1400	036	1400	036
1400	024	034	034	1550	036	30	30	1600	036	1600	036	1600	036
1600	114	140	140	1700	338	30	30	1800	036	1800	036	1800	036
2330	100	100	100	1900	353	44	44	2000	036	2000	036	2000	036
2400	048	048	048	2100	341	36	36	2200	036	2200	036	2200	036
2500	048	048	048	2300	320	30	30	2400	036	2400	036	2400	036
2500	048	048	048	2500	320	30	30	2600	036	2600	036	2600	036

TABLE 8 (contd)

Run 815-B				Run 814-D				Run 817-D				Run 818-B			
8 June 82				7 June 82				7 June 82				8 June 82			
(13.13)				(14.23)				(14.50)				(15.11)			
P	Z	T	SH	P	Z	T	SH	P	Z	T	SH	P	Z	T	SH
(mb)	(m)	(°C)	(h)	(mb)	(m)	(°C)	(h)	(mb)	(m)	(°C)	(h)	(mb)	(m)	(°C)	(h)
1001	130	11.1	86	1002	130	13.9	78	1001	106	11.1	87	1001	130	13.2	84
1000		11.0	87	1000		13.5	82	999		11.0	85	1000		13.2	84
999		10.9	87	999		13.2	85	998		10.9	85	999		13.2	84
998		10.8	87	998		13.0	85	997		10.8	85	998		13.2	84
997		10.7	87	997		12.8	85	996		10.7	85	997		13.2	84
996		10.6	87	996		12.6	85	995		10.6	85	996		13.2	84
995		10.5	87	995		12.4	85	994		10.5	85	995		13.2	84
994		10.4	87	994		12.2	85	993		10.4	85	994		13.2	84
993		10.3	87	993		12.0	85	992		10.3	85	993		13.2	84
992		10.2	87	992		11.8	85	991		10.2	85	992		13.2	84
991		10.1	87	991		11.6	85	990		10.1	85	991		13.2	84
990		10.0	87	990		11.4	85	989		10.0	85	990		13.2	84
989		9.9	87	989		11.2	85	988		9.9	85	989		13.2	84
988		9.8	87	988		11.0	85	987		9.8	85	988		13.2	84
987		9.7	87	987		10.8	85	986		9.7	85	987		13.2	84
986		9.6	87	986		10.6	85	985		9.6	85	986		13.2	84
985		9.5	87	985		10.4	85	984		9.5	85	985		13.2	84
984		9.4	87	984		10.2	85	983		9.4	85	984		13.2	84
983		9.3	87	983		10.0	85	982		9.3	85	983		13.2	84
982		9.2	87	982		9.8	85	981		9.2	85	982		13.2	84
981		9.1	87	981		9.6	85	980		9.1	85	981		13.2	84
980		9.0	87	980		9.4	85	979		9.0	85	980		13.2	84
979		8.9	87	979		9.2	85	978		8.9	85	979		13.2	84
978		8.8	87	978		9.0	85	977		8.8	85	978		13.2	84
977		8.7	87	977		8.8	85	976		8.7	85	977		13.2	84
976		8.6	87	976		8.6	85	975		8.6	85	976		13.2	84
975		8.5	87	975		8.4	85	974		8.5	85	975		13.2	84
974		8.4	87	974		8.2	85	973		8.4	85	974		13.2	84
973		8.3	87	973		8.0	85	972		8.3	85	973		13.2	84
972		8.2	87	972		7.8	85	971		8.2	85	972		13.2	84
971		8.1	87	971		7.6	85	970		8.1	85	971		13.2	84
970		8.0	87	970		7.4	85	969		8.0	85	970		13.2	84
969		7.9	87	969		7.2	85	968		7.9	85	969		13.2	84
968		7.8	87	968		7.0	85	967		7.8	85	968		13.2	84
967		7.7	87	967		6.8	85	966		7.7	85	967		13.2	84
966		7.6	87	966		6.6	85	965		7.6	85	966		13.2	84
965		7.5	87	965		6.4	85	964		7.5	85	965		13.2	84
964		7.4	87	964		6.2	85	963		7.4	85	964		13.2	84
963		7.3	87	963		6.0	85	962		7.3	85	963		13.2	84
962		7.2	87	962		5.8	85	961		7.2	85	962		13.2	84
961		7.1	87	961		5.6	85	960		7.1	85	961		13.2	84
960		7.0	87	960		5.4	85	959		7.0	85	960		13.2	84
959		6.9	87	959		5.2	85	958		6.9	85	959		13.2	84
958		6.8	87	958		5.0	85	957		6.8	85	958		13.2	84
957		6.7	87	957		4.8	85	956		6.7	85	957		13.2	84
956		6.6	87	956		4.6	85	955		6.6	85	956		13.2	84
955		6.5	87	955		4.4	85	954		6.5	85	955		13.2	84
954		6.4	87	954		4.2	85	953		6.4	85	954		13.2	84
953		6.3	87	953		4.0	85	952		6.3	85	953		13.2	84
952		6.2	87	952		3.8	85	951		6.2	85	952		13.2	84
951		6.1	87	951		3.6	85	950		6.1	85	951		13.2	84
950		6.0	87	950		3.4	85	949		6.0	85	950		13.2	84
949		5.9	87	949		3.2	85	948		5.9	85	949		13.2	84
948		5.8	87	948		3.0	85	947		5.8	85	948		13.2	84
947		5.7	87	947		2.8	85	946		5.7	85	947		13.2	84
946		5.6	87	946		2.6	85	945		5.6	85	946		13.2	84
945		5.5	87	945		2.4	85	944		5.5	85	945		13.2	84
944		5.4	87	944		2.2	85	943		5.4	85	944		13.2	84
943		5.3	87	943		2.0	85	942		5.3	85	943		13.2	84
942		5.2	87	942		1.8	85	941		5.2	85	942		13.2	84
941		5.1	87	941		1.6	85	940		5.1	85	941		13.2	84
940		5.0	87	940		1.4	85	939		5.0	85	940		13.2	84
939		4.9	87	939		1.2	85	938		4.9	85	939		13.2	84
938		4.8	87	938		1.0	85	937		4.8	85	938		13.2	84
937		4.7	87	937		0.8	85	936		4.7	85	937		13.2	84
936		4.6	87	936		0.6	85	935		4.6	85	936		13.2	84
935		4.5	87	935		0.4	85	934		4.5	85	935		13.2	84
934		4.4	87	934		0.2	85	933		4.4	85	934		13.2	84
933		4.3	87	933		0.0	85	932		4.3	85	933		13.2	84
932		4.2	87	932			85	931		4.2	85	932		13.2	84
931		4.1	87	931			85	930		4.1	85	931		13.2	84
930		4.0	87	930			85	929		4.0	85	930		13.2	84
929		3.9	87	929			85	928		3.9	85	929		13.2	84
928		3.8	87	928			85	927		3.8	85	928		13.2	84
927		3.7	87	927			85	926		3.7	85	927		13.2	84
926		3.6	87	926			85	925		3.6	85	926		13.2	84
925		3.5	87	925			85	924		3.5	85	925		13.2	84
924		3.4	87	924			85	923		3.4	85	924		13.2	84
923		3.3	87	923			85	922		3.3	85	923		13.2	84
922		3.2	87	922			85	921		3.2	85	922		13.2	84
921		3.1	87	921			85	920		3.1	85	921		13.2	84
920		3.0	87	920			85	919		3.0	85	920		13.2	84
919		2.9	87	919			85	918		2.9	85	919		13.2	84
918		2.8	87	918			85	917		2.8	85	918		13.2	84
917		2.7	87	917			85	916		2.7	85	917		13.2	84
916		2.6	87	916			85	915		2.6	85	916		13.2	84
915		2.5	87	915			85	914		2.5	85	915		13.2	84
914		2.4	87	914			85	913		2.4	85	914		13.2	84
913		2.3	87	913			85	912		2.3	85	913		13.2	84
912		2.2	87	912			85	911		2.2	85	912		13.2	84
911		2.1	87	911			85	910		2.1	85	911		13.2	84
910		2.0	87	910			85	909		2.0	85	910		13.2	84
909		1.9	87	909			85	908		1.9	85	909		13.2	84
908		1.8	87	908			85	907		1.8	85	908		13.2	84
907		1.7	87	907			85	906		1.7	85	907		13.2	84
906		1.6	87	906			85	905		1.6	85	906		13.2	84
905		1.5	87	905			85	904		1.5	85	905		13.2	84
904		1.4	87	904			85	903		1.4	85	904		13.2	84
903		1.3	87	903			85	902		1.3	85	903		13.2	84
902		1.2	87	902			85	901		1.2	85	902		13.2	84
901		1.1	87	901			85	900		1.1	85	901		13.2	84

TABLE 8 (contd)

12 June 62	Run 51-3			Run 53-3			Run 54-3			Run 55-3			Run 56-3		
	P	T	W	P	T	W	P	T	W	P	T	W	P	T	W
1000	13.1	70	1000	13.7	63	1000	14.0	58	1000	14.2	55	1000	14.1	54	1000
970	13.1	70	970	13.7	63	970	14.0	58	970	14.2	55	970	14.1	54	970
938	13.1	70	938	13.7	63	938	14.0	58	938	14.2	55	938	14.1	54	938
906	13.1	70	906	13.7	63	906	14.0	58	906	14.2	55	906	14.1	54	906
874	13.1	70	874	13.7	63	874	14.0	58	874	14.2	55	874	14.1	54	874
842	13.1	70	842	13.7	63	842	14.0	58	842	14.2	55	842	14.1	54	842
810	13.1	70	810	13.7	63	810	14.0	58	810	14.2	55	810	14.1	54	810
778	13.1	70	778	13.7	63	778	14.0	58	778	14.2	55	778	14.1	54	778
746	13.1	70	746	13.7	63	746	14.0	58	746	14.2	55	746	14.1	54	746
714	13.1	70	714	13.7	63	714	14.0	58	714	14.2	55	714	14.1	54	714
682	13.1	70	682	13.7	63	682	14.0	58	682	14.2	55	682	14.1	54	682
650	13.1	70	650	13.7	63	650	14.0	58	650	14.2	55	650	14.1	54	650
618	13.1	70	618	13.7	63	618	14.0	58	618	14.2	55	618	14.1	54	618
586	13.1	70	586	13.7	63	586	14.0	58	586	14.2	55	586	14.1	54	586
554	13.1	70	554	13.7	63	554	14.0	58	554	14.2	55	554	14.1	54	554
522	13.1	70	522	13.7	63	522	14.0	58	522	14.2	55	522	14.1	54	522
490	13.1	70	490	13.7	63	490	14.0	58	490	14.2	55	490	14.1	54	490
458	13.1	70	458	13.7	63	458	14.0	58	458	14.2	55	458	14.1	54	458
426	13.1	70	426	13.7	63	426	14.0	58	426	14.2	55	426	14.1	54	426
394	13.1	70	394	13.7	63	394	14.0	58	394	14.2	55	394	14.1	54	394
362	13.1	70	362	13.7	63	362	14.0	58	362	14.2	55	362	14.1	54	362
330	13.1	70	330	13.7	63	330	14.0	58	330	14.2	55	330	14.1	54	330
298	13.1	70	298	13.7	63	298	14.0	58	298	14.2	55	298	14.1	54	298
266	13.1	70	266	13.7	63	266	14.0	58	266	14.2	55	266	14.1	54	266
234	13.1	70	234	13.7	63	234	14.0	58	234	14.2	55	234	14.1	54	234
202	13.1	70	202	13.7	63	202	14.0	58	202	14.2	55	202	14.1	54	202
170	13.1	70	170	13.7	63	170	14.0	58	170	14.2	55	170	14.1	54	170
138	13.1	70	138	13.7	63	138	14.0	58	138	14.2	55	138	14.1	54	138
106	13.1	70	106	13.7	63	106	14.0	58	106	14.2	55	106	14.1	54	106
74	13.1	70	74	13.7	63	74	14.0	58	74	14.2	55	74	14.1	54	74
42	13.1	70	42	13.7	63	42	14.0	58	42	14.2	55	42	14.1	54	42

12 June 62	Run 51-3			Run 53-3			Run 54-3			Run 55-3			Run 56-3		
	P	T	W	P	T	W	P	T	W	P	T	W	P	T	W
1000	13.1	70	1000	13.7	63	1000	14.0	58	1000	14.2	55	1000	14.1	54	1000
970	13.1	70	970	13.7	63	970	14.0	58	970	14.2	55	970	14.1	54	970
938	13.1	70	938	13.7	63	938	14.0	58	938	14.2	55	938	14.1	54	938
906	13.1	70	906	13.7	63	906	14.0	58	906	14.2	55	906	14.1	54	906
874	13.1	70	874	13.7	63	874	14.0	58	874	14.2	55	874	14.1	54	874
842	13.1	70	842	13.7	63	842	14.0	58	842	14.2	55	842	14.1	54	842
810	13.1	70	810	13.7	63	810	14.0	58	810	14.2	55	810	14.1	54	810
778	13.1	70	778	13.7	63	778	14.0	58	778	14.2	55	778	14.1	54	778
746	13.1	70	746	13.7	63	746	14.0	58	746	14.2	55	746	14.1	54	746
714	13.1	70	714	13.7	63	714	14.0	58	714	14.2	55	714	14.1	54	714
682	13.1	70	682	13.7	63	682	14.0	58	682	14.2	55	682	14.1	54	682
650	13.1	70	650	13.7	63	650	14.0	58	650	14.2	55	650	14.1	54	650
618	13.1	70	618	13.7	63	618	14.0	58	618	14.2	55	618	14.1	54	618
586	13.1	70	586	13.7	63	586	14.0	58	586	14.2	55	586	14.1	54	586
554	13.1	70	554	13.7	63	554	14.0	58	554	14.2	55	554	14.1	54	554
522	13.1	70	522	13.7	63	522	14.0	58	522	14.2	55	522	14.1	54	522
490	13.1	70	490	13.7	63	490	14.0	58	490	14.2	55	490	14.1	54	490
458	13.1	70	458	13.7	63	458	14.0	58	458	14.2	55	458	14.1	54	458
426	13.1	70	426	13.7	63	426	14.0	58	426	14.2	55	426	14.1	54	426
394	13.1	70	394	13.7	63	394	14.0	58	394	14.2	55	394	14.1	54	394
362	13.1	70	362	13.7	63	362	14.0	58	362	14.2	55	362	14.1	54	362
330	13.1	70	330	13.7	63	330	14.0	58	330	14.2	55	330	14.1	54	330
298	13.1	70	298	13.7	63	298	14.0	58	298	14.2	55	298	14.1	54	298
266	13.1	70	266	13.7	63	266	14.0	58	266	14.2	55	266	14.1	54	266
234	13.1	70	234	13.7	63	234	14.0	58	234	14.2	55	234	14.1	54	234
202	13.1	70	202	13.7	63	202	14.0	58	202	14.2	55	202	14.1	54	202
170	13.1	70	170	13.7	63	170	14.0	58	170	14.2	55	170	14.1	54	170
138	13.1	70	138	13.7	63	138	14.0	58	138	14.2	55	138	14.1	54	138
106	13.1	70	106	13.7	63	106	14.0	58	106	14.2	55	106	14.1	54	106
74	13.1	70	74	13.7	63	74	14.0	58	74	14.2	55	74	14.1	54	74
42	13.1	70	42	13.7	63	42	14.0	58	42	14.2	55	42	14.1	54	42

Run 997-D 11400				Run 998-D 12000				Run 999-B 13117				Run 1000-B 13103			
21 June 62	1900	21 June 62	1900	21 June 62	1900	21 June 62	1900	21 June 62	1900	21 June 62	1900	21 June 62	1900	21 June 62	1900
P	T	Z	W	P	T	Z	W	P	T	Z	W	P	T	Z	W
(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
1000	13.2	80	90	1000	14.5	84	1000	14.5	81	1000	14.5	1000	14.5	84	1000
970	13.2	91	90	970	14.5	84	970	14.5	81	970	14.5	970	14.5	84	970
940	13.2	91	90	940	14.5	84	940	14.5	81	940	14.5	940	14.5	84	940
910	13.2	91	90	910	14.5	84	910	14.5	81	910	14.5	910	14.5	84	910
880	13.2	91	90	880	14.5	84	880	14.5	81	880	14.5	880	14.5	84	880
850	13.2	91	90	850	14.5	84	850	14.5	81	850	14.5	850	14.5	84	850
820	13.2	91	90	820	14.5	84	820	14.5	81	820	14.5	820	14.5	84	820
790	13.2	91	90	790	14.5	84	790	14.5	81	790	14.5	790	14.5	84	790
760	13.2	91	90	760	14.5	84	760	14.5	81	760	14.5	760	14.5	84	760
730	13.2	91	90	730	14.5	84	730	14.5	81	730	14.5	730	14.5	84	730
700	13.2	91	90	700	14.5	84	700	14.5	81	700	14.5	700	14.5	84	700
670	13.2	91	90	670	14.5	84	670	14.5	81	670	14.5	670	14.5	84	670
640	13.2	91	90	640	14.5	84	640	14.5	81	640	14.5	640	14.5	84	640
610	13.2	91	90	610	14.5	84	610	14.5	81	610	14.5	610	14.5	84	610
580	13.2	91	90	580	14.5	84	580	14.5	81	580	14.5	580	14.5	84	580
550	13.2	91	90	550	14.5	84	550	14.5	81	550	14.5	550	14.5	84	550
520	13.2	91	90	520	14.5	84	520	14.5	81	520	14.5	520	14.5	84	520
490	13.2	91	90	490	14.5	84	490	14.5	81	490	14.5	490	14.5	84	490
460	13.2	91	90	460	14.5	84	460	14.5	81	460	14.5	460	14.5	84	460
430	13.2	91	90	430	14.5	84	430	14.5	81	430	14.5	430	14.5	84	430
400	13.2	91	90	400	14.5	84	400	14.5	81	400	14.5	400	14.5	84	400
370	13.2	91	90	370	14.5	84	370	14.5	81	370	14.5	370	14.5	84	370
340	13.2	91	90	340	14.5	84	340	14.5	81	340	14.5	340	14.5	84	340
310	13.2	91	90	310	14.5	84	310	14.5	81	310	14.5	310	14.5	84	310
280	13.2	91	90	280	14.5	84	280	14.5	81	280	14.5	280	14.5	84	280
250	13.2	91	90	250	14.5	84	250	14.5	81	250	14.5	250	14.5	84	250
220	13.2	91	90	220	14.5	84	220	14.5	81	220	14.5	220	14.5	84	220
190	13.2	91	90	190	14.5	84	190	14.5	81	190	14.5	190	14.5	84	190
160	13.2	91	90	160	14.5	84	160	14.5	81	160	14.5	160	14.5	84	160
130	13.2	91	90	130	14.5	84	130	14.5	81	130	14.5	130	14.5	84	130
100	13.2	91	90	100	14.5	84	100	14.5	81	100	14.5	100	14.5	84	100
70	13.2	91	90	70	14.5	84	70	14.5	81	70	14.5	70	14.5	84	70
40	13.2	91	90	40	14.5	84	40	14.5	81	40	14.5	40	14.5	84	40
10	13.2	91	90	10	14.5	84	10	14.5	81	10	14.5	10	14.5	84	10
0	13.2	91	90	0	14.5	84	0	14.5	81	0	14.5	0	14.5	84	0

[illegible]

IV. 1. (cont)

[illegible]