

ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF ENFORCEMENT

EPA-330/2-77-005-A

*IMPACT OF
PARTICULATE MATTER EMISSIONS
ON AMBIENT AIR QUALITY*

United States Steel Corporation - Geneva Works

Appendix I - Ambient Air Quality

(MAY 1976-JANUARY 1977)

NATIONAL ENFORCEMENT INVESTIGATIONS CENTER

DENVER, COLORADO

APRIL 1977



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Frontispiece—Typical Air Quality Monitoring Station Used by NEIC

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I. INTRODUCTION

BACKGROUND

In May 1972, Environmental Protection Agency (EPA) disapproved the control strategy for particulate matter for the Wasatch Front Intrastate Air Quality Control Region (AQCR) in Utah. On May 14, 1973, EPA promulgated particulate matter control regulations applicable to, among other things, several of the process and fugitive sources at United States Steel Corporation (USSC)-Geneva Works, Orem, Utah. USSC, in turn, filed a "Petition for Reconsideration."

Following meetings with USSC and several plant visits, EPA proposed amendments to those regulations and held a public hearing. On September 5, 1974, EPA promulgated final particulate matter regulations for USSC in the Utah State Implementation Plan (SIP), including limitations on visible emissions from various portions of coking operations as well as specific limitations on particulate emissions from open hearth furnaces and sintering plants. Specific limitations are detailed in Appendix II¹ of this report.* On October 4, 1974, USSC filed a second petition challenging certain aspects of the revised regulations.

The EPA Region VIII office developed and, in December 1975, submitted a revised set of regulations through the EPA concurrence route. These proposed regulations acknowledged the inapplicability of the Utah visible emissions regulation to coke pushing operations and relaxed standards on allowable visible emissions on coke oven doors; however, they require that the Geneva Works power plant meet an emission standard more stringent than the requirements for other power plants in the AQCR. The Region also provided a technical summary to justify its proposal,

* Explanation of the four-volume Geneva Works report on following page.

which focused on a revised emissions inventory and air quality conditions at that time.

On March 12, 1976, the EPA Division of Stationary Source Enforcement (DSSE) expressed concern with the Region VIII technical justification underlying its regulation package. DSSE asked the National Enforcement Investigations Center (NEIC) to gather additional data (emissions and air quality) to evaluate the adequacy of the regulations for the control of particulate matter from USSC Geneva Works.

The report evaluating the adequacy of the Utah SIP as it pertains to USSC Geneva Works is contained in four volumes. Appendix I - Ambient Air Quality deals with the design, operation, and results of the NEIC air quality monitoring effort. Appendix II - Source Identification deals with the evaluation of process operations and air pollution control equipment, as well as development of a revised emissions inventory. Appendix III - Source/Receptor Relationships deals with the methodology employed, analyses performed, and results of the NEIC emissions characterization effort. The fourth volume, Summary Report, contains an analysis of all the findings in the three appendices, and the recommendations.

SITE DESCRIPTION

The USSC-Geneva Works is a totally integrated steel production facility located on the eastern shore of Utah Lake near Orem, Utah. The facility, constructed in 1942-43, was owned and operated by the U. S. Government during World War II and subsequently purchased by USSC.

The main production facilities consist of three blast furnaces, four coke batteries, a coke byproducts complex containing three separate plants, a sintering plant, ten open hearth furnaces, and rolling mills

for production of structural shapes, plate and strip steel and steel pipe. Support services include a foundry area, a power plant, slag handling facilities operated by Heckett Engineering Company, and shop areas. These facilities are described in detail in Appendix II.¹

About 4,600 people are employed at the complex at full operation. USSC has provided annual production data indicating 1.4 million m. tons (1.6 million tons) of hot metal produced by blast furnaces and 2.2 million m. tons (2.4 million tons) of ingot steel from open hearth furnaces. Ingot steel is consumed to produce about 0.67 million m. tons (0.75 million tons) of steel plate, 0.96 million m. tons (1.06 million tons) of coiled strip, 0.14 million m. tons (0.16 million tons) of sheets, and 0.08 million m. tons (0.09 million tons) of structural shapes. Ingots are also shipped to USSC plants on the West Coast for further processing.

TOPOGRAPHY

The USSC-Geneva Works is located on the northeast shore of Utah Lake in the Utah Valley, just west of Orem, Utah and about 45 miles south-southwest of Salt Lake City, Utah [Figure 1]. The Utah Valley is kidney-shaped about 56 km (35 mi) by 32 km (mi), oriented with the long axis about northwest/southeast. The valley is formed by the Wasatch Range (2,600 to 3,500 m or 8,500 to 12,000 ft MSL*) on the east and the Lake Range (about 2,300 m or 7,500 ft MSL) on the west. The Traverse Mountains (1,400 to 1,800 m or 4,500 to 6,000 ft MSL) close the northern end of the valley, and a low range of unnamed hills close the southern end. Utah Lake is about 40 km (25 m) long by 11 km (7 mi) wide at its widest point, and is located on the west side of the valley. Surface level of the lake is about 1,400 m (4,500 ft) MSL.

* Mean Sea Level.



Figure 1. Location of Facility
and Sampling Stations

Legend:

- Existing Stations
- ② Study Stations

The Wasatch Mountains extend from southern Idaho through Central Utah into the southwest portion of the state. The range divides the Colorado River Basin on the east from the Great Basin area to the west. Known locally as the "Wasatch Front," this topographic feature dominates the valley. Utah Lake and the Wasatch Front are the primary topographic features which affect meteorological conditions in the Valley. A series of rivers and creeks drain the west side of the Wasatch Front (notably the Provo River, Hobble Creek, and Spanish Fork) into Utah Lake and have cut deep canyons in the range. These canyons also affect meteorological conditions in the valley.

Utah Lake is drained by the Jordan River which flows through the Traverse Mountains at the Jordan Narrows, continuing through the Salt Lake Valley into the Great Salt Lake. Flow gradient of the Jordan River from the lake to the Jordan Narrows is very slight; about 3 m (10 ft) in 8 km (5 mi). This slight gradient continues through the Salt Lake Valley. The difference in altitude between the Jordan River at Jordan Narrows and the Great Salt Lake is about 90 m (300 ft) in a distance of about 32 km (20 mi).

CLIMATOLOGY

The Utah Valley, like most of northern Utah, has a semi-arid continental climate, with four well-defined seasons. Summers are characterized by hot, dry weather, though the high temperatures are not oppressive because of the generally low relative humidities. Nights are generally quite cool. Winters are moderately cold, though this area is protected by the mountains to the north and east from incursions of cold continental air masses. Precipitation is extremely light during the summer and early fall, reaching a maximum during the spring as the frequency of Pacific storms reaches a maximum.

There are virtually no recent climatological studies of the Utah

Valley. A limited number of studies were conducted by Hale^{2,3} of Brigham Young University in the 1930's and 40's. Dr. Hale described in general the canyon winds of the Wasatch Mountains and noted the diurnal variation of these winds--down-canyon during the night and up-canyon during the day. He concluded that these winds were clear-weather phenomena, that wind speeds were "ineffective" five miles out of the canyon, that the drainage winds were shallow (extending not more than 900 m or 3,000 ft above terrain), and that the winds spread out fan-like over the valley floor.²

In the mid-1940's, a total of 5,600 wind speed and direction observations at Provo Airport (about 6 miles south of USSC-Geneva) were classified by Hale. These observations were collected four times daily from December 1943 to October 1947. The observations were made at 8 a.m., 12 noon, 4 p.m., and 8 p.m. daily; however, there is no specification as to method of measurement or averaging time. Wind roses were constructed for each time of day and for each of the four seasons.

Hale concluded from this analysis that there were definite diurnal shifts in wind direction in all seasons. Winds were predominantly southeast at 8 a.m., with a maximum of frequency of 43% during summer months and a minimum of 24% during winter months. By 12 noon the wind veered to the southwest in all seasons except summer when direction persisted in the southeast. By 4 p.m. and continuing through 8 p.m., winds shifted to the northwest. No data were available from 8 p.m. until 8 a.m. the next day. Hale concluded from this study that diurnal fluctuations in wind were orographic (caused by terrain), resulting from downflow of cool air from elevated terrain during nighttime and morning, with upflow of warm air from the valley floor during the day.³

PERMANENT AIR MONITORING

At present, a total of 14 air sampling stations are permanently

operated in the Utah Valley--seven each by USSC and the Utah State Health Department (USHD). Locations of these stations are shown in Figure 2. At the USHD stations, particulate concentrations are measured using standard high-volume samplers (Hi-Vols) operating over a 24-hour period. Data are collected daily and reported monthly as well as summarized annually. At the USSC stations, particulate is measured using low-volume samplers (Lo-Vols) which are operated for a seven-day period. Data collected from these stations were provided NEIC by USSC on a monthly basis during this study period.

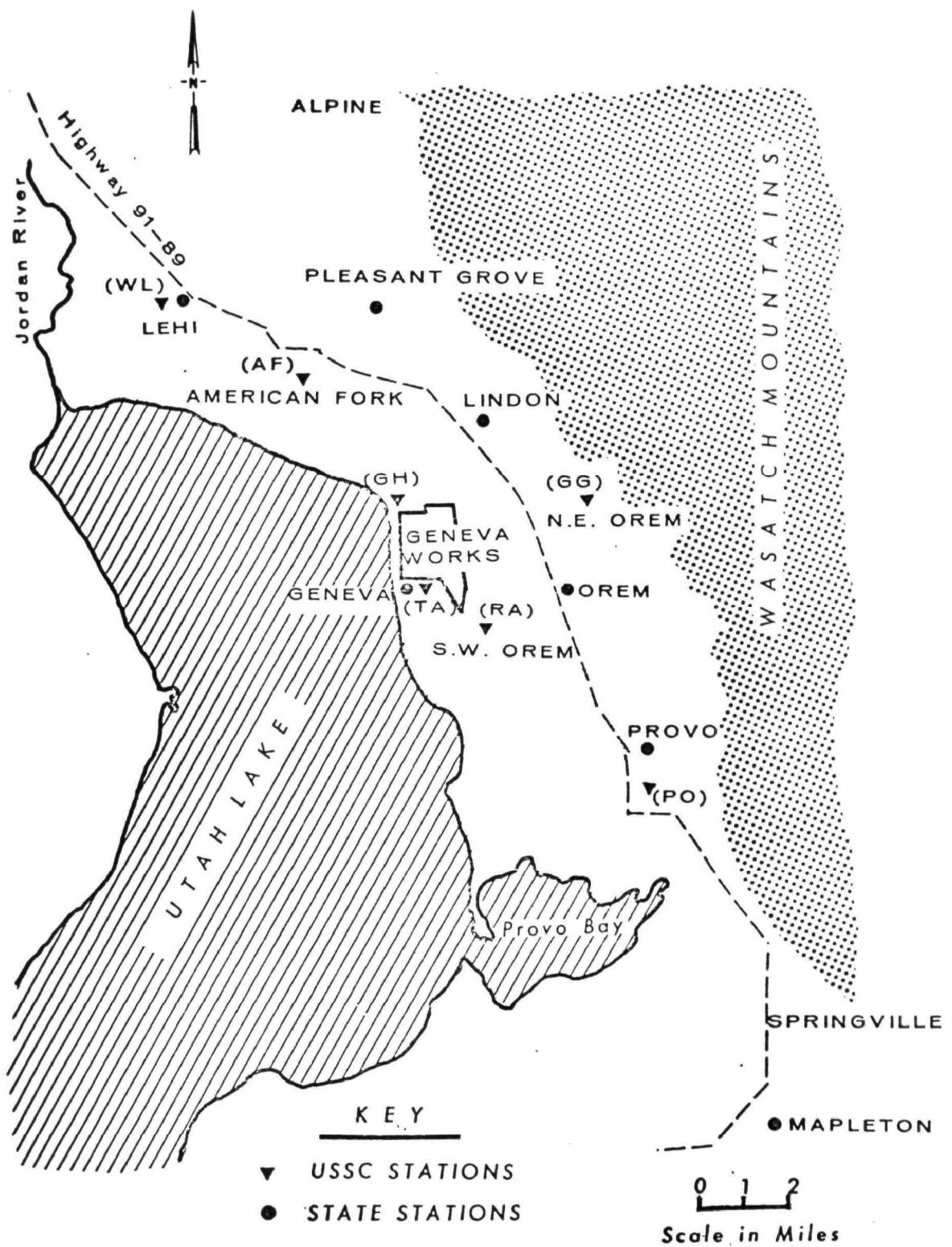


Figure 2. Permanent Air Sampling Station Locations in Utah County

II. SUMMARY AND CONCLUSIONS

In response to a request by the EPA Division of Stationary Source Enforcement, the NEIC undertook an investigation of the particulate emissions from the USSC-Geneva Works at Orem, Utah, and the impact of these emissions on the ambient air quality of the Wasatch Front Intra-state AQCR. One portion of the NEIC program was oriented to documenting peak 24-hour particulate concentrations within the Utah Valley. Seven ambient air quality monitoring stations were installed in the near vicinity of the Geneva Works and total suspended particulates (TSP) and meteorological data were collected from May 25, 1976 to January 19, 1977. Data from these stations, as well as from seven permanent stations operated by the Utah State Health Department, were analyzed to characterize air quality conditions in the Utah Valley. Because of problems associated with design and calibration of Hi-vol samplers, data collected during the period May 25 to July 5, 1976 were evaluated only for general trends. Significant interference from a fugitive dust source also limited the validity of data from NEIC station 6 for a portion of the survey. Data were analyzed according to four time periods: Early Summer (May 25 to July 5), Late Summer (July 19 to August 31), Fall (September 1 to November 5), and Winter (November 19, 1976 to January 19, 1977). This appendix summarizes the results of this investigation.

The primary criteria used in data analysis were 24-hour primary and secondary excursions. A primary excursion was defined as any 24-hour concentration greater than $260 \mu\text{g}/\text{m}^3$; a secondary excursion was defined as any 24-hour concentration within a range from more than or equal to $150 \mu\text{g}/\text{m}^3$ to $260 \mu\text{g}/\text{m}^3$. Geometric means were also calculated for the 24-hour concentrations over a specified time interval. Geometric means for the six-month period July 19, 1976 to January 19, 1977 have been

concluded to be representative of annual geometric means since emissions from the Geneva Works, as well as meteorological conditions, were representative of the yearly cycle.

The following conclusions were developed based on the data collected during this investigation:

1. Peak 24-hour concentrations as high as $490 \mu\text{g}/\text{m}^3$ were documented at station 5 on the NEIC sampling network during the winter portion of the survey.
2. Violations of the 24-hour primary standard were documented at six of seven NEIC stations and at the USHD Lindon station. Violations of the 24-hour secondary particulate standard were documented at all stations in the Utah Valley.
3. A total of 78 primary excursions and 335 secondary excursions were observed at six of seven NEIC USHD stations (station 6 excluded) and during the period July 19, 1976 to January 19, 1977. Thirty-three of these excursions were recorded at NEIC station 5.
4. Geometric Mean TSP concentrations in excess of the primary annual standard were documented at all NEIC stations and at all USHD stations except Mapleton.
5. General trends in TSP concentrations indicate the following:
 - a. TSP concentrations in the Utah Valley are a function of distance from the Geneva Works, with the highest concentrations occurring at stations nearest the plant.

- b. TSP concentrations increased over the period, consistent with expected patterns associated with longer nights and subsequently stronger and more persistent inversions. However, when coal was burned in the power boilers, TSP concentrations increased beyond levels which could be expected to result solely from conducive meteorology.

III. PROJECT DESCRIPTION

OBJECTIVES

The overall objectives of the were to:

1. Document peak 24-hour ambient concentrations of particulates at receptors in the vicinity of the Geneva Works.
2. Identify the major sources of particulate emissions causing high ambient particulate levels.
3. Approximate the contribution of each source at the receptors.

The discussion and data reported herein specifically address the first objective. Appendix II addresses the second objective. The data from this Appendix and Appendix II are integrated with specific activities in Appendix III, which addresses the third objective.

METHODOLOGY

The sampling network was designed on the assumption that maximum total suspended particulate concentrations would be observed during night and early morning when maximum inversion conditions occur. On the basis of limited climatological data available, stations were sited primarily north of the USSC plant. The general layout of the sampling network is shown in Figure 1. A description of the specific location of each station is given in Table 1. The Utah State Health Department "Geneva" station was not operated by NEIC, but the data were provided by the Department and are included here for evaluation with data from the NEIC stations.

Table 1
DESCRIPTION OF SAMPLING STATIONS
USSC AIR QUALITY MONITORING STUDY

Station No.	Location Description
1	USSC property at the wastewater measuring weir, about 365 m (400 yd) north-northeast of the weir of the main cooling pond and 90 m (100 yd) east of the wastewater polishing pond. (Section 6, Township 6 South, Range 2 East.)
2	The southeast corner of the Utah County dump about 1.2 km (3/4 mile) due north of station 1. (Near section line of Section 6, Township 6 South, Range 2 East and Section 31, Township 31 South, Range 2 East.)
3	At the southeast corner of the former Devon Industries solid waste processing plant directly across fence from the USSC property near area where waste slag is deposited from Heckett Engineering Operation. (Section 5, Township 6 South, Range 2 East.)
4	In yard of deserted farm ("Walter Denver" place), owned by Holly Maxfield and about 400 m (1/4 mile) north of USSC property line. (Section 5, Township 6 South, Range 2 East.)
5	Utah State right-of-way at 16th north street, Orem and Interstate 15. (Section 4, Township 6 South, Range 2 East.)
6	On Alton Morrill farm, 225 m (250 yd) north of 4th South St., Orem, and 225 m (250 yd) west of Interstate 15. (Section 16, Township 6 South, Range 2 East.)
7	On roof of restroom building at rest area, southbound Interstate 15, about 3 km (2 miles) southeast of American Fork Utah and 1.5 km (1 mile) north northwest of station 2. (Section 31, Township 5 South, Range 2 East.)
USHD Geneva Station	About 45 m (50 yd) south of USSC cooling pond, at section pond, at section line between Sections 7 and 8, Township 6 South, Range 2 East. Operated by Utah State Health Department.

The sampling network was designed and operated under the supervision of NEIC personnel. H. E. Cramer Company, Salt Lake City, Utah was retained under contract to perform the following in support of the survey:

1. Advise in selection of sampling sites.
2. Reduce and process meteorological data.
3. Perform independent calibration of meteorological equipment twice monthly.
4. Assist in mechanical maintenance of particulate sampling equipment as necessary.
5. Provide technical advice on and critique of this report.

Temporary employees were recruited from the Physics and Meteorology Department of the University of Utah for day-to-day servicing of sampling equipment and meteorological instrumentation. Meteorological instrumentation was obtained on loan from the U. S. Army Test and Evaluation Command, Dugway Proving Ground, Utah.

TSP Sampling

Four Hi-Vols were placed at each station, except station 7, where only three were used. One sampler was in operation on any given day; the remaining samplers were either set to operate on successive days or used in conjunction with wind-activated sampling activities which will be discussed in Appendix III. At stations 1 through 6, the samplers were installed on commercial scaffolding with the base of the sampler 3 m (10 ft) above the ground. A photograph of a typical station is shown in the frontispiece. At station 7, the sampler was placed on the roof of a one-story building at a height of about 2.4 m (8 ft). The Hi-Vols used by NEIC were manufactured by either MISCO Instrumentation Specialties Company or General Metals Works, Inc.

At the beginning of the survey (May 25 to July 5), problems were encountered in operation of the Hi-Vols. Due to the design of the

sampler head, when the filter was placed on the screen and the top closed, the filter was cut by the gasket and particulate matter was deposited unequally over the filter with heavier deposition at the corners. There were also problems in the method for determining the flow rate. During this period, the calibration orifice was used daily to determine beginning and ending flow rate. When the orifice was used to determine the ending flow rate, it appeared that particulate matter might be removed from the filter and deposited along the walls of the orifice. This caused potential loss of sample and/or subsequent contamination of the next filter calibrated. A meeting was held between NEIC personnel and the equipment manufacturer to discuss these problems. As a result, the manufacturer provided modified sampling heads which eliminated the problem of uneven deposition of material. Also, the flow rate procedure was changed to determine flow rate by pressure differential, though calibration by orifice plates was conducted weekly to assure accuracy of flow-rate determinations.

Meteorological Data Collection

At each station, wind speed and direction data were collected using Climet^{*} CI-3 wind systems, supplied on loan from the U. S. Army Test and Evaluation Command, Dugway Proving Ground. Data were recorded on Esterline Angus^{*} strip chart recorders. The strip chart data were reduced to hourly averages for each parameter; these average were then coded and, using software developed by H. E. Cramer Company, frequency distributions of speeds and directions, as well as resultant wind direction and speeds were computed. These calculations were run on the University of Utah Univac^{*} 1108 computer.

Wind direction instruments were oriented using an artillery aiming circle, and then correcting for true north to obtain an orientation

* Trade name.

point. Orientation was checked weekly by NEIC personnel, with spot checks twice monthly by H. E. Cramer Company personnel.

PROCEDURES

Field

Each sampling station was visited almost daily for servicing and/or to check equipment operation. Servicing of Hi-Vol samplers consisted of determining flow rates at the beginning and end of each operating period, changing filters, and recording observations of general weather conditions and visible emissions from the various emission sources at the USSC plant as well as any other sources throughout the Utah Valley. All pertinent data regarding filters were recorded on a card [sample shown in Addendum A], the filter was folded and placed in the card, and this assembly placed in an envelope. Filters were maintained under standard NEIC chain-of-custody procedures; each week a group of filters was shipped to NEIC by registered mail for analysis.

At least once weekly, calibration curves were checked for accuracy using standard calibrated orifice plates. Additionally, new calibration curves were developed in any case where changes were made in the sampling devices, such as motor changes, head changes, etc.

Strip charts of windspeed and direction were collected weekly and delivered to H. E. Cramer Company for processing. The charts were checked daily to assure that time synchronization was maintained and adjustments were made and noted as necessary.

Laboratory

Personnel of Chemistry Branch, NEIC, pre-weighed and numbered all

clean filters prior to shipment to field-sampling personnel. After exposure, filters (with data cards) were returned to NEIC for weighing. Upon receipt, filters were first dessicated for 24 hours to ensure stabilized moisture content, then weighed on a Torbal^{*} Hi-Vol filter balance (accuracy of ± 0.00005 g). Strict chain-of-custody procedures were also followed in receiving, weighing and storing the filters.

Quality Control

At least once monthly throughout the survey, personnel of Chemistry Branch, NEIC, visited the sampling sites and observed field servicing of the samplers to assure that proper procedures were carried out. Both field and laboratory procedures were established according to standardized procedures prescribed by EPA guidelines.⁴

Personnel of H. E. Cramer Company visited each site at least twice monthly to verify proper calibration of meteorological equipment. This verification consisted of checking orientation of direction sensing equipment and calibrating wind-speed sensing instrumentation.

Stanford Research Institute (SRI) was employed by USSC to perform oversight and technical review of NEIC field operations and data. A sampling station was set up by USSC and operated by SRI near NEIC station 1. During the period August 19-September 2, 1976, SRI operated duplicate Hi-Vols to compare with data obtained at the same time by NEIC. Results are shown in Table 2; these data show a high correlation between the three samplers operated at the same time.

* Trademark, Christian Becker.

Table 2
*RESULTS OF COMPARISON TSP SAMPLING
NEIC vs USSC AT NEIC STATION 1*

NEIC (1 sample)	USSC (2 samples) Avg.
μg/m ³	μg/m ³
84	84
116	115
95	96
98	113
67	66
88	87
93	95
105	99
91	97
103	99
99	99
159	177

IV. DATA PRESENTATION

Air quality data are presented according to four time-periods to facilitate data grouping by significant events and by general changes in meteorological conditions. The first time-period extended from May 25 to July 5, 1976 and is classified as Early Summer. This grouping is made because of the problem with sampling equipment discussed above and because early summer meteorological conditions appear to be somewhat different from late summer conditions. While absolute values of the concentration data collected during this period are uncertain, these data are used qualitatively to determine trends and to estimate the sources of particulates found on the filters.

The network was not operated during the period July 5 to July 19 while modifications were being made in sampling devices and procedures. The second time-period extended from July 19 to August 31 and is designated Late Summer. The third period, Fall, from September 1 to November 5, was hindered by some adverse conditions. Compounding the fact that the entire period was very dry, a turkey farm near station 6 created extraneous fugitive dust which may have adversely influenced TSP concentrations at that station.

During the period November 7 to 19, an intensive survey was conducted (reported in Appendix III) and operation of the network was altered to accommodate objectives of that survey. At the specific request of DSSE, operation of an abbreviated network (stations 1 and 3 were terminated) extended from November 20, 1976 to January 19, 1977; this time-period is designated as Winter.

While meteorological data were collected at all stations, and are on file, the data collected at station 2 are judged as most representative of meteorological conditions over the network and are used in this analysis.

In the next four subsections, TSP air quality data are presented for the four time-periods of the survey. In each section the daily TSP concentrations for each station are plotted, with lines connecting consecutive values. Also, in each of these plots the primary 24-hour (Primary Standard) and annual (Annual Standard) standards of $260 \mu\text{g}/\text{m}^3$ and $75 \mu\text{g}/\text{m}^3$, respectively, and the secondary 24-hour (Secondary Standard) standard of $150 \mu\text{g}/\text{m}^3$ are shown as dashed horizontal lines. Tables have been developed to summarize pertinent statistics drawn or developed from the data -- the highest (First Maximum), second highest (Second Maximum), the lowest (Minimum), and geometric mean. In addition, for the latter three time-periods the number of excursions at each station above the 24-hour primary and secondary standards are tabulated. For this purpose, a primary excursion is defined as any single 24-hour concentration greater than or equal to $260 \mu\text{g}/\text{m}^3$; a secondary excursion is defined as any single 24-hour concentration greater than or equal to $150 \mu\text{g}/\text{m}^3$, but less than $260 \mu\text{g}/\text{m}^3$.

Additional detailed data are also presented in Addenda B through F. In Addendum B [Tables B-1 through B-4] daily 24-hour average particulate data, including the Utah State Health Department (USHD) "Geneva" station, are presented. Hourly meteorological data are included in Addendum C [Tables C-1 through C-4]. Daily resultant wind directions and speeds are presented in Addendum D [Tables D-1 through D-4]. Daily observations of field sampling personnel are included in Addendum E [Tables E-1 through E-3]. TSP data for the six USHD stations furthest from the plant are presented in Addendum F [Tables F-1 through F-4]. Finally, as a matter of record, weekly average concentrations from the USSC

stations are presented in Addendum G [Tables G-1 through G-3]. However, these data are not discussed in the text of this report, since the methodology is not equivalent to that utilized at the NEIC and USHD stations.

EARLY SUMMER

Daily TSP data from the NEIC and USHD "Geneva" stations are presented in Table B-1 [Addendum B]. TSP data from other USHD stations are shown in Table F-1 [Addendum F]. Daily concentrations from stations 2, 4, 5, 6, 7 and the USHD "Geneva" station are plotted in Figures 3 through 8. The plots show a trend of increasing TSP concentrations from late June through the end of the period. These plots further show a higher day-to-day variation at stations closer to the Geneva Works than at station 7, the station most distant from the plant.

A statistical summary of TSP data from NEIC stations, and the USHD "Geneva" station, for the Early Summer period is shown in Table 3. Since samples were not taken at stations 1 and 3 during the entire period,* geometric means were calculated over equivalent periods at nearby stations to determine whether a time bias existed. Geometric means for stations 2, 4, and 5 for the period May 25 to June 15 (the period when Station 3 was operated) were 93, 71, and 84 $\mu\text{g}/\text{m}^3$, respectively, while the mean concentration at station 3 for the same period was 80 $\mu\text{g}/\text{m}^3$. Thus, concentrations at station 3 were roughly equivalent to those at nearby stations. Geometric means for stations 2 and 4 for the period

* Permission was not granted by USSC for activation of station 1 until early June. The station was activated June 19. On June 16, power was lost at station 3 due to closure of the Devon Industries operation. The station was reactivated later in the survey.

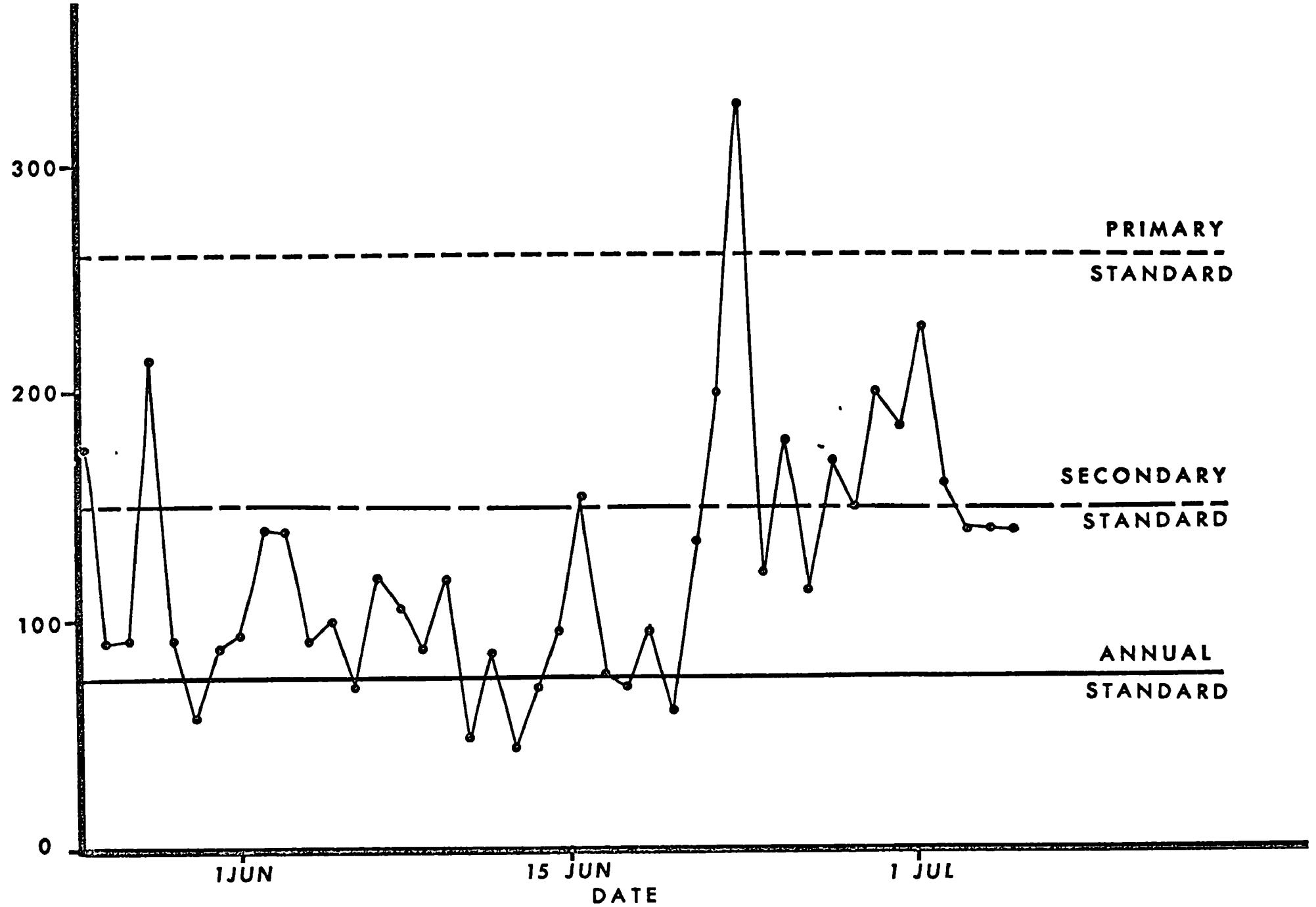
PARTICULATE CONCENTRATION $\mu\text{g}/\text{m}^3$ 

Figure 3. Daily Particulate Concentrations — Station 2 Early Summer

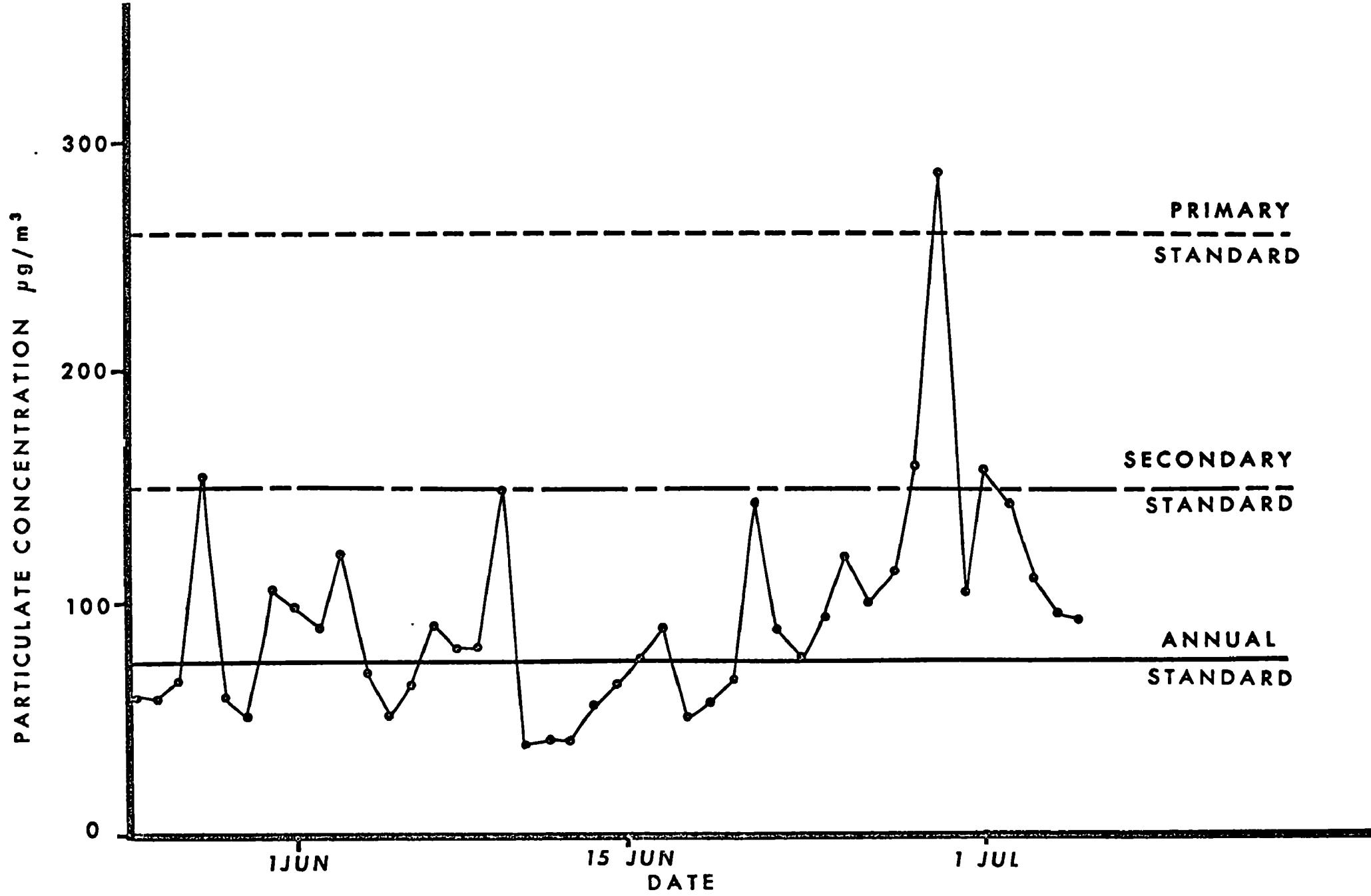


Figure 4. Daily Particulate Concentrations - Station 4 Early Summer

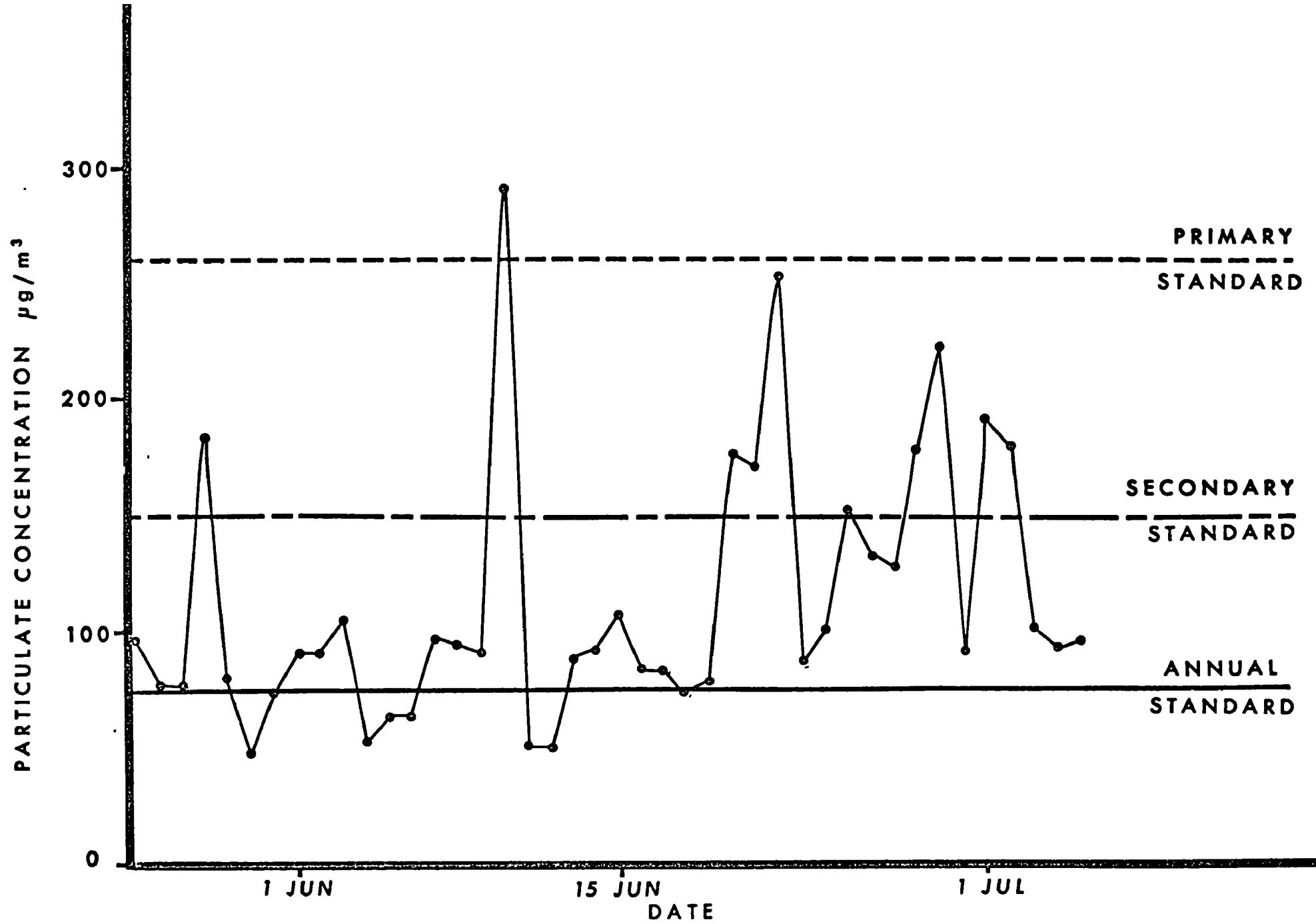


Figure 5. Daily Particulate Concentrations – Station 5 Early Summer

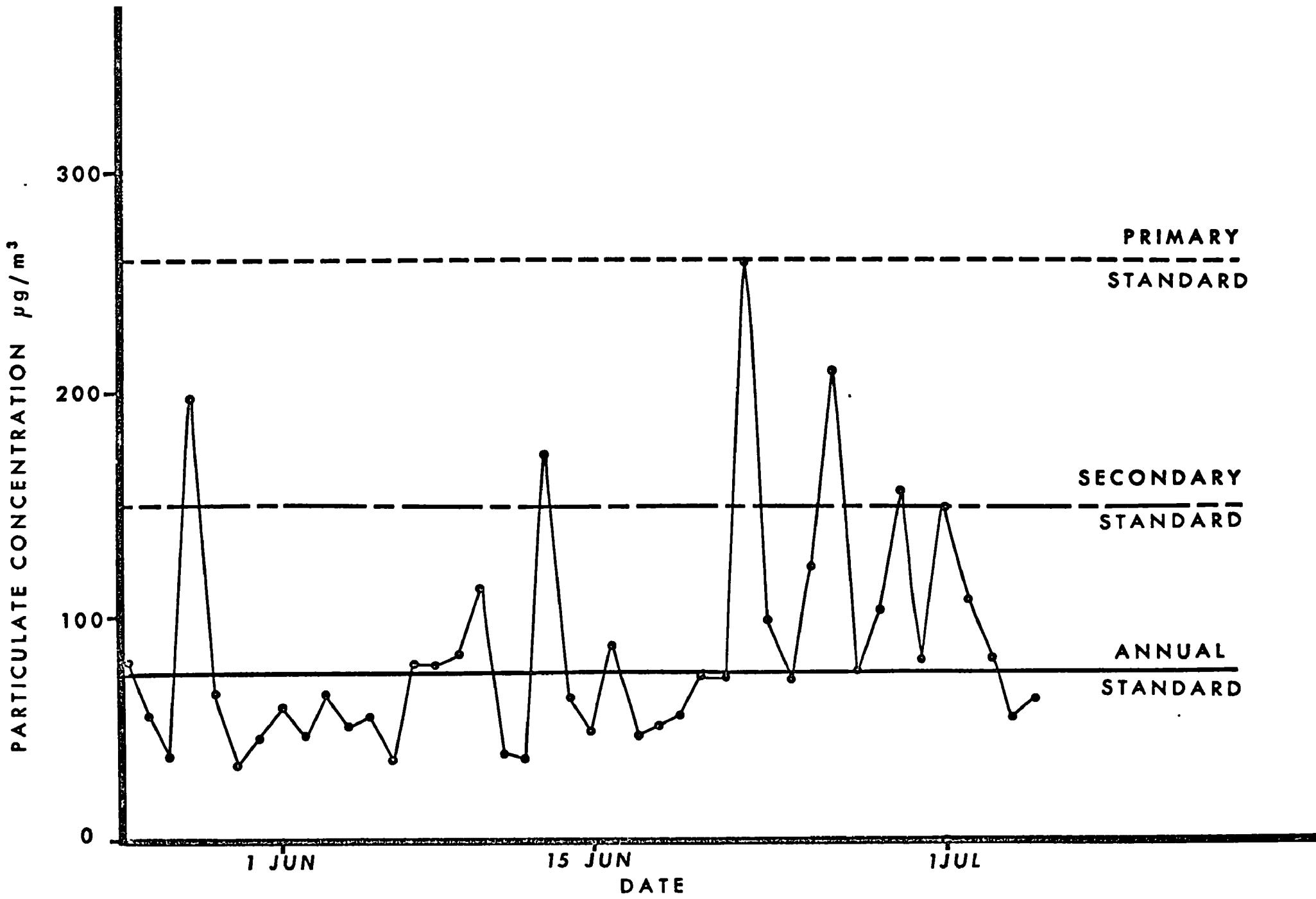


Figure 6. Daily Particulate Concentrations – Station 6 Early Summer

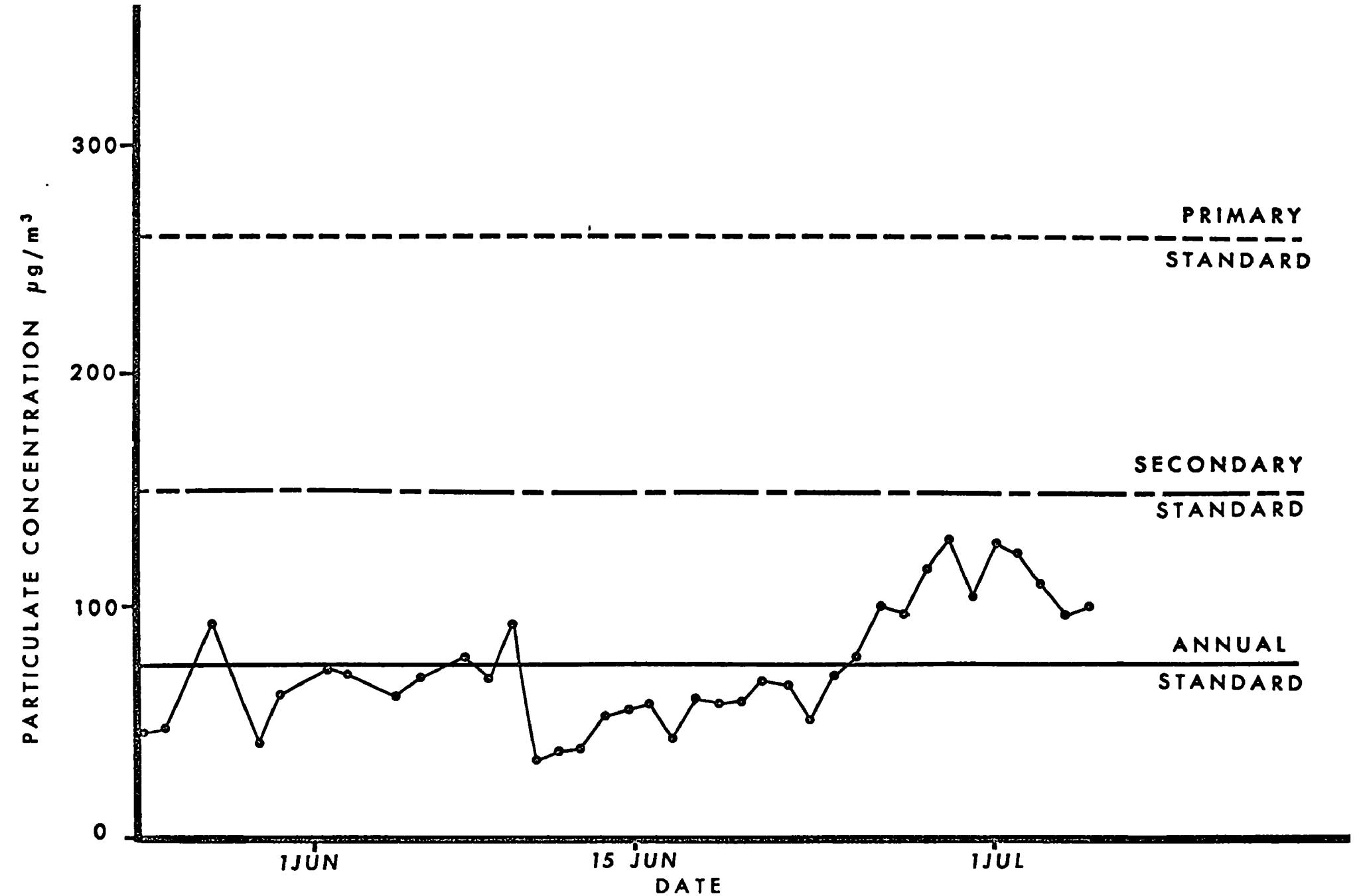


Figure 7. Daily Particulate Concentrations - Station 7 Early Summer

PARTICULATE CONCENTRATION $\mu\text{g}/\text{m}^3$

300
200
100
0

1 JUN 15 JUN 1 JUL
DATE

PRIMARY STANDARD
SECONDARY STANDARD
ANNUAL STANDARD

Figure 8. Daily Particulate Concentrations - USHD "Geneva" Early Summer 27

Table 3
STATISTICAL SUMMARY OF TSP[†] DATA - EARLY SUMMER
USSC AIR QUALITY MONITORING STUDY - NEAR STATIONS⁺⁺

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)			
	Maximum	Second	Minimum	Geometric Mean
	First			
1	307	227	63	122
2	335	230	42	113
3	170	133	43	80
4	289	159	39	107
5	293	255	46	101
6	262	213	34	74
7	131	129	34	69
"Geneva"	207	160	30	64

⁺⁺ NEIC stations and Utah State Health Department "Geneva" station.

Table 4
STATISTICAL SUMMARY OF TSP[†] DATA - EARLY SUMMER
USSC AIR QUALITY MONITORING STUDY - USHD STATIONS⁺⁺

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)			
	Maximum	Second	Minimum	Geometric Mean
	First			
Lehi	108	107	26	63
Pleasant Grove	162	116	20	62
Orem	151	144	30	69
Provo	140	132	32	73
Mapleton	154	107	28	60

⁺⁺ Utah State Health Department stations in Utah Valley, except "Geneva."

[†] TSP = total suspended particulates

June 19 through July 5 (the period when station 1 was operated) were 112 and 110 $\mu\text{g}/\text{m}^3$, respectively, while the mean for station 1 was 122 $\mu\text{g}/\text{m}^3$, again indicating that TSP at neighboring stations over an equivalent period generally corresponds with that of station 1. Statistical data from USHD stations, other than "Geneva," are shown in Table 4. Because of the uncertainty in absolute values of the NEIC data, no comparisons between the two sets of data are made during this period.

Hourly meteorological data for the period is shown in Table C-1 [Addendum C]. These data have been summarized for the month of June with respect to number of occurrences of persistence of wind speed [Table 5] and wind direction [Table 6]. These summaries indicate that wind speeds were predominantly 1.4 to 4 m/sec (3 to 8 mph); however, direction was highly variable. Only 45 occurrences during this period are noted where winds persisted in one of the cardinal directions for 3 or more hours; a total of 324 occurrences are recorded where winds persisted for 1 to 2 hours, and 88 occurrences are recorded of persistence for 2 to 3 hours.

LATE SUMMER

During this period (July 19-August 31), station 3 was not active. Wind directional sampling was activated at stations 2 and 6 on August 7; these data will be discussed in Appendix III. Daily TSP data from NEIC and USHD "Geneva" stations are shown in Table B-2 [Addendum B]. TSP data from other USHD stations are shown in Table F-2 [Addendum F].

Plots of 24-hour average TSP concentrations at stations 1, 2, 4, 5, 6, 7, and the USHD "Geneva" station are shown in Figures 9 through 15. These plots show no general trend in concentrations over the period. However, as during the Early Summer period, particulate concentrations

Table 5
**NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND SPEED
FOR JUNE 1976**

<u>NUMBER OF HOURS OF PERSIST- ENCE</u>	<u>= WIND SPEED (MPH) =</u>						
	/ <= 1.54 / > 1.54 / > 3.08 / > 5.14 / > 8.23 / > 10.8 /						
1	/	0 /	0 /	14 /	13 /	16 /	10 /
2	/	1 /	0 /	8 /	9 /	6 /	9 /
3	/	1 /	1 /	3 /	4 /	4 /	2 /
4	/	2 /	0 /	6 /	0 /	1 /	0 /
5	/	1 /	0 /	3 /	2 /	2 /	2 /
6	/	0 /	0 /	0 /	3 /	1 /	3 /
7	/	0 /	0 /	0 /	3 /	1 /	1 /
8	/	0 /	0 /	1 /	2 /	2 /	4 /
9	/	0 /	0 /	1 /	2 /	3 /	0 /
10	/	0 /	0 /	1 /	3 /	1 /	0 /
11	/	0 /	1 /	2 /	2 /	1 /	2 /
12	/	0 /	0 /	1 /	1 /	0 /	0 /
13	/	0 /	0 /	2 /	2 /	2 /	0 /
14	/	0 /	0 /	1 /	4 /	2 /	0 /
15	/	0 /	0 /	1 /	1 /	0 /	0 /
16	/	0 /	1 /	1 /	0 /	0 /	0 /
17	/	0 /	0 /	1 /	2 /	0 /	0 /
18	/	0 /	0 /	2 /	0 /	0 /	0 /
19	/	0 /	0 /	6 /	2 /	0 /	0 /
20	/	0 /	1 /	1 /	0 /	0 /	0 /
21	/	0 /	0 /	2 /	1 /	0 /	0 /
22	/	0 /	0 /	1 /	0 /	0 /	0 /
23	/	0 /	0 /	0 /	0 /	0 /	0 /
24	/	0 /	0 /	0 /	0 /	0 /	0 /
>24	/	0 /	3 /	3 /	0 /	0 /	0 /
TOTAL	/	5 /	7 /	61 /	56 /	42 /	33 /

NOTE: This table gives the number of occurrences of *N* hours of persistence for the particular wind speed (direction) category. The wind speed categories are not cumulative within any one time category. The speed categories are cumulative only with increased time.

Table 6
 NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND DIRECTION
 FOR JUNE 1976

NUMBER OF HOURS OF PERSIST- ENCE	WIND DIRECTION (SECTOR)																
	/	N /	NNE /	NE /	ENE /	E /	ESE /	SE /	SSE /	S /	SSW /	SW /	WSW /	W /	WNW /	NW /	NNW /
1	/	13/	12/	26/	26/	28/	24/	24/	29/	25/	18/	19/	18/	17/	13/	20/	12/
2	/	1/	4/	13/	5/	6/	5/	5/	5/	7/	8/	10/	5/	2/	3/	4/	7/
3	/	1/	0/	6/	2/	0/	1/	2/	0/	5/	3/	1/	2/	1/	0/	2/	1/
4	/	0/	0/	1/	1/	0/	2/	0/	0/	1/	1/	0/	1/	0/	0/	1/	2/
5	/	0/	0/	0/	0/	0/	0/	1/	0/	0/	0/	1/	0/	0/	0/	0/	1/
6	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	1/	0/	0/	0/	0/	1/	0/
7	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	1/
8	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	1/
9	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
10	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
11	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	1/
12	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
13	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
14	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
15	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
16	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
17	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
18	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
19	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
20	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
21	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
22	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
23	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
>24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
TOTAL	/	15/	16/	46/	.34/	.34/	.32/	.32/	.34/	.39/	.30/	.31/	.26/	.20/	.14/	.28/	.26/

NOTE: This table gives the number of occurrences of *N* hours of persistence for the particular wind speed (direction) category, the wind speed categories are not cumulative within any one time category, the speed categories are cumulative only with increased time.

PARTICULATE CONCENTRATION $\mu\text{g}/\text{m}^3$

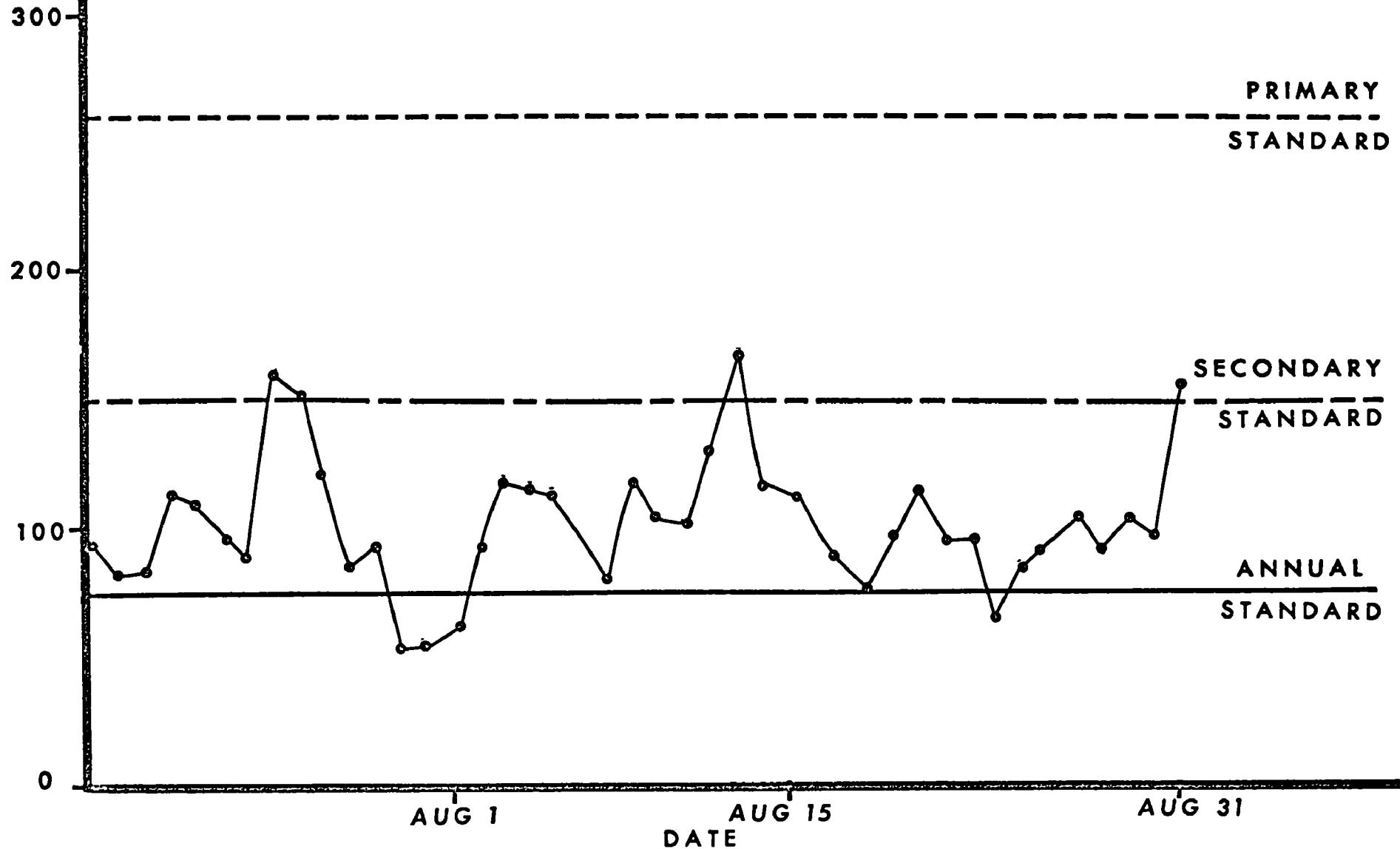


Figure 9. Daily Particulate Concentrations – Station 1 Late Summer

PARTICULATE CONCENTRATION $\mu\text{g}/\text{m}^3$

300
200
100
0

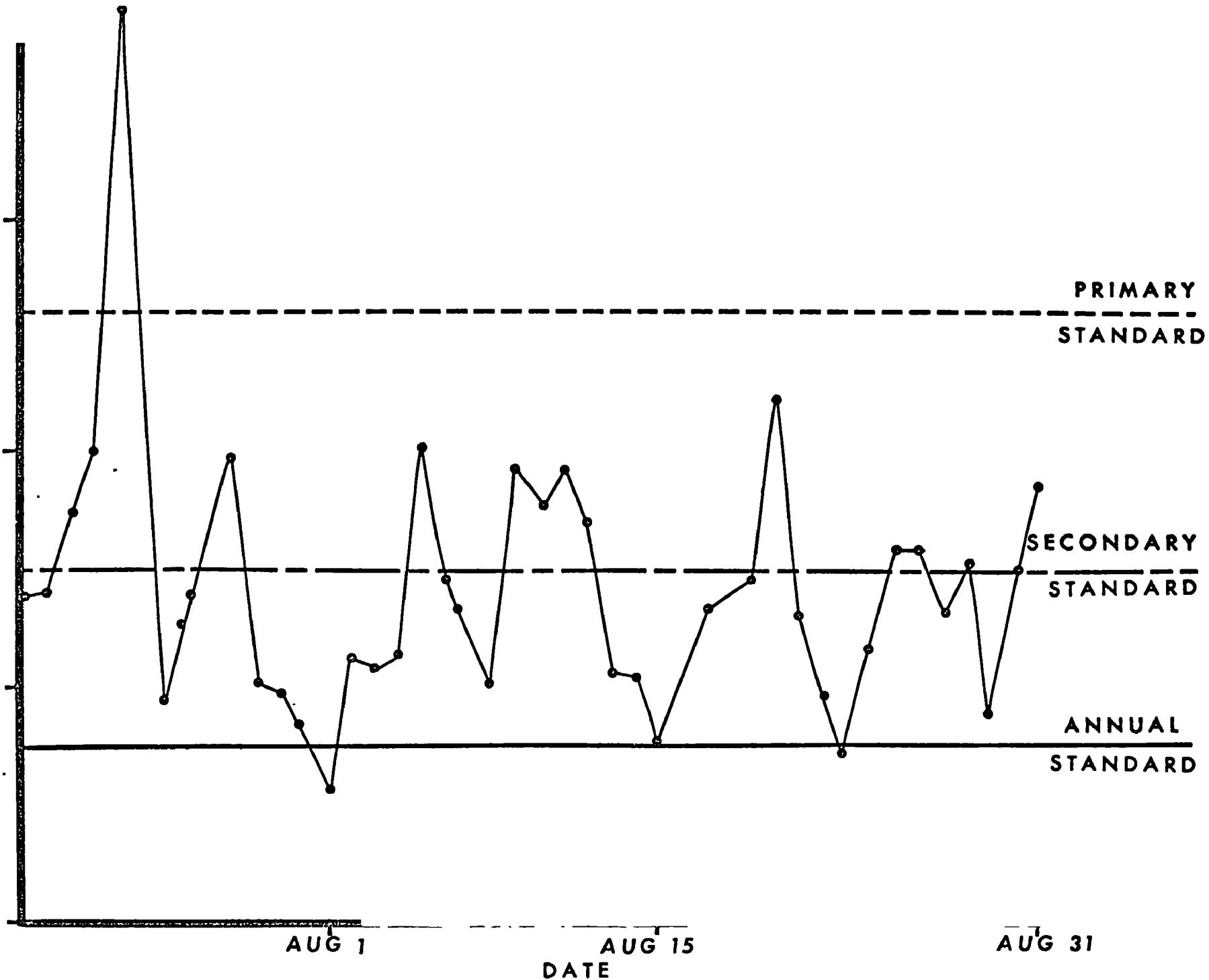


Figure 10. Daily Particulate Concentrations – Station 2 Late Summer

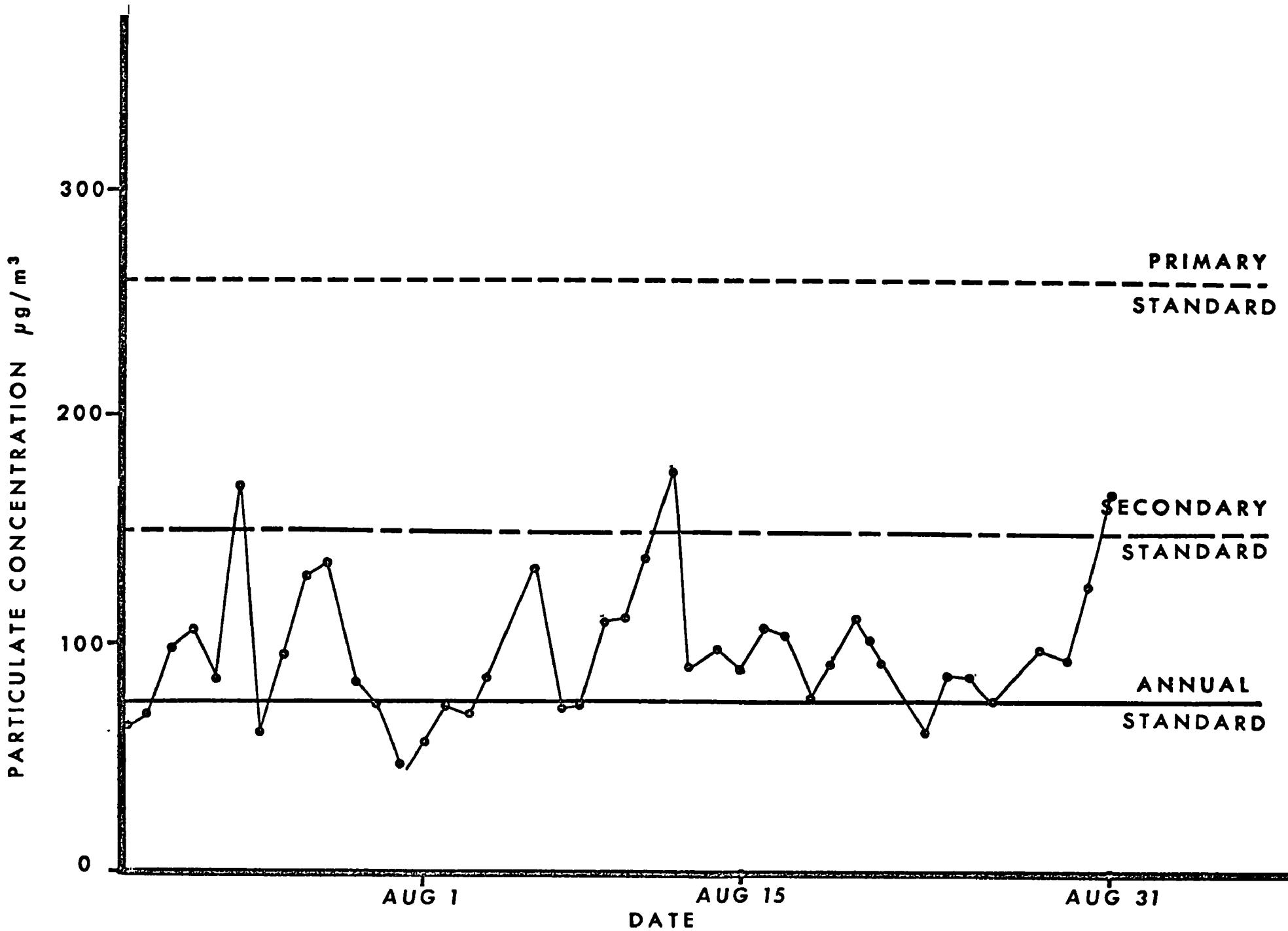


Figure 11. Daily Particulate Concentrations – Station 4 Late Summer

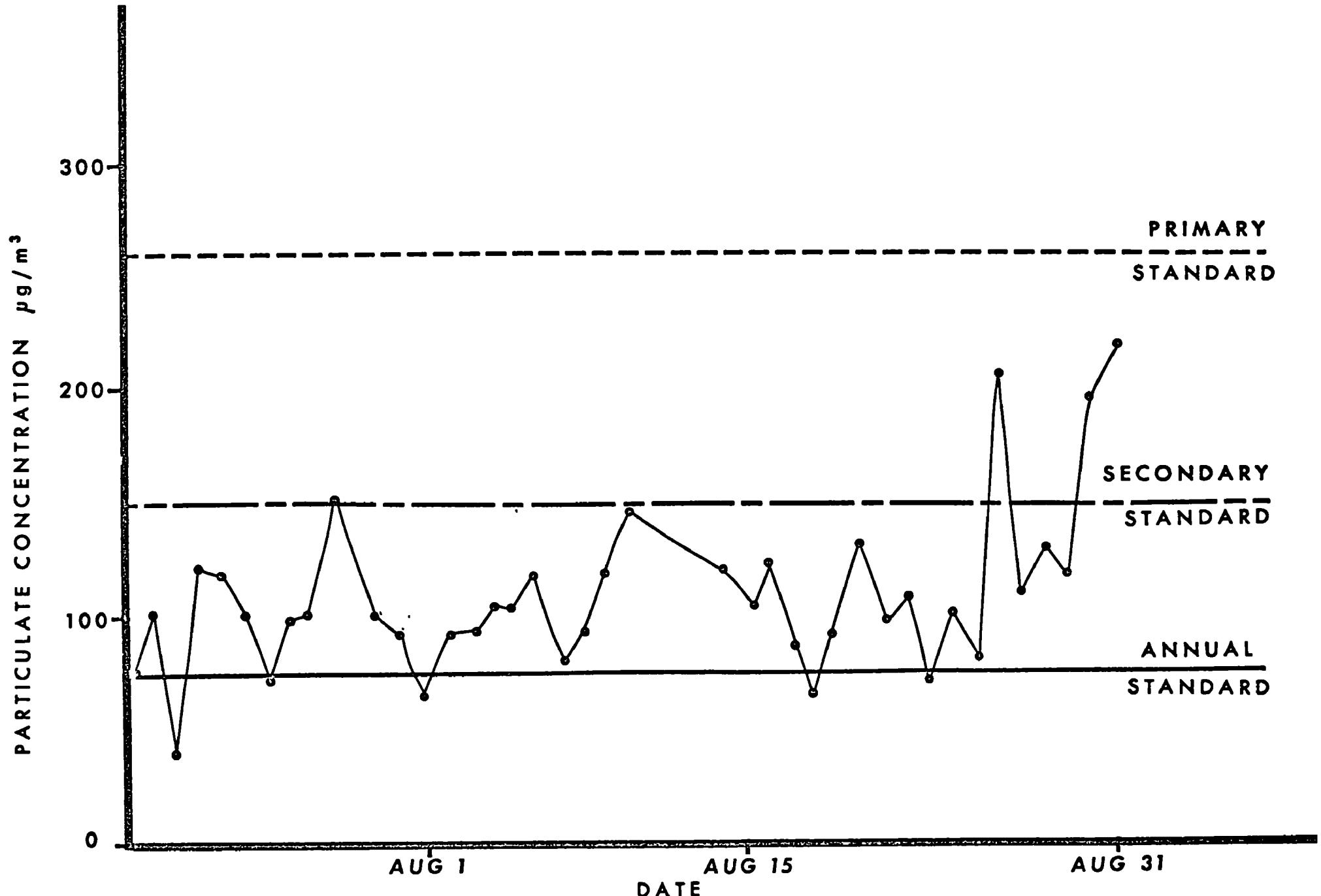


Figure 12. Daily Particulate Concentrations – Station 5 Late Summer

PARTICULATE CONCENTRATION $\mu\text{g}/\text{m}^3$

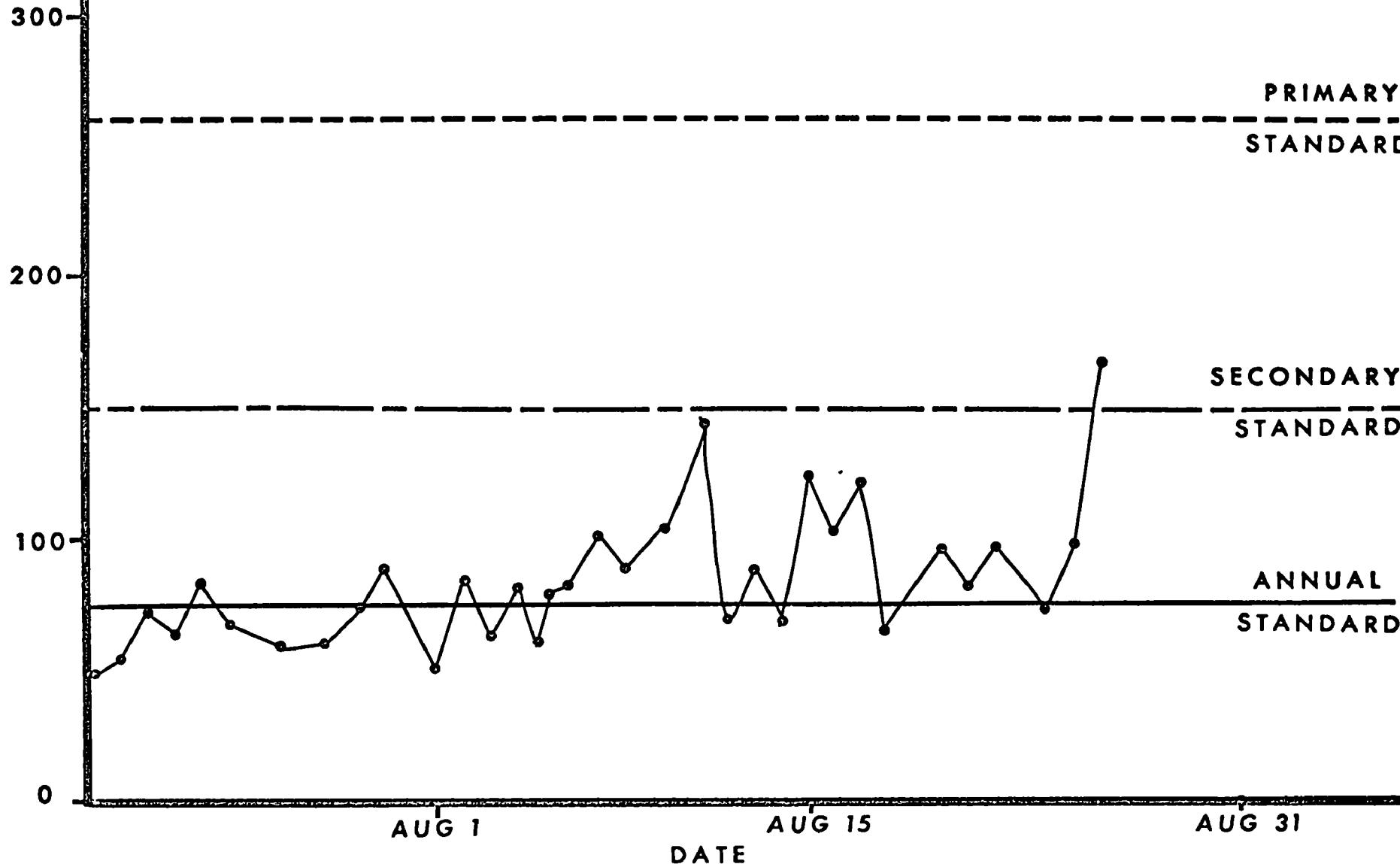


Figure 13. Daily Particulate Concentrations – Station 6 Late Summer

PARTICULATE CONCENTRATION $\mu\text{g}/\text{m}^3$

300
200
100
0

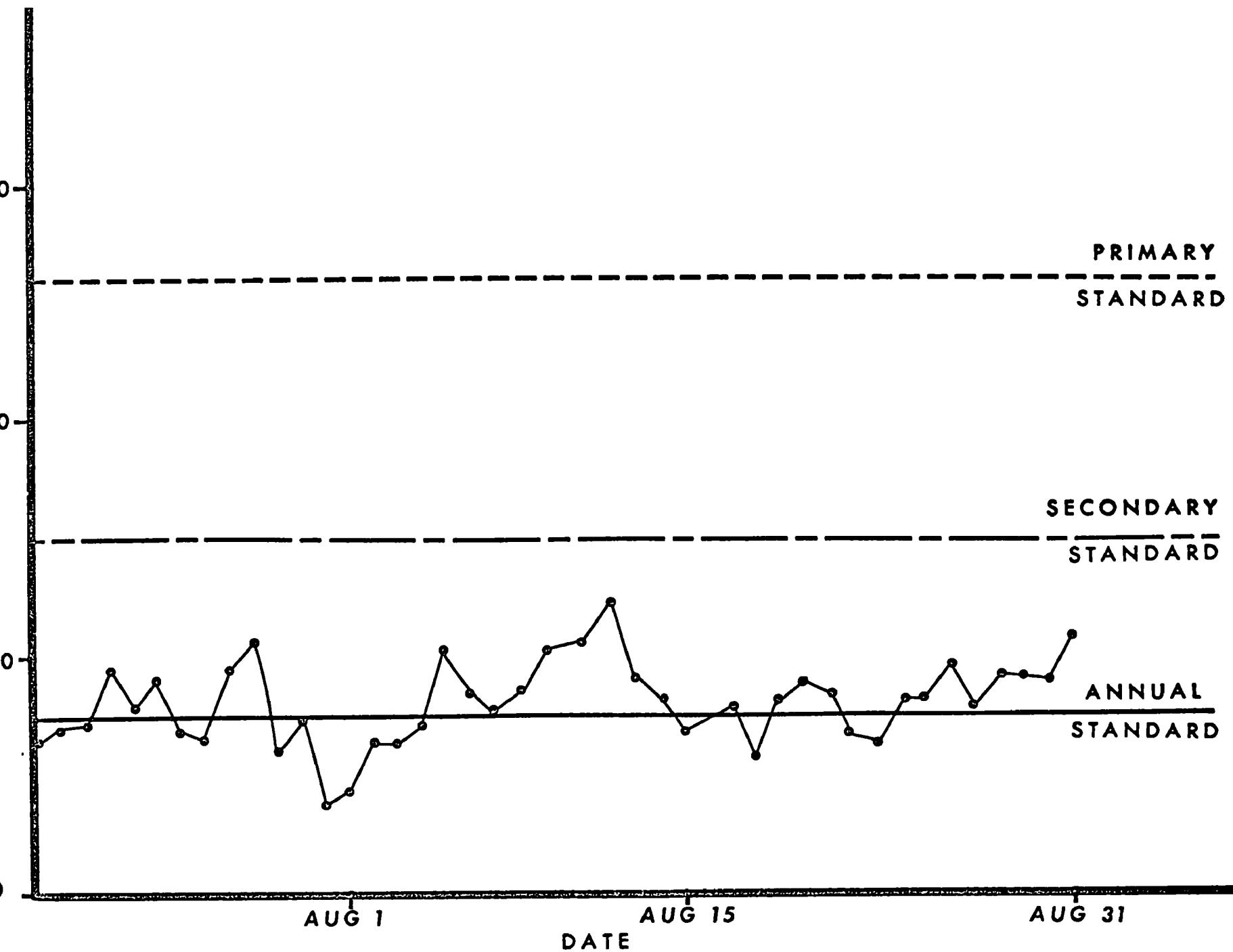


Figure 14. Daily Particulate Concentrations – Station 7 Late Summer

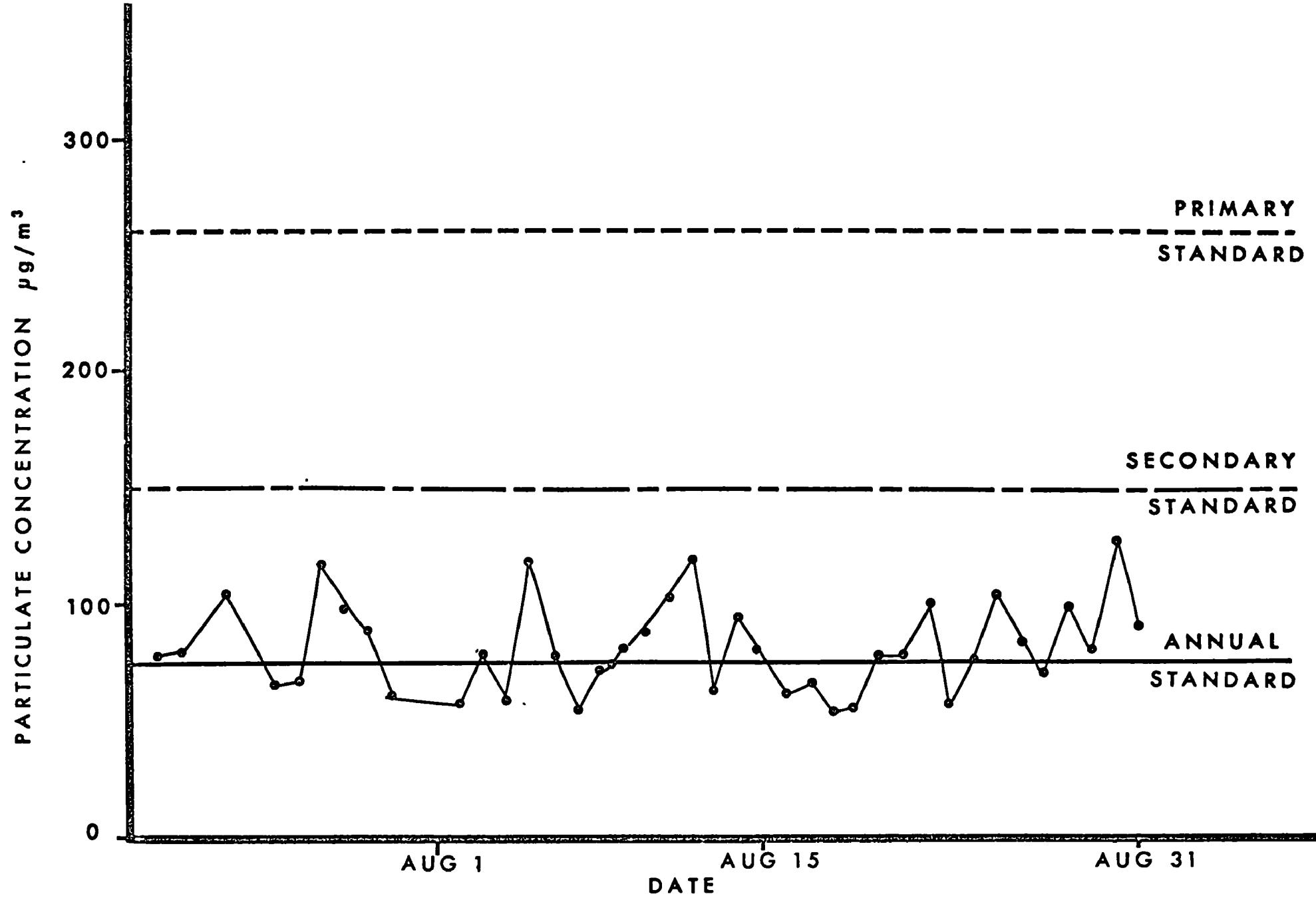


Figure 15. Daily Particulate Concentrations - USHD "Geneva" Late Summer

are most variable at stations north of and near the plant. The significant reduction in concentrations (July 25, July 31) correlates with occurrences of high winds and/or rain [Table E-2, Addendum E].

A statistical summary of 24-hour TSP data for the period at NEIC and the USHD "Geneva" station is shown in Table 7. These data show that the geometric mean concentrations are highest at stations near the plant at the northwest and northeast sides of the network. Note also that the geometric mean at stations 1, 2, 4, 5, and 6 exceed the primary annual standard. A statistical summary of 24-hour TSP data for the period at USHD stations, except "Geneva," is shown in Table 8. Note that with the exception of the Provo station geometric means for the period are lower at these stations than at any of the NEIC stations or "Geneva."

Only one primary excursion was recorded during the period, on July 23 at station 2 [Table B-2, Addendum B]. A total of twenty-five secondary excursions were recorded. Primary or secondary excursions were observed somewhere on the network on 19 of 44 days (44%) during the period. Note also that no primary or secondary excursions were recorded at station 7 or any of the USHD stations [Tables 7 and 8].

Hourly meteorological data for the period are shown in Table C-2 [Addendum C]. These data have been summarized for the month of August with respect to number of occurrences of persistence of wind speed [Table 9] and wind direction [Table 10]. These data show that the predominant persistent wind speeds were in the range of 2 to 4 m/sec (5 to 8 mph); however, wind directions were variable. A total of 35 occurrences during this period are recorded where winds persisted in one of the cardinal directions for 3 or more hours; a total of 389 occurrences are recorded where winds persisted for 1 to 2 hours; and 59 occurrences are recorded where winds persisted for 2 to 3 hours.

Table 7
STATISTICAL SUMMARY OF TSP[†] DATA - LATE SUMMER
USC AIR QUALITY MONITORING STUDY - NEAR STATIONS⁺⁺

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)				Excursions	
	Maximum		Minimum	Geometric Mean	Primary	Secondary
	First	Second				
1	167	159	53	88	0	4
2	396	223	53	118	1	13
4	175	170	45	91	0	3
5	216	203	37	101	0	4
6	163	139	47	79	0	1
7	119	104	37	75	0	0
"Geneva"	126	119	49	68	0	0

⁺⁺ NEIC stations and Utah State Health Department "Geneva" station.

Table 8
STATISTICAL SUMMARY OF TSP[†] DATA - LATE SUMMER
USSC AIR QUALITY MONITORING STUDY - USHD STATIONS⁺⁺

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)				Excursions	
	Maximum		Minimum	Geometric Mean	Primary	Secondary
	First	Second				
Lehi	86	85	20	57	0	0
Pleasant Grove	139	101	23	63	0	0
Orem	83	80	29	56	0	0
Provo	120	118	39	69	0	0
Mapleton	80	75	20	44	0	0

⁺⁺ Utah State Health Department stations in Utah Valley, except "Geneva."

[†] TSP = total suspended particulates

Table 9

**NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND SPEED
FOR AUGUST 1976**

NUMBER OF HOURS OF PERSIST- ENCE	WIND SPEED (MPH)					
	/ <= 1.54 / > 1.54 / > 3.08 / > 5.14 / > 8.23 / > 10.8 /					
1	/	1 /	0 /	8 /	25 /	13 /
2	/	0 /	0 /	3 /	14 /	9 /
3	/	0 /	0 /	3 /	8 /	3 /
4	/	0 /	0 /	4 /	4 /	2 /
5	/	0 /	0 /	0 /	4 /	0 /
6	/	0 /	0 /	1 /	2 /	1 /
7	/	0 /	0 /	2 /	2 /	3 /
8	/	0 /	0 /	0 /	3 /	0 /
9	/	0 /	0 /	0 /	1 /	0 /
10	/	0 /	0 /	2 /	2 /	0 /
11	/	0 /	0 /	1 /	2 /	0 /
12	/	0 /	0 /	1 /	1 /	0 /
13	/	0 /	0 /	0 /	1 /	0 /
14	/	0 /	0 /	0 /	1 /	0 /
15	/	0 /	0 /	1 /	0 /	0 /
16	/	0 /	0 /	1 /	1 /	1 /
17	/	0 /	0 /	1 /	0 /	0 /
18	/	0 /	0 /	0 /	0 /	0 /
19	/	0 /	0 /	1 /	0 /	0 /
20	/	0 /	0 /	0 /	0 /	0 /
21	/	0 /	0 /	1 /	0 /	0 /
22	/	0 /	0 /	1 /	1 /	0 /
23	/	0 /	0 /	1 /	0 /	0 /
24	/	0 /	0 /	0 /	0 /	0 /
>24	/	0 /	2 /	4 /	1 /	0 /
TOTAL	/	1 /	2 /	36 /	73 /	32 /
						15 /

NOTE: This table gives the number of occurrences of N hours of persistence for the particular wind speed (direction) category, the wind speed categories are not cumulative within any one time category, the speed categories are cumulative only with increased time.

Table 10
NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND DIRECTION
FOR AUGUST 1976

NUMBER OF HOURS OF PERSIST- ENCE	WIND DIRECTION(SECTOR)																
	/	N /	NNE /	NE /	ENE /	E /	ESE /	SE /	SSE /	S /	SSW /	SW /	WSW /	W /	WNW /	NW /	NNW /
1	/	22/	22/	33/	35/	41/	31/	34/	27/	23/	25/	19/	19/	15/	10/	19/	14/
2	/	1/	2/	7/	7/	3/	5/	6/	3/	3/	5/	2/	3/	2/	4/	4/	2/
3	/	0/	3/	1/	1/	3/	2/	2/	1/	2/	3/	0/	1/	1/	2/	1/	0/
4	/	0/	0/	0/	0/	1/	0/	0/	1/	0/	1/	0/	0/	0/	0/	0/	0/
5	/	0/	0/	1/	0/	0/	0/	0/	1/	1/	1/	1/	0/	0/	0/	1/	1/
6	/	0/	0/	0/	0/	0/	0/	0/	0/	1/	0/	0/	0/	0/	0/	0/	0/
7	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
8	/	0/	0/	0/	0/	0/	0/	0/	0/	1/	0/	0/	0/	0/	0/	0/	0/
9	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
10	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
11	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
12	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
13	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
14	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
15	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
16	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
17	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
18	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
19	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
20	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
21	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
22	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
23	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
>24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
TOTAL	/	23/	27/	42/	43/	48/	38/	42/	34/	30/	35/	22/	23/	18/	16/	25/	17/

NOTE: This table gives the number of occurrences of N hours of persistence for the particular wind speed (direction) category, the wind speed categories are not cumulative within any one time category, the speed categories are cumulative only with increased time.

FALL

The 24-hour average TSP particulate concentrations for the NEIC and USHD "Geneva" stations are shown in Table B-3 [Addendum B]. Daily TSP data from other USHD stations are shown in Table F-2 [Addendum F]. Plots of 24-hour average TSP concentrations at stations 1, 2, 3, 4, 5, 7, and the USHD "Geneva" stations are shown in Figures 16 through 22. Plots of data from station 6 are omitted because the fugitive dust interference from the turkey farm renders the data meaningless. These plots show a general increase in concentrations during the period at all stations. While variations in day-to-day concentrations were more pronounced at stations near the plant, a similar variation occurred at station 7 during this period.

A statistical summary of 24-hour TSP data at the NEIC and USHD "Geneva" stations for the period is shown in Table 11. A summary of data for the remaining USHD stations is shown in Table 12. A total of 51 primary excursions and 134 secondary excursions were recorded during the period. However, 32 primary and 13 secondary excursions are suspect due to the fugitive dust source near station 6 and are thus not evaluated further. At the other stations, primary excursions were observed somewhere on the network for 12 of 66 days (18%). Primary or secondary excursions were observed somewhere on the network for 40 of 66 days (61%). Note, however, that no primary excursions, and only five secondary excursions were observed at station 7. At the USHD stations furthest from the plant, no primary excursions and seventeen secondary excursions were recorded at these six stations for the entire period. Note also that the geometric mean of TSP at the Lindon station was highest of the six stations. This station is northeast of the center of the plant on a line passing through NEIC station 5 [Figure 2].

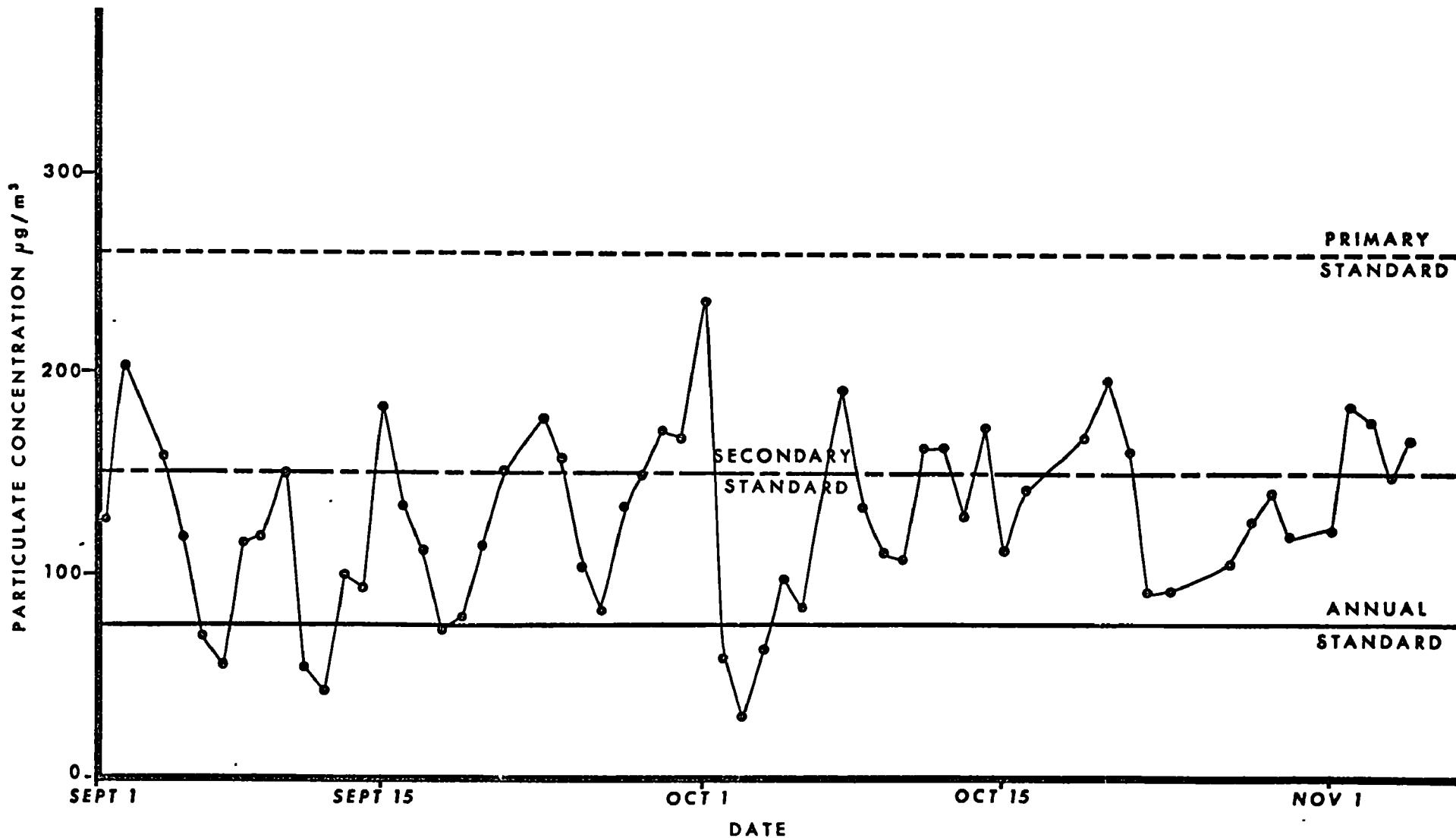


Figure 16. Daily Particulate Concentrations – Station 1 Fall

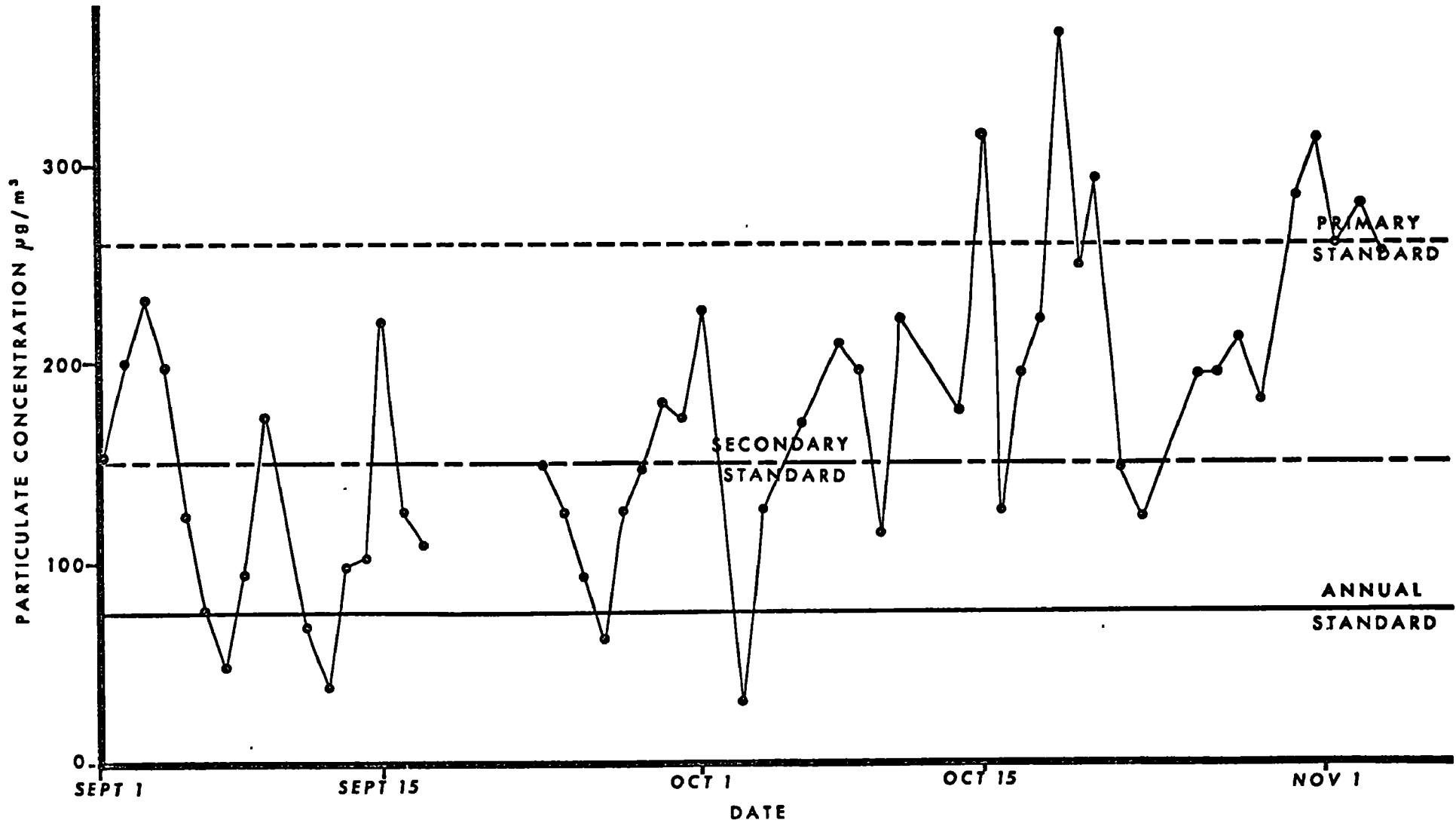


Figure 17. Daily Particulate Concentrations – Station 2 Fall

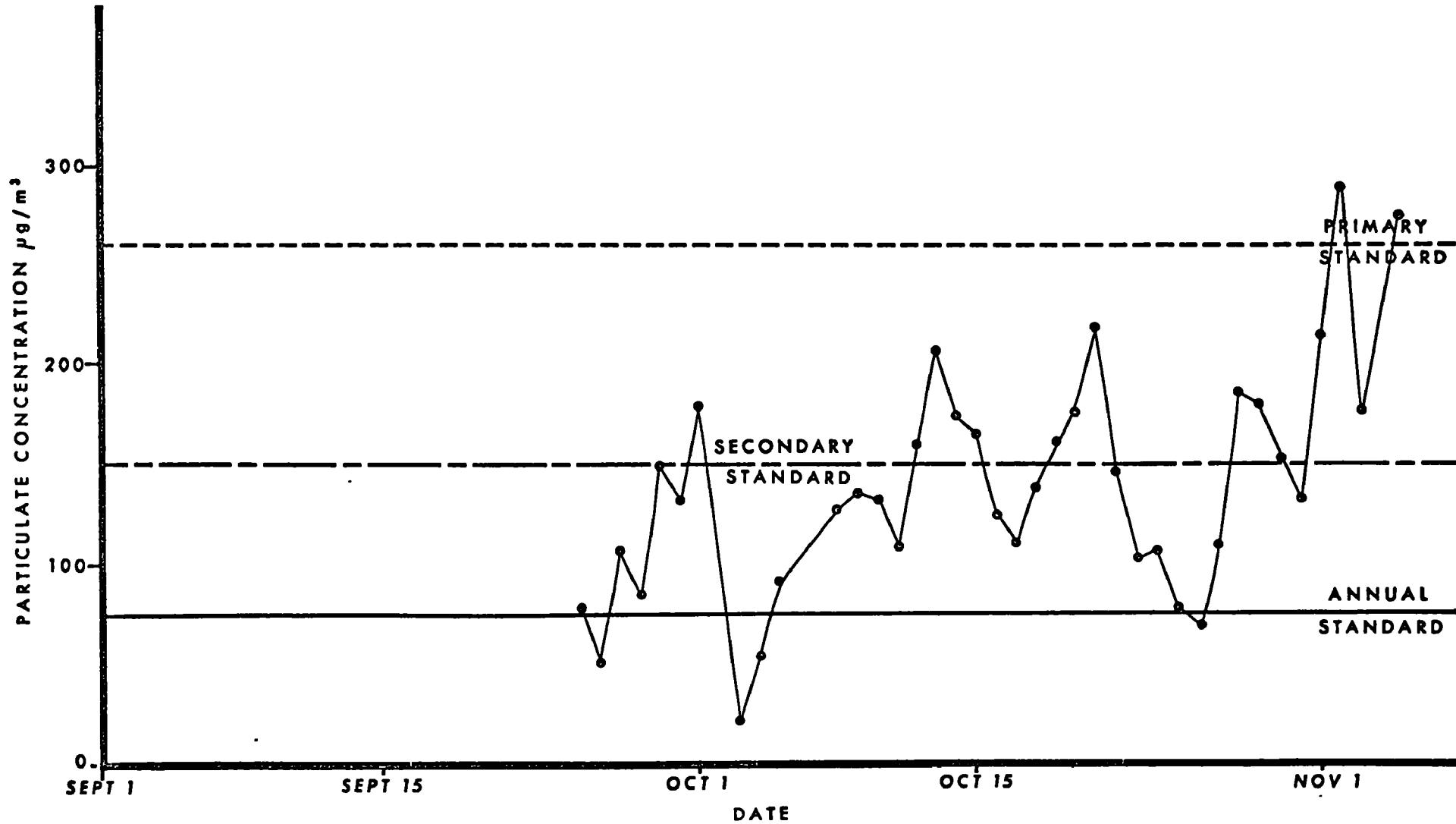


Figure 18. Daily Particulate Concentrations – Station 3 Fall

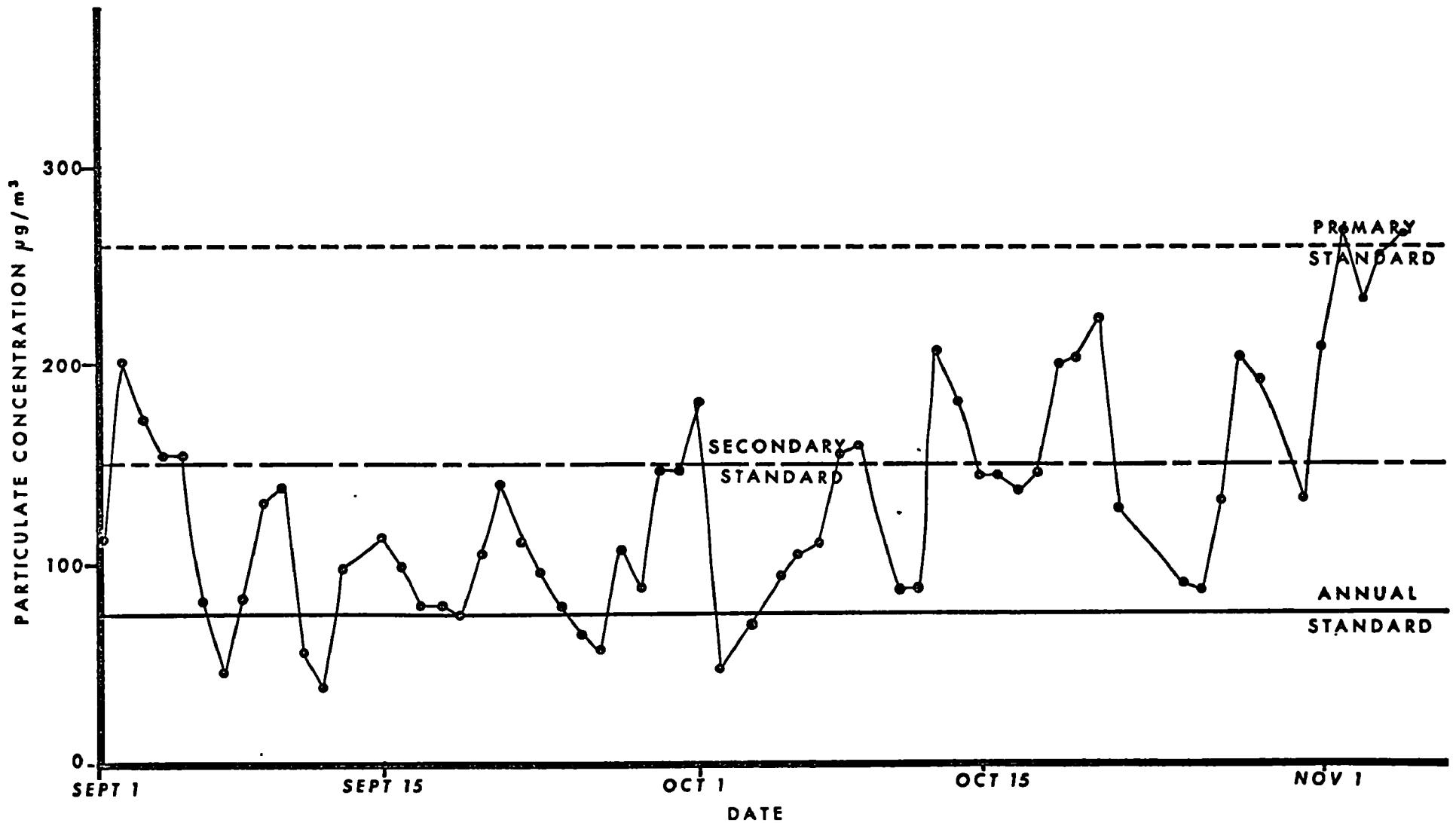


Figure 19. Daily Particulate Concentrations – Station 4 Fall

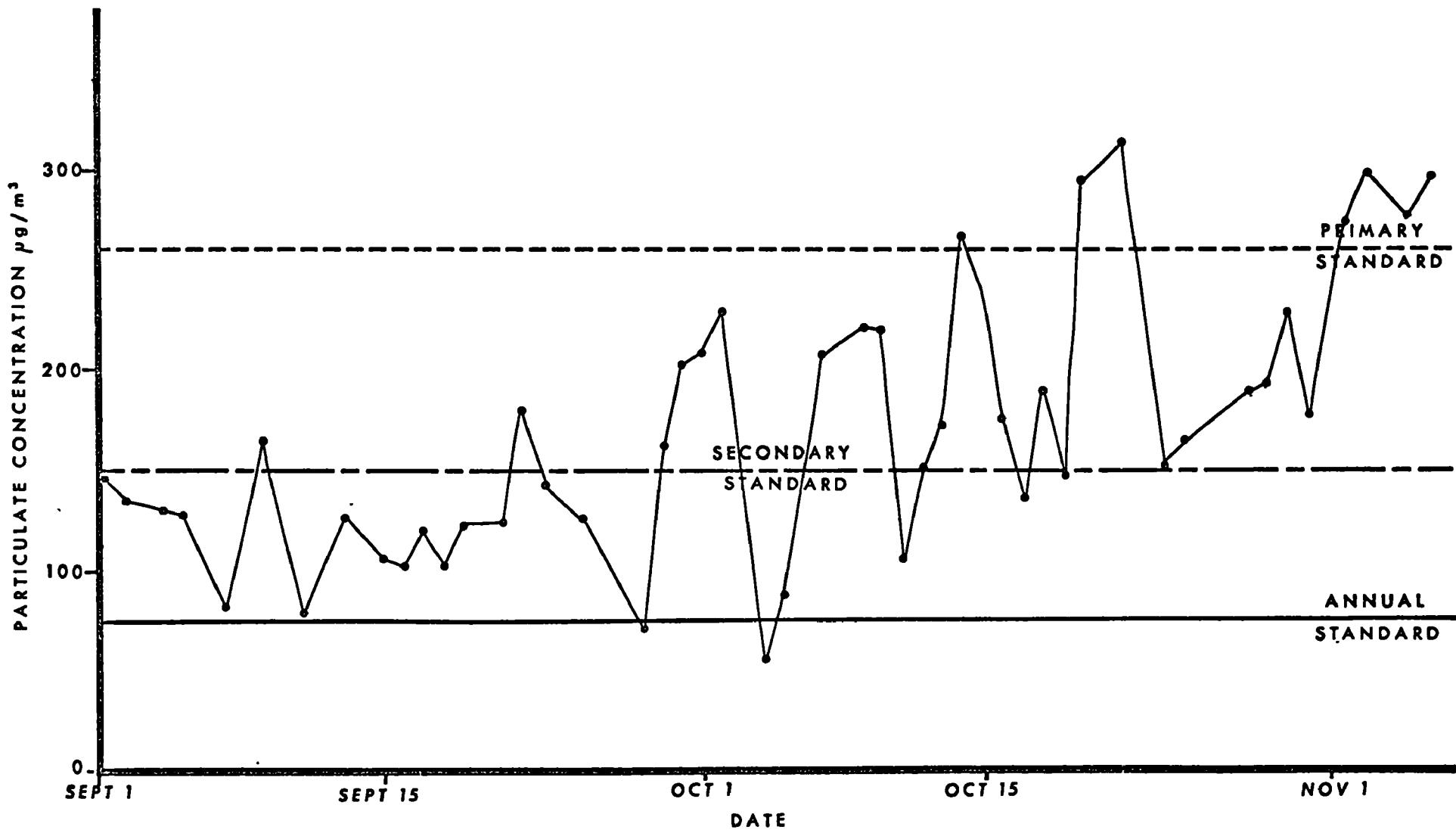


Figure 20. Daily Particulate Concentrations – Station 5 Fall

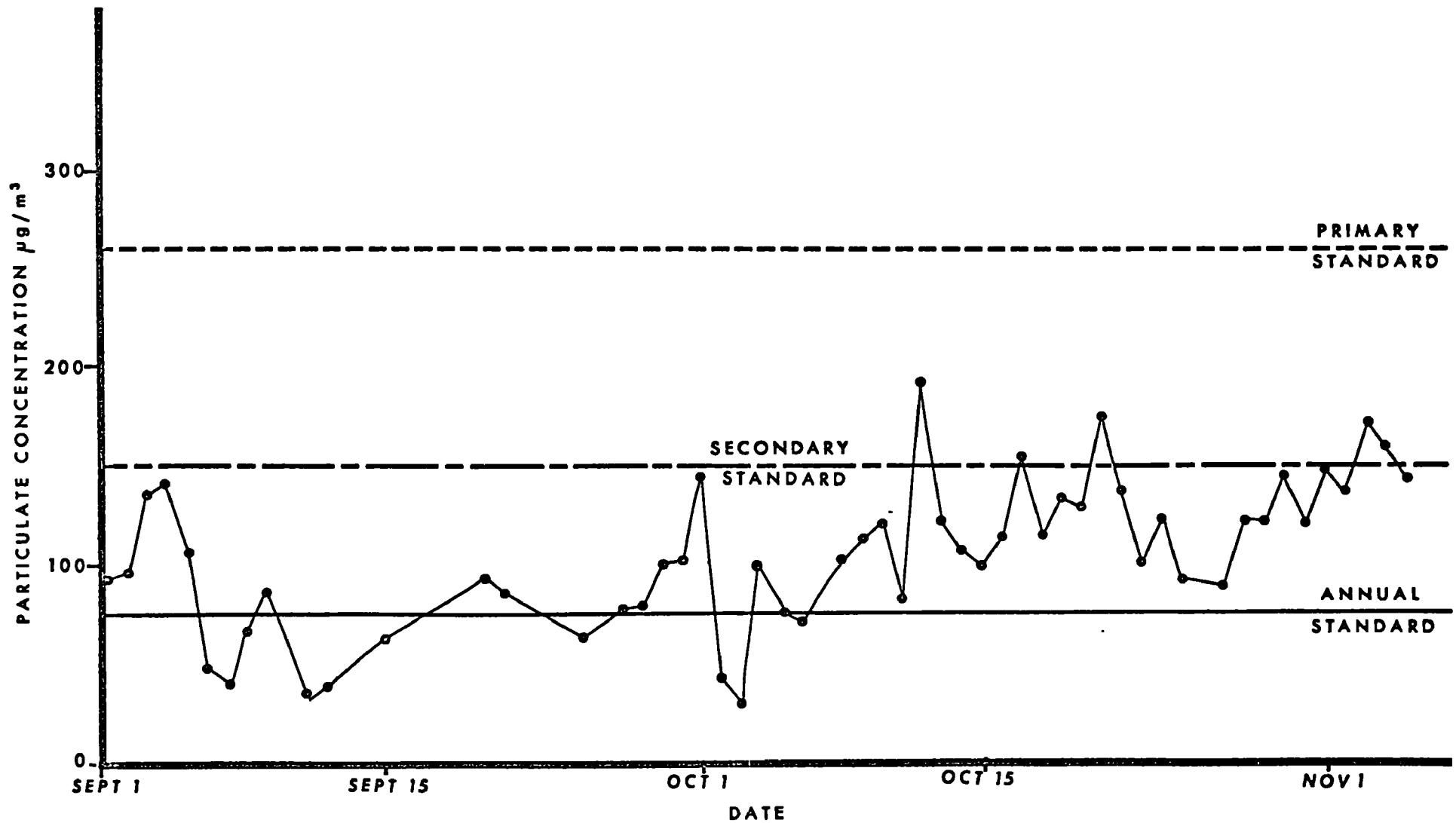


Figure 21. Daily Particulate Concentrations – Station 7 Fall

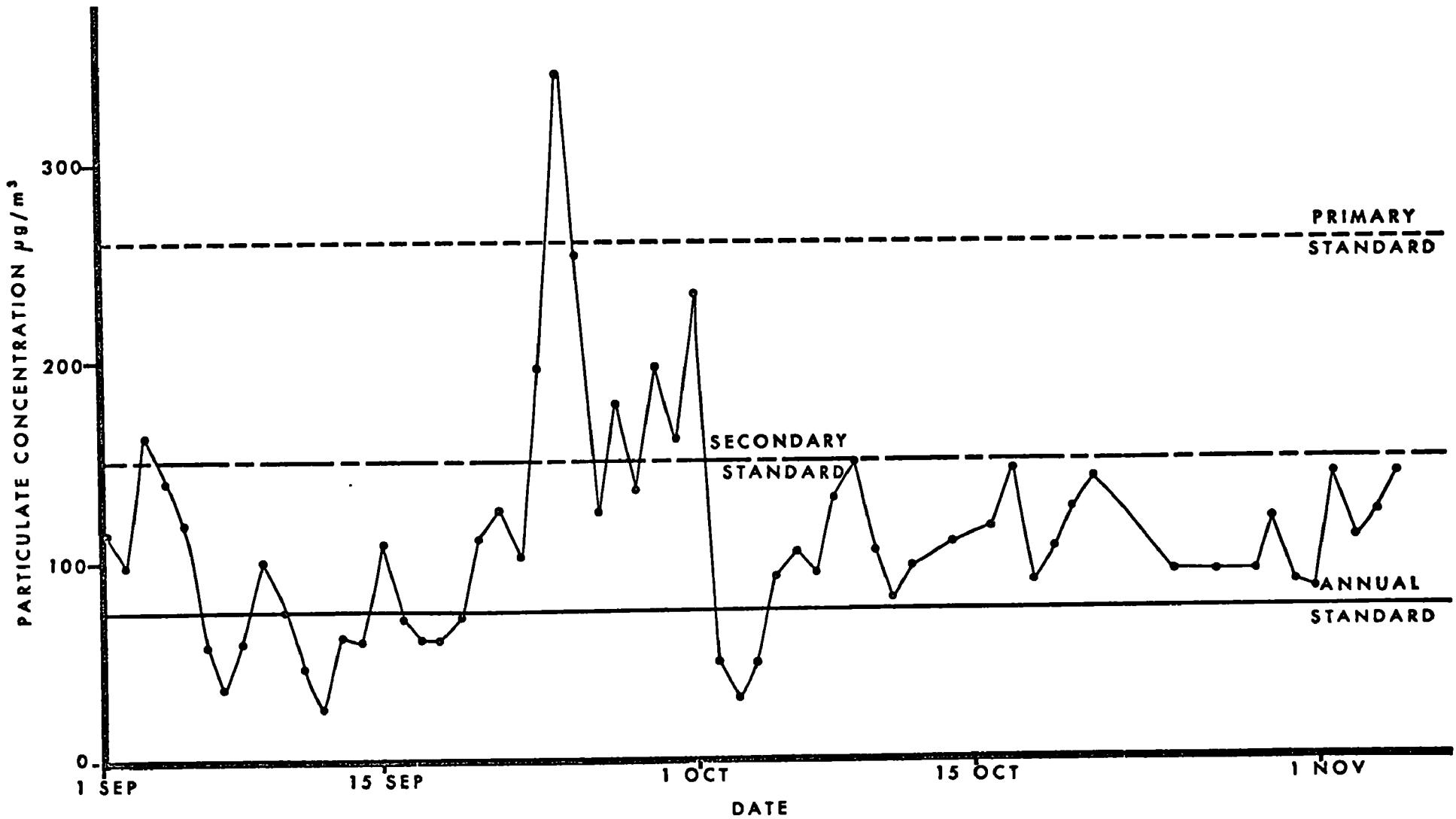


Figure 22. Daily Particulate Concentrations – Station "Geneva" Fall

Table 11
STATISTICAL SUMMARY OF TSP[†] DATA - FALL
USSC AIR QUALITY MONITORING STUDY - NEAR STATIONS^{††}

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)				Excursions	
	Maximum		Minimum	Geometric Mean	Primary	Secondary
	First	Second				
1	234	199	29	116	0	18
2	364	309	26	150	6	23
3	292	275	20	130	2	13
4	265	265*	36	119	2	17
5	311	295	53	158	8	20
6	617	567	51	243	32**	13**
7	191	171	27	93	0	5
"Geneva"	348	254	25	99	1	7

†† NEIC stations and Utah State Health Department "Geneva" station.

* Two values of 265 $\mu\text{g}/\text{m}^3$.

** See text for explanation.

Table 12
STATISTICAL SUMMARY OF TSP[†] DATA - FALL
USSC AIR QUALITY MONITORING STUDY - USHD STATIONS^{††}

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)				Excursions	
	Maximum		Minimum	Geometric Mean	Primary	Secondary
	First	Second				
Lehi	131	128	21	66	0	0
Pleasant Grove	199	186	19	75	0	5
Lindon	195	186	20	99	0	6
Orem	256	128	22	68	0	1
Provo	172	140	24	72	0	1
Mapleton	183	168	19	62	0	5

†† Utah State Health Department stations in Utah Valley, except "Geneva."

† TSP = total suspended particulates

Hourly meteorological data for station 2 for the period are shown in Table C-3 [Addendum C]. These data have been summarized for the months of September and October with respect to number of occurrences of persistence of wind speed [Tables 13 and 14] and wind direction [Tables 15 and 16]. During both September and October, wind speeds were predominantly 1 to 4 m/sec (3 to 8 mph). The pattern of persistence of wind direction changes from September to October. During September, winds were highly variable; only 18 occurrences during the month were recorded where winds persisted in one of the cardinal directions 3 or more hours; a total of 549 occurrences are recorded where winds persisted for 1 to 2 hours; and 53 occurrences are recorded for 2 to 3 hours. For October, a total of 41 occurrences of persistence for 3 or more hours are recorded; note that 14 are from the northeast and 12 are from either southwest or west-southwest. A total of 287 occurrences are recorded for 1 to 2 hours and 64 occurrences are recorded for 2 to 3 hours.

WINTER

The 24-hour average TSP concentrations for NEIC and USHD "Geneva" stations are shown in Table B-4 [Addendum B]. Daily TSP data from other USHD stations are shown in Table F-4 [Addendum F]. Plots of 24-hour average TSP concentrations at stations 2, 4, 5, 6, and 7 are shown in Figures 23 through 27. A plot of data from station 6 is included in this analysis because the fugitive dust interference was reduced significantly by reduction of turkey population and by precipitation. These plots show a marked increase in concentrations during the period at all stations. Generally, highest concentrations are found at station 5. As with other periods, variation in concentrations were most pronounced at stations near the plant.

Table 13

**NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND SPEED
FOR SEPTEMBER 1976**

NUMBER OF HOURS OF PERSIST- ENCE	- WIND SPEED (MPH) -						
	/ <= 1.54 / > 1.54 / > 3.08 / > 5.14 / > 8.23 / > 10.8 /						
1	/	8 /	1 /	18 /	20 /	8 /	4 /
2	/	0 /	0 /	7 /	6 /	5 /	2 /
3	/	2 /	1 /	10 /	4 /	2 /	2 /
4	/	0 /	0 /	8 /	5 /	2 /	2 /
5	/	0 /	1 /	1 /	3 /	1 /	0 /
6	/	0 /	1 /	2 /	3 /	0 /	0 /
7	/	0 /	0 /	2 /	2 /	2 /	0 /
8	/	0 /	0 /	0 /	5 /	1 /	0 /
9	/	0 /	0 /	2 /	3 /	0 /	0 /
10	/	0 /	0 /	2 /	0 /	0 /	0 /
11	/	0 /	0 /	3 /	0 /	0 /	0 /
12	/	0 /	0 /	0 /	0 /	0 /	0 /
13	/	0 /	0 /	1 /	0 /	0 /	0 /
14	/	0 /	0 /	3 /	1 /	0 /	0 /
15	/	0 /	0 /	2 /	2 /	0 /	0 /
16	/	0 /	0 /	2 /	0 /	0 /	0 /
17	/	0 /	0 /	1 /	0 /	0 /	0 /
18	/	0 /	0 /	1 /	0 /	0 /	0 /
19	/	0 /	0 /	0 /	0 /	0 /	0 /
20	/	0 /	0 /	0 /	0 /	0 /	0 /
21	/	0 /	0 /	0 /	0 /	0 /	0 /
22	/	0 /	0 /	1 /	0 /	0 /	0 /
23	/	0 /	0 /	1 /	0 /	0 /	0 /
24	/	0 /	0 /	0 /	0 /	0 /	0 /
>24	/	0 /	9 /	1 /	0 /	0 /	0 /
TOTAL	/	10 /	13 /	68 /	54 /	21 /	10 /

NOTE: This table gives the number of occurrences of N hours of persistence for the particular wind speed (direction) category, the wind speed categories are not cumulative within any one time category, the speed categories are cumulative only with increased time.

Table 14
**NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND SPEED
FOR OCTOBER 1976**

NUMBER OF HOURS OF PERSIST- ENCE	- WIND SPEED (MPH) -						
	/ <= 1.54 / > 1.54 / > 3.08 / > 5.14 / > 8.23 / > 10.8 /	/	/	/	/	/	/
1	/ 25 /	3 /	37 /	14 /	4 /	4 /	
2	/ 2 /	1 /	19 /	7 /	2 /	2 /	
3	/ 0 /	1 /	8 /	4 /	0 /	1 /	
4	/ 0 /	1 /	3 /	2 /	2 /	2 /	
5	/ 0 /	0 /	5 /	3 /	1 /	0 /	
6	/ 0 /	0 /	3 /	4 /	1 /	1 /	
7	/ 0 /	2 /	6 /	1 /	2 /	0 /	
8	/ 0 /	0 /	1 /	1 /	1 /	1 /	
9	/ 0 /	0 /	1 /	0 /	0 /	1 /	
10	/ 0 /	3 /	3 /	1 /	1 /	0 /	
11	/ 0 /	0 /	1 /	1 /	1 /	1 /	
12	/ 0 /	0 /	1 /	2 /	1 /	0 /	
13	/ 0 /	0 /	1 /	2 /	0 /	0 /	
14	/ 0 /	2 /	7 /	0 /	0 /	0 /	
15	/ 0 /	1 /	0 /	1 /	0 /	0 /	
16	/ 0 /	1 /	1 /	0 /	0 /	0 /	
17	/ 0 /	0 /	0 /	0 /	0 /	0 /	
18	/ 0 /	0 /	0 /	0 /	0 /	0 /	
19	/ 0 /	1 /	1 /	0 /	0 /	0 /	
20	/ 0 /	0 /	0 /	0 /	0 /	0 /	
21	/ 0 /	2 /	0 /	0 /	0 /	0 /	
22	/ 0 /	0 /	0 /	0 /	0 /	0 /	
23	/ 0 /	1 /	0 /	0 /	0 /	0 /	
24	/ 0 /	0 /	0 /	0 /	0 /	0 /	
>24	/ 0 /	8 /	0 /	0 /	0 /	0 /	
TOTAL	/ 27 /	29 /	98 /	43 /	16 /	13 /	

NOTE: This table gives the number of occurrences of N hours of persistence for the particular wind speed (direction) category, the wind speed categories are not cumulative within any one time category, the speed categories are cumulative only with increased time.

Table 15
**NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND DIRECTION
FOR SEPTEMBER 1976**

NUMBER OF HOURS OF PERSIST- ENCE	/	N /	- WIND DIRECTION (SECTOR) -														
			NNE /	NE /	ENE /	E /	ESE /	SE /	SSE /	S /	SSW /	SW /	WSW /	W /	WNW /	NW /	NNW /
1	/	11/	22/	33/	29/	29/	23/	24/	19/	21/	25/	19/	21/	19/	15/	16/	23/
2	/	0/	1/	11/	1/	2/	2/	3/	4/	5/	1/	10/	3/	3/	2/	4/	1/
3	/	0/	0/	2/	1/	0/	0/	0/	0/	2/	0/	2/	1/	0/	2/	3/	0/
4	/	0/	1/	1/	0/	0/	0/	0/	1/	0/	0/	3/	0/	0/	0/	0/	1/
5	/	0/	0/	2/	0/	1/	0/	0/	0/	0/	0/	1/	1/	0/	0/	3/	0/
6	/	0/	0/	0/	0/	0/	0/	0/	0/	1/	0/	0/	0/	0/	0/	0/	0/
7	/	0/	0/	2/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
8	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
9	/	0/	0/	0/	C/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
10	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
11	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
12	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
13	/	0/	0/	C/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
14	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
15	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
16	/	0/	0/	C/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
17	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
18	/	0/	0/	C/	C/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
19	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
20	/	0/	0/	0/	C/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
21	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
22	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
23	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
>24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
TOTAL	/	11/	24/	51/	31/	32/	26/	27/	24/	29/	26/	35/	26/	22/	19/	26/	25/

NOTE: This table gives the number of occurrences of N hours of persistence for the particular wind speed (direction) category, the wind speed categories are not cumulative within any one time category, the speed categories are cumulative only with increased time.

Table 16
**NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND DIRECTION
FOR OCTOBER 1976**

NUMBER OF HOURS OF PERSIST- ENCE	- WIND DIRECTION(SECTOR) -																
	/	N /	NNE /	NE /	ENE /	E /	ESE /	SE /	SSE /	S /	SSW /	SW /	WSW /	W /	WNW /	NW /	NNW /
1	/	18/	16/	38/	43/	27/	13/	15/	13/	9/	10/	20/	26/	12/	8/	17/	15/
2	/	0/	2/	19/	7/	6/	3/	0/	0/	0/	0/	8/	7/	2/	1/	8/	2/
3	/	0/	0/	8/	1/	0/	0/	0/	0/	0/	1/	1/	2/	1/	0/	0/	1/
4	/	0/	0/	2/	0/	0/	0/	0/	0/	1/	0/	1/	1/	0/	0/	2/	3/
5	/	0/	0/	2/	0/	0/	0/	0/	0/	0/	0/	3/	1/	0/	0/	0/	1/
6	/	0/	0/	1/	0/	0/	0/	0/	0/	0/	0/	1/	1/	0/	0/	0/	0/
7	/	0/	0/	1/	0/	0/	0/	0/	0/	0/	0/	1/	0/	0/	0/	0/	1/
8	/	0/	0/	1/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	1/
9	/	0/	0/	1/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
10	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
11	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
12	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
13	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
14	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
15	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
16	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
17	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
18	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
19	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
20	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
21	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
22	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
23	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
>24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/
TOTAL	/	18/	18/	73/	51/	33/	16/	15/	13/	10/	11/	35/	38/	15/	9/	27/	24/

NOTE: This table gives the number of occurrences of *N* hours of persistence for the particular wind speed (direction) category. The wind speed categories are not cumulative within any one time category. The speed categories are cumulative only with increased time.

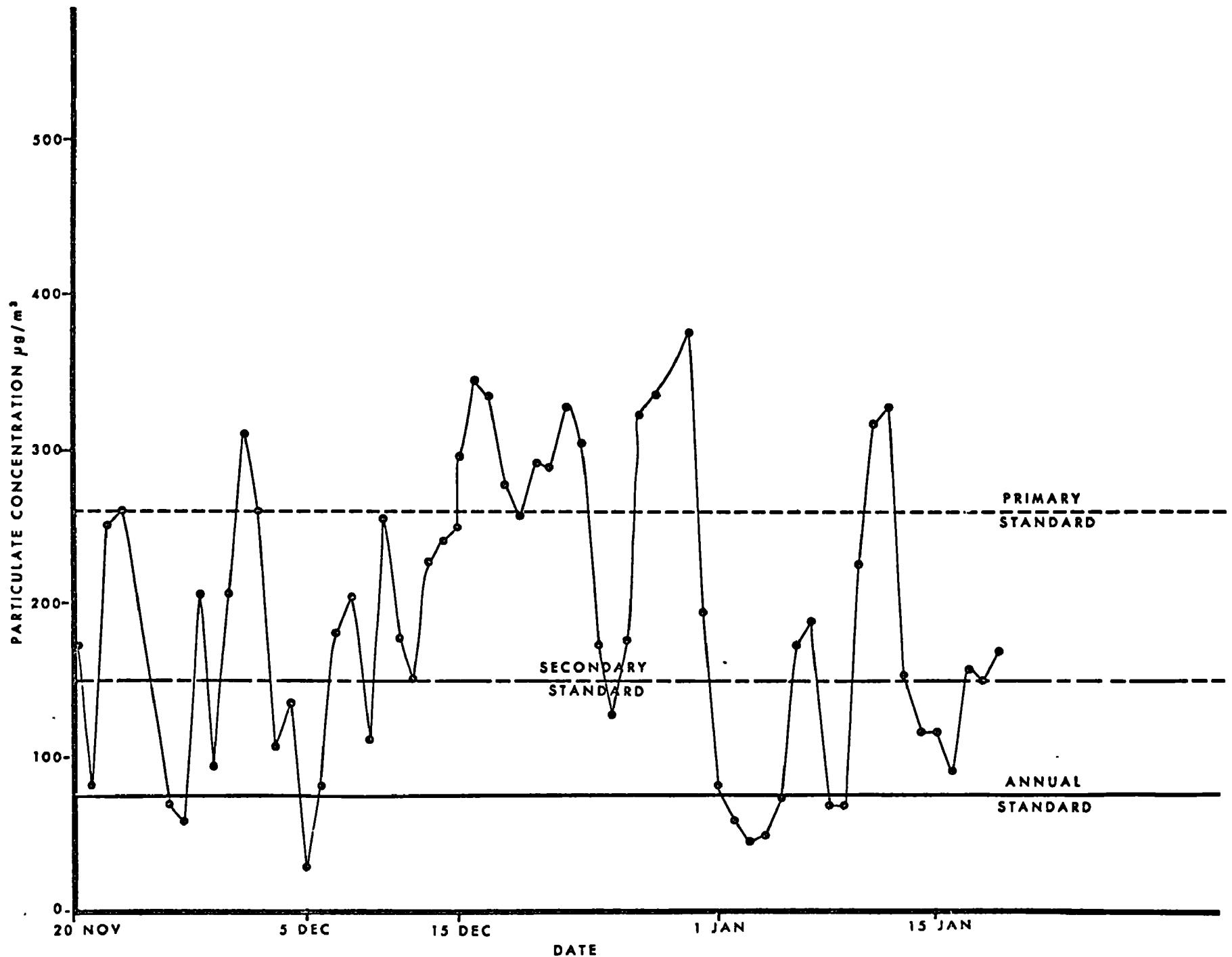


Figure 23. Daily Particulate Concentrations – Station 2 Winter

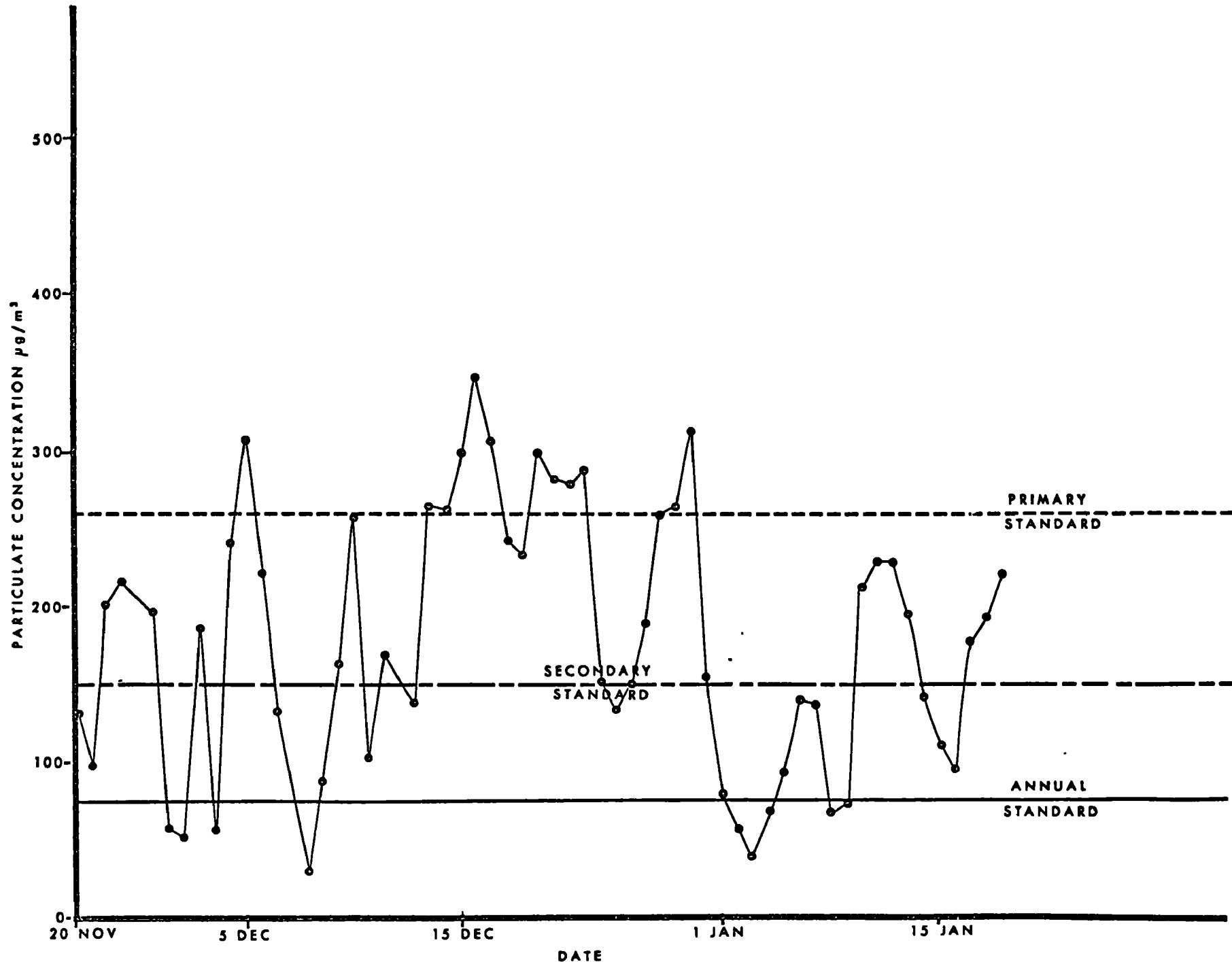


Figure 24. Daily Particulate Concentrations – Station 4 Winter

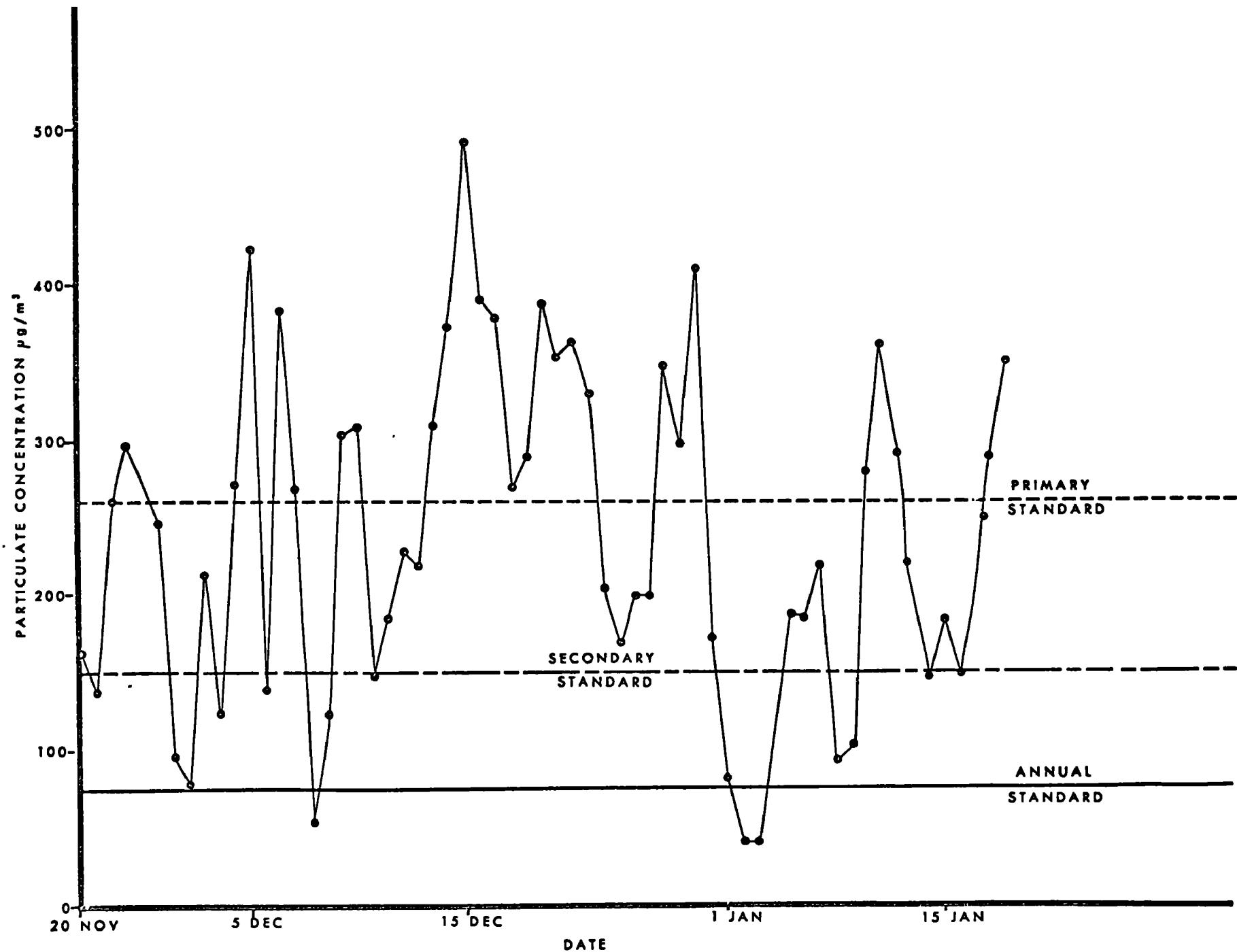


Figure 25. Daily Particulate Concentrations – Station 5 Winter

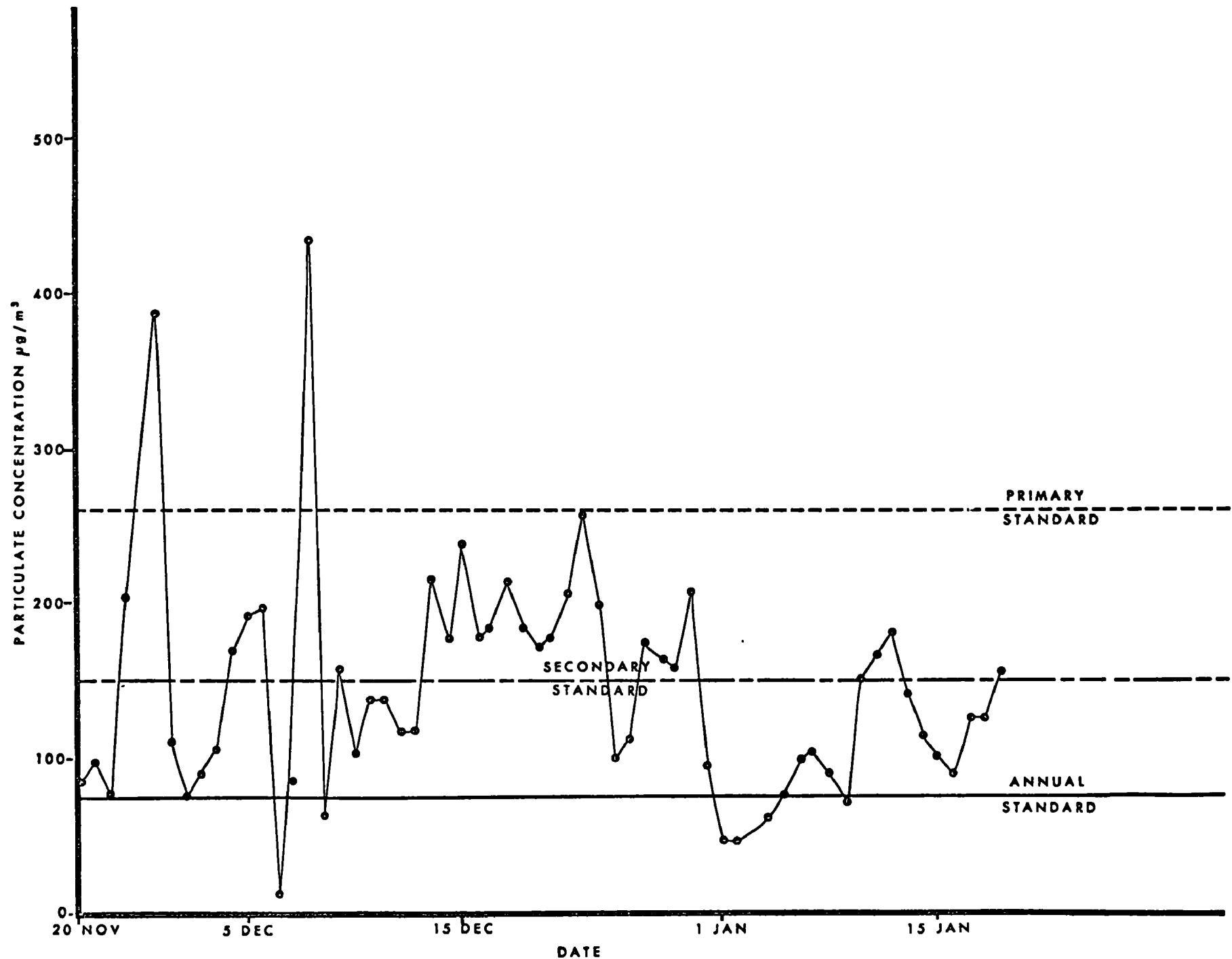


Figure 26. Daily Particulate Concentrations - Station 6 Winter

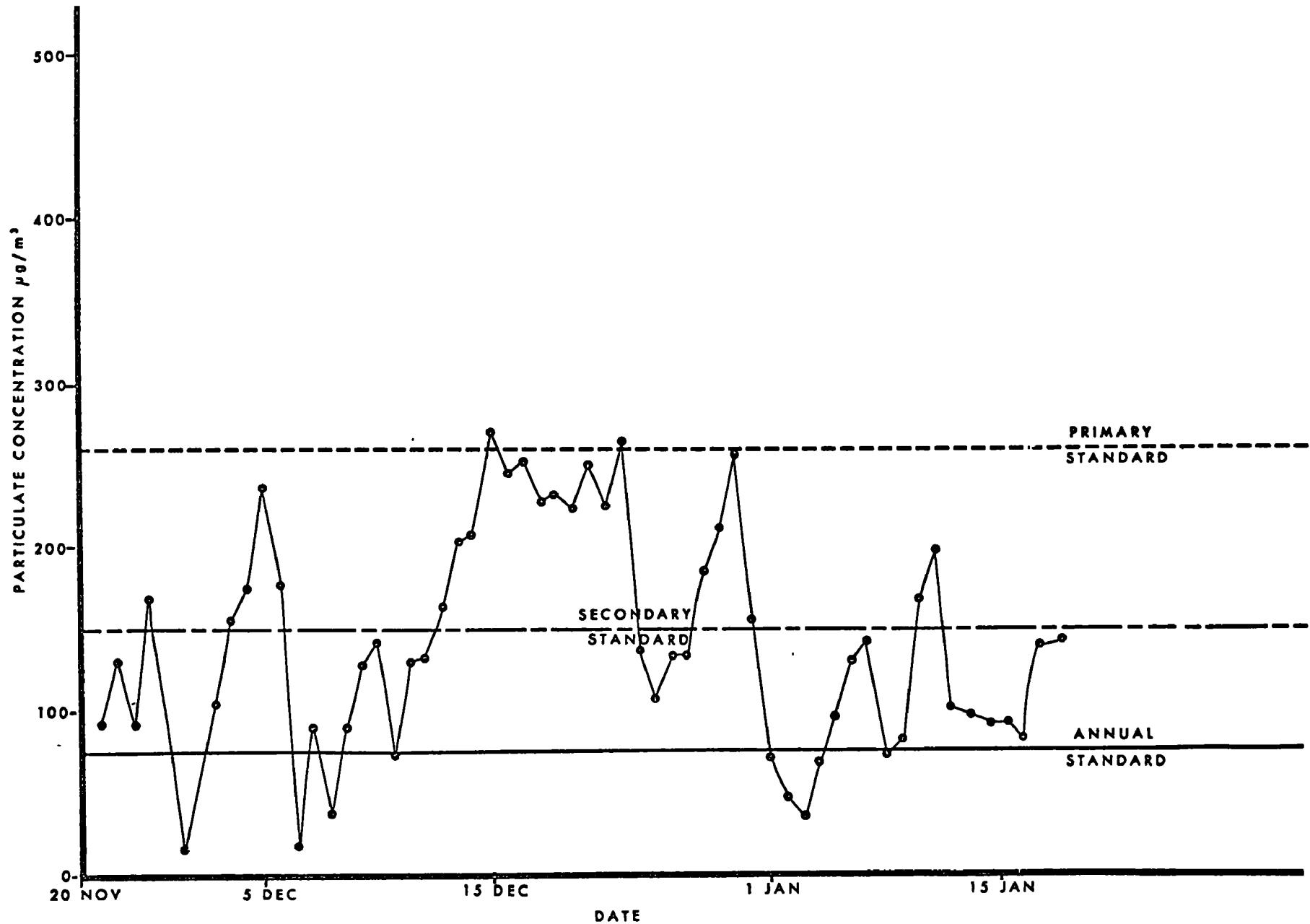


Figure 22. Daily Particulate Concentrations – Station 7 Winter

A statistical summary of TSP data from NEIC and the USHD "Geneva" stations for the period is shown in Table 17 and a summary from other USHD stations is shown in Table 18. At the NEIC and "Geneva" stations, a total of 54 primary excursions and 121 secondary excursions were recorded; at the other USHD stations, 6 primary excursions and 93 secondary excursions were recorded. Primary excursions were recorded somewhere on the network for 27 of 61 days (44%), while primary or secondary excursions were recorded 48 of 61 days (79%).

Hourly meteorological data for station 2 for the period is shown in Table C-4 [Addendum C]. These data have been summarized for the entire period with respect to the number of occurrences of persistence of wind speed [Table 19] and direction [Table 20]. During the period, wind speeds were predominantly less than 3 m/sec (7 mph). Note the high frequency of persistent wind speeds less than 1.6 m/sec (3.5 mph); a total of 30 occurrences are recorded of persistence greater than 12 hours. The pattern of persistence in wind direction is somewhat similar to October; a total of 58 occurrences (over a 61-day period) are recorded of persistence in wind direction for 3 or more hours; a total of 106 occurrences are recorded where wind persistence for 2 to 3 hours; and 694 occurrences are recorded where winds persisted for 1 to 2 hours. As in October, predominant directions for persistent winds are from the northeast, southwest and south-southwest.

Table 17
STATISTICAL SUMMARY OF TSP[†] DATA - WINTER
USSC AIR QUALITY MONITORING STUDY - NEAR STATIONS⁺⁺

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)				Excursions	
	Maximum		Minimum	Geometric Mean	Primary	Secondary
	First	Second				
2	375	345	30	159	13	25
4	345	312	28	153	12	22
5	490	423	38	207	25	19
6	434	388	10	116	2	24
7	267	262	14	124	2	23
"Geneva"	244	193	20	106	0	8

⁺⁺ NEIC stations and Utah State Health Department "Geneva" station.

Table 18
STATISTICAL SUMMARY OF TSP[†] DATA - WINTER
USSC AIR QUALITY MONITORING STUDY - USHD STATIONS⁺⁺

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)				Excursions	
	Maximum		Minimum	Geometric Mean	Primary	Secondary
	First	Second				
Lehi	210	208	22	114	0	18
Pleasant Grove	277	224	18	119	1	26
Lindon	317	291	18	139	4	19
Orem	202	192	21	110	0	16
Provo	203	189	27	103	0	13
Mapleton	311	168	20	70	1	1

⁺⁺ Utah State Health Department stations in Utah Valley, except "Geneva."

[†] TSP = total suspended particulates

Table 19

**NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND SPEED
FOR WINTER 1976-1977**

NUMBER OF HOURS OF PERSIST- ENCE	- WIND SPEED (MPH) -					
	/ <= 3.45	/ > 3.45 / > 6.90	/ > 11.5	/ > 18.4	/ > 24.1	/
1	/	97 /	106 /	12 /	8 /	2 /
2	/	56 /	44 /	2 /	4 /	5 /
3	/	31 /	17 /	5 /	0 /	0 /
4	/	10 /	15 /	1 /	1 /	0 /
5	/	12 /	21 /	1 /	1 /	0 /
6	/	15 /	16 /	1 /	2 /	1 /
7	/	6 /	7 /	3 /	1 /	0 /
8	/	2 /	3 /	2 /	1 /	0 /
9	/	2 /	0 /	2 /	1 /	0 /
10	/	3 /	1 /	0 /	0 /	0 /
11	/	1 /	2 /	0 /	0 /	0 /
12	/	2 /	1 /	0 /	0 /	0 /
13	/	0 /	1 /	1 /	0 /	0 /
14	/	1 /	0 /	0 /	0 /	0 /
15	/	0 /	1 /	2 /	0 /	0 /
16	/	0 /	1 /	1 /	0 /	0 /
17	/	0 /	0 /	0 /	0 /	0 /
18	/	0 /	0 /	0 /	0 /	0 /
19	/	0 /	0 /	0 /	0 /	0 /
20	/	0 /	0 /	0 /	0 /	0 /
21	/	0 /	1 /	0 /	0 /	0 /
22	/	0 /	1 /	0 /	0 /	0 /
23	/	0 /	0 /	0 /	0 /	0 /
24	/	0 /	1 /	0 /	0 /	0 /
>24	/	0 /	2 /	0 /	0 /	0 /
TOTAL	/	244 /	241 /	33 /	19 /	8 /
						1 /

NOTE: This table gives the number of occurrences of N hours of persistence for the particular wind speed (direction) category. The wind speed categories are not cumulative within any one time category. The speed categories are cumulative only with increased time.

Table 20
NUMBER OF OCCURRENCES OF PERSISTENCE OF WIND DIRECTION
FOR WINTER 1976-1977

NUMBER OF HOURS OF PERSIST- ENCE	WIND DIRECTION (SECTOR)																
	/	N /	NNE /	NE /	ENE /	E /	ESE /	SE /	SSE /	S /	SSW /	SW /	WSW /	W /	WNW /	NW /	NNW /
1	/	94/	86/	95/	49/	30/	28/	32/	25/	23/	46/	52/	66/	50/	30/	55/	61/
2	/	14/	41/	15/	1/	2/	3/	3/	4/	5/	3/	16/	4/	6/	4/	7/	7/
3	/	5/	13/	4/	0/	0/	0/	0/	4/	1/	1/	5/	1/	0/	0/	1/	1/
4	/	0/	3/	0/	0/	0/	0/	0/	0/	0/	1/	10/	1/	0/	0/	1/	2/
5	/	0/	1/	0/	0/	0/	0/	0/	0/	0/	0/	2/	0/	0/	1/	0/	
6	/	0/	3/	0/	0/	0/	0/	0/	0/	0/	0/	1/	0/	0/	0/	2/	1/
7	/	0/	1/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
8	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
9	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
10	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
11	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
12	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
13	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
14	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
15	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
16	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
17	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
18	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
19	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
20	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
21	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
22	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
23	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
24	/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	0/	
TOTAL	/	113/	148/	114/	50/	32/	31/	30/	30/	29/	51/	86/	66/	56/	34/	67/	72/

NOTE: This table gives the number of occurrences of N hours of persistence for the particular wind speed (direction) category. The wind speed categories are not cumulative within any one time category. The speed categories are cumulative only with increased time.

V. DATA SUMMARY AND INTERPRETATION

Data are summarized and interpreted in terms of violations of TSP standards violations, meteorology, and TSP trends with time and day of week.

TSP STANDARDS VIOLATIONS

The principal criteria for TSP data analyses were the primary and secondary 24-hour average standards and the primary annual geometric mean established by the national ambient air quality standards, as follows:

Primary - 24-hour average TSP concentration shall not exceed $260 \mu\text{g}/\text{m}^3$ more than once annually.

Secondary - 24-hour average TSP concentrations shall not exceed $150 \mu\text{g}/\text{m}^3$ more than once annually.

Primary - Annual geometric mean shall not exceed $75 \mu\text{g}/\text{m}^3$.

Data from those NEIC and USHD stations which were operated over a full six-month period are summarized in Table 21; the geometric means are calculated for the period July 19, 1976 through January 19, 1977. Station 6 is not included in this analysis because of the fugitive dust interference, discussed previously. Total number of primary and secondary 24-hour excursions are also tabulated. Note that an occurrence of more than one primary or secondary excursion at any station constitutes a violation of the 24-hour primary and secondary standards. In the discussion which follows, it is assumed that the geometric mean over this six-month

Table 21
STATISTICAL SUMMARY OF TSP[†] DATA
USSC AIR QUALITY MONITORING STUDY - NEIC AND USHD STATIONS
July 19, 1976 - January 19, 1977

Station	TSP Concentrations ($\mu\text{g}/\text{m}^3$)				Excursions	
	Maximum		Minimum	Geometric Mean	Primary	Secondary
	First	Second				
2	396	375	26	148	20	61
4	345	312	28	121	14	42
5	490	423	37	156	33	43
7	267	262	14	99	2	28
"Geneva"	348	254	20	94	1	15
Lehi	210	208	20	78	0	18
Pleasant Grove	277	224	18	85	1	31
Orem	250	202	21	76	0	17
Provo	203	189	24	81	0	13
Mapleton	311	183	19	57	1	6

† TSP = total suspended particulates

period will be nearly equivalent to that for a full-year period, since samples were collected for a cross-section of meteorological conditions -- part favorable for lower concentrations and part conducive to higher concentrations.

The data in Table 21 show violations of the primary and secondary 24-hour standards and the primary annual standard at NEIC stations 2, 4, 5, and 7. The secondary 24-hour standard was violated at all USHD stations, and the primary annual standard was violated at all USHD stations except Mapleton. Review of Tables 7, 8, 11, 12, 17 and 18 shows that primary and secondary excursions also occurred at NEIC stations 1 and 3 and at the USHD Lindon station.

These data lead to a clear inference that TSP concentrations in the Utah Valley are a function of distance and of orientation with respect to the USSC Geneva Works. Generally, those stations north of and nearest the plant will be highest in concentration. The influence of the plant is further substantiated by the occurrence of highest TSP concentrations at NEIC station 5 on the network nearest the plant, and at Lindon on the USHD network. This correlates with the general meteorological conditions during the survey which were characterized by east-northeast winds at night and southwest winds during the day.

METEOROLOGY

Generally, meteorological conditions throughout the survey were characterized by unseasonably warm dry weather. There was no significant precipitation through the entire survey period in the Salt Lake City-Provo area or the Wasatch Range. The fall-early winter period of 1976 was the driest ever recorded at Salt Lake City.⁵

These general conditions significantly affect wind direction and speed patterns in the Utah Valley. Under more normal weather patterns, frontal passages would dictate southerly breezes well in advance of cold front passages; as the front approached, wind speeds should increase (direction still from the south). After the frontal passage, winds should normally shift to the north-northwest with greatly increased speeds. However, with the lack of frontal passages, terrain features are the predominant factor in determining diurnal wind patterns. Under more normal meteorological conditions, it is expected that more persistent winds would cause TSP concentrations to be higher except during periods immediately before and after frontal passages, when concentrations would be significantly altered due to increased wind speeds and occurrences of precipitation.

TSP TRENDS

Time

In general, the data show that TSP concentrations increased throughout the network as the survey progressed. This trend is partly explained by the decrease in sunlight from June 21 to the end of the survey, generally allowing a greater period of inversion each day, tending to increase TSP concentrations at ground level. On this basis, assuming all other factors are equal, it can be expected that maximum TSP concentrations will occur during the period December through February.

As will be discussed in detail in Appendix III, the TSP levels were also influenced by the significant increase in use of coal as a fuel source in the power boilers beginning December 1. During the entire month of November 1976, a total of 90 m. tons (100 tons) of coal were burned; average daily use for December was 264 m. tons (293 tons)/day

varying from 0 to 568 m. tons (631 tons)/day. During January, the average was 266 m. tons (295 tons)/day, varying from 0 to 392 m. tons (435 tons)/day. TSP levels were significantly higher during the winter period, as reflected by the increase in geometric mean by a factor of 1.3 at station 4, 5, and 7 in the near network; and by factors of 1.2-1.7 at the USHD stations. Note also the increase in number of primary excursions at stations 2, 4, and 5. No excursions had been reported at station 7 or the USHD stations (except Geneva) prior to the winter period.

Day of Week

TSP data were analyzed during each of the last three periods at the NEIC stations to determine variations in geometric mean as a function of day of week. Summaries of these analyses for the three periods are shown in Tables 22, 23, and 24. These summaries indicate that there is a variation and that this variation is most significant during the winter period. This phenomena will be more fully explored in Appendix III; in that volume variations in source strengths (i.e., production rates) from the major processes will be compared with TSP concentrations.

Table 22
TSP AS A FUNCTION OF DAY OF WEEK - LATE SUMMER

Station No.	Geometric Mean ($\mu\text{g}/\text{m}^3$) for all values for given day of week						
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	84	103	98	97	104	111	89
2	81	126	140	165	159	161	113
4	73	82	100	98	99	95	91
5	89	104	115	77	118	110	92
6	79	77	70	86	85	84	74
7	66	71	80	76	88	79	72
"Geneva"	77	69	81	76	88	72	78

Table 23
TSP AS A FUNCTION OF DAY OF WEEK - FALL

Station No.	Geometric Mean ($\mu\text{g}/\text{m}^3$) for all values for given day of week						
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	76	95	115	136	150	162	92
2	73	142	135	189	187	195	151
3	77	112	127	174	194	175	116
4	92	110	111	135	155	143	88
5	110	154	177	191	180	188	133
6	208	177	225	193	308	348	282
7	77	83	93	94	115	126	81
"Geneva"	74	83	92	110	115	134	100

Table 24
TSP AS A FUNCTION OF DAY OF WEEK - WINTER

Station No.	Geometric Mean ($\mu\text{g}/\text{m}^3$) for all values for given day of week						
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	102	152	197	201	224	160	117
4	98	140	198	231	209	142	102
5	131	183	322	325	237	202	152
6	108	123	152	152	183	93	92
7	93	125	148	180	164	147	104

REFERENCES

1. U.S. Environmental Protection Agency, National Enforcement Investigations Center, "Impact of Particulate Matter Emissions on Ambient Air Quality, United States Steel Corporation - Geneva Works, Appendix II, Source Identification", EPA-330/2-77-005-B , April 1977.
2. Hale, Wayne B., "Canyon Winds of the Wasatch Mountains," Bulletin of American Meteorological Society, 14 (1933), 194.
3. Hale, Wayne B., "Characteristics of Prevailing Winds at the Provo Municipal Airport," publication and date unknown.
4. Smith, Franklin, and Nelson, A. Carl Jr., "Guidelines for Development of a Quality Assurance Program, Reference Method for the Determination of Suspended Particulates in the Atmosphere (High-Volume Method)," Quality Assurance and Environmental Monitoring Laboratory, National Environmental Research Center, Research Triangle Park, N.C., EPA-R2-73-028b, June 1973.
5. Interview by Robert L. King, NEIC with Mr. William Chapman, Meteorologist-in-Charge, Salt Lake City Weather Bureau, Jan. 11, 1976.

ADDENDA

- A Hi-Vol Data Record**
- B Daily Particulate Concentrations
NEIC Stations and USHD "Geneva"**
- C Hourly Meteorological Data**
- D Average Wind Speeds and Wind Directions**
- E Summary of Observations by Field Personnel**
- F Daily Particulate Concentrations
USHD Stations in Utah Valley, except "Geneva"**
- G Weekly TSP Data from LOVOL Stations
USSC-Geneva Network**

ADDENDUM A
Hi-Vol Data Record

HI-VOL DATA RECORD
(Continued)

PARTICULATE DATA - For Lab Use Only

Filter-Gross Wgt _____ grams
Filter-Tare Wgt. _____ grams
Net Particulate Wgt. _____ grams
Initial m³/min. _____ .
Final m³/min. _____
Air Volume _____ m³
Particulate Concentration _____ $\mu\text{g}/\text{m}^3$
Total Sampling Time _____ hours _____ minutes

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF ENFORCEMENT
NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
Bldg 53, Box 25227 Denver Federal Center
Denver, Colorado 80225

HI-VOL DATA RECORD

STATION LOCATION _____
CITY & STATE _____
SAMPLE COLLECTOR _____ STATION NUMBER _____
SAMPLER IDENTIFICATION NO. _____
FILTER NUMBER _____
START SAMPLING _____
mo day yr hr min m min
CLOCK READING _____ min
STOP SAMPLING _____
mo day yr hr min m min
CLOCK READING _____ min
WIND _____ calm, _____ light, _____ gusty, _____ mph, _____ direction
VISIBILITY _____ clear, _____ hazy
SKY _____ clear, _____ scattered, _____ overcast
HUMIDITY _____ dry, _____ moderate, _____ humid, _____ rain
TEMPERATURE °F _____ < 20, _____ 20-40, _____ 41-60, _____ 61-80
_____ > 80

REMARKS _____

ADDENDUM B

**Daily Particulate Concentrations
NEIC Stations and USHD "Geneva"**

Table B-1
TSP DATA
USSC GENEVA WORKS AIR QUALITY MONITORING SURVEY
Early Summer
May 25-July 5, 1976

Date of Sampling	Station							USHD Geneva
	1	2	3	4	5	6	7	
	$\mu\text{g}/\text{m}^3$							
5/25	-	175	67	59	95	79	44	57
5/26	-	89	58	58	75	55	47	58
5/27	-	90	73	65	74	37	-	-
5/28	-	216	116	155	187	200	92	-
5/29	-	89	54	59	79	66	-	37
5/30	-	56	43	50	46	37	40	-
5/31	-	87	87	106	72	46	62	63
6/1	-	93	114	98	89	59	-	69
6/2	-	140	116	94	89	46	73	89
6/3	-	138	133	122	103	65	71	-
6/4	-	89	90	69	50	51	-	76
6/5	-	99	72	51	63	55	61	63
6/6	-	70	72	64	64	34	69	87
6/7	-	118	106	90	95	78	-	127
6/8	-	106	109	81	92	78	77	89
6/9	-	86	124	82	88	82	58	67
6/10	-	118	170	149	293	114	91	207
6/11	-	48	45	39	49	36	34	30
6/12	-	84	59	40	47	35	37	31
6/13	-	42	38	40	88	176	37	35
6/14	-	71	64	56	92	67	51	45
6/15	-	95	94	64	109	47	55	47
6/16	-	156	-	74	83	87	56	56
6/17	-	76	-	89	83	45	43	58
6/18	-	70	-	50	72	50	60	57
6/19	80	94	-	56	78	55	58	77
6/20	77	59	-	66	177	72	59	59
6/21	111	136	-	146	171	72	67	112
6/22	76	202	-	88	255	262	66	78
6/23	190	335	-	74	89	97	50	76
6/24	307	120	-	93	100	71	70	95
6/25	227	180	-	120	151	123	78	111
6/26	131	112	-	101	142	213	102	99
6/27	121	168	-	114	129	75	98	82
6/28	119	150	-	157	180	103	117	125
6/29	192	201	-	289	231	156	131	160
6/30	63	185	-	104	90	77	105	84
7/1	141	230	-	159	193	150	129	-
7/2	124	161	-	144	182	108	124	-
7/3	96	141	-	111	100	81	111	-
7/4	104	140	-	94	91	54	97	100
7/5	109	138	-	92	94	64	98	80

Table B-2
TSP DATA
USSC GENEVA WORKS AIR QUALITY MONITORING SURVEY
Late Summer
July 19-August 31, 1976

Date of Sampling	Station							USHD Geneva
	1	2	4	5	6	7		
	$\mu\text{g}/\text{m}^3$							
7/19	92	138	61	75	47	61	-	
7/20	78	139	68	102	51	66	76	
7/21	80	174	98	37	69	66	78	
7/22	111	200	105	123	60	93	-	
7/23	109	396	81	117	79	79	104	
7/24	96	-	170	100	64	89	-	
7/25	84	90	58	74	59	63	64	
7/26	158	127	93	97	56	62	65	
7/27	151	142	129	100	72	92	115	
7/28	128	199	135	151	90	102	96	
7/29	79	102	80	89	71	58	86	
7/30	87	99	71	82	87	71	60	
7/31	53	78	45	57	62	37	-	
8/1	53	53	53	67	49	40	-	
8/2	66	114	71	93	82	62	55	
8/3	91	107	69	93	54	61	76	
8/4	119	114	82	101	77	67	49	
8/5	116	203	-	103	-	101	118	
8/6	113	145	133	117	79	81	73	
8/7	-	121	74	80	98	74	51	
8/8	80	100	73	91	85	80	71	
8/9	117	191	109	124	101	-	75	
8/10	107	178	112	146	-	96	85	
8/11	101	191	132	-	139	104	101	
8/12	139	169	175	-	74	119	119	
8/13	167	105	92	118	84	87	59	
8/14	115	98	96	104	74	78	95	
8/15	104	75	87	-	122	66	76	
8/16	-	-	107	124	98	-	61	
8/17	89	133	104	87	120	75	64	
8/18	73	-	74	61	65	53	52	
8/19	84	145	87	98	-	78	54	
8/20	116	223	111	130	94	86	75	
8/21	95	134	98	96	78	82	77	
8/22	98	94	84	107	95	70	98	
8/23	67	70	56	73	-	61	54	
8/24	88	117	86	102	71	78	74	
8/25	93	159	83	79	95	78	102	
8/26	105	158	74	203	163	94	82	
8/27	91	133	-	105	-	76	67	
8/28	103	152	99	129	-	89	98	
8/29	99	87	91	115	-	87	79	
8/30	159	149	125	196	-	88	126	
8/31	-	177	164	216	-	105	89	

Table B-3
TSP DATA
USSC GENEVA WORKS AIR QUALITY MONITORING SURVEY
Fall
September 1-November 5, 1976

Date of Sampling	Station							USHD Geneva
	1	2	3	4	5	6	7	
	(μg/m ³)							
9/1	121	151	-	110	148	-	91	113
9/2	199	200	-	201	137	-	94	97
9/3	-	242	-	172	-	314	133	163
9/4	154	196	-	153	132	421	140	140
9/5	124	124	-	152	129	298	104	118
9/6	66	74	-	79	-	156	44	55
9/7	51	45	-	43	81	82	38	33
9/8	110	93	-	76	-	115	65	58
9/9	115	171	-	131	165	216	83	100
9/10	147	-	-	138	-	338	-	75
9/11	51	68	-	54	78	81	32	45
9/12	38	35	-	36	-	51	35	25
9/13	98	96	-	96	126	80	-	71
9/14	87	100	-	-	-	91	-	68
9/15	182	220	-	113	106	224	61	110
9/16	130	127	-	99	102	120	-	68
9/17	118	106	-	79	122	179	-	60
9/18	71	-	-	78	90	188	-	60
9/19	77	-	-	73	125	279	-	72
9/20	111	-	-	103	180	334	91	111
9/21	149	-	-	134	144	546	83	125
9/22	-	-	-	110	-	152	-	100
9/23	173	149	-	95	127	266	-	196
9/24	154	124	-	77	-	-	-	348
9/25	100	91	78	63	-	347	61	254
9/26	78	59	48	61	72	281	-	124
9/27	130	125	107	105	163	206	75	178
9/28	145	146	85	87	-	309	76	135
9/29	168	178	150	146	202	86	98	198
9/30	164	171	144	146	208	567	100	160

Table B-3 (Continued)
TSP DATA
USSC GENEVA WORKS AIR QUALITY MONITORING SURVEY

Date of Sampling	Station							USHD Geneva
	1	2	3	4	5	6	7	
	(μg/m³)							
10/1	234	226	182	179	229	460	143	233
10/2	56	-	-	45	-	-	40	49
10/3	29	26	20	-	53	108	27	27
10/4	61	126	53	73	88	61	97	45
10/5	94	-	92	94	-	109	79	91
10/6	81	164	-	103	207	213	69	104
10/7	-	-	-	109	-	-	-	92
10/8	192	209	129	153	220	213	100	132
10/9	128	195	136	158	219	323	111	149
10/10	108	113	133	-	104	263	114	103
10/11	105	222	109	101	150	373	80	81
10/12	162	-	160	103	172	-	191	97
10/13	161	-	207	207	268	309	126	-
10/14	125	-	173	181	199	423	104	108
10/15	170	174	165	144	164	341	96	-
10/16	108	296	124	144	136	317	112	117
10/17	139	124	108	135	186	488	152	145
10/18	-	193	138	144	146	230	114	88
10/19	-	220	161	198	293	343	133	107
10/20	165	364	175	202	-	252	129	127
10/21	197	249	217	222	311	361	171	141
10/22	161	292	146	127	-	495	137	-
10/23	91	144	103	-	150	381	98	-
10/24	91	119	109	-	163	215	121	-
10/25	-	-	78	88	-	-	90	93
10/26	-	-	70	85	-	-	-	-
10/27	103	191	112	132	186	296	86	93
10/28	126	193	187	204	192	273	120	-
10/29	140	209	182	191	229	454	120	93
10/30	118	177	153	-	176	459	144	121
10/31	-	-	134	130	-	-	119	87
11/1	122	282	215	206	273	-	147	83
11/2	185	309	292	265	295	617	137	141
11/3	178	251	225	229	280	225	170	112
11/4	146	276	-	253	277	502	160	122
11/5	167	250	275	265	294	520	144	144

Table B-4
DAILY PARTICULATE CONCENTRATIONS
USSC GENEVA WORKS AIR QUALITY MONITORING SURVEY

Winter
November 20-January 19

Date	Station					Geneva
	2	4	5	6	7	
11/20	171	131	160	81	-	100
21	81	95	136	95	90	103
22	249	201	258	75	130	119
23	257	216	295	201	88	126
24	-	-	-	-	167	140
25	-	196	245	388	118	125
26	67	56	95	110	14	57
27	54	48	77	73	-	-
28	205	183	217	79	102	47
29	93	56	123	103	153	85
30	204	239	270	166	173	97
12/1	309	312	423	190	235	100
2	259	221	136	196	176	147
3	106	132	383	10	15	103
4	134	-	257	83	87	-
5	30	28	52	434	35	35
6	74	86	121	62	87	53
7	181	161	301	155	127	97
8	202	256	306	102	141	68
9	109	98	145	135	72	84
10	252	168	184	132	129	114
11	175	-	226	115	131	108
12	150	137	217	116	162	-
13	224	264	308	214	200	-
14	238	261	373	175	207	112
15	243	298	490	236	267	-
16	345	345	390	173	244	168
17	333	305	376	184	251	173
18	273	241	269	212	225	244
19	254	232	288	182	232	179
20	289	298	382	167	222	145
21	286	282	353	178	249	105
22	327	276	362	203	223	172
23	303	286	329	255	262	193
24	171	150	201	197	135	118
25	125	131	167	99	103	86
26	176	148	198	111	131	107
27	242	187	198	172	132	93
28	302	257	346	161	184	172
29	283	261	295	156	210	121
30	375	311	410	206	253	-
31	194	152	170	94	153	119
1/1	79	77	80	47	68	31
2	59	55	39	45	44	46
3	42	38	38	-	33	20
4	49	67	-	60	66	33
5	74	92	186	74	94	80
6	171	142	184	98	128	119
7	186	137	218	104	141	96
8	65	66	91	90	70	67
9	66	72	102	68	80	51
10	224	213	276	148	167	137
11	315	231	361	163	197	131
12	326	231	284	178	174	160
13	151	195	216	138	166	129
14	113	142	145	110	108	105
15	111	111	181	98	104	81
16	88	96	148	87	95	65
17	156	179	244	124	137	87
18	148	195	288	122	143	107
19	168	221	349	151	-	129

ADDENDUM C
Hourly Meteorological Data

Table C-1
HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS		STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	5	23	1200	144	5.00	265.0	25.0	.0	.0	100.0	
76	5	23	1300	144	6.00	240.0	20.0	.0	.0	65.0	
76	5	23	1400	144	6.00	225.0	20.0	.0	.0	60.0	
76	5	23	1500	144	6.00	200.0	15.0	.0	.0	60.0	
76	5	23	1600	144	6.00	230.0	15.0	.0	.0	55.0	
76	5	23	1700	144	4.00	260.0	15.0	.0	.0	125.0	
76	5	23	1800	144	3.00	270.0	25.0	.0	.0	320.0	
76	5	23	1900	144	7.50	315.0	10.0	.0	.0	110.0	
76	5	23	2000	144	17.50	325.0	15.0	.0	.0	30.0	
76	5	23	2100	144	20.00	335.0	10.0	.0	.0	30.0	
76	5	23	2200	144	12.50	335.0	10.0	.0	.0	85.0	
76	5	23	2300	144	5.00	205.0	20.0	.0	.0	315.0	
76	5	24	0	145	7.50	190.0	10.0	.0	.0	260.0	
76	5	24	100	145	5.00	195.0	15.0	.0	.0	270.0	
76	5	24	200	145	4.00	90.0	15.0	.0	.0	360.0	
76	5	24	300	145	3.00	80.0	5.0	.0	.0	105.0	
76	5	24	400	145	7.50	90.0	10.0	.0	.0	130.0	
76	5	24	500	145	6.00	45.0	10.0	.0	.0	300.0	
76	5	24	600	145	3.00	45.0	25.0	.0	.0	130.0	
76	5	24	700	145	2.00	15.0	10.0	.0	.0	135.0	
76	5	24	800	145	3.00	325.0	15.0	.0	.0	120.0	
76	5	24	900	145	4.00	280.0	20.0	.0	.0	195.0	
76	5	24	1000	145	5.00	260.0	20.0	.0	.0	80.0	
76	5	24	1100	145	6.00	255.0	15.0	.0	.0	45.0	
76	5	24	1200	145	5.00	235.0	20.0	.0	.0	100.0	
76	5	24	1300	145	5.00	250.0	25.0	.0	.0	95.0	
76	5	24	1400	145	8.00	275.0	10.0	.0	.0	80.0	
76	5	24	1500	145	25.00	340.0	15.0	.0	.0	65.0	
76	5	24	1600	145	17.50	350.0	10.0	.0	.0	40.0	
76	5	24	1700	145	7.50	345.0	19.0	.0	.0	80.0	
76	5	24	1800	145	15.00	330.0	15.0	.0	.0	65.0	
76	5	24	1900	145	15.00	350.0	10.0	.0	.0	40.0	
76	5	24	2000	145	10.00	320.0	15.0	.0	.0	90.0	
76	5	24	2100	145	5.00	315.0	20.0	.0	.0	115.0	
76	5	24	2200	145	5.00	225.0	25.0	.0	.0	360.0	
75	5	24	2300	145	3.00	180.0	20.0	.0	.0	320.0	
76	5	25	0	146	4.00	350.0	25.0	.0	.0	360.0	
76	5	23	100	146	4.00	320.0	20.0	.0	.0	300.0	
76	5	25	200	146	4.00	115.0	20.0	.0	.0	330.0	
76	5	25	300	146	5.00	75.0	15.0	.0	.0	95.0	
76	5	25	400	146	4.00	55.0	15.0	.0	.0	130.0	
76	5	25	500	146	3.00	30.0	10.0	.0	.0	200.0	
76	5	25	600	146	3.00	50.0	10.0	.0	.0	160.0	
76	5	25	700	146	2.00	90.0	20.0	.0	.0	180.0	
76	5	25	800	146	3.00	345.0	25.0	.0	.0	185.0	
76	5	25	900	146	4.00	270.0	20.0	.0	.0	180.0	
76	5	25	1000	146	5.00	275.0	20.0	.0	.0	90.0	
76	5	25	1100	146	8.00	225.0	15.0	.0	.0	155.0	
76	5	25	1200	146	17.50	345.0	15.0	.0	.0	75.0	
76	5	25	1300	146	99.40	99.40	.0	.0	.0	.0	
76	5	25	1400	146	22.00	320.0	10.0	.0	.0	40.0	
76	5	25	1500	146	21.00	345.0	10.0	.0	.0	35.0	
76	5	25	1600	146	22.00	345.0	10.0	.0	.0	450.0	
76	5	25	1700	146	19.00	340.0	10.0	.0	.0	40.0	

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27							H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK		
76	5	25	1800	146	17.50	345.0	10.0	.0	.0	45.0		
76	5	25	1900	146	16.00	345.0	10.0	.0	.0	45.0		
76	5	25	2000	146	8.00	320.0	70.0	.0	.0	80.0		
76	5	25	2100	146	7.00	265.0	10.0	.0	.0	30.0		
76	5	25	2200	146	5.00	350.0	265.0			160.0		
76	5	25	2300	146	3.00	35.0	60.0			95.0		
76	5	26	00	147	3.00	225.0	315.0			320.0		
76	5	26	100	147	5.00	15.0	50.0			50.0		
76	5	26	200	147	6.50	20.0	20.0			65.0		
76	5	26	300	147	7.00	30.0	170.0			185.0		
76	5	26	400	147	4.00	75.0	170.0			195.0		
76	5	25	500	147	3.00	85.0	160.0			165.0		
76	5	26	600	147	2.50	30.0	150.0			180.0		
76	5	25	700	147	2.00	55.0	120.0			125.0		
76	5	26	800	147	77.70	777.7	777.7			777.7		
76	5	26	900	147	6.00	225.0	35.0			105.0		
76	5	26	1000	147	6.00	225.0	20.0			60.0		
76	5	26	1100	147	6.00	240.0	15.0			65.0		
75	5	26	1200	147	7.00	245.0	40.0			110.0		
75	5	25	1300	147	7.00	240.0	15.0			70.0		
75	5	25	1400	147	7.00	240.0	15.0			75.0		
76	5	26	1500	147	8.00	250.0	25.0			90.0		
76	5	26	1600	147	7.00	315.0	95.0			140.0		
76	5	26	1700	147	7.50	335.0	60.0			130.0		
76	5	26	1800	147	6.00	325.0	15.0			55.0		
76	5	26	1900	147	7.00	315.0	40.0			55.0		
76	5	26	2000	147	7.50	305.0	30.0			35.0		
76	5	26	2100	147	5.00	290.0	50.0			70.0		
76	5	26	2200	147	2.00	9.9.9	999.9			999.9		
76	5	26	2300	147	6.00	999.9	999.9			999.9		
76	5	27	0	148	4.00	999.9	999.9			999.9		
76	5	27	100	148	2.50	65.0	105.0			160.0		
76	5	27	200	148	2.50	120.0	45.0			135.0		
76	5	27	300	148	3.00	45.0	80.0			135.0		
76	5	27	400	148	2.50	80.0	115.0			120.0		
76	5	27	500	148	3.00	30.0	30.0			50.0		
76	5	27	600	148	4.00	65.0	105.0			105.0		
76	5	27	700	148	4.00	65.0	25.0			160.0		
76	5	27	800	148	4.00	50.0	15.0			115.0		
76	5	27	900	148	5.00	210.0	200.0			315.0		
76	5	27	1000	148	6.00	250.0	25.0			60.0		
76	5	27	1100	148	7.00	235.0	15.0			50.0		
76	5	27	1200	148	6.00	230.0	15.0			60.0		
76	5	27	1300	148	6.50	220.0	15.0			65.0		
76	5	27	1400	148	7.00	220.0	15.0			45.0		
76	5	27	1500	148	4.00	175.0	200.0			360.0		
76	5	27	1600	148	6.00	135.0	145.0			205.0		
76	5	27	1700	148	9.00	170.0	80.0			230.0		
76	5	27	1800	148	6.50	165.0	70.0			205.0		
76	5	27	1900	148	7.00	145.0	75.0			175.0		
76	5	27	2000	148	6.00	25.0	20.0			35.0		
76	5	27	2100	148	4.50	85.0	10.0			40.0		
76	5	27	2200	148								

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	5	28	0	149	2.50	60.0	120.0	.0	.0	175.0
76	5	28	100	149	5.00	85.0	105.0	.0	.0	130.0
76	5	28	200	149	5.00	145.0	145.0	.0	.0	310.0
76	5	28	300	149	3.00	130.0	295.0	.0	.0	320.0
76	5	28	400	149	3.50	30.0	25.0	.0	.0	270.0
76	5	28	500	149	3.50	70.0	80.0	.0	.0	95.0
75	5	28	600	149	3.00	315.0	295.0	.0	.0	335.0
76	5	28	700	149	2.50	45.0	315.0	.0	.0	360.0
76	5	28	800	149	2.00	95.0	215.0	.0	.0	310.0
76	5	28	900	149	7.00	95.0	30.0	.0	.0	80.0
76	5	29	1000	149	9.00	120.0	60.0	.0	.0	80.0
76	5	29	1100	149	11.50	165.0	30.0	.0	.0	70.0
76	5	29	1200	149	10.00	195.0	15.0	.0	.0	55.0
76	5	29	1300	149	11.00	240.0	10.0	.0	.0	45.0
76	5	29	1400	149	11.00	190.0	10.0	.0	.0	45.0
76	5	29	1500	149	11.00	190.0	10.0	.0	.0	45.0
76	5	29	1600	149	12.50	195.0	20.0	.0	.0	60.0
76	5	29	1700	149	11.00	200.0	105.0	.0	.0	120.0
75	5	28	1800	149	11.00	335.0	60.0	.0	.0	100.0
75	5	28	1900	149	14.00	335.0	20.0	.0	.0	45.0
76	5	28	2000	149	25.00	335.0	25.0	.0	.0	45.0
76	5	28	2100	149	17.50	325.0	25.0	.0	.0	55.0
76	5	28	2200	149	19.00	320.0	10.0	.0	.0	45.0
76	5	28	2300	149	22.00	345.0	20.0	.0	.0	40.0
76	5	29	0	150	12.00	330.0	60.0	.0	.0	100.0
76	5	29	100	150	12.00	330.0	30.0	.0	.0	65.0
76	5	29	200	150	0.00	55.0	105.0	.0	.0	150.0
76	5	29	300	150	6.00	220.0	260.0	.0	.0	280.0
76	5	29	400	150	5.00	350.0	65.0	.0	.0	115.0
76	5	29	500	150	3.00	35.0	150.0	.0	.0	225.0
76	5	29	600	150	3.00	315.0	55.0	.0	.0	160.0
76	5	29	700	150	3.00	105.0	210.0	.0	.0	140.0
76	5	29	800	150	3.50	195.0	125.0	.0	.0	185.0
76	5	29	900	150	4.00	235.0	40.0	.0	.0	140.0
76	5	29	1000	150	5.50	240.0	10.0	.0	.0	65.0
76	5	29	1100	150	5.00	230.0	45.0	.0	.0	115.0
76	5	29	1200	150	7.00	265.0	255.0	.0	.0	335.0
76	5	29	1300	150	8.50	315.0	120.0	.0	.0	175.0
76	5	29	1400	150	8.50	320.0	65.0	.0	.0	150.0
76	5	29	1500	150	10.00	320.0	80.0	.0	.0	95.0
76	5	29	1600	150	8.00	330.0	60.0	.0	.0	95.0
76	5	29	1700	150	5.00	220.0	360.0	.0	.0	360.0
76	5	29	1800	150	7.50	115.0	35.0	.0	.0	60.0
76	5	29	1900	150	10.00	165.0	130.0	.0	.0	150.0
76	5	29	2000	150	10.00	130.0	120.0	.0	.0	145.0
76	5	29	2100	150	11.50	215.0	15.0	.0	.0	40.0
76	5	29	2200	150	15.00	200.0	25.0	.0	.0	50.0
76	5	29	2300	150	12.00	160.0	35.0	.0	.0	60.0
76	5	30	0	151	4.50	80.0	105.0	.0	.0	125.0
76	5	30	100	151	3.00	65.0	150.0	.0	.0	170.0
76	5	30	200	151	3.50	50.0	65.0	.0	.0	70.0
76	5	30	300	151	3.00	85.0	100.0	.0	.0	125.0
76	5	30	400	151	2.50	30.0	110.0	.0	.0	140.0
76	5	30	500	151	2.50	45.0	190.0	.0	.0	230.0

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS		STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC		DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK

76	5	30	600	151	3.50	110.0	45.0	.0	.0	55.0
76	5	30	700	151	4.50	115.0	130.0	.0	.0	160.0
76	5	30	800	151	3.50	180.0	275.0	.0	.0	295.0
76	5	30	900	151	4.50	230.0	70.0	.0	.0	120.0
76	5	30	1000	151	5.00	230.0	35.0	.0	.0	70.0
76	5	30	1100	151	7.00	220.0	15.0	.0	.0	45.0
76	5	30	1200	151	7.50	225.0	25.0	.0	.0	40.0
76	5	30	1300	151	7.00	250.0	20.0	.0	.0	55.0
76	5	30	1400	151	6.50	220.0	25.0	.0	.0	50.0
76	5	30	1500	151	6.00	230.0	60.0	.0	.0	110.0
76	5	30	1600	151	8.50	215.0	25.0	.0	.0	50.0
76	5	30	1700	151	6.50	255.0	150.0	.0	.0	170.0
76	5	30	1800	151	5.00	240.0	80.0	.0	.0	100.0
76	5	30	1900	151	7.00	210.0	300.0	.0	.0	310.0
76	5	30	2000	151	5.50	65.0	65.0	.0	.0	85.0
76	5	30	2100	151	4.50	85.0	75.0	.0	.0	95.0
76	5	30	2200	151	4.50	20.0	180.0	.0	.0	205.0
76	5	30	2300	151	3.00	65.0	155.0	.0	.0	220.0
76	5	31	0	152	3.50	65.0	115.0	.0	.0	135.0
76	5	31	100	152	3.00	75.0	110.0	.0	.0	125.0
76	5	31	200	152	3.00	75.0	85.0	.0	.0	125.0
76	5	31	300	152	4.00	85.0	140.0	.0	.0	165.0
76	5	31	400	152	3.00	25.0	160.0	.0	.0	250.0
76	5	31	500	152	3.50	65.0	155.0	.0	.0	325.0
76	5	31	600	152	4.00	35.0	160.0	.0	.0	205.0
76	5	31	700	152	3.50	5.0	185.0	.0	.0	230.0
76	5	31	800	152	3.00	40.0	315.0	.0	.0	350.0
76	5	31	900	152	4.50	155.0	145.0	.0	.0	190.0
76	5	31	1000	152	6.50	165.0	150.0	.0	.0	260.0
76	5	31	1100	152	6.00	165.0	65.0	.0	.0	125.0
76	5	31	1200	152	9.00	165.0	55.0	.0	.0	95.0
76	5	31	1300	152	12.50	165.0	45.0	.0	.0	95.0
76	5	31	1400	152	15.50	175.0	45.0	.0	.0	75.0
76	5	31	1500	152	10.50	195.0	25.0	.0	.0	45.0
76	5	31	1600	152	11.50	165.0	25.0	.0	.0	50.0
76	5	31	1700	152	8.50	250.0	200.0	.0	.0	225.0
76	5	31	1800	152	7.50	325.0	115.0	.0	.0	130.0
76	5	31	1900	152	6.50	335.0	80.0	.0	.0	100.0
76	5	31	2000	152	4.00	300.0	315.0	.0	.0	350.0
76	5	31	2100	152	4.00	190.0	360.0	.0	.0	360.0
76	5	31	2200	152	3.00	65.0	235.0	.0	.0	285.0
76	5	31	2300	152	2.50	90.0	175.0	.0	.0	240.0
76	6	1	0	153	3.50	120.0	300.0	.0	.0	335.0
76	6	1	100	153	3.50	100.0	210.0	.0	.0	255.0
76	6	1	200	153	4.00	65.0	135.0	.0	.0	170.0
76	6	1	300	153	3.50	60.0	200.0	.0	.0	250.0
76	6	1	400	153	3.00	45.0	360.0	.0	.0	350.0
76	6	1	500	153	2.50	45.0	300.0	.0	.0	360.0
76	6	1	600	153	3.50	75.0	360.0	.0	.0	360.0
76	6	1	700	153	3.00	350.0	160.0	.0	.0	175.0
76	6	1	800	153	2.50	170.0	255.0	.0	.0	275.0
76	6	1	900	153	4.00	240.0	50.0	.0	.0	70.0
76	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK		
76	6	1	1200	153	6.00	170.0	195.0	.0	.0	283.0		
76	6	1	1300	153	6.50	180.0	55.0	.0	.0	110.0		
76	6	1	1400	153	8.00	175.0	115.0	.0	.0	155.0		
76	6	1	1500	153	8.00	185.0	80.0	.0	.0	115.0		
76	6	1	1600	153	9.00	165.0	55.0	.0	.0	105.0		
76	6	1	1700	153	6.00	175.0	90.0	.0	.0	175.0		
76	6	1	1800	153	4.50	190.0	110.0	.0	.0	150.0		
76	6	1	1900	153	5.50	165.0	40.0	.0	.0	95.0		
76	6	1	2000	153	6.50	305.0	105.0	.0	.0	165.0		
76	6	1	2100	153	4.50	45.0	225.0	.0	.0	235.0		
76	6	1	2200	153	3.00	285.0	360.0	.0	.0	360.0		
76	6	1	2300	153	3.00	175.0	235.0	.0	.0	315.0		
76	6	2	0	154	4.50	150.0	360.0	.0	.0	360.0		
76	6	2	100	154	4.00	50.0	305.0	.0	.0	330.0		
76	6	2	200	154	3.00	60.0	100.0	.0	.0	150.0		
76	6	2	300	154	3.00	40.0	135.0	.0	.0	190.0		
76	6	2	400	154	3.00	35.0	130.0	.0	.0	205.0		
76	6	2	500	154	3.50	50.0	100.0	.0	.0	110.0		
76	6	2	600	154	3.00	90.0	360.0	.0	.0	360.0		
76	6	2	700	154	3.50	70.0	205.0	.0	.0	225.0		
76	6	2	800	154	2.50	75.0	120.0	.0	.0	270.0		
76	6	2	900	154	2.50	180.0	355.0	.0	.0	350.0		
76	6	2	1000	154	7.00	185.0	150.0	.0	.0	200.0		
76	6	2	1100	154	8.00	170.0	30.0	.0	.0	85.0		
76	6	2	1200	154	8.00	155.0	40.0	.0	.0	90.0		
76	6	2	1300	154	10.00	160.0	60.0	.0	.0	95.0		
76	6	2	1400	154	7.50	195.0	55.0	.0	.0	85.0		
76	6	2	1500	154	7.00	200.0	35.0	.0	.0	80.0		
76	6	2	1600	154	5.00	215.0	50.0	.0	.0	100.0		
76	6	2	1700	154	6.00	220.0	40.0	.0	.0	65.0		
76	6	2	1800	154	6.00	210.0	40.0	.0	.0	60.0		
76	6	2	1900	154	6.00	235.0	45.0	.0	.0	75.0		
76	6	2	2000	154	6.50	190.0	20.0	.0	.0	50.0		
76	6	2	2100	154	6.50	140.0	100.0	.0	.0	105.0		
76	6	2	2200	154	6.50	105.0	15.0	.0	.0	40.0		
76	6	2	2300	154	6.50	115.0	110.0	.0	.0	175.0		
76	6	3	0	155	4.50	100.0	70.0	.0	.0	260.0		
76	6	3	100	155	4.00	90.0	35.0	.0	.0	115.0		
76	6	3	200	155	3.50	350.0	230.0	.0	.0	245.0		
76	6	3	300	155	4.50	170.0	130.0	.0	.0	160.0		
76	6	3	400	155	5.00	65.0	145.0	.0	.0	150.0		
76	6	3	500	155	2.50	130.0	160.0	.0	.0	230.0		
76	6	3	600	155	3.00	70.0	190.0	.0	.0	205.0		
76	6	3	700	155	2.50	60.0	230.0	.0	.0	225.0		
76	6	3	800	155	4.00	165.0	90.0	.0	.0	125.0		
76	6	3	900	155	6.50	185.0	25.0	.0	.0	45.0		
76	6	3	1000	155	6.00	185.0	85.0	.0	.0	125.0		
76	6	3	1100	155	9.00	170.0	50.0	.0	.0	100.0		
76	6	3	1200	155	11.50	195.0	20.0	.0	.0	45.0		
76	6	3	1300	155	10.50	195.0	15.0	.0	.0	40.0		
76	6	3	1400	155	13.00	150.0	10.0	.0	.0	35.0		
76	6	3	1500	155	12.00	185.0	30.0	.0	.0	55.0		
76	6	3	1600	155	10.00	165.0	35.0	.0	.0	80.0		
76	6	3	1700	155	10.50	195.0	20.0	.0	.0	35.0		

Table C-1 (Continued)
HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK		
76	6	3	1800	155	12.50	205.0	20.0	.0	.0	40.0		
76	6	3	1900	155	11.50	210.0	30.0	.0	.0	40.0		
76	6	3	2000	155	9.50	195.0	35.0	.0	.0	50.0		
76	6	3	2100	155	9.00	150.0	55.0	.0	.0	65.0		
76	6	3	2200	155	11.00	145.0	40.0	.0	.0	55.0		
76	6	3	2300	155	11.50	110.0	45.0	.0	.0	75.0		
76	6	4	0	156	6.00	145.0	65.0	.0	.0	80.0		
76	6	4	100	156	7.00	130.0	85.0	.0	.0	110.0		
76	6	4	200	156	7.50	135.0	60.0	.0	.0	90.0		
75	6	4	300	156	10.50	155.0	10.0	.0	.0	30.0		
76	6	4	400	156	5.00	70.0	360.0	.0	.0	360.0		
76	6	4	500	156	2.50	45.0	360.0	.0	.0	360.0		
76	6	4	600	156	3.50	55.0	195.0	.0	.0	360.0		
75	6	4	700	156	4.00	105.0	65.0	.0	.0	90.0		
76	6	4	800	156	5.50	160.0	85.0	.0	.0	115.0		
76	6	4	900	156	6.00	145.0	130.0	.0	.0	165.0		
76	6	4	1000	156	6.50	160.0	360.0	.0	.0	360.0		
76	6	4	1100	156	7.50	165.0	50.0	.0	.0	90.0		
75	6	4	1200	156	7.50	180.0	60.0	.0	.0	120.0		
76	6	4	1300	156	7.00	205.0	45.0	.0	.0	85.0		
76	6	4	1400	156	6.00	195.0	50.0	.0	.0	130.0		
76	6	4	1500	156	6.50	215.0	20.0	.0	.0	165.0		
76	6	4	1600	156	5.00	220.0	45.0	.0	.0	140.0		
76	6	4	1700	156	4.50	200.0	105.0	.0	.0	210.0		
76	6	4	1800	156	5.50	195.0	215.0	.0	.0	270.0		
76	6	4	1900	156	8.50	200.0	195.0	.0	.0	220.0		
75	6	4	2000	156	6.00	105.0	35.0	.0	.0	90.0		
76	6	4	2100	156	4.50	140.0	115.0	.0	.0	185.0		
76	6	4	2200	156	7.00	125.0	45.0	.0	.0	70.0		
76	6	4	2300	156	7.00	120.0	30.0	.0	.0	55.0		
76	6	5	0	157	5.00	105.0	180.0	.0	.0	245.0		
76	6	5	100	157	7.50	140.0	35.0	.0	.0	100.0		
76	6	5	200	157	3.50	125.0	45.0	.0	.0	110.0		
76	6	5	300	157	4.00	120.0	100.0	.0	.0	160.0		
76	6	5	400	157	3.00	45.0	200.0	.0	.0	335.0		
76	6	5	500	157	4.00	80.0	70.0	.0	.0	100.0		
76	6	5	600	157	3.00	45.0	360.0	.0	.0	360.0		
76	6	5	700	157	2.50	65.0	60.0	.0	.0	160.0		
76	6	5	800	157	2.00	80.0	360.0	.0	.0	360.0		
76	6	5	900	157	4.00	215.0	210.0	.0	.0	305.0		
76	6	5	1000	157	6.00	265.0	15.0	.0	.0	70.0		
76	6	5	1100	157	5.00	240.0	45.0	.0	.0	110.0		
76	6	5	1200	157	4.00	230.0	45.0	.0	.0	220.0		
76	6	5	1300	157	5.50	215.0	15.0	.0	.0	95.0		
76	6	5	1400	157	6.50	200.0	80.0	.0	.0	280.0		
75	6	5	1500	157	6.50	195.0	140.0	.0	.0	230.0		
76	6	5	1600	157	6.00	215.0	105.0	.0	.0	260.0		
76	6	5	1700	157	6.00	260.0	105.0	.0	.0	165.0		
76	6	5	1800	157	6.50	325.0	350.0	.0	.0	360.0		
76	6	5	1900	157	6.50	325.0	30.0	.0	.0	110.0		
76	6	5	2000	157	6.50	325.0	25.0	.0	.0	45.0		
76	6	5	2100	157	4.00	320.0	140.0	.0	.0	220.0		
76	6	5	2200	157	0	0	0	.0	.0	0		

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 21/06/76		PAGE
YEAR	MONTH	DAY	HCUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	6	8	600	160	3.50	90.0	360.0	.0	.0	360.0		
76	6	8	700	160	3.00	110.0	165.0	.0	.0	210.0		
76	6	8	800	160	3.50	90.0	210.0	.0	.0	255.0		
76	6	8	900	160	6.00	205.0	55.0	.0	.0	110.0		
76	6	8	1000	160	7.50	185.0	50.0	.0	.0	165.0		
76	6	8	1100	160	7.50	195.0	60.0	.0	.0	110.0		
76	6	8	1200	160	6.00	210.0	330.0	.0	.0	360.0		
76	6	8	1300	160	6.00	215.0	180.0	.0	.0	305.0		
76	6	8	1400	160	10.50	205.0	90.0	.0	.0	230.0		
76	6	8	1500	160	7.50	210.0	30.0	.0	.0	65.0		
76	6	8	1500	160	8.00	245.0	25.0	.0	.0	90.0		
76	6	8	1700	160	13.00	240.0	30.0	.0	.0	75.0		
76	6	8	1800	160	11.00	235.0	20.0	.0	.0	55.0		
76	6	8	1900	160	4.50	170.0	190.0	.0	.0	315.0		
76	6	8	2000	160	4.00	120.0	130.0	.0	.0	265.0		
76	6	8	2100	160	6.50	125.0	50.0	.0	.0	90.0		
76	6	8	2200	160	5.50	105.0	70.0	.0	.0	170.0		
76	6	8	2300	160	3.50	80.0	60.0	.0	.0	170.0		
76	6	9	0	161	5.50	140.0	120.0	.0	.0	170.0		
76	6	9	100	161	7.00	125.0	45.0	.0	.0	100.0		
75	6	9	200	161	4.00	90.0	140.0	.0	.0	155.0		
76	6	9	300	161	3.00	120.0	140.0	.0	.0	190.0		
76	6	9	400	161	4.50	80.0	105.0	.0	.0	185.0		
76	6	9	500	161	4.50	95.0	70.0	.0	.0	145.0		
76	6	9	600	161	5.00	150.0	55.0	.0	.0	120.0		
76	6	9	700	161	5.00	150.0	65.0	.0	.0	105.0		
76	6	9	800	161	6.50	125.0	20.0	.0	.0	60.0		
76	6	9	900	161	6.00	190.0	25.0	.0	.0	90.0		
76	6	9	1000	161	9.00	215.0	65.0	.0	.0	140.0		
76	6	9	1100	161	7.50	190.0	70.0	.0	.0	175.0		
76	6	9	1200	161	9.50	215.0	15.0	.0	.0	60.0		
76	6	9	1300	161	7.50	170.0	360.0	.0	.0	360.0		
76	6	9	1400	161	6.50	160.0	360.0	.0	.0	360.0		
76	6	9	1500	161	6.50	195.0	60.0	.0	.0	160.0		
76	6	9	1600	161	7.50	205.0	50.0	.0	.0	125.0		
76	6	9	1700	161	7.00	195.0	30.0	.0	.0	90.0		
76	6	9	1500	161	6.50	155.0	55.0	.0	.0	110.0		
76	6	9	1900	161	8.00	220.0	35.0	.0	.0	75.0		
76	6	9	2000	161	6.00	215.0	50.0	.0	.0	80.0		
76	6	9	2100	161	6.50	140.0	95.0	.0	.0	155.0		
76	6	9	2200	161	14.00	105.0	20.0	.0	.0	50.0		
76	6	9	2300	161	13.50	105.0	15.0	.0	.0	25.0		
76	6	10	0	162	6.00	125.0	360.0	.0	.0	360.0		
76	6	10	100	162	3.00	155.0	360.0	.0	.0	360.0		
76	6	10	200	162	4.00	105.0	130.0	.0	.0	225.0		
76	6	10	300	162	3.50	160.0	125.0	.0	.0	205.0		
76	6	10	400	162	4.00	75.0	60.0	.0	.0	155.0		
76	6	10	500	162	4.50	85.0	35.0	.0	.0	80.0		
76	6	10	600	162	2.50	65.0	145.0	.0	.0	205.0		
76	6	10	700	162	3.50	35.0	195.0	.0	.0	260.0		
76	6	10	800	162	3.00	55.0	275.0	.0	.0	360.0		
76	6	10	900	162	10.00	205.0	205.0	.0	.0	260.0		
76	6	10	1000	162	13.00	210.0	50.0	.0	.0	150.0		
76	6	10	1100	162	12.50	220.0	60.0	.0	.0	180.0		

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	6	6	0	158	4.50	100.0	110.0	.0	.0	140.0
76	6	6	100	158	6.00	125.0	95.0	.0	.0	140.0
76	6	6	200	158	3.50	35.0	140.0	.0	.0	165.0
76	6	6	300	158	4.00	50.0	140.0	.0	.0	170.0
76	6	6	400	158	3.00	70.0	70.0	.0	.0	95.0
76	6	6	500	158	3.50	50.0	50.0	.0	.0	80.0
76	6	6	600	158	4.00	30.0	75.0	.0	.0	100.0
76	6	6	700	158	2.50	50.0	145.0	.0	.0	185.0
76	6	6	800	158	3.50	45.0	65.0	.0	.0	90.0
76	6	6	900	158	3.50	999.9	999.9	.0	.0	999.9
76	6	6	1000	158	4.50	999.9	999.9	.0	.0	999.9
76	6	6	1100	158	5.00	999.9	999.9	.0	.0	999.9
76	6	6	1200	158	6.00	999.9	999.9	.0	.0	999.9
76	6	6	1300	158	5.50	999.9	999.9	.0	.0	999.9
76	6	6	1400	158	5.00	999.9	999.9	.0	.0	999.9
76	6	6	1500	158	5.50	999.9	999.9	.0	.0	999.9
76	6	6	1600	158	4.00	999.9	999.9	.0	.0	999.9
76	6	6	1700	158	5.50	999.9	999.9	.0	.0	999.9
76	6	6	1800	158	4.00	999.9	999.9	.0	.0	999.9
76	6	6	1900	158	4.00	999.9	999.9	.0	.0	999.9
76	6	6	2000	158	2.50	999.9	999.9	.0	.0	999.9
76	6	6	2100	158	3.00	999.9	999.9	.0	.0	999.9
76	6	6	2200	158	4.00	999.9	999.9	.0	.0	999.9
76	6	6	2300	158	3.00	999.9	999.9	.0	.0	999.9
76	6	7	0	159	2.50	999.9	999.9	.0	.0	999.9
76	6	7	100	159	3.50	999.9	999.9	.0	.0	999.9
76	6	7	200	159	3.00	999.9	999.9	.0	.0	999.9
76	6	7	300	159	4.00	999.9	999.9	.0	.0	999.9
76	6	7	400	159	3.50	999.9	999.9	.0	.0	999.9
76	6	7	500	159	3.50	999.9	999.9	.0	.0	999.9
76	6	7	600	159	3.00	999.9	999.9	.0	.0	999.9
76	6	7	700	159	3.50	999.9	999.9	.0	.0	999.9
76	6	7	800	159	4.00	999.9	999.9	.0	.0	999.9
76	6	7	900	159	3.00	999.9	999.9	.0	.0	999.9
76	6	7	1000	159	7.50	999.9	999.9	.0	.0	999.9
76	6	7	1100	159	8.00	999.9	999.9	.0	.0	999.9
76	6	7	1200	159	5.50	999.9	999.9	.0	.0	999.9
76	6	7	1300	159	10.00	160.0	25.0	.0	.0	95.0
76	6	7	1400	159	8.50	170.0	35.0	.0	.0	140.0
76	6	7	1500	159	8.00	160.0	150.0	.0	.0	230.0
76	6	7	1600	159	6.00	210.0	65.0	.0	.0	140.0
76	6	7	1700	159	9.00	170.0	65.0	.0	.0	155.0
76	6	7	1800	159	9.00	175.0	20.0	.0	.0	80.0
76	6	7	1900	159	7.50	185.0	45.0	.0	.0	70.0
76	6	7	2000	159	7.00	210.0	175.0	.0	.0	210.0
76	6	7	2100	159	6.50	100.0	25.0	.0	.0	55.0
76	6	7	2200	159	6.50	100.0	55.0	.0	.0	85.0
76	6	7	2300	159	6.00	195.0	25.0	.0	.0	70.0
76	6	8	0	160	4.00	100.0	235.0	.0	.0	305.0
76	6	8	100	160	4.00	45.0	250.0	.0	.0	340.0
76	6	8	200	160	3.50	45.0	75.0	.0	.0	110.0
76	6	8	300	160	4.50	75.0	145.0	.0	.0	190.0
76	5	-	00	160	.00	.00	.00	.0	.0	0
76	5	-	00	160	.50	.00	.00	.0	.0	0

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS		STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC		DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	6	10	1200	162	16.00	170.0	75.0	.0	.0	150.0
76	6	10	1300	162	28.00	170.0	20.0	.0	.0	85.0
76	6	10	1400	162	29.00	195.0	115.0	.0	.0	150.0
76	6	10	1500	162	30.00	250.0	20.0	.0	.0	45.0
76	6	10	1600	162	16.00	255.0	35.0	.0	.0	175.0
76	6	10	1700	162	12.00	160.0	210.0	.0	.0	225.0
76	6	10	1800	162	8.00	35.0	150.0	.0	.0	225.0
76	6	10	1900	162	7.50	105.0	20.0	.0	.0	125.0
76	6	10	2000	162	8.50	150.0	60.0	.0	.0	95.0
76	6	10	2100	162	8.50	140.0	45.0	.0	.0	80.0
76	6	10	2200	162	11.00	120.0	25.0	.0	.0	50.0
76	6	10	2300	162	14.50	110.0	20.0	.0	.0	50.0
76	6	11	0	163	8.50	125.0	30.0	.0	.0	60.0
76	6	11	100	163	8.50	135.0	45.0	.0	.0	115.0
76	6	11	200	163	9.00	145.0	50.0	.0	.0	90.0
76	6	11	300	163	11.00	165.0	60.0	.0	.0	190.0
76	6	11	400	163	7.50	320.0	250.0	.0	.0	295.0
76	6	11	500	163	14.00	300.0	170.0	.0	.0	205.0
76	6	11	600	163	3.50	35.0	145.0	.0	.0	180.0
76	6	11	700	163	3.50	85.0	165.0	.0	.0	250.0
76	6	11	800	163	6.00	110.0	50.0	.0	.0	70.0
76	6	11	900	163	5.50	105.0	60.0	.0	.0	110.0
76	6	11	1000	163	7.00	165.0	50.0	.0	.0	155.0
76	6	11	1100	163	17.50	165.0	75.0	.0	.0	145.0
76	6	11	1200	163	19.00	220.0	165.0	.0	.0	215.0
76	6	11	1300	163	13.00	55.0	95.0	.0	.0	125.0
76	6	11	1400	163	8.50	295.0	340.0	.0	.0	360.0
76	6	11	1500	163	8.00	45.0	155.0	.0	.0	235.0
76	6	11	1600	163	11.00	340.0	15.0	.0	.0	50.0
76	6	11	1700	163	5.50	330.0	40.0	.0	.0	70.0
76	6	11	1800	163	4.00	295.0	45.0	.0	.0	85.0
76	6	11	1900	163	2.50	325.0	235.0	.0	.0	270.0
76	6	11	2000	163	5.50	120.0	65.0	.0	.0	110.0
76	6	11	2100	163	5.00	110.0	95.0	.0	.0	120.0
76	6	11	2200	163	4.50	115.0	90.0	.0	.0	125.0
76	6	11	2300	163	4.00	115.0	100.0	.0	.0	150.0
76	6	12	0	164	4.50	140.0	105.0	.0	.0	125.0
76	6	12	100	164	3.00	55.0	140.0	.0	.0	190.0
76	6	12	200	164	2.50	75.0	55.0	.0	.0	80.0
76	6	12	300	164	3.50	60.0	25.0	.0	.0	75.0
76	6	12	400	164	4.00	55.0	65.0	.0	.0	85.0
76	6	12	500	164	3.50	45.0	50.0	.0	.0	70.0
76	6	12	600	164	2.50	35.0	200.0	.0	.0	240.0
76	6	12	700	164	2.00	60.0	65.0	.0	.0	95.0
76	6	12	800	164	3.00	110.0	235.0	.0	.0	285.0
76	6	12	900	164	5.00	220.0	50.0	.0	.0	100.0
76	6	12	1000	164	4.50	220.0	10.0	.0	.0	75.0
76	6	12	1100	164	5.00	220.0	90.0	.0	.0	160.0
76	6	12	1200	164	4.00	200.0	195.0	.0	.0	295.0
76	6	12	1300	164	5.50	275.0	70.0	.0	.0	100.0
76	6	12	1400	164	6.50	345.0	85.0	.0	.0	125.0
76	6	12	1500	164	5.00	135.0	360.0	.0	.0	360.0
76	6	12	1600	164	5.50	250.0	55.0	.0	.0	170.0
76	6	12	1700	164	5.00	260.0	70.0	.0	.0	190.0

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27							H E CRAMER CO INC	DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	6	12	1800	164	4.50	305.0	200.0	.0	.0	280.0
76	6	12	1900	164	5.00	275.0	110.0	.0	.0	150.0
76	6	12	2000	164	3.00	15.0	105.0	.0	.0	125.0
76	6	12	2100	164	2.00	28.0	155.0	.0	.0	230.0
76	6	12	2200	164	3.00	50.0	360.0	.0	.0	360.0
76	6	12	2300	164	5.00	85.0	105.0	.0	.0	140.0
76	6	13	0	165	6.00	130.0	70.0	.0	.0	95.0
75	6	13	100	165	9.50	145.0	115.0	.0	.0	145.0
76	6	13	200	165	5.50	105.0	55.0	.0	.0	85.0
76	6	13	300	165	6.50	110.0	25.0	.0	.0	55.0
76	6	13	400	165	6.50	115.0	25.0	.0	.0	60.0
76	6	13	500	165	5.00	115.0	35.0	.0	.0	75.0
76	6	13	600	165	3.50	170.0	328.0	.0	.0	360.0
76	6	13	700	165	5.00	95.0	75.0	.0	.0	220.0
75	6	13	800	165	6.50	210.0	160.0	.0	.0	190.0
76	6	13	900	165	9.50	325.0	85.0	.0	.0	80.0
76	6	13	1000	165	7.50	330.0	25.0	.0	.0	50.0
76	6	13	1100	165	6.50	340.0	50.0	.0	.0	80.0
76	6	13	1200	165	7.50	265.0	100.0	.0	.0	250.0
76	6	13	1300	165	21.00	340.0	40.0	.0	.0	60.0
76	6	13	1400	165	20.50	340.0	30.0	.0	.0	50.0
75	6	13	1500	165	25.50	335.0	20.0	.0	.0	60.0
76	6	13	1600	165	23.00	335.0	20.0	.0	.0	70.0
76	6	13	1700	165	22.00	335.0	20.0	.0	.0	45.0
76	6	13	1800	165	20.50	340.0	18.0	.0	.0	35.0
76	6	13	1900	165	17.50	345.0	10.0	.0	.0	40.0
76	6	13	2000	165	10.00	345.0	50.0	.0	.0	80.0
76	6	13	2100	165	5.50	295.0	50.0	.0	.0	55.0
76	6	13	2200	165	5.00	340.0	115.0	.0	.0	155.0
76	6	13	2300	165	6.00	310.0	55.0	.0	.0	70.0
76	6	14	0	166	4.00	20.0	160.0	.0	.0	170.0
76	6	14	100	166	3.50	65.0	95.0	.0	.0	125.0
76	6	14	200	166	3.50	55.0	145.0	.0	.0	225.0
76	6	14	300	166	3.50	65.0	130.0	.0	.0	145.0
76	6	14	400	166	2.50	50.0	110.0	.0	.0	155.0
76	6	14	500	166	2.50	55.0	100.0	.0	.0	180.0
76	6	14	600	166	3.00	60.0	150.0	.0	.0	215.0
76	6	14	700	166	2.50	325.0	195.0	.0	.0	230.0
76	6	14	800	166	5.50	160.0	85.0	.0	.0	120.0
75	6	14	900	166	6.50	170.0	80.0	.0	.0	165.0
76	6	14	1000	166	8.00	235.0	45.0	.0	.0	100.0
76	6	14	1100	166	8.50	250.0	35.0	.0	.0	75.0
76	6	14	1200	166	8.50	245.0	60.0	.0	.0	110.0
76	6	14	1300	166	10.50	325.0	75.0	.0	.0	130.0
76	6	14	1400	166	14.50	335.0	40.0	.0	.0	65.0
76	6	14	1500	166	14.00	335.0	30.0	.0	.0	70.0
76	6	14	1600	166	16.50	335.0	30.0	.0	.0	60.0
76	6	14	1700	166	17.50	340.0	10.0	.0	.0	85.0
76	6	14	1800	166	14.50	325.0	20.0	.0	.0	60.0
75	6	14	1900	166	12.00	310.0	25.0	.0	.0	45.0
75	6	14	2000	166	6.50	305.0	10.0	.0	.0	25.0
76	6	14	2100	166	3.50	340.0	95.0	.0	.0	115.0
		14			10	1				13
		14			6.00					80.

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	6	15	0	167	4.00	45.0	40.0	.0	.0	60.0
76	6	15	100	167	3.50	55.0	15.0	.0	.0	35.0
76	6	15	200	167	3.50	30.0	85.0	.0	.0	120.0
76	6	15	300	167	3.50	50.0	40.0	.0	.0	70.0
76	6	15	400	167	3.00	50.0	95.0	.0	.0	125.0
76	6	15	500	167	3.00	45.0	100.0	.0	.0	115.0
76	6	15	600	167	3.00	95.0	35.0	.0	.0	60.0
76	6	15	700	167	2.50	70.0	105.0	.0	.0	125.0
76	6	15	800	167	7.00	150.0	110.0	.0	.0	160.0
76	6	15	900	167	6.00	210.0	35.0	.0	.0	85.0
76	6	15	1000	167	6.50	190.0	140.0	.0	.0	230.0
76	6	15	1100	167	7.00	230.0	15.0	.0	.0	50.0
76	6	15	1200	167	7.50	225.0	20.0	.0	.0	55.0
76	6	15	1300	167	6.00	250.0	55.0	.0	.0	90.0
76	6	15	1400	167	8.00	240.0	45.0	.0	.0	90.0
76	6	15	1500	167	10.00	230.0	60.0	.0	.0	155.0
76	6	15	1600	167	12.00	230.0	40.0	.0	.0	70.0
76	6	15	1700	167	10.50	170.0	125.0	.0	.0	200.0
76	6	15	1800	167	7.00	175.0	80.0	.0	.0	190.0
76	6	15	1900	167	7.00	155.0	155.0	.0	.0	205.0
76	6	15	2000	167	7.50	35.0	340.0	.0	.0	360.0
76	6	15	2100	167	4.00	130.0	140.0	.0	.0	195.0
76	6	15	2200	167	4.00	95.0	190.0	.0	.0	325.0
76	6	15	2300	167	2.50	55.0	215.0	.0	.0	300.0
76	6	16	0	168	2.50	45.0	245.0	.0	.0	360.0
76	6	16	100	168	3.50	75.0	110.0	.0	.0	160.0
76	6	16	200	168	3.50	305.0	265.0	.0	.0	325.0
76	6	16	300	168	3.00	65.0	345.0	.0	.0	360.0
76	6	16	400	168	6.50	120.0	25.0	.0	.0	130.0
76	6	16	500	168	7.00	110.0	25.0	.0	.0	75.0
76	6	16	600	168	6.00	115.0	25.0	.0	.0	95.0
76	6	16	700	168	4.50	135.0	360.0	.0	.0	350.0
76	6	16	800	168	5.50	60.0	200.0	.0	.0	220.0
76	6	16	900	168	11.00	330.0	55.0	.0	.0	80.0
76	6	16	1000	168	13.50	320.0	20.0	.0	.0	40.0
76	6	16	1100	168	15.00	330.0	20.0	.0	.0	45.0
76	6	16	1200	168	10.50	345.0	100.0	.0	.0	155.0
76	6	16	1300	168	12.50	335.0	95.0	.0	.0	150.0
76	6	16	1400	168	7.00	345.0	45.0	.0	.0	80.0
76	6	16	1500	168	7.00	265.0	195.0	.0	.0	245.0
76	6	16	1600	168	13.50	270.0	165.0	.0	.0	235.0
76	6	16	1700	168	18.00	335.0	40.0	.0	.0	55.0
76	6	16	1800	168	14.00	325.0	45.0	.0	.0	80.0
76	6	16	1900	168	14.50	325.0	35.0	.0	.0	70.0
76	6	16	2000	168	13.00	320.0	25.0	.0	.0	50.0
76	6	16	2100	168	11.00	350.0	55.0	.0	.0	75.0
76	6	16	2200	168	3.50	130.0	360.0	.0	.0	360.0
76	6	16	2300	168	4.00	55.0	110.0	.0	.0	135.0
76	6	17	0	169	3.00	20.0	100.0	.0	.0	140.0
76	6	17	100	169	3.00	25.0	120.0	.0	.0	160.0
76	6	17	200	169	3.00	60.0	85.0	.0	.0	125.0
76	6	17	300	169	3.50	70.0	90.0	.0	.0	145.0
76	6	17	400	169	3.50	35.0	70.0	.0	.0	115.0
76	6	17	500	169	3.50	35.0	75.0	.0	.0	120.0

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Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

1

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE	
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	6	17	600	169	3.00	60.0	360.0	.0	.0	360.0	
76	6	17	700	169	2.50	40.0	175.0	.0	.0	205.0	
76	6	17	800	169	3.50	300.0	170.0	.0	.0	230.0	
76	6	17	900	169	6.00	230.0	20.0	.0	.0	65.0	
76	6	17	1000	169	11.00	235.0	35.0	.0	.0	105.0	
76	6	17	1100	169	16.00	255.0	135.0	.0	.0	165.0	
76	6	17	1200	169	12.00	30.0	130.0	.0	.0	175.0	
76	6	17	1300	169	11.50	105.0	180.0	.0	.0	225.0	
76	6	17	1400	169	16.00	195.0	180.0	.0	.0	235.0	
76	6	17	1500	169	16.00	230.0	45.0	.0	.0	70.0	
76	6	17	1600	169	18.00	320.0	130.0	.0	.0	165.0	
76	6	17	1700	169	11.50	265.0	160.0	.0	.0	205.0	
76	6	17	1800	169	15.00	275.0	80.0	.0	.0	160.0	
76	6	17	1900	169	14.00	300.0	45.0	.0	.0	75.0	
76	6	17	2000	169	11.50	310.0	35.0	.0	.0	45.0	
76	6	17	2100	169	8.50	340.0	70.0	.0	.0	105.0	
76	6	17	2200	169	11.00	345.0	105.0	.0	.0	145.0	
76	6	17	2300	169	5.00	75.0	240.0	.0	.0	285.0	
76	6	18	0	170	5.50	100.0	180.0	.0	.0	220.0	
76	6	18	100	170	6.00	85.0	110.0	.0	.0	130.0	
76	6	18	200	170	3.00	75.0	140.0	.0	.0	160.0	
76	6	18	300	170	3.00	105.0	250.0	.0	.0	290.0	
76	6	18	400	170	4.00	80.0	145.0	.0	.0	195.0	
76	6	18	500	170	3.00	60.0	80.0	.0	.0	105.0	
75	6	18	600	170	3.00	65.0	90.0	.0	.0	125.0	
76	6	18	700	170	2.00	155.0	205.0	.0	.0	270.0	
76	6	18	800	170	4.00	260.0	85.0	.0	.0	160.0	
76	6	18	900	170	9.00	245.0	15.0	.0	.0	70.0	
76	6	18	1000	170	11.50	235.0	30.0	.0	.0	75.0	
76	6	18	1100	170	14.00	225.0	15.0	.0	.0	50.0	
76	6	18	1200	170	14.00	220.0	20.0	.0	.0	50.0	
76	6	18	1300	170	13.50	220.0	20.0	.0	.0	65.0	
76	6	18	1400	170	13.00	220.0	25.0	.0	.0	90.0	
75	6	18	1500	170	13.00	240.0	70.0	.0	.0	120.0	
75	6	18	1600	170	7.50	310.0	150.0	.0	.0	185.0	
76	6	18	1700	170	8.00	310.0	145.0	.0	.0	175.0	
76	6	18	1800	170	9.00	325.0	60.0	.0	.0	175.0	
76	6	18	1900	170	8.50	305.0	50.0	.0	.0	60.0	
76	6	18	2000	170	5.00	325.0	55.0	.0	.0	75.0	
76	6	18	2100	170	4.00	325.0	150.0	.0	.0	200.0	
76	6	18	2200	170	4.00	145.0	145.0	.0	.0	170.0	
76	6	18	2300	170	5.00	10.0	360.0	.0	.0	350.0	
76	6	19	0	171	4.00	80.0	185.0	.0	.0	210.0	
76	6	19	100	171	3.50	30.0	170.0	.0	.0	200.0	
76	6	19	200	171	3.00	35.0	65.0	.0	.0	100.0	
76	6	19	300	171	3.00	70.0	70.0	.0	.0	90.0	
76	6	19	400	171	3.00	35.0	75.0	.0	.0	90.0	
76	6	19	500	171	3.50	55.0	105.0	.0	.0	120.0	
76	6	19	600	171	4.00	55.0	60.0	.0	.0	70.0	
76	6	19	700	171	2.00	50.0	120.0	.0	.0	155.0	
76	6	19	800	171	3.50	355.0	130.0	.0	.0	165.0	
76	6	19	900	171	3.50	330.0	230.0	.0	.0	305.0	
		19			2					2	
		19			2					2	

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE	
YEAR	MONTH	DAY	HOUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	6	24	0	176	77.70	777.7	777.7	.0	.0	777.7	
76	6	24	100	176	77.70	777.7	777.7	.0	.0	777.7	
76	6	24	200	176	77.70	777.7	777.7	.0	.0	777.7	
76	6	24	300	176	2.00	70.0	65.0	.0	.0	90.0	
76	6	24	400	176	2.00	50.0	35.0	.0	.0	85.0	
76	6	24	500	176	2.00	50.0	35.0	.0	.0	50.0	
76	6	24	600	176	77.70	777.7	777.7	.0	.0	777.7	
76	6	24	700	176	77.70	777.7	777.7	.0	.0	777.7	
76	6	24	800	176	77.70	777.7	777.7	.0	.0	777.7	
76	6	24	900	176	5.00	225.0	45.0	.0	.0	80.0	
76	6	24	1000	176	6.50	215.0	55.0	.0	.0	85.0	
76	6	24	1100	176	7.00	210.0	25.0	.0	.0	60.0	
76	6	24	1200	176	5.50	220.0	75.0	.0	.0	110.0	
76	6	24	1300	176	6.00	250.0	170.0	.0	.0	235.0	
76	6	24	1400	176	6.00	220.0	50.0	.0	.0	85.0	
76	6	24	1500	176	6.50	230.0	30.0	.0	.0	60.0	
76	6	24	1600	176	6.00	245.0	80.0	.0	.0	145.0	
76	6	24	1700	176	4.50	320.0	360.0	.0	.0	360.0	
76	6	24	1800	176	3.00	35.0	300.0	.0	.0	340.0	
76	6	24	1900	176	2.50	35.0	200.0	.0	.0	265.0	
76	6	24	2000	176	2.00	345.0	245.0	.0	.0	265.0	
76	6	24	2100	176	3.00	65.0	130.0	.0	.0	150.0	
76	6	24	2200	176	3.00	50.0	70.0	.0	.0	85.0	
76	6	24	2300	176	2.50	50.0	115.0	.0	.0	125.0	
76	6	25	0	177	3.00	30.0	190.0	.0	.0	250.0	
76	6	25	100	177	2.50	55.0	95.0	.0	.0	115.0	
76	6	25	200	177	4.00	35.0	55.0	.0	.0	75.0	
76	6	25	300	177	2.50	65.0	80.0	.0	.0	95.0	
76	6	25	400	177	3.00	65.0	100.0	.0	.0	125.0	
76	6	25	500	177	2.50	65.0	140.0	.0	.0	185.0	
76	6	25	600	177	3.00	65.0	85.0	.0	.0	113.0	
76	6	25	700	177	3.00	25.0	85.0	.0	.0	105.0	
76	6	25	800	177	3.00	55.0	205.0	.0	.0	315.0	
76	6	25	900	177	3.00	270.0	190.0	.0	.0	245.0	
76	6	25	1000	177	4.00	315.0	255.0	.0	.0	310.0	
76	6	25	1100	177	4.50	240.0	95.0	.0	.0	140.0	
76	6	25	1200	177	6.50	175.0	65.0	.0	.0	150.0	
76	6	25	1300	177	7.00	25.0	110.0	.0	.0	170.0	
76	6	25	1400	177	5.00	150.0	165.0	.0	.0	235.0	
76	6	25	1500	177	7.00	250.0	115.0	.0	.0	160.0	
76	6	25	1600	177	7.50	280.0	60.0	.0	.0	85.0	
76	6	25	1700	177	10.50	315.0	45.0	.0	.0	80.0	
76	6	25	1800	177	9.00	320.0	115.0	.0	.0	165.0	
76	6	25	1900	177	9.50	335.0	55.0	.0	.0	90.0	
76	6	25	2000	177	7.50	335.0	15.0	.0	.0	55.0	
76	6	25	2100	177	4.00	310.0	140.0	.0	.0	295.0	
76	6	25	2200	177	5.00	355.0	75.0	.0	.0	100.0	
76	6	25	2300	177	20.00	335.0	20.0	.0	.0	35.0	
76	6	26	0	178	24.00	325.0	25.0	.0	.0	35.0	
76	6	26	100	178	22.00	350.0	15.0	.0	.0	35.0	
76	6	26	200	178	20.50	355.0	20.0	.0	.0	40.0	
76	6	26	300	178	13.50	330.0	30.0	.0	.0	55.0	
76	6	26	400	178	9.00	350.0	115.0	.0	.0	145.0	
76	6	26	500	178	9.00	5.0	95.0	.0	.0	165.0	

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(C=1).

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27								H E CRAMER CO INC		DATE 11/06/76	PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	6	26	600	178	12.00	5.0	55.0	.0	.0	80.0	
76	6	26	700	178	11.00	345.0	40.0	.0	.0	55.0	
76	6	26	800	178	4.50	295.0	170.0	.0	.0	240.0	
76	6	25	900	178	5.00	215.0	80.0	.0	.0	270.0	
76	6	26	1000	178	5.50	250.0	105.0	.0	.0	155.0	
76	6	26	1100	178	6.00	280.0	225.0	.0	.0	330.0	
76	6	26	1200	178	7.50	250.0	20.0	.0	.0	70.0	
76	6	26	1300	178	8.50	245.0	35.0	.0	.0	60.0	
76	6	26	1400	178	7.50	235.0	25.0	.0	.0	65.0	
76	6	26	1500	178	7.50	250.0	25.0	.0	.0	55.0	
76	6	26	1600	178	7.50	265.0	25.0	.0	.0	60.0	
76	6	26	1700	178	7.50	200.0	25.0	.0	.0	45.0	
76	6	26	1800	178	8.50	290.0	30.0	.0	.0	55.0	
76	6	26	1900	178	7.50	305.0	15.0	.0	.0	40.0	
76	6	26	2000	178	5.00	310.0	35.0	.0	.0	50.0	
76	6	26	2100	178	2.00	13.0	130.0	.0	.0	145.0	
76	6	26	2200	178	77.70	777.7	777.7	.0	.0	777.7	
76	6	26	2300	178	77.70	777.7	777.7	.0	.0	777.7	
75	6	27	0	179	3.50	10.0	120.0	.0	.0	175.0	
75	6	27	100	179	3.00	95.0	360.0	.0	.0	360.0	
75	6	27	200	179	3.50	65.0	205.0	.0	.0	245.0	
75	6	27	300	179	3.00	75.0	360.0	.0	.0	360.0	
75	6	27	400	179	3.00	65.0	115.0	.0	.0	140.0	
75	6	27	500	179	3.00	50.0	45.0	.0	.0	75.0	
75	6	27	600	179	3.00	50.0	60.0	.0	.0	90.0	
75	6	27	700	179	3.00	50.0	105.0	.0	.0	155.0	
75	6	27	800	179	5.00	105.0	170.0	.0	.0	245.0	
75	6	27	900	179	5.00	210.0	290.0	.0	.0	325.0	
75	6	27	1000	179	6.50	255.0	55.0	.0	.0	90.0	
75	6	27	1100	179	7.00	230.0	20.0	.0	.0	50.0	
75	6	27	1200	179	8.00	250.0	45.0	.0	.0	90.0	
75	6	27	1300	179	6.00	255.0	35.0	.0	.0	65.0	
75	6	27	1400	179	5.50	255.0	45.0	.0	.0	100.0	
75	6	27	1500	179	6.50	265.0	60.0	.0	.0	85.0	
75	6	27	1600	179	8.00	395.0	170.0	.0	.0	185.0	
75	6	27	1700	179	12.00	335.0	60.0	.0	.0	90.0	
75	6	27	1800	179	12.00	340.0	20.0	.0	.0	35.0	
75	6	27	1900	179	8.00	315.0	55.0	.0	.0	70.0	
75	6	27	2000	179	5.50	315.0	170.0	.0	.0	255.0	
75	6	27	2100	179	3.50	275.0	175.0	.0	.0	245.0	
75	6	27	2200	179	4.00	55.0	190.0	.0	.0	205.0	
75	6	27	2300	179	5.00	150.0	230.0	.0	.0	245.0	
75	6	28	0	180	3.50	90.0	360.0	.0	.0	360.0	
75	6	28	100	180	2.00	55.0	70.0	.0	.0	135.0	
75	6	28	200	180	3.50	50.0	90.0	.0	.0	130.0	
75	6	28	300	180	3.00	50.0	125.0	.0	.0	165.0	
75	6	28	400	180	3.00	65.0	80.0	.0	.0	135.0	
75	6	28	500	180	3.03	40.0	60.0	.0	.0	95.0	
75	6	28	600	180	2.50	40.0	60.3	.0	.0	135.0	
75	6	28	700	180	2.50	50.0	75.0	.0	.0	165.0	
75	6	28	800	180	2.53	20.0	125.0	.0	.0	170.0	
75	6	28	900	180	3.00	265.0	220.0	.0	.0	290.0	
					30	1				221	
					24	7L..	

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(C-1)

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	6	28	1200	180	6.00	240.0	30.0	.0	.0	65.0		
76	6	28	1300	180	7.00	250.0	30.0	.0	.0	50.0		
76	6	28	1400	180	6.00	255.0	30.0	.0	.0	65.0		
76	6	28	1500	180	6.00	260.0	70.0	.0	.0	115.0		
76	6	28	1600	180	6.00	270.0	35.0	.0	.0	60.0		
76	6	28	1700	180	5.50	280.0	75.0	.0	.0	110.0		
76	6	28	1800	180	10.00	325.0	60.0	.0	.0	80.0		
76	6	28	1900	180	7.00	335.0	45.0	.0	.0	85.0		
76	6	28	2000	180	3.00	290.0	290.0	.0	.0	335.0		
76	6	28	2100	180	2.50	155.0	360.0	.0	.0	360.0		
76	6	28	2200	180	4.50	200.0	240.0	.0	.0	275.0		
76	6	28	2300	180	6.50	145.0	230.0	.0	.0	260.0		
76	6	29	0	181	3.50	110.0	260.0	.0	.0	310.0		
76	6	29	100	181	4.00	10.0	100.0	.0	.0	125.0		
76	6	29	200	181	3.00	100.0	110.0	.0	.0	175.0		
76	6	29	300	181	3.00	55.0	185.0	.0	.0	210.0		
76	6	29	400	181	2.50	140.0	220.0	.0	.0	275.0		
76	6	29	500	181	2.50	90.0	230.0	.0	.0	290.0		
76	6	29	600	181	2.50	120.0	360.0	.0	.0	360.0		
76	6	29	700	181	2.50	65.0	100.0	.0	.0	120.0		
76	6	29	800	181	2.50	50.0	50.0	.0	.0	95.0		
75	6	29	900	181	3.00	215.0	175.0	.0	.0	215.0		
75	6	29	1000	181	3.00	260.0	110.0	.0	.0	215.0		
75	6	29	1100	181	4.50	230.0	30.0	.0	.0	55.0		
76	6	29	1200	181	5.50	235.0	25.0	.0	.0	60.0		
76	6	29	1300	181	5.00	240.0	55.0	.0	.0	105.0		
76	6	29	1400	181	6.00	260.0	70.0	.0	.0	110.0		
76	6	29	1500	181	5.00	175.0	280.0	.0	.0	325.0		
76	6	29	1600	181	8.00	180.0	75.0	.0	.0	125.0		
76	6	29	1700	181	13.50	165.0	20.0	.0	.0	60.0		
76	6	29	1800	181	14.50	160.0	65.0	.0	.0	100.0		
76	6	29	1900	181	8.50	115.0	160.0	.0	.0	190.0		
76	6	29	2000	181	7.00	130.0	145.0	.0	.0	250.0		
75	6	29	2100	181	3.50	50.0	170.0	.0	.0	210.0		
76	6	29	2200	181	3.00	275.0	260.0	.0	.0	310.0		
76	6	29	2300	181	2.50	55.0	175.0	.0	.0	210.0		
75	6	30	0	182	4.50	105.0	360.0	.0	.0	360.0		
76	6	30	100	182	6.00	165.0	360.0	.0	.0	360.0		
76	6	30	200	182	7.00	180.0	215.0	.0	.0	290.0		
76	6	30	300	182	6.50	130.0	145.0	.0	.0	195.0		
76	6	30	400	182	3.00	170.0	360.0	.0	.0	360.0		
76	6	30	500	182	5.50	175.0	350.0	.0	.0	360.0		
76	6	30	600	182	6.50	135.0	85.0	.0	.0	115.0		
76	6	30	700	182	7.50	140.0	80.0	.0	.0	125.0		
76	6	30	800	182	8.00	110.0	80.0	.0	.0	95.0		
76	6	30	900	182	7.50	175.0	80.0	.0	.0	100.0		
76	6	30	1000	182	11.00	160.0	30.0	.0	.0	55.0		
76	6	30	1100	182	6.50	175.0	50.0	.0	.0	105.0		
76	6	30	1200	182	11.00	135.0	40.0	.0	.0	75.0		
76	6	30	1300	182	13.00	130.0	75.0	.0	.0	100.0		
76	6	30	1400	182	15.00	110.0	60.0	.0	.0	100.0		
76	6	30	1500	182	14.00	100.0	45.0	.0	.0	90.0		
76	6	30	1600	182	15.00	135.0	70.0	.0	.0	110.0		
76	6	30	1700	182	15.00	140.0	45.0	.0	.0	70.0		

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS		STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC		DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	6	30	1800	182	14.00	140.0	45.0	.0	.0	65.0
76	6	30	1900	182	12.00	135.0	30.0	.0	.0	65.0
76	6	30	2000	182	10.50	135.0	50.0	.0	.0	65.0
76	6	30	2100	182	10.00	120.0	20.0	.0	.0	40.0
76	6	30	2200	182	9.50	135.0	35.0	.0	.0	55.0
76	6	30	2300	182	10.50	155.0	25.0	.0	.0	55.0
76	7	1	0	183	10.00	155.0	45.0	.0	.0	70.0
76	7	1	100	183	7.00	120.0	15.0	.0	.0	55.0
76	7	1	200	183	6.00	125.0	40.0	.0	.0	45.0
76	7	1	300	183	6.50	165.0	30.0	.0	.0	55.0
76	7	1	400	183	7.00	150.0	40.0	.0	.0	75.0
76	7	1	500	183	5.00	140.0	50.0	.0	.0	90.0
76	7	1	600	183	5.00	160.0	100.0	.0	.0	125.0
76	7	1	700	183	4.50	305.0	215.0	.0	.0	255.0
76	7	1	800	183	3.00	70.0	175.0	.0	.0	200.0
76	7	1	900	183	5.50	165.0	190.0	.0	.0	275.0
76	7	1	1000	183	7.00	295.0	85.0	.0	.0	125.0
76	7	1	1100	183	6.50	340.0	45.0	.0	.0	60.0
76	7	1	1200	183	11.00	335.0	30.0	.0	.0	60.0
76	7	1	1300	183	11.00	340.0	40.0	.0	.0	75.0
76	7	1	1400	183	13.00	340.0	30.0	.0	.0	70.0
76	7	1	1500	183	14.50	335.0	35.0	.0	.0	65.0
76	7	1	1600	183	15.00	340.0	20.0	.0	.0	75.0
76	7	1	1700	183	16.00	340.0	10.0	.0	.0	45.0
76	7	1	1800	183	15.50	335.0	15.0	.0	.0	35.0
76	7	1	1900	183	12.50	325.0	25.0	.0	.0	45.0
76	7	1	2000	183	6.50	320.0	30.0	.0	.0	65.0
76	7	1	2100	183	6.00	320.0	135.0	.0	.0	165.0
76	7	1	2200	183	5.50	140.0	180.0	.0	.0	220.0
76	7	1	2300	183	2.00	70.0	20.0	.0	.0	55.0
76	7	2	0	184	4.00	50.0	135.0	.0	.0	160.0
76	7	2	100	184	3.00	75.0	55.0	.0	.0	170.0
76	7	2	200	184	3.50	40.0	100.0	.0	.0	120.0
76	7	2	300	184	2.50	45.0	165.0	.0	.0	220.0
76	7	2	400	184	2.50	15.0	115.0	.0	.0	140.0
76	7	2	500	184	3.00	65.0	90.0	.0	.0	110.0
76	7	2	600	184	3.00	110.0	140.0	.0	.0	170.0
76	7	2	700	184	3.50	145.0	115.0	.0	.0	145.0
76	7	2	800	184	7.00	125.0	40.0	.0	.0	105.0
76	7	2	900	184	7.00	150.0	105.0	.0	.0	125.0
76	7	2	1000	184	8.50	220.0	20.0	.0	.0	45.0
76	7	2	1100	184	6.00	225.0	25.0	.0	.0	55.0
76	7	2	1200	184	6.50	240.0	40.0	.0	.0	75.0
76	7	2	1300	184	6.00	240.0	25.0	.0	.0	65.0
76	7	2	1400	184	5.00	235.0	85.0	.0	.0	165.0
76	7	2	1500	184	6.50	185.0	100.0	.0	.0	175.0
76	7	2	1600	184	10.50	150.0	15.0	.0	.0	70.0
76	7	2	1700	184	7.50	245.0	130.0	.0	.0	170.0
76	7	2	1800	184	10.00	330.0	60.0	.0	.0	90.0
76	7	2	1900	184	9.00	340.0	30.0	.0	.0	50.0
76	7	2	2000	184	5.00	330.0	65.0	.0	.0	85.0
76	7	2	2100	184	2.50	200.0	275.0	.0	.0	290.0
		2			3	100	36	.0	.0	360.0
		2			3	71	15	.0	.0	205

(C-1)

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS			STATION ID-GENYO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK		
76	7	3	0	185	3.00	5.0	225.0	.0	.0	255.0		
76	7	3	100	185	4.00	40.0	105.0	.0	.0	165.0		
76	7	3	200	185	3.00	45.0	115.0	.0	.0	160.0		
76	7	3	300	185	3.50	70.0	85.0	.0	.0	110.0		
76	7	3	400	185	3.00	65.0	115.0	.0	.0	155.0		
76	7	3	500	185	3.50	60.0	90.0	.0	.0	110.0		
76	7	3	600	185	2.50	70.0	110.0	.0	.0	175.0		
76	7	3	700	185	2.50	40.0	65.0	.0	.0	100.0		
76	7	3	800	185	2.00	155.0	345.0	.0	.0	360.0		
76	7	3	900	185	3.00	225.0	190.0	.0	.0	250.0		
76	7	3	1000	185	7.50	215.0	190.0	.0	.0	270.0		
76	7	3	1100	185	7.00	235.0	23.0	.0	.0	55.0		
76	7	3	1200	185	5.50	230.0	15.0	.0	.0	60.0		
76	7	3	1300	185	6.00	180.0	110.0	.0	.0	120.0		
76	7	3	1400	185	5.00	190.0	145.0	.0	.0	235.0		
76	7	3	1500	185	6.00	193.0	145.0	.0	.0	200.0		
76	7	3	1600	185	6.00	190.0	75.0	.0	.0	135.0		
76	7	3	1700	185	9.00	165.0	45.0	.0	.0	110.0		
76	7	3	1800	185	6.00	150.0	20.0	.0	.0	80.0		
76	7	3	1900	185	6.00	155.0	40.0	.0	.0	90.0		
75	7	3	2000	185	3.00	130.0	135.0	.0	.0	185.0		
76	7	3	2100	185	5.00	25.0	140.0	.0	.0	175.0		
76	7	3	2200	185	2.50	120.0	360.0	.0	.0	360.0		
76	7	3	2300	185	2.00	75.0	120.0	.0	.0	160.0		
76	7	4	0	186	3.00	75.0	350.0	.0	.0	360.0		
76	7	4	100	186	2.50	60.0	130.0	.0	.0	165.0		
75	7	4	200	186	4.50	30.0	115.0	.0	.0	210.0		
76	7	4	300	186	2.50	150.0	360.0	.0	.0	360.0		
76	7	4	400	186	3.00	30.0	260.0	.0	.0	335.0		
76	7	4	500	186	2.50	70.0	95.0	.0	.0	145.0		
76	7	4	600	186	3.00	60.0	155.0	.0	.0	215.0		
76	7	4	700	186	3.00	70.0	85.0	.0	.0	100.0		
76	7	4	800	186	2.50	25.0	125.0	.0	.0	165.0		
76	7	4	900	186	3.00	235.0	165.0	.0	.0	260.0		
76	7	4	1000	186	6.00	140.0	150.0	.0	.0	185.0		
76	7	4	1100	186	8.50	175.0	100.0	.0	.0	195.0		
76	7	4	1200	186	9.00	160.0	70.0	.0	.0	135.0		
76	7	4	1300	186	7.00	160.0	110.0	.0	.0	170.0		
76	7	4	1400	186	7.00	170.0	150.0	.0	.0	240.0		
76	7	4	1500	186	6.50	175.0	100.0	.0	.0	180.0		
76	7	4	1600	186	6.00	165.0	100.0	.0	.0	250.0		
76	7	4	1700	186	7.50	170.0	40.0	.0	.0	125.0		
76	7	4	1800	186	99.90	999.9	999.9	.0	.0	999.9		
76	7	4	1900	186	4.00	190.0	45.0	.0	.0	75.0		
76	7	4	2000	186	3.00	140.0	360.0	.0	.0	360.0		
76	7	4	2100	186	2.50	5.0	140.0	.0	.0	185.0		
76	7	4	2200	186	3.00	80.0	200.0	.0	.0	240.0		
76	7	4	2300	186	3.00	40.0	125.0	.0	.0	170.0		
76	7	5	0	187	3.00	75.0	255.0	.0	.0	330.0		
76	7	5	100	187	3.00	155.0	355.0	.0	.0	360.0		
76	7	5	200	187	3.00	50.0	60.0	.0	.0	115.0		
76	7	5	300	187	3.00	50.0	360.0	.0	.0	360.0		
76	7	5	400	187	3.00	60.0	200.0	.0	.0	230.0		
76	7	5	500	187	3.00	50.0	215.0	.0	.0	325.0		

Table C-1 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - EARLY SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27					H E CRAMER CO INC					DATE 11/06/76	PAGE
YEAR	MONTH	DAY	JULIAN	HOUR	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	7	5	600	187	3.00	35.0	80.0	.0	.0	125.0	
76	7	5	700	187	3.00	65.0	40.0	.0	.0	70.0	
76	7	5	800	187	2.50	35.0	105.0	.0	.0	145.0	
76	7	5	900	187	3.00	165.0	285.0	.0	.0	325.0	
76	7	5	1000	187	4.50	245.0	30.0	.0	.0	65.0	
76	7	5	1100	187	5.00	245.0	55.0	.0	.0	115.0	
76	7	5	1200	187	7.50	185.0	65.0	.0	.0	110.0	
76	7	5	1300	187	5.50	175.0	55.0	.0	.0	195.0	
76	7	5	1400	187	5.50	175.0	65.0	.0	.0	200.0	
76	7	5	1500	187	6.00	160.0	60.0	.0	.0	145.0	
76	7	5	1600	187	8.50	160.0	35.0	.0	.0	100.0	
76	7	5	1700	187	7.50	170.0	30.0	.0	.0	70.0	
76	7	5	1800	187	5.00	25.0	40.0	.0	.0	105.0	
76	7	5	1900	187	5.00	270.0	150.0	.0	.0	180.0	
76	7	5	2000	187	6.00	33.0	80.0	.0	.0	95.0	
76	7	5	2100	187	3.00	45.0	300.0	.0	.0	335.0	
76	7	5	2200	187	3.50	185.0	125.0	.0	.0	180.0	
76	7	5	2300	187	3.00	100.0	120.0	.0	.0	235.0	
76	7	6	0	188	4.50	90.0	185.0	.0	.0	310.0	
76	7	6	100	188	3.50	55.0	350.0	.0	.0	360.0	
76	7	6	200	188	3.00	75.0	140.0	.0	.0	215.0	
76	7	6	300	188	3.50	105.0	130.0	.0	.0	200.0	
76	7	6	400	188	5.00	220.0	330.0	.0	.0	350.0	
76	7	6	500	188	3.50	50.0	250.0	.0	.0	310.0	
76	7	6	600	188	2.50	60.0	120.0	.0	.0	220.0	
76	7	6	700	188	2.50	33.0	65.0	.0	.0	85.0	
76	7	6	800	188	2.00	50.0	55.0	.0	.0	100.0	
76	7	6	900	188	3.00	105.0	360.0	.0	.0	360.0	
76	7	6	1000	188	3.00	210.0	290.0	.0	.0	315.0	
76	7	6	1100	188	6.00	100.0	165.0	.0	.0	240.0	
76	7	6	1200	188	6.50	255.0	10.0	.0	.0	40.0	
76	7	6	1300	188	5.00	235.0	35.0	.0	.0	60.0	
76	7	6	1400	188	4.50	185.0	160.0	.0	.0	215.0	
76	7	6	1500	188	5.50	155.0	50.0	.0	.0	225.0	
76	7	6	1600	188	9.00	165.0	45.0	.0	.0	105.0	
76	7	6	1700	188	13.50	165.0	25.0	.0	.0	50.0	
76	7	6	1800	188	13.50	160.0	10.0	.0	.0	30.0	
76	7	6	1900	188	13.50	155.0	15.0	.0	.0	35.0	
76	7	6	2000	188	7.00	140.0	105.0	.0	.0	135.0	
76	7	6	2100	188	6.50	135.0	125.0	.0	.0	145.0	
76	7	6	2200	188	4.50	20.0	130.0	.0	.0	155.0	
76	7	6	2300	188	3.00	70.0	130.0	.0	.0	205.0	
76	7	7	0	189	4.00	45.0	140.0	.0	.0	215.0	
76	7	7	100	189	3.50	40.0	95.0	.0	.0	160.0	
76	7	7	200	189	3.00	55.0	150.0	.0	.0	165.0	
76	7	7	300	189	4.50	70.0	195.0	.0	.0	320.0	
76	7	7	400	189	2.50	55.0	360.0	.0	.0	350.0	
76	7	7	500	189	3.50	40.0	165.0	.0	.0	225.0	
76	7	7	600	189	3.00	40.0	85.0	.0	.0	135.0	
76	7	7	700	189	3.00	40.0	105.0	.0	.0	190.0	
76	7	7	800	189	3.00	315.0	200.0	.0	.0	240.0	
76	7	7	900	189	3.00	255.0	270.0	.0	.0	360.0	
76	7	7			2.0	3				36	
76	7				20	1				16	

Table C-2
HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2	MAY 19-AUG 27	H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	7	18	1800	200	12.50	175.0	20.0	.0	.0	40.0
76	7	18	1900	200	10.00	165.0	25.0	.0	.0	40.0
76	7	18	2000	200	8.50	155.0	40.0	.0	.0	50.0
76	7	18	2100	200	4.00	75.0	135.0	.0	.0	140.0
76	7	18	2200	200	3.50	85.0	135.0	.0	.0	165.0
76	7	18	2300	200	4.00	320.0	205.0	.0	.0	230.0
76	7	19	0	201	3.50	220.0	210.0	.0	.0	225.0
76	7	19	100	201	4.00	125.0	50.0	.0	.0	110.0
76	7	19	210	201	5.00	140.0	115.0	.0	.0	190.0
76	7	19	300	201	2.50	100.0	290.0	.0	.0	295.0
76	7	19	400	201	2.50	130.0	350.0	.0	.0	360.0
76	7	19	500	201	3.00	85.0	260.0	.0	.0	235.0
76	7	19	600	201	2.50	35.0	240.0	.0	.0	250.0
76	7	19	700	201	2.50	105.0	135.0	.0	.0	165.0
76	7	19	800	201	6.00	155.0	95.0	.0	.0	115.0
76	7	19	900	201	8.50	165.0	30.0	.0	.0	60.0
76	7	19	1000	201	8.50	170.0	40.0	.0	.0	80.0
76	7	19	1100	201	6.00	105.0	145.0	.0	.0	205.0
76	7	19	1200	201	6.00	165.0	120.0	.0	.0	180.0
76	7	19	1300	201	6.00	190.0	80.0	.0	.0	120.0
76	7	19	1400	201	7.50	200.0	50.0	.0	.0	95.0
76	7	19	1500	201	7.00	235.0	360.0	.0	.0	360.0
76	7	19	1600	201	9.00	275.0	75.0	.0	.0	100.0
76	7	19	1700	201	9.50	320.0	40.0	.0	.0	60.0
76	7	19	1800	201	7.00	320.0	60.0	.0	.0	85.0
76	7	19	1900	201	6.50	325.0	125.0	.0	.0	145.0
76	7	19	2000	201	3.50	105.0	270.0	.0	.0	295.0
76	7	19	2100	201	5.50	305.0	230.0	.0	.0	290.0
76	7	19	2200	201	3.50	55.0	80.0	.0	.0	170.0
76	7	19	2300	201	3.00	55.0	170.0	.0	.0	225.0
76	7	20	0	202	3.00	70.0	120.0	.0	.0	125.0
76	7	20	100	202	3.00	45.0	75.0	.0	.0	65.0
76	7	20	200	202	3.50	60.0	45.0	.0	.0	70.0
76	7	20	300	202	4.00	45.0	80.0	.0	.0	90.0
76	7	20	400	202	3.00	70.0	70.0	.0	.0	80.0
76	7	20	500	202	2.50	50.0	90.0	.0	.0	125.0
76	7	20	600	202	3.50	105.0	360.0	.0	.0	360.0
76	7	20	700	202	3.50	70.0	135.0	.0	.0	190.0
76	7	20	800	202	2.50	15.0	125.0	.0	.0	165.0
76	7	20	900	202	3.50	285.0	65.0	.0	.0	125.0
76	7	20	1000	202	5.50	240.0	35.0	.0	.0	60.0
76	7	20	1100	202	6.00	235.0	25.0	.0	.0	55.0
76	7	20	1200	202	6.50	245.0	30.0	.0	.0	60.0
76	7	20	1300	202	7.00	245.0	35.0	.0	.0	65.0
76	7	20	1400	202	5.00	225.0	20.0	.0	.0	60.0
76	7	20	1500	202	11.50	250.0	60.0	.0	.0	80.0
76	7	20	1600	202	10.00	325.0	115.0	.0	.0	150.0
76	7	20	1700	202	4.50	355.0	70.0	.0	.0	135.0
76	7	20	1800	202	4.00	350.0	255.0	.0	.0	330.0
76	7	20	1900	202	5.50	230.0	40.0	.0	.0	60.0
76	7	20	2000	202	3.50	155.0	255.0	.0	.0	275.0
76	7	20	2100	202	3.00	70.0	110.0	.0	.0	230.0
76	7	20	2200	202	3.00	75.0	180.0	.0	.0	215.0
76	7	20	2300	202	3.50	80.0	170.0	.0	.0	200.0

(C-2)

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	7	21	0	203	2.50	55.0	115.0	.0	.0	175.0
76	7	21	100	203	3.50	25.0	80.0	.0	.0	110.0
76	7	21	200	203	3.50	40.0	85.0	.0	.0	125.0
76	7	21	300	203	3.00	55.0	60.0	.0	.0	85.0
76	7	21	400	203	3.50	60.0	90.0	.0	.0	120.0
76	7	21	500	203	3.50	35.0	160.0	.0	.0	170.0
76	7	21	600	203	3.00	70.0	135.0	.0	.0	145.0
76	7	21	700	203	3.00	75.0	50.0	.0	.0	75.0
76	7	21	800	203	2.50	35.0	65.0	.0	.0	135.0
76	7	21	900	203	2.50	330.0	215.0	.0	.0	310.0
76	7	21	1000	203	4.00	190.0	360.0	.0	.0	360.0
75	7	21	1100	203	6.00	250.0	45.0	.0	.0	80.0
76	7	21	1200	203	5.00	240.0	40.0	.0	.0	65.0
76	7	21	1300	203	4.50	250.0	40.0	.0	.0	130.0
76	7	21	1400	203	6.50	225.0	50.0	.0	.0	85.0
76	7	21	1500	203	6.50	245.0	110.0	.0	.0	125.0
76	7	21	1600	203	6.50	335.0	95.0	.0	.0	120.0
76	7	21	1700	203	5.00	355.0	170.0	.0	.0	245.0
76	7	21	1800	203	5.00	320.0	95.0	.0	.0	110.0
75	7	21	1900	203	4.50	285.0	55.0	.0	.0	65.0
76	7	21	2000	203	4.00	310.0	145.0	.0	.0	165.0
76	7	21	2100	203	4.00	345.0	155.0	.0	.0	190.0
76	7	21	2200	203	8.00	210.0	165.0	.0	.0	180.0
76	7	21	2300	203	5.00	170.0	330.0	.0	.0	350.0
76	7	22	0	204	3.00	125.0	280.0	.0	.0	305.0
76	7	22	100	204	2.50	75.0	245.0	.0	.0	270.0
76	7	22	200	204	3.50	100.0	70.0	.0	.0	90.0
76	7	22	300	204	3.00	75.0	170.0	.0	.0	200.0
76	7	22	400	204	3.50	180.0	160.0	.0	.0	180.0
76	7	22	500	204	4.50	90.0	205.0	.0	.0	240.0
76	7	22	600	204	3.00	5.0	245.0	.0	.0	230.0
76	7	22	700	204	3.00	60.0	105.0	.0	.0	125.0
75	7	22	800	204	3.50	45.0	55.0	.0	.0	90.0
76	7	22	900	204	3.00	65.0	65.0	.0	.0	165.0
76	7	22	1000	204	4.00	145.0	230.0	.0	.0	275.0
76	7	22	1100	204	5.50	235.0	25.0	.0	.0	55.0
76	7	22	1200	204	7.00	260.0	20.0	.0	.0	45.0
76	7	22	1300	204	5.50	255.0	20.0	.0	.0	60.0
76	7	22	1400	204	5.50	230.0	50.0	.0	.0	80.0
76	7	22	1500	204	6.50	255.0	20.0	.0	.0	55.0
76	7	22	1600	204	6.50	270.0	70.0	.0	.0	100.0
76	7	22	1700	204	7.50	305.0	115.0	.0	.0	155.0
76	7	22	1800	204	9.00	320.0	25.0	.0	.0	45.0
76	7	22	1900	204	6.50	320.0	40.0	.0	.0	55.0
76	7	22	2000	204	5.00	320.0	95.0	.0	.0	130.0
76	7	22	2100	204	2.50	95.0	225.0	.0	.0	245.0
76	7	22	2200	204	5.00	100.0	270.0	.0	.0	295.0
76	7	22	2300	204	5.00	270.0	360.0	.0	.0	360.0
76	7	23	0	205	4.00	15.0	360.0	.0	.0	350.0
76	7	23	100	205	5.50	10.0	150.0	.0	.0	190.0
76	7	23	200	205	3.50	60.0	70.0	.0	.0	115.0
76	7	23	300	205	3.50	50.0	170.0	.0	.0	215.0

CONTINUED ON BACK SIDE

(C-2)

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	7	23	600	205	3.50	35.0	70.0	.0	.0	80.0
76	7	23	700	205	3.50	60.0	110.0	.0	.0	135.0
76	7	23	800	205	3.50	55.0	75.0	.0	.0	115.0
76	7	23	900	205	3.50	295.0	165.0	.0	.0	210.0
76	7	23	1000	205	4.50	295.0	165.0	.0	.0	205.0
76	7	23	1100	205	6.00	250.0	15.0	.0	.0	40.0
76	7	23	1200	205	6.50	250.0	25.0	.0	.0	55.0
76	7	23	1300	205	6.00	255.0	75.0	.0	.0	105.0
76	7	23	1400	205	6.00	275.0	55.0	.0	.0	110.0
76	7	23	1500	205	7.00	274.0	30.0	.0	.0	55.0
76	7	23	1600	205	7.00	235.0	20.0	.0	.0	40.0
76	7	23	1700	205	7.00	266.0	20.0	.0	.0	30.0
76	7	23	1800	205	6.00	260.0	50.0	.0	.0	65.0
76	7	23	1900	205	4.50	3C5.0	45.0	.0	.0	70.0
76	7	23	2000	205	5.00	55.0	275.0	.0	.0	300.0
76	7	23	2100	205	3.00	120.0	265.0	.0	.0	325.0
76	7	23	2200	205	2.50	160.0	360.0	.0	.0	360.0
76	7	23	2300	205	4.00	100.0	290.0	.0	.0	335.0
76	7	24	0	206	3.00	55.0	155.0	.0	.0	200.0
76	7	24	100	206	4.00	40.0	265.0	.0	.0	355.0
76	7	24	200	206	3.00	335.0	360.0	.0	.0	360.0
76	7	24	300	206	4.00	25.0	215.0	.0	.0	260.0
76	7	24	400	206	3.00	135.0	235.0	.0	.0	220.0
75	7	24	500	206	3.50	35.0	225.0	.0	.0	295.0
76	7	24	600	206	3.50	100.0	300.0	.0	.0	320.0
76	7	24	700	206	2.50	25.0	160.0	.0	.0	225.0
76	7	24	800	206	3.00	55.0	215.0	.0	.0	245.0
76	7	24	900	206	3.00	355.0	195.0	.0	.0	250.0
76	7	24	1000	206	5.00	235.0	95.0	.0	.0	150.0
76	7	24	1100	206	4.50	215.0	265.0	.0	.0	320.0
76	7	24	1200	206	7.00	255.0	50.0	.0	.0	70.0
76	7	24	1300	206	6.00	245.0	50.0	.0	.0	80.0
76	7	24	1400	206	6.50	250.0	55.0	.0	.0	70.0
76	7	24	1500	206	14.00	315.0	120.0	.0	.0	175.0
76	7	24	1600	206	14.50	315.0	25.0	.0	.0	50.0
76	7	24	1700	206	12.50	332.0	35.0	.0	.0	40.0
76	7	24	1800	206	13.00	330.0	25.0	.0	.0	50.0
76	7	24	1900	206	10.50	320.0	40.0	.0	.0	60.0
76	7	24	2000	206	4.50	295.0	95.0	.0	.0	125.0
76	7	24	2100	206	6.00	230.0	175.0	.0	.0	225.0
76	7	24	2200	206	8.50	135.0	90.0	.0	.0	145.0
76	7	24	2300	206	5.00	95.0	160.0	.0	.0	180.0
76	7	25	0	207	3.50	10.0	70.0	.0	.0	85.0
76	7	25	100	207	4.00	350.0	160.0	.0	.0	185.0
76	7	25	200	207	3.00	45.0	265.0	.0	.0	295.0
76	7	25	300	207	2.50	60.0	200.0	.0	.0	255.0
76	7	25	400	207	2.50	60.0	365.0	.0	.0	340.0
76	7	25	500	207	3.00	70.0	110.0	.0	.0	120.0
76	7	25	600	207	4.00	25.0	110.0	.0	.0	140.0
76	7	25	700	207	3.00	25.0	145.0	.0	.0	165.0
76	7	25	800	207	3.50	305.0	270.0	.0	.0	315.0
76	7	25	900	207	4.00	28.0	85.0	.0	.0	140.0
76	7	25	1000	207	6.50	255.0	165.0	.0	.0	140.0
76	7	25	1100	207	7.00	315.0	360.0	.0	.0	360.0

(C-2)

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27								H E CRAMER CO INC		DATE 11/06/76	PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	7	25	1200	207	12.00	320.0	30.0	.0	.0	50.0	
76	7	25	1300	207	9.00	315.0	95.0	.0	.0	115.0	
76	7	25	1400	207	5.00	250.0	220.0	.0	.0	290.0	
76	7	25	1500	207	6.00	235.0	55.0	.0	.0	290.0	
76	7	25	1600	207	7.00	225.0	20.0	.0	.0	45.0	
76	7	25	1700	207	6.50	220.0	25.0	.0	.0	60.0	
76	7	25	1800	207	6.50	200.0	25.0	.0	.0	55.0	
76	7	25	1900	207	5.00	205.0	40.0	.0	.0	70.0	
76	7	25	2000	207	4.50	235.0	60.0	.0	.0	80.0	
76	7	25	2100	207	3.00	40.0	175.0	.0	.0	195.0	
76	7	25	2200	207	2.50	330.0	330.0	.0	.0	340.0	
76	7	25	2300	207	5.00	150.0	305.0	.0	.0	360.0	
76	7	26	0	208	4.00	95.0	140.0	.0	.0	185.0	
76	7	26	100	208	3.50	95.0	110.0	.0	.0	150.0	
76	7	26	200	208	3.50	50.0	155.0	.0	.0	210.0	
76	7	26	300	208	4.00	20.0	225.0	.0	.0	305.0	
76	7	26	400	208	3.00	15.0	55.0	.0	.0	75.0	
76	7	26	500	208	4.50	70.0	70.0	.0	.0	95.0	
76	7	26	600	208	3.00	50.0	360.0	.0	.0	360.0	
76	7	26	700	208	3.00	25.0	60.0	.0	.0	105.0	
76	7	26	800	208	3.50	15.0	210.0	.0	.0	285.0	
76	7	26	900	208	4.00	230.0	90.0	.0	.0	160.0	
76	7	26	1000	208	7.00	225.0	40.0	.0	.0	60.0	
76	7	26	1100	208	7.00	225.0	30.0	.0	.0	55.0	
76	7	26	1200	208	6.50	230.0	20.0	.0	.0	55.0	
76	7	26	1300	208	7.50	230.0	25.0	.0	.0	45.0	
76	7	26	1400	208	8.50	220.0	20.0	.0	.0	55.0	
76	7	26	1500	208	12.00	210.0	15.0	.0	.0	40.0	
76	7	26	1600	208	11.00	210.0	15.0	.0	.0	45.0	
76	7	26	1700	208	7.50	210.0	15.0	.0	.0	40.0	
76	7	26	1800	208	5.50	215.0	20.0	.0	.0	45.0	
76	7	26	1900	208	5.00	215.0	30.0	.0	.0	55.0	
76	7	26	2000	208	3.00	75.0	190.0	.0	.0	275.0	
76	7	26	2100	208	3.00	45.0	55.0	.0	.0	75.0	
76	7	26	2200	208	3.50	125.0	335.0	.0	.0	360.0	
76	7	26	2300	208	3.00	355.0	335.0	.0	.0	360.0	
76	7	27	0	209	3.00	50.0	110.0	.0	.0	140.0	
76	7	27	100	209	3.00	35.0	75.0	.0	.0	110.0	
76	7	27	200	209	3.50	70.0	105.0	.0	.0	140.0	
76	7	27	300	209	3.50	45.0	90.0	.0	.0	110.0	
76	7	27	400	209	4.00	80.0	155.0	.0	.0	190.0	
76	7	27	500	209	3.50	50.0	170.0	.0	.0	195.0	
76	7	27	600	209	2.50	175.0	360.0	.0	.0	360.0	
76	7	27	700	209	3.50	40.0	95.0	.0	.0	115.0	
76	7	27	800	209	2.00	205.0	270.0	.0	.0	315.0	
76	7	27	900	209	3.00	255.0	300.0	.0	.0	360.0	
76	7	27	1000	209	5.00	260.0	145.0	.0	.0	195.0	
76	7	27	1100	209	6.00	220.0	360.0	.0	.0	360.0	
76	7	27	1200	209	6.50	215.0	70.0	.0	.0	115.0	
76	7	27	1300	209	7.50	210.0	70.0	.0	.0	135.0	
76	7	27	1400	209	9.50	235.0	55.0	.0	.0	80.0	
76	7	27	1500	209	6.00	215.0	90.0	.0	.0	135.0	
76	7	27	1600	209	5.50	225.0	15.0	.0	.0	55.0	
76	2							.0	.0		

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2	MAY 19-AUG 27	H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	7	27	1800	209	5.00	220.0	15.0	.0	.0	40.0
76	7	27	1900	209	4.50	235.0	50.0	.0	.0	75.0
75	7	27	2000	209	3.00	145.0	190.0	.0	.0	225.0
76	7	27	2100	209	3.50	65.0	120.0	.0	.0	150.0
76	7	27	2200	209	3.50	75.0	50.0	.0	.0	70.0
76	7	27	2300	209	2.50	30.0	265.0	.0	.0	310.0
76	7	28	0	210	3.50	70.0	105.0	.0	.0	125.0
76	7	28	100	210	5.00	70.0	45.0	.0	.0	60.0
76	7	28	200	210	3.00	55.0	135.0	.0	.0	165.0
76	7	28	300	210	3.50	85.0	105.0	.0	.0	145.0
76	7	28	400	210	4.00	30.0	120.0	.0	.0	135.0
76	7	28	500	210	3.50	100.0	190.0	.0	.0	205.0
76	7	28	600	210	4.00	65.0	95.0	.0	.0	110.0
76	7	28	700	210	2.50	55.0	100.0	.0	.0	125.0
76	7	28	800	210	2.50	125.0	190.0	.0	.0	220.0
76	7	28	900	210	3.50	285.0	360.0	.0	.0	360.0
76	7	28	1000	210	3.50	330.0	215.0	.0	.0	240.0
76	7	28	1100	210	5.00	255.0	205.0	.0	.0	255.0
75	7	28	1200	210	6.50	260.0	185.0	.0	.0	215.0
75	7	28	1300	210	5.00	255.0	100.0	.0	.0	160.0
76	7	28	1400	210	5.50	290.0	195.0	.0	.0	260.0
75	7	28	1500	210	5.50	225.0	20.0	.0	.0	45.0
76	7	28	1600	210	4.50	215.0	45.0	.0	.0	85.0
76	7	28	1700	210	3.50	275.0	140.0	.0	.0	165.0
76	7	28	1800	210	4.50	315.0	60.0	.0	.0	90.0
76	7	28	1900	210	3.50	350.0	60.0	.0	.0	80.0
76	7	28	2000	210	2.00	20.0	260.0	.0	.0	360.0
76	7	28	2100	210	4.00	130.0	315.0	.0	.0	360.0
75	7	28	2200	210	4.00	75.0	155.0	.0	.0	175.0
75	7	28	2300	210	3.00	80.0	205.0	.0	.0	220.0
76	7	29	0	211	2.50	70.0	360.0	.0	.0	360.0
76	7	29	100	211	5.00	25.0	65.0	.0	.0	100.0
76	7	29	200	211	4.00	140.0	160.0	.0	.0	200.0
76	7	29	300	211	3.00	120.0	190.0	.0	.0	225.0
75	7	29	400	211	5.50	295.0	270.0	.0	.0	295.0
76	7	29	500	211	6.00	120.0	105.0	.0	.0	120.0
76	7	29	600	211	6.00	125.0	35.0	.0	.0	45.0
75	7	29	700	211	2.50	110.0	105.0	.0	.0	120.0
76	7	29	800	211	4.50	105.0	335.0	.0	.0	360.0
76	7	29	900	211	5.00	205.0	65.0	.0	.0	95.0
76	7	29	1000	211	4.00	225.0	20.0	.0	.0	55.0
76	7	29	1100	211	5.00	245.0	145.0	.0	.0	200.0
75	7	29	1200	211	5.50	190.0	145.0	.0	.0	215.0
76	7	29	1300	211	5.50	15.0	180.0	.0	.0	310.0
76	7	29	1400	211	6.00	125.0	360.0	.0	.0	360.0
76	7	29	1500	211	6.50	35.0	45.0	.0	.0	65.0
76	7	29	1600	211	5.00	20.0	75.0	.0	.0	125.0
75	7	29	1700	211	3.50	350.0	215.0	.0	.0	320.0
76	7	29	1800	211	5.00	230.0	165.0	.0	.0	260.0
76	7	29	1900	211	5.00	260.0	380.0	.0	.0	360.0
76	7	29	2000	211	5.00	35.0	255.0	.0	.0	290.0
76	7	29	2100	211	9.00	65.0	230.0	.0	.0	245.0
75	7	29	2200	211	8.00	50.0	170.0	.0	.0	190.0
76	7	29	2300	211	6.00	245.0	135.0	.0	.0	155.0

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS		STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC		DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	7	30	0	212	6.50	90.0	195.0	.0	.0	220.0
76	7	30	100	212	3.50	110.0	140.0	.0	.0	160.0
76	7	30	200	212	6.00	105.0	55.0	.0	.0	75.0
76	7	30	300	212	5.00	110.0	100.0	.0	.0	110.0
76	7	30	400	212	2.50	100.0	290.0	.0	.0	305.0
76	7	30	500	212	3.50	125.0	200.0	.0	.0	230.0
76	7	30	600	212	4.00	115.0	260.0	.0	.0	295.0
76	7	30	700	212	5.50	105.0	65.0	.0	.0	100.0
75	7	30	800	212	6.00	140.0	55.0	.0	.0	70.0
76	7	30	900	212	5.00	115.0	65.0	.0	.0	65.0
76	7	30	1000	212	6.00	110.0	45.0	.0	.0	70.0
76	7	30	1100	212	4.00	120.0	105.0	.0	.0	220.0
76	7	30	1200	212	7.00	275.0	50.0	.0	.0	75.0
76	7	30	1300	212	5.00	310.0	55.0	.0	.0	125.0
76	7	30	1400	212	4.50	240.0	140.0	.0	.0	205.0
76	7	30	1500	212	5.50	255.0	40.0	.0	.0	75.0
76	7	30	1600	212	5.50	245.0	65.0	.0	.0	100.0
76	7	30	1700	212	10.00	195.0	85.0	.0	.0	110.0
76	7	30	1800	212	12.50	190.0	225.0	.0	.0	250.0
76	7	30	1900	212	5.50	260.0	130.0	.0	.0	190.0
76	7	30	2000	212	3.50	325.0	125.0	.0	.0	140.0
76	7	30	2100	212	2.50	60.0	245.0	.0	.0	265.0
76	7	30	2200	212	3.00	115.0	200.0	.0	.0	220.0
76	7	30	2300	212	9.00	315.0	200.0	.0	.0	225.0
75	7	31	0	213	7.50	35.0	160.0	.0	.0	180.0
76	7	31	100	213	7.00	100.0	130.0	.0	.0	145.0
76	7	31	200	213	7.50	90.0	65.0	.0	.0	80.0
76	7	31	300	213	6.00	85.0	100.0	.0	.0	115.0
76	7	31	400	213	4.00	325.0	100.0	.0	.0	130.0
76	7	31	500	213	2.50	105.0	230.0	.0	.0	260.0
76	7	31	600	213	2.50	55.0	125.0	.0	.0	140.0
76	7	31	700	213	3.50	20.0	55.0	.0	.0	70.0
76	7	31	800	213	3.00	345.0	155.0	.0	.0	195.0
76	7	31	900	213	3.00	45.0	360.0	.0	.0	360.0
76	7	31	1000	213	6.00	240.0	60.0	.0	.0	95.0
76	7	31	1100	213	6.50	240.0	30.0	.0	.0	60.0
76	7	31	1200	213	5.50	245.0	40.0	.0	.0	70.0
76	7	31	1300	213	6.50	250.0	20.0	.0	.0	55.0
76	7	31	1400	213	7.00	250.0	35.0	.0	.0	55.0
76	7	31	1500	213	11.00	215.0	70.0	.0	.0	85.0
76	7	31	1600	213	15.50	145.0	135.0	.0	.0	155.0
76	7	31	1700	213	8.50	110.0	85.0	.0	.0	125.0
76	7	31	1800	213	7.00	150.0	105.0	.0	.0	130.0
76	7	31	1900	213	7.00	105.0	75.0	.0	.0	95.0
76	7	31	2000	213	3.50	145.0	140.0	.0	.0	175.0
76	7	31	2100	213	5.50	170.0	55.0	.0	.0	80.0
76	7	31	2200	213	4.50	115.0	180.0	.0	.0	205.0
76	7	31	2300	213	4.00	205.0	255.0	.0	.0	335.0
76	8	1	0	214	4.50	145.0	175.0	.0	.0	195.0
76	8	1	100	214	3.00	75.0	60.0	.0	.0	90.0
76	8	1	200	214	5.50	65.0	100.0	.0	.0	120.0
76	8	1	300	214	3.50	50.0	155.0	.0	.0	170.0
76	8	1	400	214	3.50	40.0	140.0	.0	.0	210.0
6	-	-	1	-	-	-	-	0	0	3

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Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2	MAY 19-AUG 27	H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	8	1	600	214	5.00	100.0	85.0	.0	.0	95.0
76	8	1	700	214	5.00	40.0	205.0	.0	.0	225.0
76	8	1	600	214	4.50	100.0	70.0	.0	.0	115.0
76	8	1	900	214	7.00	180.0	50.0	.0	.0	90.0
76	8	1	1000	214	4.00	140.0	205.0	.0	.0	230.0
76	8	1	1100	214	5.50	210.0	55.0	.0	.0	80.0
76	8	1	1200	214	3.00	340.0	360.0	.0	.0	360.0
76	8	1	1300	214	3.00	160.0	360.0	.0	.0	360.0
76	8	1	1400	214	5.00	160.0	200.0	.0	.0	240.0
76	8	1	1500	214	5.00	205.0	190.0	.0	.0	265.0
76	8	1	1600	214	4.00	240.0	150.0	.0	.0	190.0
76	8	1	1700	214	3.50	320.0	235.0	.0	.0	280.0
76	8	1	1600	214	12.00	135.0	140.0	.0	.0	165.0
76	8	1	1900	214	13.50	110.0	95.0	.0	.0	105.0
76	8	1	2000	214	4.00	120.0	145.0	.0	.0	170.0
76	8	1	2100	214	10.50	175.0	75.0	.0	.0	100.0
76	8	1	2200	214	4.50	15.0	300.0	.0	.0	360.0
76	8	1	2300	214	3.50	350.0	100.0	.0	.0	145.0
76	8	2	0	215	3.00	65.0	115.0	.0	.0	125.0
76	8	2	100	215	2.50	360.0	360.0	.0	.0	360.0
75	8	2	200	215	3.50	70.0	110.0	.0	.0	125.0
76	8	2	300	215	3.50	10.0	340.0	.0	.0	360.0
76	8	2	400	215	5.00	95.0	75.0	.0	.0	85.0
76	8	2	500	215	3.00	60.0	195.0	.0	.0	245.0
76	8	2	600	215	4.00	35.0	115.0	.0	.0	150.0
76	8	2	700	215	2.50	250.0	360.0	.0	.0	360.0
76	8	2	800	215	3.00	35.0	75.0	.0	.0	120.0
76	8	2	900	215	4.00	30.0	100.0	.0	.0	120.0
76	8	2	1000	215	4.50	170.0	255.0	.0	.0	280.0
76	8	2	1100	215	5.50	230.0	50.0	.0	.0	90.0
76	8	2	1200	215	5.00	240.0	35.0	.0	.0	85.0
76	8	2	1300	215	6.00	205.0	65.0	.0	.0	125.0
76	8	2	1400	215	9.50	170.0	60.0	.0	.0	120.0
76	8	2	1500	215	15.00	170.0	60.0	.0	.0	95.0
75	8	2	1600	215	13.50	140.0	70.0	.0	.0	100.0
76	8	2	1700	215	15.50	165.0	115.0	.0	.0	140.0
76	8	2	1800	215	12.00	120.0	35.0	.0	.0	60.0
76	8	2	1900	215	11.00	150.0	100.0	.0	.0	115.0
76	8	2	2000	215	9.00	153.0	75.0	.0	.0	90.0
76	8	2	2100	215	3.50	55.0	195.0	.0	.0	230.0
76	8	2	2200	215	5.00	330.0	75.0	.0	.0	95.0
76	8	2	2300	215	3.50	165.0	360.0	.0	.0	360.0
76	8	3	0	216	3.00	335.0	290.0	.0	.0	315.0
76	8	3	100	216	6.00	100.0	140.0	.0	.0	160.0
76	8	3	200	216	4.50	95.0	115.0	.0	.0	145.0
76	8	3	300	216	3.50	340.0	360.0	.0	.0	360.0
76	8	3	400	216	4.00	85.0	360.0	.0	.0	360.0
76	8	3	500	216	4.00	60.0	290.0	.0	.0	355.0
76	8	3	600	216	3.50	80.0	360.0	.0	.0	360.0
76	8	3	700	216	5.00	105.0	200.0	.0	.0	220.0
75	8	3	800	216	4.50	145.0	140.0	.0	.0	185.0
76	8	3	900	216	4.50	80.0	210.0	.0	.0	255.0
76	8	3	1000	216	6.50	10.0	360.0	.0	.0	360.0
76	8	3	1100	216	7.50	260.0	215.0	.0	.0	255.0

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Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	8	3	1200	216	7.00	205.0	110.0	.0	.0	140.0
76	8	3	1300	216	9.50	160.0	55.0	.0	.0	90.0
76	8	3	1400	216	8.50	165.0	90.0	.0	.0	130.0
76	8	3	1500	216	9.00	200.0	55.0	.0	.0	80.0
76	8	3	1600	216	7.50	175.0	70.0	.0	.0	115.0
76	8	3	1700	216	7.50	170.0	65.0	.0	.0	150.0
76	8	3	1800	216	9.00	205.0	40.0	.0	.0	65.0
76	8	3	1900	216	7.50	240.0	105.0	.0	.0	130.0
76	8	3	2000	216	5.50	315.0	145.0	.0	.0	180.0
76	8	3	2100	216	3.50	75.0	295.0	.0	.0	310.0
76	8	3	2200	216	7.00	105.0	40.0	.0	.0	50.0
76	8	3	2300	216	7.50	115.0	20.0	.0	.0	30.0
76	8	4	0	217	3.00	60.0	130.0	.0	.0	175.0
76	8	4	100	217	4.50	75.0	105.0	.0	.0	125.0
76	8	4	200	217	6.00	115.0	15.0	.0	.0	40.0
76	8	4	300	217	7.00	125.0	55.0	.0	.0	65.0
76	8	4	400	217	7.50	170.0	45.0	.0	.0	80.0
75	8	4	500	217	5.00	60.0	200.0	.0	.0	240.0
76	8	4	600	217	5.50	105.0	170.0	.0	.0	180.0
76	8	4	700	217	5.00	35.0	220.0	.0	.0	245.0
76	8	4	800	217	3.00	200.0	360.0	.0	.0	360.0
76	8	4	900	217	7.00	145.0	165.0	.0	.0	190.0
76	8	4	1000	217	6.50	165.0	90.0	.0	.0	120.0
76	8	4	1100	217	7.50	180.0	65.0	.0	.0	110.0
75	8	4	1200	217	7.50	200.0	105.0	.0	.0	160.0
76	8	4	1300	217	6.50	165.0	190.0	.0	.0	220.0
76	8	4	1400	217	9.50	200.0	35.0	.0	.0	75.0
76	8	4	1500	217	9.50	205.0	50.0	.0	.0	80.0
76	8	4	1600	217	10.00	210.0	50.0	.0	.0	75.0
76	8	4	1700	217	7.50	200.0	55.0	.0	.0	70.0
76	8	4	1800	217	6.50	215.0	60.0	.0	.0	65.0
76	8	4	1900	217	8.50	315.0	130.0	.0	.0	150.0
76	8	4	2000	217	12.00	315.0	30.0	.0	.0	70.0
76	8	4	2100	217	10.50	330.0	40.0	.0	.0	55.0
76	8	4	2200	217	5.50	10.0	210.0	.0	.0	230.0
76	8	4	2300	217	5.00	90.0	315.0	.0	.0	335.0
76	8	5	0	218	4.00	115.0	360.0	.0	.0	360.0
76	8	5	100	218	3.00	75.0	165.0	.0	.0	185.0
76	8	5	200	218	3.50	70.0	95.0	.0	.0	115.0
76	8	5	300	218	3.00	90.0	65.0	.0	.0	80.0
76	8	5	400	218	3.00	50.0	80.0	.0	.0	95.0
76	8	5	500	218	3.00	25.0	140.0	.0	.0	175.0
76	8	5	600	218	3.50	60.0	165.0	.0	.0	180.0
76	8	5	700	218	2.00	60.0	150.0	.0	.0	215.0
76	8	5	800	218	2.50	5.0	100.0	.0	.0	150.0
76	8	5	900	218	3.00	315.0	190.0	.0	.0	245.0
76	8	5	1000	218	4.00	275.0	155.0	.0	.0	165.0
76	8	5	1100	218	6.00	245.0	80.0	.0	.0	115.0
76	8	5	1200	218	5.00	250.0	50.0	.0	.0	95.0
76	8	5	1300	218	5.00	240.0	50.0	.0	.0	85.0
76	8	5	1400	218	4.00	235.0	125.0	.0	.0	170.0
76	8	5	1500	218	6.00	170.0	125.0	.0	.0	170.0
76	8	5	1600	218	6.50	225.0	115.0	.0	.0	215.0
5	5	5	1700	218	2.00	225.0	115.0	.0	.0	215.0

(C-2)

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	8	5	1800	218	4.00	95.0	215.0	0	.0	240.0		
76	8	5	1900	218	3.50	350.0	70.0	0	.0	95.0		
76	8	5	2000	218	4.00	340.0	90.0	0	.0	125.0		
76	8	5	2100	218	2.00	155.0	360.0	0	.0	360.0		
76	8	5	2200	218	3.00	135.0	150.0	0	.0	185.0		
76	8	5	2300	218	3.00	55.0	205.0	0	.0	280.0		
76	8	6	0	219	5.00	65.0	195.0	0	.0	220.0		
76	8	6	100	219	4.00	60.0	280.0	0	.0	325.0		
76	8	6	200	219	4.00	55.0	145.0	0	.0	165.0		
76	8	6	300	219	3.00	35.0	130.0	0	.0	180.0		
76	8	6	400	219	3.50	70.0	130.0	0	.0	165.0		
76	8	6	500	219	4.00	55.0	80.0	0	.0	90.0		
76	8	6	600	219	4.00	70.0	170.0	0	.0	190.0		
76	8	6	700	219	3.50	15.0	240.0	0	.0	260.0		
76	8	6	800	219	2.50	110.0	235.0	0	.0	265.0		
76	8	6	900	219	4.00	325.0	360.0	0	.0	360.0		
76	8	6	1000	219	7.00	205.0	75.0	0	.0	105.0		
76	8	6	1100	219	8.50	155.0	45.0	0	.0	85.0		
76	8	6	1200	219	10.00	175.0	60.0	0	.0	115.0		
76	8	6	1300	219	8.00	175.0	65.0	0	.0	110.0		
76	8	6	1400	219	7.00	200.0	130.0	0	.0	160.0		
76	8	6	1500	219	11.00	165.0	75.0	0	.0	110.0		
76	8	6	1600	219	12.50	180.0	45.0	0	.0	80.0		
76	8	6	1700	219	10.00	180.0	25.0	0	.0	55.0		
76	8	6	1800	219	10.00	185.0	20.0	0	.0	50.0		
76	8	6	1900	219	9.50	165.0	15.0	0	.0	45.0		
76	8	6	2000	219	8.50	155.0	25.0	0	.0	55.0		
76	8	6	2100	219	7.50	160.0	40.0	0	.0	60.0		
76	8	6	2200	219	8.00	160.0	55.0	0	.0	75.0		
76	8	6	2300	219	6.00	100.0	65.0	0	.0	85.0		
76	8	7	0	220	6.00	90.0	45.0	0	.0	60.0		
76	8	7	100	220	7.00	85.0	35.0	0	.0	45.0		
76	8	7	200	220	7.00	90.0	20.0	0	.0	40.0		
76	8	7	300	220	6.00	105.0	155.0	0	1.0	180.0		
76	8	7	400	220	7.00	95.0	40.0	0	1.0	60.0		
76	8	7	500	220	7.00	105.0	105.0	0	1.0	130.0		
76	8	7	600	220	7.00	100.0	70.0	0	1.0	90.0		
76	8	7	700	220	6.00	90.0	125.0	0	1.0	155.0		
76	8	7	800	220	5.50	95.0	310.0	0	1.0	330.0		
76	8	7	900	220	7.00	155.0	50.0	0	1.0	70.0		
76	8	7	1000	220	8.00	140.0	50.0	0	1.0	70.0		
76	8	7	1100	220	8.00	145.0	65.0	0	1.0	90.0		
76	8	7	1200	220	7.00	150.0	175.0	0	1.0	190.0		
76	8	7	1300	220	7.00	135.0	95.0	0	1.0	120.0		
76	8	7	1400	220	8.00	175.0	100.0	0	1.0	130.0		
76	8	7	1500	220	8.00	190.0	35.0	0	1.0	60.0		
76	8	7	1600	220	9.00	190.0	30.0	0	1.0	60.0		
76	8	7	1700	220	9.00	210.0	125.0	0	1.0	160.0		
76	8	7	1800	220	7.50	293.0	360.0	0	1.0	350.0		
76	8	7	1900	220	5.00	281.0	360.0	0	1.0	360.0		
76	8	7	2000	220	5.50	295.0	140.0	0	.0	160.0		
76	8	7	2100	220	4.50	255.0	200.0	0	.0	215.0		
76	8	7	2200	220	5.00	65.0	295.0	0	1.0	320.0		
76	8	7	2300	220	6.00	115.0	115.0	0	1.0	140.0		

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS		STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC		DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	8	8	0	221	6.00	110.0	80.0	.0	.0	110.0
76	8	8	100	221	5.50	210.0	295.0	.0	.0	360.0
76	8	8	200	221	4.00	45.0	85.0	.0	.0	150.0
76	8	8	300	221	5.50	40.0	130.0	.0	.0	140.0
76	8	8	400	221	5.00	30.0	120.0	.0	.0	150.0
76	8	8	500	221	6.00	25.0	360.0	.0	.0	360.0
76	8	8	600	221	5.00	30.0	135.0	.0	.0	165.0
76	8	8	700	221	5.00	70.0	130.0	.0	.0	155.0
76	8	8	800	221	8.00	90.0	100.0	.0	.0	135.0
76	8	8	900	221	14.00	140.0	40.0	.0	.0	65.0
76	8	8	1000	221	9.50	155.0	80.0	.0	.0	100.0
76	8	8	1100	221	7.00	175.0	115.0	.0	.0	200.0
76	8	8	1200	221	9.50	150.0	65.0	.0	.0	95.0
76	8	8	1300	221	13.00	200.0	40.0	.0	.0	60.0
76	8	8	1400	221	11.00	205.0	35.0	.0	.0	55.0
76	8	8	1500	221	8.50	195.0	40.0	.0	.0	70.0
76	8	8	1600	221	9.00	180.0	45.0	.0	.0	65.0
76	8	8	1700	221	10.00	200.0	275.0	.0	.0	330.0
76	8	8	1800	221	9.50	305.0	105.0	.0	.0	135.0
76	8	8	1900	221	5.50	285.0	55.0	.0	.0	75.0
76	8	8	2000	221	5.00	300.0	135.0	.0	.0	165.0
76	8	8	2100	221	4.00	310.0	195.0	.0	.0	235.0
76	8	8	2200	221	4.50	70.0	360.0	.0	.0	360.0
76	8	8	2300	221	6.50	125.0	110.0	.0	.0	130.0
76	8	9	0	222	5.00	15.0	200.0	.0	1.0	210.0
76	8	9	100	222	4.00	195.0	360.0	.0	1.0	360.0
76	8	9	200	222	4.50	60.0	190.0	.0	1.0	220.0
76	8	9	300	222	3.50	5.0	170.0	.0	.0	190.0
76	8	9	400	222	4.50	45.0	170.0	.0	1.0	240.0
76	8	9	500	222	5.00	20.0	115.0	.0	.0	180.0
76	8	9	600	222	4.00	20.0	200.0	.0	.0	225.0
75	8	9	700	222	4.50	60.0	155.0	.0	.0	195.0
76	8	9	800	222	3.50	345.0	165.0	.0	.0	195.0
76	8	9	900	222	5.50	150.0	360.0	.0	1.0	360.0
76	8	9	1000	222	5.50	220.0	65.0	.0	1.0	95.0
76	8	9	1100	222	7.00	200.0	45.0	.0	1.0	70.0
76	8	9	1200	222	6.00	215.0	55.0	.0	1.0	80.0
76	8	9	1300	222	5.00	210.0	40.0	.0	1.0	80.0
76	8	9	1400	222	5.00	210.0	190.0	.0	1.0	215.0
76	8	9	1500	222	5.50	235.0	125.0	.0	1.0	205.0
76	8	9	1600	222	6.00	240.0	75.0	.0	1.0	90.0
76	8	9	1700	222	7.50	245.0	30.0	.0	1.0	55.0
76	8	9	1800	222	7.00	305.0	120.0	.0	.0	145.0
76	8	9	1900	222	6.00	285.0	60.0	.0	.0	90.0
76	8	9	2000	222	4.00	330.0	160.0	.0	.0	180.0
76	8	9	2100	222	3.50	5.0	205.0	.0	.0	295.0
76	8	9	2200	222	3.00	110.0	230.0	.0	1.0	250.0
75	8	9	2300	222	5.00	55.0	160.0	.0	.0	180.0
76	8	10	0	223	3.50	270.0	360.0	.0	.0	360.0
76	8	10	100	223	4.50	105.0	360.0	.0	.0	360.0
75	8	10	200	223	6.00	60.0	160.0	.0	.0	215.0
76	8	10	300	223	6.50	50.0	60.0	.0	.0	80.0
76	8	10	400	223	4.50	55.0	55.0	.0	.0	100.0
			10				1		.0	14

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2	MAY 19-AUG 27	H E CHAMER CO INC			DATE 11/06/76	PAGE	
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	8	10	600	223	5.00	35.0	135.0	.0	.0	225.0
76	8	10	700	223	5.50	40.0	210.0	.0	.0	235.0
76	8	10	800	223	4.50	25.0	240.0	.0	.0	255.0
76	8	10	900	223	4.00	200.0	360.0	.0	.0	360.0
76	8	10	1000	223	5.00	245.0	350.0	.0	.0	360.0
76	8	10	1100	223	6.00	220.0	125.0	.0	.0	155.0
76	8	10	1200	223	5.50	195.0	130.0	.0	.0	160.0
76	8	10	1300	223	5.50	195.0	140.0	.0	.0	185.0
76	8	10	1400	223	7.00	145.0	350.0	.0	.0	360.0
76	8	10	1500	223	12.50	170.0	75.0	.0	.0	105.0
76	8	10	1600	223	7.00	235.0	115.0	.0	.0	230.0
76	8	10	1700	223	9.00	220.0	35.0	.0	.0	55.0
76	8	10	1800	223	9.00	285.0	20.0	.0	.0	40.0
76	8	10	1900	223	c.0	265.0	40.0	.0	.0	65.0
76	8	10	2000	223	5.50	275.0	130.0	.0	.0	160.0
76	8	10	2100	223	4.00	95.0	165.0	.0	.0	185.0
76	8	10	2200	223	5.00	55.0	325.0	.0	.0	340.0
76	8	10	2300	223	6.00	120.0	150.0	.0	.0	165.0
76	8	11	0	224	5.50	10.0	360.0	.0	1.0	360.0
76	8	11	100	224	4.50	350.0	345.0	.0	1.0	360.0
76	8	11	200	224	5.00	125.0	60.0	.0	1.0	85.0
76	8	11	300	224	4.50	20.0	390.0	.0	1.0	320.0
76	8	11	400	224	5.00	20.0	210.0	.0	.0	230.0
76	8	11	500	224	5.00	30.0	80.0	.0	.0	120.0
76	8	11	600	224	5.00	55.0	155.0	.0	.0	165.0
76	8	11	700	224	5.50	20.0	115.0	.0	.0	130.0
76	8	11	800	224	3.50	30.0	140.0	.0	.0	175.0
76	8	11	900	224	4.50	25.0	145.0	.0	.0	210.0
76	8	11	1000	224	5.50	235.0	265.0	.0	1.0	290.0
76	8	11	1100	224	5.00	190.0	175.0	.0	1.0	205.0
76	8	11	1200	224	5.00	160.0	360.0	.0	1.0	360.0
76	8	11	1300	224	5.50	145.0	125.0	.0	1.0	185.0
76	8	11	1400	224	5.50	160.0	145.0	.0	1.0	190.0
76	8	11	1500	224	7.00	175.0	70.0	.0	.0	105.0
76	8	11	1600	224	9.00	260.0	170.0	.0	1.0	225.0
76	8	11	1700	224	11.00	315.0	60.0	.0	1.0	115.0
76	8	11	1800	224	6.50	305.0	95.0	.0	.0	130.0
76	8	11	1900	224	5.50	290.0	35.0	.0	.0	50.0
76	8	11	2000	224	6.00	285.0	360.0	.0	1.0	350.0
76	8	11	2100	224	4.00	10.0	355.0	.0	.0	360.0
76	8	11	2200	224	6.00	240.0	90.0	.0	1.0	105.0
76	8	11	2300	224	5.50	250.0	200.0	.0	1.0	225.0
76	8	12	0	225	5.00	350.0	210.0	.0	.0	240.0
76	8	12	100	225	6.00	50.0	360.0	.0	.0	360.0
76	8	12	200	225	9.00	85.0	100.0	.0	.0	120.0
76	8	12	300	225	6.00	350.0	360.0	.0	.0	360.0
76	8	12	400	225	5.00	55.0	135.0	.0	.0	150.0
76	8	12	500	225	5.00	30.0	120.0	.0	.0	145.0
76	8	12	600	225	6.00	35.0	145.0	.0	.0	165.0
76	8	12	700	225	5.00	35.0	160.0	.0	.0	170.0
76	8	12	800	225	5.50	65.0	105.0	.0	.0	205.0
76	8	12	900	225	5.00	245.0	180.0	.0	.0	235.0
76	8	12	1000	225	5.00	230.0	190.0	.0	.0	360.0
76	8	12	1100	225	5.00	200.0	355.0	.0	.0	360.0

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRRAY ANALYSIS		STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC		DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA.	PEAK TO PEAK
76	8	12	1200	225	9.00	165.0	205.0	.0	.0	235.0
76	8	12	1300	225	6.00	150.0	360.0	.0	.0	360.0
76	8	12	1400	225	6.00	140.0	80.0	.0	.0	105.0
76	8	12	1500	225	5.00	155.0	140.0	.0	.0	180.0
76	8	12	1600	225	5.00	190.0	120.0	.0	.0	160.0
76	8	12	1700	225	4.00	75.0	360.0	.0	.0	360.0
76	8	12	1800	225	4.00	125.0	140.0	.0	.0	170.0
76	8	12	1900	225	2.50	85.0	360.0	.0	.0	360.0
76	8	12	2000	225	3.00	45.0	190.0	.0	.0	210.0
76	8	12	2100	225	3.00	120.0	225.0	.0	.0	245.0
76	8	12	2200	225	4.00	120.0	315.0	.0	.0	345.0
76	8	12	2300	225	5.00	40.0	150.0	.0	.0	165.0
76	8	13	0	226	4.00	335.0	360.0	.0	1.0	360.0
76	8	13	100	226	7.00	65.0	80.0	.0	.0	100.0
76	8	13	200	226	8.00	95.0	65.0	.0	1.0	85.0
76	8	13	300	226	6.00	85.0	40.0	.0	.0	60.0
76	8	13	400	226	8.00	85.0	190.0	.0	1.0	250.0
76	8	13	500	226	9.50	105.0	20.0	.0	1.0	40.0
76	8	13	600	226	9.00	95.0	15.0	.0	.0	25.0
76	8	13	700	226	4.00	20.0	360.0	.0	1.0	360.0
76	8	13	800	226	6.00	120.0	115.0	.0	1.0	135.0
76	8	13	900	226	6.00	195.0	90.0	.0	1.0	110.0
76	8	13	1000	226	5.00	210.0	160.0	.0	1.0	260.0
76	8	13	1100	226	5.00	210.0	65.0	.0	1.0	100.0
76	8	13	1200	226	5.00	250.0	50.0	.0	1.0	80.0
75	8	13	1300	226	5.00	195.0	75.0	.0	1.0	115.0
76	8	13	1400	226	5.00	165.0	120.0	.0	1.0	155.0
76	8	13	1500	226	4.00	175.0	330.0	.0	1.0	360.0
76	8	13	1600	226	3.50	145.0	115.0	.0	1.0	155.0
76	8	13	1700	226	4.50	25.0	125.0	.0	1.0	170.0
76	8	13	1800	226	4.50	250.0	50.0	.0	.0	70.0
76	8	13	1900	226	5.00	250.0	60.0	.0	.0	80.0
76	8	13	2000	226	4.00	325.0	150.0	.0	.0	175.0
76	8	13	2100	226	4.00	145.0	155.0	.0	1.0	125.0
76	8	13	2200	226	4.00	70.0	140.0	.0	1.0	175.0
76	8	13	2300	226	4.00	65.0	240.0	.0	1.0	310.0
76	8	14	0	227	3.50	73.0	105.0	.0	.0	223.0
76	8	14	100	227	5.00	80.0	110.0	.0	.0	140.0
76	8	14	200	227	5.00	60.0	140.0	.0	.0	205.0
76	8	14	300	227	5.50	15.0	220.0	.0	.0	280.0
76	8	14	400	227	5.00	40.0	165.0	.0	.0	205.0
76	8	14	500	227	5.00	60.0	55.0	.0	.0	70.0
76	8	14	600	227	5.00	10.0	170.0	.0	.0	190.0
76	8	14	700	227	5.00	30.0	215.0	.0	.0	260.0
75	8	14	800	227	4.50	120.0	360.0	.0	.0	360.0
76	8	14	900	227	6.50	95.0	95.0	.0	.0	120.0
76	8	14	1000	227	7.50	120.0	50.0	.0	.0	90.0
76	8	14	1100	227	7.50	145.0	25.0	.0	.0	55.0
76	8	14	1200	227	6.50	140.0	45.0	.0	.0	85.0
76	8	14	1300	227	5.00	165.0	55.0	.0	.0	145.0
76	8	14	1400	227	4.50	25.0	145.0	.0	.0	180.0
76	8	14	1500	227	4.50	170.0	360.0	.0	.0	360.0
76	8	14	1600	227	5.00	175.0	180.0	.0	.0	275.0

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS			STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC			DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK		
76	8	14	1800	227	8.00	185.0	30.0	.0	.0	50.0		
76	8	14	1900	227	7.50	180.0	25.0	.0	.0	50.0		
76	8	14	2000	227	6.50	150.0	60.0	.0	.0	90.0		
76	8	14	2100	227	8.00	125.0	60.0	.0	.0	90.0		
76	8	14	2200	227	6.50	115.0	65.0	.0	.0	85.0		
76	8	14	2300	227	6.00	100.0	45.0	.0	.0	75.0		
76	8	15	0	228	5.50	130.0	75.0	.0	1.0	105.0		
76	8	15	100	228	5.50	115.0	80.0	.0	1.0	115.0		
76	8	15	200	228	5.00	100.0	55.0	.0	1.0	80.0		
75	8	15	300	228	5.50	100.0	40.0	.0	1.0	60.0		
76	8	15	400	228	5.00	160.0	70.0	.0	1.0	80.0		
76	8	15	500	228	7.50	200.0	360.0	.0	1.0	360.0		
76	8	15	600	228	8.50	195.0	95.0	.0	1.0	125.0		
76	8	15	700	228	6.50	145.0	115.0	.0	1.0	135.0		
76	8	15	800	228	8.00	155.0	105.0	.0	1.0	135.0		
76	8	15	900	228	10.50	160.0	85.0	.0	1.0	115.0		
76	8	15	1000	228	7.00	165.0	205.0	.0	.0	230.0		
76	8	15	1100	228	7.00	95.0	85.0	.0	.0	115.0		
76	8	15	1200	228	6.50	145.0	110.0	.0	.0	135.0		
76	8	15	1300	228	6.00	130.0	115.0	.0	.0	160.0		
76	8	15	1400	228	11.00	115.0	70.0	.0	.0	110.0		
76	8	15	1500	228	11.00	120.0	40.0	.0	.0	60.0		
76	8	15	1600	228	10.00	160.0	75.0	.0	.0	145.0		
76	8	15	1700	228	10.50	255.0	155.0	.0	.0	210.0		
76	8	15	1800	228	10.00	255.0	40.0	.0	.0	65.0		
76	8	15	1900	228	10.50	315.0	15.0	.0	.0	50.0		
76	8	15	2000	228	9.50	295.0	25.0	.0	.0	45.0		
76	8	15	2100	228	7.00	265.0	30.0	.0	.0	50.0		
76	8	15	2200	228	6.00	290.0	145.0	.0	.0	185.0		
76	8	15	2300	228	5.50	260.0	230.0	.0	.0	285.0		
76	8	16	0	229	5.50	290.0	115.0	.0	.0	150.0		
76	8	16	100	229	7.00	295.0	70.0	.0	.0	135.0		
76	8	16	200	229	5.50	340.0	130.0	.0	.0	175.0		
76	8	16	300	229	5.00	305.0	185.0	.0	.0	230.0		
76	8	16	400	229	5.00	25.0	125.0	.0	.0	155.0		
76	8	16	500	229	4.50	35.0	150.0	.0	.0	180.0		
76	8	16	600	229	4.50	15.0	195.0	.0	.0	250.0		
76	8	16	700	229	4.00	10.0	240.0	.0	.0	355.0		
76	8	16	800	229	4.50	360.0	110.0	.0	.0	235.0		
76	8	16	900	229	4.50	45.0	360.0	.0	.0	360.0		
76	8	16	1000	229	6.00	215.0	360.0	.0	.0	360.0		
76	8	16	1100	229	5.00	205.0	360.0	.0	.0	360.0		
76	8	16	1200	229	5.00	190.0	350.0	.0	.0	360.0		
76	8	16	1300	229	5.00	195.0	60.0	.0	.0	110.0		
76	8	16	1400	229	4.50	175.0	360.0	.0	.0	360.0		
76	8	16	1500	229	4.00	155.0	360.0	.0	.0	360.0		
76	8	16	1600	229	4.00	115.0	360.0	.0	.0	360.0		
75	8	16	1700	229	3.50	60.0	360.0	.0	.0	360.0		
76	8	16	1800	229	4.50	270.0	195.0	.0	.0	240.0		
76	8	16	1900	229	5.00	230.0	35.0	.0	.0	55.0		
76	8	16	2000	229	5.00	265.0	125.0	.0	.0	185.0		
75	8	16	2100	229	3.00	140.0	350.0	.0	.0	360.0		
76	8	16	2200	229	3.50	15.0	255.0	.0	.0	300.0		
76	8	16	2300	229	6.00	65.0	65.0	.0	.0	80.0		

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS STATION ID-GENVO2 MAY 19-AUG 27								H E CRAMER CO INC		DATE 11/06/76	PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	8	17	0	230	6.00	115.0	50.0	.0	1.0	70.0	
76	8	17	100	230	6.50	105.0	40.0	.0	1.0	70.0	
76	8	17	200	230	5.00	120.0	85.0	.0	1.0	120.0	
76	8	17	300	230	6.50	100.0	20.0	.0	1.0	40.0	
76	8	17	400	230	6.00	100.0	25.0	.0	1.0	50.0	
76	8	17	500	230	4.00	90.0	105.0	.0	1.0	175.0	
76	8	17	600	230	5.50	105.0	145.0	.0	1.0	170.0	
76	8	17	700	230	5.50	130.0	115.0	.0	1.0	145.0	
76	8	17	800	230	5.50	155.0	65.0	.0	1.0	100.0	
76	8	17	900	230	7.00	135.0	35.0	.0	1.0	55.0	
76	8	17	1000	230	7.00	150.0	35.0	.0	1.0	70.0	
76	8	17	1100	230	5.50	155.0	85.0	.0	1.0	115.0	
75	8	17	1200	230	7.00	150.0	100.0	.0	1.0	155.0	
75	8	17	1300	230	5.50	145.0	80.0	.0	1.0	110.0	
76	8	17	1400	230	4.50	140.0	360.0	.0	1.0	350.0	
76	8	17	1500	230	4.00	190.0	190.0	.0	1.0	275.0	
76	8	17	1600	230	4.50	125.0	150.0	.0	1.0	195.0	
76	8	17	1700	230	5.50	135.0	55.0	.0	1.0	80.0	
76	8	17	1800	230	4.50	105.0	125.0	.0	1.0	155.0	
76	8	17	1900	230	6.50	130.0	70.0	.0	1.0	95.0	
76	8	17	2000	230	6.50	120.0	55.0	.0	1.0	75.0	
76	8	17	2100	230	11.50	115.0	55.0	.0	1.0	75.0	
76	8	17	2200	230	6.50	120.0	75.0	.0	1.0	95.0	
76	8	17	2300	230	4.00	215.0	205.0	.0	1.0	260.0	
76	8	18	0	231	4.50	6.0	360.0	.0	1.0	360.0	
76	8	18	100	231	6.00	120.0	25.0	.0	1.0	195.0	
76	8	18	200	231	8.50	135.0	50.0	.0	1.0	110.0	
76	8	18	300	231	7.00	65.0	50.0	.0	1.0	70.0	
76	8	18	400	231	6.00	125.0	80.0	.0	1.0	100.0	
76	8	18	500	231	6.50	140.0	105.0	.0	1.0	130.0	
76	8	18	600	231	4.50	125.0	105.0	.0	1.0	135.0	
76	8	18	700	231	5.00	215.0	270.0	.0	1.0	300.0	
76	8	18	800	231	4.00	60.0	110.0	.0	1.0	125.0	
76	8	18	900	231	6.50	105.0	65.0	.0	1.0	85.0	
76	8	18	1000	231	6.00	165.0	65.0	.0	1.0	80.0	
76	8	18	1100	231	5.50	145.0	75.0	.0	1.0	100.0	
76	8	18	1200	231	7.50	135.0	95.0	.0	1.0	115.0	
76	8	18	1300	231	7.00	150.0	135.0	.0	1.0	190.0	
76	8	18	1400	231	6.50	155.0	155.0	.0	1.0	200.0	
76	8	18	1500	231	6.00	155.0	135.0	.0	1.0	175.0	
76	8	18	1600	231	7.00	155.0	105.0	.0	1.0	140.0	
76	8	18	1700	231	7.00	155.0	90.0	.0	1.0	115.0	
76	8	18	1800	231	6.50	155.0	60.0	.0	1.0	110.0	
76	8	18	1900	231	5.50	155.0	60.0	.0	1.0	95.0	
75	8	18	2000	231	5.00	130.0	135.0	.0	1.0	175.0	
76	8	18	2100	231	5.50	75.0	35.0	.0	1.0	50.0	
76	8	18	2200	231	7.50	10.0	135.0	.0	1.0	155.0	
76	8	18	2300	231	9.50	255.0	60.0	.0	1.0	85.0	
76	8	19	0	232	6.50	265.0	45.0	.0	1.0	80.0	
76	8	19	100	232	5.50	10.0	305.0	.0	1.0	320.0	
76	8	19	200	232	5.00	165.0	220.0	.0	1.0	245.0	
76	8	19	300	232	8.00	110.0	40.0	.0	1.0	60.0	
76	8	19	400	232	0	0	0	.0	1.0		

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS STATION IQ-GENVQ2 MAY 19-AUG 27								H E CRAMER CO INC	DATE 11/06/76	PAGE	
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK	
76	8	19	600	232	5.00	20.0	135.0	.0	.0	165.0	
76	8	19	700	232	4.50	60.0	50.0	.0	.0	80.0	
76	8	19	800	232	5.50	125.0	150.0	.0	1.0	190.0	
76	8	19	900	232	6.00	195.0	65.0	.0	.0	100.0	
76	8	19	1000	232	6.00	210.0	40.0	.0	1.0	65.0	
76	8	19	1100	232	6.00	210.0	30.0	.0	1.0	70.0	
76	8	19	1200	232	7.00	215.0	35.0	.0	1.0	70.0	
76	8	19	1300	232	6.50	205.0	240.0	.0	1.0	285.0	
76	8	19	1400	232	5.50	195.0	195.0	.0	1.0	250.0	
76	8	19	1500	232	4.50	195.0	360.0	.0	1.0	360.0	
76	8	19	1600	232	4.50	315.0	310.0	.0	1.0	360.0	
76	8	19	1700	232	5.50	345.0	65.0	.0	1.0	175.0	
76	8	19	1800	232	7.50	360.0	120.0	.0	0.0	165.0	
76	8	19	1900	232	7.50	295.0	45.0	.0	0.0	60.0	
76	8	19	2000	232	6.50	285.0	25.0	.0	0.0	50.0	
76	8	19	2100	232	3.50	60.0	360.0	.0	1.0	360.0	
76	8	19	2200	232	4.50	95.0	255.0	.0	1.0	275.0	
76	8	19	2300	232	7.50	165.0	115.0	.0	1.0	140.0	
76	8	20	0	233	8.00	95.0	70.0	.0	0.0	100.0	
76	8	20	100	233	4.50	65.0	155.0	.0	0.0	200.0	
76	8	20	200	233	4.50	15.0	165.0	.0	0.0	240.0	
76	8	20	300	233	5.00	45.0	230.0	.0	0.0	265.0	
76	8	20	400	233	5.00	50.0	110.0	.0	0.0	160.0	
76	8	20	500	233	4.50	50.0	155.0	.0	0.0	195.0	
76	8	20	600	233	6.00	30.0	165.0	.0	0.0	235.0	
76	8	20	700	233	5.50	65.0	100.0	.0	0.0	125.0	
76	8	20	800	233	5.50	25.0	195.0	.0	0.0	240.0	
76	8	20	900	233	5.00	25.0	150.0	.0	0.0	240.0	
76	8	20	1000	233	4.50	200.0	360.0	.0	0.0	360.0	
76	8	20	1100	233	6.00	215.0	60.0	.0	0.0	90.0	
76	8	20	1200	233	6.00	220.0	55.0	.0	0.0	90.0	
76	8	20	1300	233	5.50	221.0	35.0	.0	0.0	65.0	
76	8	20	1400	233	2.50	245.0	360.0	.0	0.0	360.0	
76	8	20	1500	233	3.00	25.0	280.0	.0	0.0	350.0	
76	8	20	1600	233	3.00	25.0	110.0	.0	0.0	200.0	
76	8	20	1700	233	2.00	165.0	275.0	.0	0.0	325.0	
76	8	20	1800	233	3.50	265.0	55.0	.0	0.0	85.0	
76	8	20	1900	233	2.50	315.0	70.0	.0	0.0	90.0	
76	8	20	2000	233	2.00	345.0	235.0	.0	0.0	265.0	
76	8	20	2100	233	77.70	777.7	777.7	.0	0.0	777.7	
76	8	20	2200	233	6.00	135.0	60.0	.0	0.0	75.0	
76	8	20	2300	233	6.00	120.0	85.0	.0	0.0	110.0	
76	8	21	0	234	2.00	360.0	355.0	.0	0.0	360.0	
76	8	21	100	234	2.00	50.0	160.0	.0	0.0	205.0	
76	8	21	200	234	2.00	85.0	130.0	.0	0.0	160.0	
76	8	21	300	234	2.00	70.0	65.0	.0	0.0	110.0	
76	8	21	400	234	2.00	55.0	100.0	.0	0.0	130.0	
76	8	21	500	234	2.50	60.0	95.0	.0	0.0	110.0	
76	8	21	600	234	4.00	60.0	110.0	.0	0.0	145.0	
76	8	21	700	234	2.00	55.0	80.0	.0	0.0	105.0	
76	8	21	800	234	5.00	85.0	75.0	.0	0.0	105.0	
76	8	21	900	234	4.00	305.0	230.0	.0	1.0	260.0	
76	8	21	1000	234	4.50	260.0	35.0	.0	1.0	55.0	
76	8	21	1100	234	4.00	250.0	40.0	.0	1.0	65.0	

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS STATION ID-GENV02 MAY 19-AUG 27				H E CRAMER CO INC				DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	8	21	1200	234	2.50	235.0	35.0	.0	1.0	75.0
76	8	21	1300	234	3.00	255.0	40.0	.0	1.0	70.0
76	8	21	1400	234	3.50	255.0	40.0	.0	1.0	70.0
76	8	21	1500	234	2.00	235.0	45.0	.0	1.0	85.0
76	8	21	1600	234	5.00	250.0	50.0	.0	1.0	90.0
76	8	21	1700	234	6.00	275.0	35.0	.0	1.0	60.0
76	8	21	1800	234	6.00	305.0	80.0	.0	1.0	105.0
76	8	21	1900	234	4.00	320.0	50.0	.0	.0	80.0
76	8	21	2000	234	2.50	90.0	265.0	.0	1.0	285.0
76	8	21	2100	234	3.50	10.0	340.0	.0	1.0	360.0
76	8	21	2200	234	2.50	65.0	145.0	.0	.0	160.0
75	8	21	2300	234	2.50	45.0	75.0	.0	.0	95.0
76	8	22	0	235	3.00	55.0	235.0	.0	.0	250.0
76	8	22	100	235	3.00	80.0	195.0	.0	.0	210.0
76	8	22	200	235	3.00	240.0	360.0	.0	.0	360.0
76	8	22	300	235	5.50	100.0	180.0	.0	.0	220.0
76	8	22	400	235	6.00	125.0	60.0	.0	.0	95.0
76	8	22	500	235	4.50	65.0	200.0	.0	.0	330.0
76	8	22	600	235	4.00	40.0	360.0	.0	.0	350.0
76	8	22	700	235	3.00	140.0	175.0	.0	.0	210.0
76	8	22	800	235	3.00	10.0	175.0	.0	.0	210.0
76	8	22	900	235	4.00	305.0	50.0	.0	.0	140.0
76	8	22	1000	235	5.00	255.0	95.0	.0	.0	140.0
76	8	22	1100	235	4.50	300.0	210.0	.0	.0	250.0
76	8	22	1200	235	7.50	205.0	225.0	.0	.0	250.0
76	8	22	1300	235	9.50	105.0	65.0	.0	.0	90.0
76	8	22	1400	235	10.00	150.0	115.0	.0	.0	155.0
76	8	22	1500	235	12.00	175.0	55.0	.0	.0	80.0
76	8	22	1600	235	8.50	100.0	40.0	.0	.0	70.0
76	8	22	1700	235	6.50	325.0	250.0	.0	.0	235.0
76	8	22	1800	235	10.50	130.0	220.0	.0	.0	260.0
76	8	22	1900	235	7.00	145.0	80.0	.0	.0	120.0
76	8	22	2000	235	11.00	145.0	80.0	.0	.0	120.0
76	8	22	2100	235	11.50	100.0	130.0	.0	.0	150.0
76	8	22	2200	235	4.00	185.0	225.0	.0	.0	255.0
76	8	22	2300	235	8.50	125.0	35.0	.0	.0	55.0
76	8	23	0	236	7.50	175.0	115.0	.0	1.0	140.0
76	8	23	100	236	5.50	150.0	155.0	.0	1.0	175.0
76	8	23	200	236	6.50	195.0	180.0	.0	1.0	205.0
76	8	23	300	236	7.50	230.0	180.0	.0	1.0	230.0
76	8	23	400	236	6.50	340.0	190.0	.0	1.0	250.0
76	8	23	500	236	5.50	65.0	225.0	.0	1.0	260.0
76	8	23	600	236	4.00	65.0	210.0	.0	1.0	240.0
76	8	23	700	236	3.00	170.0	350.0	.0	1.0	360.0
76	8	23	800	236	3.50	250.0	255.0	.0	1.0	295.0
76	8	23	900	236	4.00	120.0	215.0	.0	1.0	265.0
76	8	23	1000	236	3.50	200.0	360.0	.0	1.0	360.0
76	8	23	1100	236	5.00	210.0	190.0	.0	1.0	250.0
76	8	23	1200	236	6.00	250.0	150.0	.0	1.0	130.0
76	8	23	1300	236	3.50	225.0	360.0	.0	1.0	360.0
76	8	23	1400	236	5.50	275.0	120.0	.0	1.0	180.0
76	8	23	1500	236	10.00	305.0	110.0	.0	1.0	140.0
76	8	23	1600	236	8.50	320.0	95.0	.0	.0	130.0
		23			3.				7	

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS			STATION ID-GENVQ2	MAY 19-AUG 27	H E CRAMER CO INC			DATE 11/06/76	PAGE	
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	8	23	1800	236	13.00	335.0	20.0	.0	.0	40.0
76	8	23	1900	236	6.50	330.0	65.0	.0	.0	135.0
76	8	23	2000	236	3.50	260.0	205.0	.0	1.0	235.0
76	8	23	2100	236	5.50	315.0	125.0	.0	1.0	150.0
76	8	23	2200	236	4.00	90.0	195.0	.0	1.0	230.0
76	8	23	2300	236	4.50	40.0	85.0	.0	.0	110.0
76	8	24	0	237	3.50	70.0	295.0	.0	1.00	340.0
76	8	24	100	237	3.00	20.0	220.0	.0	.0	255.0
76	8	24	200	237	3.00	45.0	135.0	.0	.0	165.0
76	8	24	300	237	2.50	30.0	170.0	.0	.0	205.0
76	8	24	400	237	3.50	50.0	60.0	.0	.0	100.0
76	8	24	500	237	4.00	70.0	55.0	.0	.0	75.0
76	8	24	600	237	4.00	35.0	60.0	.0	.0	110.0
76	8	24	700	237	2.50	70.0	165.0	.0	.0	220.0
76	8	24	800	237	3.00	35.0	105.0	.0	.0	135.0
76	8	24	900	237	3.50	355.0	250.0	.0	.0	310.0
76	8	24	1000	237	4.00	255.0	245.0	.0	.0	280.0
76	8	24	1100	237	6.50	225.0	35.0	.0	.0	65.0
76	8	24	1200	237	6.50	220.0	30.0	.0	.0	60.0
76	8	24	1300	237	6.50	210.0	20.0	.0	.0	55.0
76	8	24	1400	237	6.50	225.0	25.0	.0	.0	65.0
76	8	24	1500	237	5.50	235.0	45.0	.0	.0	75.0
75	8	24	1600	237	5.00	245.0	100.0	.0	.0	135.0
76	8	24	1700	237	6.50	255.0	25.0	.0	.0	60.0
76	8	24	1800	237	6.00	250.0	90.0	.0	.0	110.0
76	8	24	1900	237	5.00	320.0	35.0	.0	.0	55.0
75	8	24	2000	237	3.50	310.0	120.0	.0	.0	150.0
76	8	24	2100	237	3.00	280.0	265.0	.0	.0	320.0
76	8	24	2200	237	5.00	135.0	95.0	.0	.0	115.0
76	8	24	2300	237	7.00	135.0	45.0	.0	.0	65.0
76	8	25	0	238	6.00	140.0	130.0	.0	1.0	155.0
76	8	25	100	238	3.50	220.0	360.0	.0	1.0	360.0
76	8	25	200	238	3.50	25.0	155.0	.0	.0	195.0
76	8	25	300	238	3.50	35.0	185.0	.0	1.0	260.0
76	8	25	400	238	3.50	55.0	80.0	.0	.0	100.0
76	8	25	500	238	3.03	70.0	65.0	.0	.0	85.0
76	8	25	600	238	4.00	85.0	45.0	.0	.0	65.0
76	8	25	700	238	3.50	50.0	65.0	.0	.0	95.0
76	8	25	800	238	3.00	55.0	60.0	.0	.0	105.0
76	8	25	900	238	3.50	20.0	135.0	.0	.0	195.0
76	8	25	1000	238	5.00	170.0	305.0	.0	1.0	360.0
76	8	25	1100	238	6.00	115.0	190.0	.0	1.0	250.0
75	8	25	1200	238	7.50	265.0	135.0	.0	1.0	290.0
76	8	25	1300	238	6.00	250.0	40.0	.0	1.0	65.0
76	8	25	1400	238	5.50	195.0	105.0	.0	1.0	140.0
76	8	25	1500	238	9.00	155.0	50.0	.0	1.0	90.0
76	8	25	1600	238	7.53	150.0	95.0	.0	1.0	135.0
76	8	25	1700	238	6.51	155.0	100.0	.0	1.0	145.0
76	8	25	1800	238	7.33	163.0	70.0	.0	1.0	90.0
76	8	25	1900	238	8.00	140.0	60.0	.0	1.0	90.0
75	8	25	2000	238	6.09	95.0	20.0	.0	.0	45.0
76	8	25	2100	238	6.00	115.0	40.0	.0	.0	55.0
76	8	25	2200	238	6.00	160.0	360.0	.0	1.0	360.0
76	8	25	2300	238	5.50	50.0	170.0	.0	.0	205.0

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

AIRWAY ANALYSIS				STATION ID-GENVO2		MAY 19-AUG 27		H E CRAMER CO INC		DATE 11/06/76		PAGE
YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK		
76	8	26	0	239	4.00	50.0	165.0	.0	.0	215.0		
76	8	26	100	239	6.00	60.0	25.0	.0	.0	100.0		
76	8	26	200	239	5.50	110.0	105.0	.0	.0	135.0		
76	8	26	300	239	4.00	55.0	205.0	.0	.0	265.0		
75	8	26	400	239	3.00	95.0	240.0	.0	.0	275.0		
76	8	26	500	239	3.50	125.0	265.0	.0	.0	305.0		
76	8	26	600	239	3.50	45.0	225.0	.0	.0	245.0		
76	8	26	700	239	3.00	150.0	245.0	.0	.0	285.0		
76	8	26	800	239	4.00	10.0	70.0	.0	.0	95.0		
76	8	26	900	239	4.50	305.0	85.0	.0	.0	110.0		
75	8	26	1000	239	10.00	315.0	65.0	.0	.0	105.0		
76	8	26	1100	239	14.00	35.0	35.0	.0	.0	50.0		
76	8	26	1200	239	13.50	35.0	35.0	.0	.0	55.0		
76	8	26	1300	239	15.50	330.0	30.0	.0	.0	50.0		
75	8	26	1400	239	21.00	330.0	30.0	.0	.0	50.0		
76	8	26	1500	239	14.00	335.0	75.0	.0	.0	100.0		
76	8	26	1600	239	13.50	320.0	45.0	.0	.0	70.0		
76	8	26	1700	239	16.00	320.0	30.0	.0	.0	65.0		
76	8	26	1800	239	14.00	315.0	40.0	.0	.0	65.0		
76	8	26	1900	239	11.00	315.0	15.0	.0	.0	50.0		
76	8	26	2000	239	10.00	320.0	15.0	.0	.0	35.0		
75	8	26	2100	239	10.50	295.0	25.0	.0	.0	45.0		
75	8	26	2200	239	12.50	300.0	20.0	.0	.0	50.0		
76	8	26	2300	239	12.00	310.0	30.0	.0	.0	45.0		
76	8	27	0	240	9.00	320.0	55.0	.0	.0	80.0		
75	8	27	100	240	8.50	350.0	95.0	.0	.0	130.0		
75	8	27	200	240	5.00	20.0	110.0	.0	.0	145.0		
76	8	27	300	240	4.50	110.0	190.0	.0	1.0	220.0		
76	8	27	400	240	4.50	55.0	140.0	.0	1.0	170.0		
76	8	27	500	240	3.00	60.0	135.0	.0	.0	170.0		
76	8	27	600	240	2.50	45.0	110.0	.0	.0	135.0		
76	8	27	700	240	2.50	100.0	130.0	.0	1.0	160.0		
76	8	27	800	240	3.50	60.0	80.0	.0	1.0	105.0		
76	8	27	900	240	3.50	310.0	360.0	.0	1.0	360.0		
76	8	27	1000	240	5.00	190.0	330.0	.0	1.0	360.0		
76	8	27	1100	240	6.00	235.0	65.0	.0	1.0	105.0		
76	8	27	1200	240	5.50	230.0	55.0	.0	1.0	100.0		
76	8	27	1300	240	6.00	240.0	120.0	.0	1.0	160.0		
76	8	27	1400	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	1500	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	1600	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	1700	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	1800	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	1900	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	2000	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	2100	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	2200	240	99.90	999.9	999.9	.0	.0	999.9		
76	8	27	2300	240	99.90	999.9	999.9	.0	.0	999.9		

DATA FROM THE AIRPORT WEATHER STATION

(2-2)

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/10/76

PAGE

PROJ STATION YEAR MONTH DAY HOUR JULIAN WIND SPEED WIND DIRECTION RANGE PEAK TO PEAK WIND SECTOR (Calm = 77---) (MISSING = 99---)

(LOC) DAY (MPH) (deg) (deg) (deg) Hivol Ind.

GLENVO	2	70	8	27	14	240	6.0	245.0	50.0	100.0	1
GLENVO	2	70	8	27	15	240	7.0	265.0	145.0	195.0	1
GLENVO	2	70	8	27	16	240	7.5	265.0	105.0	140.0	1
GLENVO	2	70	8	27	17	240	8.5	295.0	35.0	95.0	0
GLENVO	2	70	8	27	18	240	7.5	300.0	45.0	75.0	
GLENVO	2	70	8	27	19	240	5.5	315.0	40.0	70.0	
GLENVO	2	70	8	27	20	240	4.0	300.0	155.0	215.0	
GLENVO	2	70	8	27	21	240	3.5	50.0	225.0	255.0	
GLENVO	2	70	8	27	22	240	3.5	170.0	360.0	360.0	1
GLENVO	2	70	8	27	23	240	4.0	90.0	180.0	225.0	1
GLENVO	2	70	8	28	0	241	3.5	95.0	360.0	360.0	0
GLENVO	2	70	8	28	1	241	4.0	15.0	130.0	210.0	
GLENVO	2	70	8	28	2	241	5.0	65.0	85.0	95.0	
GLENVO	2	70	8	28	3	241	3.5	30.0	75.0	105.0	
GLENVO	2	70	8	28	4	241	3.5	70.0	65.0	90.0	
GLENVO	2	70	8	28	5	241	4.0	60.0	45.0	60.0	
GLENVO	2	70	8	28	6	241	3.5	30.0	55.0	90.0	
GLENVO	2	70	8	28	7	241	4.0	45.0	40.0	65.0	
GLENVO	2	70	8	28	8	241	2.5	30.0	140.0	180.0	
GLENVO	2	70	8	28	9	241	3.5	325.0	125.0	175.0	
GLENVO	2	70	8	28	10	241	4.0	35.0	150.0	310.0	
GLENVO	2	70	8	28	11	241	6.0	190.0	310.0	360.0	
GLENVO	2	70	8	28	12	241	0.5	230.0	45.0	75.0	
GLENVO	2	70	8	28	13	241	0.0	230.0	25.0	70.0	
GLENVO	2	70	8	28	14	241	0.5	220.0	25.0	55.0	
GLENVO	2	70	8	28	15	241	5.5	215.0	30.0	65.0	
GLENVO	2	70	8	28	16	241	0.0	215.0	30.0	65.0	
GLENVO	2	70	8	28	17	241	6.0	280.0	175.0	215.0	
GLENVO	2	70	8	28	18	241	6.5	315.0	90.0	125.0	
GLENVO	2	70	8	28	19	241	5.0	305.0	35.0	70.0	
GLENVO	2	70	8	28	20	241	5.5	310.0	75.0	110.0	
GLENVO	2	70	8	28	21	241	3.5	115.0	270.0	285.0	
GLENVO	2	70	8	28	22	241	4.5	145.0	150.0	190.0	
GLENVO	2	70	8	28	23	241	5.5	125.0	40.0	65.0	
GLENVO	2	70	8	29	0	242	4.0	135.0	295.0	325.0	1
GLENVO	2	70	8	29	1	242	3.0	30.0	190.0	255.0	1
GLENVO	2	70	8	29	2	242	4.5	90.0	345.0	360.0	1
GLENVO	2	70	8	29	3	242	5.0	70.0	185.0	215.0	1
GLENVO	2	70	8	29	4	242	3.0	320.0	310.0	340.0	1
GLENVO	2	70	8	29	5	242	3.0	90.0	190.0	215.0	1
GLENVO	2	70	8	29	6	242	4.0	50.0	135.0	150.0	1
GLENVO	2	70	8	29	7	242	4.0	65.0	95.0	110.0	
GLENVO	2	70	8	29	8	242	3.5	25.0	80.0	105.0	0
GLENVO	2	70	8	29	9	242	4.0	125.0	315.0	360.0	1
GLENVO	2	70	8	29	10	242	4.5	275.0	275.0	310.0	1
GLENVO	2	70	8	29	11	242	5.0	285.0	270.0	305.0	1
GLENVO	2	70	8	29	12	242	0.0	235.0	25.0	50.0	1
GLENVO	2	70	8	29	13	242	0.0	235.0	20.0	55.0	1
GLENVO	2	70	8	29	14	242	0.0	235.0	40.0	60.0	1
GLENVO	2	70	8	29	15	242	5.5	225.0	35.0	70.0	1
GLENVO	2	70	8	29	16	242	5.0	235.0	45.0	80.0	1
GLENVO	2	70	8	29	17	242	5.0	260.0	55.0	85.0	1

Table C-2 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - LATE SUMMER

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/10/76

PAGE

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN DAY	WIND SPEED (MPH)	WIND DIRECTION (DLG)	RANGE (DEG)	PEAK TO PEAK (DEG)	WIND SECTOR HIVOL IND.	(Calm = 77--) (Missing = 99--)
	GENVO	2	76	8	29	18	242	5.0	285.0	45.0	70.0	1
	GLNVO	2	76	8	29	19	242	5.0	320.0	160.0	120.0	0
	GENVO	2	76	8	29	20	242	3.5	280.0	310.0	335.0	0
	GLNVO	2	76	8	29	21	242	3.0	195.0	180.0	250.0	1
	GENVO	2	76	8	29	22	242	4.5	150.0	160.0	195.0	1
	GLNVO	2	76	8	29	23	242	3.5	315.0	305.0	340.0	1
	GENVO	2	76	8	30	0	243	2.5	350.0	360.0	360.0	0
	GLNVO	2	76	8	30	1	243	3.5	45.0	145.0	170.0	0
	GENVO	2	76	8	30	2	243	4.0	35.0	205.0	235.0	0
	GLNVO	2	76	8	30	3	243	4.5	85.0	350.0	360.0	0
	GENVO	2	76	8	30	4	243	3.5	25.0	175.0	220.0	0
	GLNVO	2	76	8	30	5	243	3.5	45.0	295.0	330.0	0
	GENVO	2	76	8	30	6	243	3.0	45.0	70.0	105.0	0
	GLNVO	2	76	8	30	7	243	3.5	65.0	120.0	155.0	0
	GENVO	2	76	8	30	8	243	3.0	100.0	185.0	235.0	0
	GLNVO	2	76	8	30	9	243	4.0	230.0	95.0	100.0	0
	GENVO	2	76	8	30	10	243	4.5	240.0	70.0	120.0	0
	GLNVO	2	76	8	30	11	243	4.0	245.0	60.0	120.0	0
	GENVO	2	76	8	30	12	243	5.0	215.0	110.0	155.0	0
	GLNVO	2	76	8	30	13	243	6.0	230.0	45.0	100.0	0
	GENVO	2	76	8	30	14	243	5.0	230.0	170.0	230.0	0
	GLNVO	2	76	8	30	15	243	9.0	350.0	210.0	245.0	0
	GENVO	2	76	8	30	16	243	10.0	335.0	15.0	45.0	0
	GLNVO	2	76	8	30	17	243	10.5	335.0	20.0	40.0	0
	GENVO	2	76	8	30	18	243	16.5	335.0	15.0	40.0	0
	GLNVO	2	76	8	30	19	243	11.0	325.0	20.0	40.0	0
	GENVO	2	76	8	30	20	243	7.5	335.0	160.0	205.0	0
	GLNVO	2	76	8	30	21	243	3.0	240.0	360.0	360.0	0
	GENVO	2	76	8	30	22	243	3.0	15.0	360.0	360.0	0
	GLNVO	2	76	8	30	23	243	4.0	175.0	360.0	360.0	0
	GENVO	2	76	8	31	0	244	3.0	35.0	250.0	295.0	1
	GLNVO	2	76	8	31	1	244	4.0	100.0	360.0	360.0	1
	GENVO	2	76	8	31	2	244	4.0	60.0	360.0	360.0	1
	GLNVO	2	76	8	31	3	244	3.5	65.0	155.0	200.0	0
	GENVO	2	76	8	31	4	244	4.5	35.0	105.0	130.0	0
	GLNVO	2	76	8	31	5	244	3.5	50.0	80.0	100.0	0
	GENVO	2	76	8	31	6	244	4.0	35.0	195.0	240.0	0
	GLNVO	2	76	8	31	7	244	3.5	50.0	115.0	165.0	0
	GENVO	2	76	8	31	8	244	3.0	75.0	65.0	95.0	0
	GLNVO	2	76	8	31	9	244	3.5	175.0	265.0	320.0	1
	GENVO	2	76	8	31	10	244	6.0	265.0	85.0	120.0	1
	GLNVO	2	76	8	31	11	244	0.0	235.0	45.0	70.0	1
	GENVO	2	76	8	31	12	244	6.0	235.0	50.0	90.0	1
	GLNVO	2	76	8	31	13	244	6.5	225.0	20.0	55.0	1
	GENVO	2	76	8	31	14	244	7.0	240.0	115.0	180.0	1
	GLNVO	2	76	8	31	15	244	12.5	310.0	55.0	85.0	0
	GENVO	2	76	8	31	16	244	14.5	315.0	25.0	60.0	0
	GLNVO	2	76	8	31	17	244	14.0	320.0	35.0	60.0	0
	GENVO	2	76	8	31	18	244	12.5	320.0	35.0	65.0	1
	GLNVO	2	76	8	31	19	244	9.5	315.0	25.0	50.0	0
	GENVO	2	76	8	31	20	244	8.5	350.0	55.0	95.0	0
	GLNVO	2	76	8	31	21	244	5.0	340.0	205.0	245.0	1

Table C-3
HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7								H E CRAMER CO INC	DATE 12/15/76	PAGE
YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	1	0	245	3.50	270.0	360.0	.0	.0	360.0
76	9	1	10	245	4.00	50.0	155.0	.0	.0	185.0
76	9	1	200	245	3.50	45.0	250.0	.0	.0	285.0
76	9	1	300	245	3.00	265.0	360.0	.0	.0	360.0
76	9	1	400	245	3.00	75.0	360.0	.0	.0	360.0
76	9	1	500	245	3.00	225.0	360.0	.0	.0	360.0
76	9	1	600	245	3.50	25.0	360.0	.0	.0	360.0
76	9	1	700	245	3.00	35.0	250.0	.0	.0	300.0
76	9	1	800	245	3.00	15.0	285.0	.0	.0	345.0
76	9	1	900	245	3.00	145.0	345.0	.0	.0	360.0
76	9	1	1000	245	4.00	240.0	160.0	.0	.0	210.0
76	9	1	1100	245	5.50	230.0	40.0	.0	.0	85.0
76	9	1	1200	245	6.00	240.0	35.0	.0	.0	65.0
76	9	1	1300	245	6.00	260.0	35.0	.0	.0	85.0
76	9	1	1400	245	6.50	245.0	40.0	.0	.0	70.0
76	9	1	1500	245	7.00	245.0	45.0	.0	.0	85.0
76	9	1	1600	245	6.50	220.0	30.0	.0	.0	60.0
76	9	1	1700	245	6.00	280.0	85.0	.0	.0	110.0
76	9	1	1800	245	7.50	330.0	35.0	.0	.0	60.0
76	9	1	1900	245	6.00	325.0	90.0	.0	.0	115.0
76	9	1	2000	245	3.50	325.0	130.0	.0	.0	175.0
76	9	1	2100	245	4.00	180.0	190.0	.0	.0	220.0
76	9	1	2200	245	3.50	85.0	205.0	.0	.0	300.0
76	9	1	2300	245	3.00	70.0	185.0	.0	.0	220.0
76	9	2	0	246	3.50	55.0	260.0	.0	.0	230.0
76	9	2	100	246	3.00	35.0	140.0	.0	.0	175.0
76	9	2	200	246	4.50	75.0	115.0	.0	1.0	145.0
76	9	2	300	246	5.50	190.0	255.0	.0	1.0	305.0
76	9	2	400	246	3.50	45.0	80.0	.0	.0	95.0
76	9	2	500	246	3.00	50.0	85.0	.0	.0	110.0
76	9	2	600	246	4.50	50.0	45.0	.0	.0	60.0
76	9	2	700	246	3.00	40.0	85.0	.0	.0	195.0
76	9	2	800	246	2.50	45.0	110.0	.0	.0	140.0
76	9	2	900	246	3.50	305.0	135.0	.0	1.0	235.0
76	9	2	1000	246	3.50	290.0	265.0	.0	1.0	345.0
76	9	2	1100	246	7.00	190.0	125.0	.0	1.0	175.0
76	9	2	1200	246	6.00	150.0	110.0	.0	1.0	155.0
76	9	2	1300	246	6.50	150.0	120.0	.0	1.0	265.0
76	9	2	1400	246	7.00	170.0	190.0	.0	1.0	255.0
76	9	2	1500	246	6.00	175.0	180.0	.0	1.0	260.0
76	9	2	1600	246	7.50	165.0	120.0	.0	1.0	195.0
76	9	2	1700	246	6.00	175.0	45.0	.0	1.0	90.0
76	9	2	1800	246	4.50	150.0	190.0	.0	1.0	240.0
76	9	2	1900	246	4.00	300.0	120.0	.0	.0	145.0
76	9	2	2000	246	4.00	55.0	160.0	.0	.0	205.0
76	9	2	2100	246	4.00	305.0	235.0	.0	1.0	275.0
76	9	2	2200	246	4.00	100.0	235.0	.0	1.0	205.0
76	9	2	2300	246	4.00	45.0	170.0	.0	.0	195.0
76	9	3	0	247	3.00	45.0	235.0	.0	.0	290.0
76	9	3	100	247	3.50	63.0	125.0	.0	.0	140.0
76	9	3	200	247	4.00	50.0	95.0	.0	.0	130.0
76	9	3	300	247	4.00	40.0	45.0	.0	.0	60.0
76	9	3	400	247	4.00	65.0	100.0	.0	.0	115.0
76	9	3	500	247	3.00	55.0	175.0	.0	.0	230.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVOZ SEPT 1-NOV 7 H E CRAYER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIA. DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	9	3	630	247	3.50	35.0	95.0	.0	.0	120.0
76	9	3	730	247	3.00	75.0	65.0	.0	.0	100.0
76	9	3	830	247	2.50	35.0	125.0	.0	.0	150.0
76	9	3	930	247	3.50	25.0	125.0	.0	.0	190.0
76	9	3	1030	247	4.50	155.0	360.0	.0	.0	360.0
76	9	3	1130	247	6.50	245.0	55.0	.0	.0	90.0
76	9	3	1230	247	5.50	245.0	55.0	.0	.0	100.0
76	9	3	1330	247	5.50	245.0	25.0	.0	.0	60.0
76	9	3	1430	247	5.00	230.0	40.0	.0	.0	85.0
76	9	3	1530	247	5.00	230.0	10.0	.0	.0	55.0
76	9	3	1630	247	5.00	95.0	200.0	.0	.0	245.0
76	9	3	1730	247	8.00	320.0	95.0	.0	.0	120.0
76	9	3	1830	247	9.50	320.0	15.0	.0	.0	40.0
76	9	3	1930	247	5.50	330.0	20.0	.0	.0	35.0
76	9	3	2030	247	6.00	330.0	235.0	.0	.0	245.0
76	9	3	2130	247	4.00	175.0	180.0	.0	.0	220.0
76	9	3	2230	247	4.00	150.0	275.0	.0	.0	290.0
76	9	3	2330	247	6.50	70.0	325.0	.0	.0	345.0
76	9	4	0	248	4.00	60.0	225.0	.0	.0	265.0
76	9	4	100	248	3.50	330.0	360.0	1.0	1.0	360.0
76	9	4	200	243	4.00	55.0	125.0	.0	.0	130.0
76	9	4	300	248	5.00	130.0	160.0	.0	1.0	190.0
76	9	4	400	248	4.00	50.0	120.0	.0	1.0	155.0
76	9	4	500	243	4.00	45.0	225.0	.0	1.0	255.0
76	9	4	600	243	5.50	75.0	200.0	.0	1.0	205.0
76	9	4	700	243	3.00	25.0	125.0	.0	.0	115.0
76	9	4	800	243	3.00	45.0	95.0	.0	.0	115.0
76	9	4	900	243	5.00	150.0	255.0	.0	1.0	300.0
76	9	4	1000	243	4.00	25.0	155.0	.0	1.0	165.0
76	9	4	1100	248	5.50	255.0	140.0	.0	1.0	265.0
76	9	4	1200	248	5.50	240.0	105.0	.0	1.0	150.0
76	9	4	1300	245	6.00	240.0	20.0	.0	1.0	80.0
76	9	4	1400	243	6.50	240.0	25.0	.0	1.0	50.0
76	9	4	1500	243	5.00	245.0	120.0	.0	1.0	155.0
76	9	4	1600	242	5.00	205.0	110.0	.0	1.0	120.0
76	9	4	1700	243	5.50	265.0	65.0	.0	1.0	110.0
76	9	4	1800	246	7.00	330.0	70.0	.0	.0	65.0
76	9	4	1900	243	5.50	315.0	50.0	.0	.0	70.0
76	9	4	2000	243	3.50	291.0	315.0	.0	1.0	360.0
76	9	4	2100	248	5.00	230.0	155.0	.0	1.0	215.0
76	9	4	2200	243	4.00	120.0	150.0	.0	1.0	170.0
76	9	4	2300	243	3.00	175.0	360.0	1.0	1.0	360.0
76	9	5	0	249	3.50	100.0	300.0	.0	.0	360.0
76	9	5	100	249	4.00	55.0	65.0	.0	.0	120.0
76	9	5	200	249	4.00	40.0	140.0	.0	.0	185.0
76	9	5	300	249	3.50	160.0	360.0	.0	.0	360.0
76	9	5	400	249	77.70	777.7	777.7	.0	.0	777.7
76	9	5	500	249	5.50	125.0	300.0	.0	.0	360.0
76	9	5	600	249	3.51	31.0	120.0	.0	.0	130.0
76	9	5	700	249	2.50	50.0	240.0	.0	.0	20.0
76	9	5	800	249	2.50	20.0	75.0	.0	.0	100.0
76	9	5	900	249	3.00	345.0	235.0	.0	.0	345.0
76	9	5	1000	249	3.50	40.0	225.0	.0	.0	265.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-10V 7 H E CRANE CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIAN DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	9	5	1200	249	5.50	230.0	50.0	.0	.0	100.0
76	9	5	1300	249	6.00	245.0	15.0	.0	.0	55.0
76	9	5	1400	249	5.50	235.0	50.0	.0	.0	80.0
76	9	5	1500	249	6.50	220.0	20.0	.0	.0	35.0
76	9	5	1600	249	7.00	215.0	30.0	.0	.0	45.0
76	9	5	1700	249	6.00	195.0	120.0	.0	.0	145.0
76	9	5	1800	249	6.50	160.0	125.0	.0	.0	145.0
76	9	5	1900	249	6.50	125.0	245.0	.0	.0	270.0
76	9	5	2000	249	12.50	175.0	45.0	.0	.0	75.0
76	9	5	2100	249	12.50	155.0	40.0	.0	.0	70.0
76	9	5	2200	249	12.00	145.0	15.0	.0	.0	35.0
76	9	5	2300	249	10.00	100.0	105.0	.0	.0	145.0
76	9	6	00	250	7.50	110.0	90.0	.0	.0	110.0
76	9	6	100	250	7.00	115.0	145.0	.0	1.0	170.0
76	9	6	200	250	7.00	155.0	100.0	.0	1.0	125.0
76	9	6	300	250	4.50	13.0	90.0	.0	1.0	120.0
76	9	6	400	250	4.50	110.0	55.0	.0	1.0	105.0
76	9	6	500	250	4.50	130.0	110.0	.0	1.0	145.0
76	9	6	600	250	5.00	115.0	65.0	.0	1.0	105.0
76	9	6	700	250	5.00	150.0	110.0	.0	1.0	125.0
76	9	6	800	250	5.00	155.0	60.0	.0	1.0	90.0
76	9	6	900	250	5.50	200.0	345.0	.0	1.0	360.0
76	9	6	1000	250	7.50	125.0	70.0	.0	1.0	100.0
76	9	6	1100	250	7.50	160.0	50.0	.0	1.0	120.0
76	9	6	1200	250	8.00	150.0	70.0	.0	1.0	135.0
76	9	6	1300	250	7.50	150.0	75.0	.0	1.0	195.0
76	9	6	1400	250	9.5	165.0	35.0	.0	1.0	75.0
76	9	6	1500	250	10.00	175.0	30.0	.0	1.0	70.0
76	9	6	1600	250	10.00	325.0	360.0	.0	1.0	360.0
76	9	6	1700	250	10.00	28.0	210.0	.0	1.0	240.0
76	9	6	1800	250	17.50	345.0	25.0	.0	1.0	40.0
76	9	6	1900	250	17.50	340.0	25.0	.0	1.0	40.0
76	9	6	2000	250	17.50	335.0	30.0	.0	1.0	55.0
76	9	6	2100	250	12.50	335.0	295.0	.0	1.0	310.0
76	9	6	2200	250	8.00	305.0	125.0	.0	1.0	135.0
76	9	6	2300	250	3.50	3.5.0	70.0	.0	.0	140.0
76	9	7	00	251	2.50	45.0	225.0	.0	.0	250.0
76	9	7	100	251	3.00	25.0	190.0	.0	.0	195.0
76	9	7	200	251	5.00	15.0	145.0	.0	.0	165.0
76	9	7	300	251	3.50	35.0	115.0	.0	.0	130.0
76	9	7	400	251	3.00	30.0	165.0	.0	.0	245.0
76	9	7	500	251	10.00	320.0	135.0	.0	.0	145.0
76	9	7	600	251	5.00	270.0	360.0	.0	.0	360.0
76	9	7	700	251	3.50	291.0	230.0	.0	.0	240.0
76	9	7	800	251	2.50	30.0	250.0	.0	.0	360.0
76	9	7	900	251	6.00	320.0	105.0	.0	.0	130.0
76	9	7	1000	251	3.50	301.0	240.0	.0	.0	290.0
76	9	7	1100	251	4.50	270.0	125.0	.0	.0	155.0
76	9	7	1200	251	5.00	295.0	35.0	.0	.0	70.0
76	9	7	1300	251	10.00	340.0	25.0	.0	.0	45.0
76	9	7	1400	251	12.50	315.0	45.0	.0	.0	70.0
76	9	7	1500	251	9.50	315.0	45.0	.0	.0	65.0
76	9	7	1600	251	9.00	295.0	35.0	.0	.0	70.0
76	9	7	1700	251	8.50	290.0	5.0	.0	.0	45.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7							H E CRAMER CO INC	DATE 12/15/76	PAGE		
YEAR	MONTH	DAY	HOUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK

76	9	7	1800	251	8.50	295.0	25.0	.0	.0	.0	40.0
76	9	7	1900	251	6.00	305.0	30.0	.0	.0	.0	45.0
76	9	7	2000	251	5.00	325.0	90.0	.0	.0	.0	100.0
76	9	7	2100	251	5.50	295.0	40.0	.0	.0	.0	50.0
76	9	7	2200	251	3.50	345.0	250.0	.0	.0	.0	265.0
76	9	7	2300	251	3.50	125.0	145.0	.0	.0	.0	180.0
76	9	8	00	252	4.00	15.0	100.0	.0	.0	.0	130.0
76	9	8	100	252	77.70	777.7	777.7	.0	.0	.0	777.7
76	9	8	200	252	77.70	777.7	777.7	.0	.0	.0	777.7
76	9	8	300	252	77.70	777.7	777.7	.0	.0	.0	777.7
76	9	8	400	252	5.50	160.0	30.0	.0	.0	.0	35.0
76	9	8	500	252	4.00	175.0	255.0	.0	.0	.0	265.0
76	9	8	600	252	3.50	15.0	235.0	.0	.0	.0	275.0
76	9	8	700	252	77.70	777.7	777.7	.0	.0	.0	777.7
76	9	8	800	252	2.00	130.0	300.0	.0	.0	.0	350.0
76	9	8	900	252	4.50	265.0	35.0	.0	.0	.0	80.0
76	9	8	1000	252	0.50	265.0	15.0	.0	.0	.0	60.0
76	9	8	1100	252	0.50	251.0	35.0	.0	.0	.0	100.0
76	9	8	1200	252	6.50	200.0	125.0	.0	.0	.0	165.0
76	9	8	1300	252	0.50	275.0	110.0	.0	.0	.0	160.0
76	9	8	1400	252	12.50	295.0	20.0	.0	.0	.0	65.0
76	9	8	1500	252	15.00	290.0	15.0	.0	.0	.0	60.0
76	9	8	1600	252	11.50	301.0	45.0	.0	.0	.0	80.0
76	9	8	1700	252	11.00	315.0	30.0	.0	.0	.0	65.0
76	9	8	1800	252	6.00	305.0	25.0	.0	.0	.0	55.0
76	9	8	1900	252	4.00	305.0	55.0	.0	.0	.0	80.0
76	9	8	2000	252	4.50	315.0	100.0	.0	.0	.0	125.0
76	9	8	2100	252	5.50	315.0	140.0	.0	.0	.0	145.0
76	9	8	2200	252	4.50	45.0	115.0	.0	.0	.0	130.0
76	9	8	2300	252	3.50	345.0	270.0	.0	.0	.0	265.0
76	9	9	00	253	3.50	05.0	165.0	.0	.0	.0	195.0
76	9	9	100	253	3.50	45.0	115.0	.0	.0	.0	145.0
76	9	9	200	253	3.00	60.0	90.0	.0	.0	.0	130.0
76	9	9	300	253	3.50	80.0	70.0	.0	.0	.0	75.0
76	9	9	400	253	3.50	32.0	120.0	.0	.0	.0	120.0
76	9	9	500	253	3.50	55.0	140.0	.0	.0	.0	150.0
76	9	9	600	253	3.50	55.0	115.0	.0	.0	.0	115.0
76	9	9	700	253	3.00	30.0	100.0	.0	.0	.0	130.0
76	9	9	800	253	2.00	30.0	65.0	.0	.0	.0	120.0
76	9	9	900	253	3.50	340.0	85.0	.0	.0	.0	130.0
76	9	9	1000	253	4.50	260.0	145.0	.0	.0	.0	195.0
76	9	9	1100	253	6.00	260.0	55.0	.0	.0	.0	130.0
76	9	9	1200	253	7.00	245.0	50.0	.0	.0	.0	110.0
76	9	9	1300	253	7.50	215.0	20.0	.0	.0	.0	60.0
76	9	9	1400	253	6.50	240.0	30.0	.0	.0	.0	75.0
76	9	9	1500	253	0.50	235.0	15.0	.0	.0	.0	65.0
76	9	9	1600	253	99.90	999.9	999.9	.0	.0	.0	999.9
76	9	9	1700	253	99.90	999.9	999.9	.0	.0	.0	999.9
76	9	9	1800	253	99.90	999.9	999.9	.0	.0	.0	999.9
76	9	9	1900	253	99.90	999.9	999.9	.0	.0	.0	999.9
76	9	9	2000	253	99.90	999.9	999.9	.0	.0	.0	999.9
76	9	9	2100	253	99.90	999.9	999.9	.0	.0	.0	999.9
76	9	9	2200	253	99.90	999.9	999.9	.0	.0	.0	999.9
76	9	9	2300	253	99.90	999.9	999.9	.0	.0	.0	999.9

Table C-3 (Continued)
HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION IC-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	DAY SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	10	0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	100	254	99.90	999.9	999.9	.0	.0	999.9
76	9	13	2.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	3.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	4.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	5.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	6.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	7.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	8.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	9.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	10.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	11.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	12.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	13.0	254	99.90	999.9	999.9	.0	.0	999.9
76	9	10	14.0	254	6.50	200.0	50.0	.0	.0	95.0
76	9	10	15.0	254	7.50	180.0	55.0	.0	.0	85.0
76	9	10	16.0	254	6.00	165.0	115.0	.0	.0	150.0
76	9	10	17.0	254	7.00	135.0	130.0	.0	.0	160.0
76	9	10	18.0	254	4.50	225.0	220.0	.0	.0	245.0
76	9	10	19.0	254	3.50	335.0	155.0	.0	.0	150.0
76	9	10	20.0	254	2.50	231.0	360.0	.0	.0	360.0
76	9	10	21.0	254	3.00	45.0	225.0	.0	.0	270.0
76	9	10	22.0	254	2.50	195.0	315.0	.0	.0	350.0
76	9	10	23.0	254	5.00	70.0	165.0	.0	.0	215.0
76	9	11	0	255	7.50	145.0	360.0	.0	.0	360.0
76	9	11	1.0	255	9.50	155.0	50.0	.0	.0	80.0
76	9	11	2.0	255	5.50	165.0	155.0	.0	.0	185.0
76	9	11	3.0	255	3.00	90.0	155.0	.0	.0	180.0
76	9	11	4.0	255	3.00	180.0	105.0	.0	.0	175.0
76	9	11	5.0	255	4.50	187.0	125.0	.0	.0	160.0
76	9	11	6.0	255	5.50	120.0	105.0	.0	.0	165.0
76	9	11	7.0	255	3.00	125.0	115.0	.0	.0	190.0
76	9	11	8.0	255	5.00	135.0	115.0	.0	.0	165.0
76	9	11	9.0	255	7.50	150.0	30.0	.0	.0	55.0
76	9	11	10.0	255	8.00	165.0	45.0	.0	.0	85.0
76	9	11	11.0	255	8.50	161.0	55.0	.0	.0	100.0
76	9	11	12.0	255	9.00	121.0	50.0	.0	.0	130.0
76	9	11	13.0	255	7.50	50.0	90.0	.0	.0	155.0
76	9	11	14.0	255	8.50	190.0	220.0	.0	.0	250.0
76	9	11	15.0	255	5.00	195.0	195.0	.0	.0	255.0
76	9	11	16.0	255	8.50	165.0	120.0	.0	.0	165.0
76	9	11	17.0	255	11.00	210.0	25.0	.0	.0	60.0
76	9	11	18.0	255	7.00	235.0	165.0	.0	.0	215.0
76	9	11	19.0	255	12.50	215.0	40.0	.0	.0	70.0
76	9	11	20.0	255	12.50	165.0	40.0	.0	.0	70.0
76	9	11	21.0	255	11.00	180.0	20.0	.0	.0	60.0
76	9	11	22.0	255	10.00	180.0	30.0	.0	.0	65.0
76	9	11	23.0	255	10.00	175.0	45.0	.0	.0	70.0
76	9	12	0	256	0.50	180.0	45.0	.0	1.0	70.0
76	9	12	1.0	256	9.50	175.0	30.0	.0	1.0	65.0
76	9	12	2.0	256	0.50	150.0	165.0	.0	1.0	145.0
76	9	12	3.0	256	7.00	160.0	140.0	.0	1.0	205.0
76	9	12	4.0	256	0.50	10.0	45.0	.0	1.0	70.0
76	9	12	5.0	256	0.50	10.0	30.0	.0	.0	55.0

(C-3)

Table C-3 (Continued)
HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENV02 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	12	600	256	4.50	95.0	45.0	.0	.0	65.0
76	9	12	700	256	2.50	60.0	35.0	.0	.0	95.0
76	9	12	800	256	77.70	777.7	777.7	.0	.0	777.7
76	9	12	900	256	2.00	275.0	360.0	.0	1.0	360.0
76	9	12	1000	256	4.00	220.0	80.0	.0	1.0	125.0
76	9	12	1100	256	6.00	210.0	45.0	.0	1.0	75.0
76	9	12	1200	256	6.00	215.0	65.0	.0	1.0	125.0
76	9	12	1300	256	5.50	220.0	65.0	.0	1.0	130.0
76	9	12	1400	256	7.00	240.0	50.0	.0	1.0	60.0
76	9	12	1500	256	8.00	230.0	130.0	.0	1.0	175.0
76	9	12	1600	256	9.50	290.0	50.0	.0	.0	90.0
76	9	12	1700	256	8.50	305.0	40.0	.0	.0	65.0
76	9	12	1800	256	7.50	310.0	15.0	.0	.0	50.0
76	9	12	1900	256	5.00	300.0	30.0	.0	.0	50.0
76	9	12	2000	256	4.50	355.0	65.0	.0	.0	105.0
76	9	12	2100	256	2.00	115.0	215.0	.0	.0	260.0
76	9	12	2200	256	2.50	100.0	225.0	.0	1.0	325.0
76	9	12	2300	256	2.00	45.0	150.0	.0	.0	195.0
76	9	13	0	257	2.00	35.0	75.0	.0	.0	145.0
76	9	13	100	257	2.50	35.0	130.0	.0	.0	165.0
76	9	13	200	257	2.00	90.0	185.0	.0	.0	215.0
76	9	13	300	257	3.00	65.0	135.0	.0	.0	160.0
76	9	13	400	257	3.50	105.0	235.0	.0	.0	260.0
76	9	13	500	257	3.50	65.0	250.0	.0	.0	265.0
76	9	13	600	257	3.50	30.0	160.0	.0	.0	160.0
76	9	13	700	257	3.50	330.0	360.0	.0	.0	345.0
76	9	13	800	257	5.50	150.0	135.0	.0	.0	160.0
76	9	13	900	257	10.50	115.0	50.0	.0	.0	60.0
76	9	13	1000	257	4.50	100.0	125.0	.0	.0	155.0
76	9	13	1100	257	4.00	140.0	190.0	.0	.0	220.0
76	9	13	1200	257	5.00	230.0	55.0	.0	.0	95.0
76	9	13	1300	257	4.50	220.0	50.0	.0	.0	115.0
76	9	13	1400	257	4.00	325.0	335.0	.0	.0	360.0
76	9	13	1500	257	5.50	225.0	60.0	.0	.0	90.0
76	9	13	1600	257	3.50	35.0	335.0	.0	.0	360.0
76	9	13	1700	257	6.00	230.0	15.0	.0	.0	50.0
76	9	13	1800	257	4.00	230.0	20.0	.0	.0	60.0
76	9	13	1900	257	4.50	310.0	120.0	.0	.0	145.0
76	9	13	2000	257	4.00	45.0	130.0	.0	.0	160.0
76	9	13	2100	257	3.50	275.0	250.0	.0	.0	305.0
76	9	13	2200	257	3.00	35.0	135.0	.0	.0	165.0
76	9	13	2300	257	2.00	2.00	155.0	.0	.0	205.0
76	9	14	0	258	2.50	50.0	125.0	.0	.0	170.0
76	9	14	100	258	2.00	360.0	245.0	.0	.0	355.0
76	9	14	200	258	3.00	30.0	160.0	.0	.0	245.0
76	9	14	300	258	3.50	45.0	85.0	.0	1.0	120.0
76	9	14	400	258	3.50	90.0	130.0	.0	1.0	170.0
76	9	14	500	258	3.00	40.0	60.0	.0	.0	100.0
76	9	14	600	258	2.50	55.0	60.0	.0	.0	80.0
76	9	14	700	258	2.50	55.0	55.0	.0	.0	30.0
76	9	14	800	258	2.00	50.0	110.0	.0	1.0	150.0
76	9	14	900	258	2.50	245.0	185.0	.0	1.0	280.0
76	9	14	1000	258	4.50	205.0	175.0	.0	1.0	245.0
		14			2.	1				30

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-361102 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	14	1200	258	5.00	225.0	35.0	.0	1.0	75.0
76	9	14	1300	258	4.50	225.0	45.0	.0	1.0	110.0
76	9	14	1400	253	6.50	240.0	25.0	.0	1.0	55.0
76	9	14	1500	253	5.00	225.0	75.0	.0	1.0	110.0
76	9	14	1600	259	5.50	193.0	120.0	.0	1.0	200.0
76	9	14	1700	258	5.00	215.0	145.0	.0	1.0	205.0
76	9	14	1800	258	5.00	270.0	120.0	.0	1.0	160.0
76	9	14	1900	253	4.50	330.0	105.0	.0	.0	140.0
76	9	14	2000	253	3.50	31.0	225.0	.0	1.0	235.0
76	9	14	2100	258	3.00	255.0	80.0	.0	1.0	110.0
76	9	14	2200	258	2.50	45.0	360.0	.0	1.0	360.0
76	9	14	2300	258	3.50	300.0	205.0	.0	1.0	260.0
76	9	15	0	259	2.50	35.0	105.0	.0	.0	140.0
76	9	15	100	259	3.00	65.0	120.0	.0	.0	135.0
76	9	15	200	259	3.00	60.0	115.0	.0	.0	140.0
76	9	15	300	259	2.50	80.0	215.0	.0	.0	235.0
76	9	15	400	257	2.50	75.0	205.0	.0	.0	225.0
76	9	15	500	259	3.50	75.0	130.0	.0	.0	155.0
76	9	15	600	259	2.50	70.0	155.0	.0	.0	175.0
76	9	15	700	259	3.00	45.0	95.0	.0	.0	120.0
76	9	15	800	259	2.50	75.0	105.0	.0	.0	160.0
76	9	15	900	259	2.00	85.0	215.0	.0	.0	240.0
76	9	15	1000	259	4.00	190.0	360.0	.0	.0	360.0
76	9	15	1100	259	5.50	225.0	35.0	.0	.0	75.0
76	9	15	1200	259	5.00	255.0	50.0	.0	.0	110.0
76	9	15	1300	259	5.00	215.0	55.0	.0	.0	95.0
76	9	15	1400	259	5.50	215.0	110.0	.0	.0	160.0
76	9	15	1500	259	7.00	170.0	105.0	.0	.0	140.0
76	9	15	1600	259	7.50	165.0	60.0	.0	.0	105.0
76	9	15	1700	259	10.00	145.0	90.0	.0	.0	110.0
76	9	15	1800	259	10.50	120.0	85.0	.0	.0	125.0
76	9	15	1900	259	5.00	230.0	140.0	.0	.0	165.0
76	9	15	2000	259	4.00	110.0	360.0	.0	.0	360.0
76	9	15	2100	259	2.50	100.0	350.0	.0	.0	360.0
76	9	15	2200	259	3.00	340.0	195.0	.0	.0	245.0
76	9	15	2300	259	3.00	150.0	265.0	.0	.0	290.0
76	9	16	0	260	3.00	30.0	130.0	.0	.0	165.0
76	9	16	100	260	2.00	35.0	165.0	.0	.0	215.0
76	9	16	200	260	2.50	75.0	100.0	.0	.0	115.0
76	9	16	300	260	2.50	20.0	360.0	.0	.0	360.0
76	9	16	400	260	2.50	110.0	360.0	.0	1.0	360.0
76	9	16	500	260	3.00	50.0	100.0	.0	.0	130.0
76	9	16	600	260	2.00	70.0	195.0	.0	1.0	235.0
76	9	16	700	260	3.50	330.0	265.0	.0	1.0	320.0
76	9	16	800	260	3.50	350.0	360.0	.0	1.0	360.0
76	9	16	900	260	7.50	15.0	50.0	.0	1.0	80.0
76	9	16	1000	260	5.50	190.0	135.0	.0	1.0	160.0
76	9	16	1100	260	7.00	185.0	70.0	.0	1.0	110.0
76	9	16	1200	260	8.00	20.0	70.0	.0	1.0	105.0
76	9	16	1300	260	8.00	190.0	65.0	.0	1.0	100.0
76	9	16	1400	260	5.00	225.0	145.0	.0	1.0	200.0
76	9	16	1500	260	4.50	245.0	140.0	.0	1.0	220.0
76	9	16	1600	260	5.00	240.0	55.0	.0	1.0	85.0
76	9	16	1700	260	4.50	210.0	110.0	.0	1.0	145.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIA.. DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	9	15	1600	260	7.00	130.0	305.0	.0	1.0	335.0
76	9	16	1900	200	7.50	90.0	230.0	.0	1.0	310.0
76	9	15	2000	280	6.50	120.0	130.0	.0	1.0	190.0
76	9	16	2100	201	7.00	125.0	75.0	.0	1.0	95.0
76	9	16	2200	250	3.00	20.0	265.0	.0	1.0	315.0
76	9	16	2300	250	3.00	65.0	225.0	.0	1.0	255.0
76	9	17	0	251	2.00	45.0	330.0	.0	.0	360.0
76	9	17	100	201	2.50	45.0	110.0	.0	.0	130.0
76	9	17	200	251	3.00	20.0	130.0	.0	.0	165.0
76	9	17	300	281	4.00	90.0	200.0	.0	.0	250.0
76	9	17	400	251	5.50	100.0	130.0	.0	.0	165.0
76	9	17	500	251	5.50	110.0	30.0	.0	.0	50.0
76	9	17	600	251	4.50	120.0	55.0	.0	.0	65.0
76	9	17	700	251	3.00	75.0	215.0	.0	.0	270.0
76	9	17	800	251	3.00	150.0	195.0	.0	.0	190.0
76	9	17	900	251	5.50	150.0	55.0	.0	.0	75.0
76	9	17	1000	251	7.50	155.0	90.0	.0	.0	175.0
76	9	17	1100	251	8.50	155.0	90.0	.0	.0	130.0
76	9	17	1200	251	7.50	150.0	85.0	.0	.0	120.0
76	9	17	1300	251	7.00	195.0	45.0	.0	.0	80.0
76	9	17	1400	201	7.00	165.0	115.0	.0	.0	165.0
76	9	17	1500	251	6.50	195.0	70.0	.0	.0	105.0
76	9	17	1600	251	5.00	185.0	85.0	.0	.0	125.0
76	9	17	1700	251	4.00	105.0	175.0	.0	.0	230.0
76	9	17	1800	201	10.50	275.0	205.0	.0	.0	245.0
76	9	17	1900	251	17.50	350.0	15.0	.0	.0	40.0
76	9	17	2000	251	12.50	325.0	120.0	.0	.0	155.0
76	9	17	2100	251	8.50	310.0	60.0	.0	.0	80.0
76	9	17	2200	251	5.00	220.0	360.0	.0	.0	360.0
76	9	17	2300	251	3.00	345.0	190.0	.0	.0	225.0
76	9	18	0	262	2.50	125.0	310.0	.0	.0	350.0
76	9	15	1000	202	5.00	325.0	345.0	.0	.0	360.0
76	9	18	200	252	3.00	45.0	110.0	.0	.0	140.0
76	9	18	300	252	5.00	80.0	100.0	.0	.0	125.0
76	9	18	400	252	3.00	360.0	65.0	.0	.0	90.0
76	9	18	500	252	3.00	65.0	120.0	.0	.0	145.0
76	9	18	600	252	77.70	777.7	777.7	.0	.0	777.7
76	9	18	700	252	3.00	70.0	60.0	.0	.0	80.0
76	9	18	800	252	2.00	35.0	135.0	.0	.0	275.0
76	9	18	900	252	3.50	350.0	360.0	.0	.0	360.0
76	9	18	1000	252	5.00	210.0	45.0	.0	.0	85.0
76	9	18	1100	252	6.00	215.0	75.0	.0	.0	225.0
76	9	18	1200	252	7.50	225.0	35.0	.0	.0	70.0
76	9	18	1300	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	1400	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	1500	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	1600	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	1700	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	1800	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	1900	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2000	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2100	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2200	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2300	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2400	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2500	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2600	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2700	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2800	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	2900	252	99.99	999.9	999.9	.0	.0	999.9
76	9	18	3000	252	99.99	999.9	999.9	.0	.0	999.9

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRRAY ANALYSIS STATION ID-GEIV02 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR WIND DIRECTION SPEED RANGE TEMPERATURE W.A. PEAK TO PEAK

76	9	19	0	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	100	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	200	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	300	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	400	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	500	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	600	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	700	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	800	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	900	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1000	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1100	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1200	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1300	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1400	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1500	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1600	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1700	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1800	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	1900	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	2000	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	2100	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	2200	263	99.90	999.9	999.9	.0	.0	999.9
76	9	19	2300	263	99.90	999.9	999.9	.0	.0	999.9
76	9	20	0	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	100	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	200	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	300	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	400	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	500	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	600	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	700	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	800	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	900	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1000	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1100	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1200	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1300	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1400	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1500	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1600	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1700	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1800	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	1900	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	2000	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	2100	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	2200	264	99.90	999.9	999.9	.0	.0	999.9
76	9	20	2300	264	99.90	999.9	999.9	.0	.0	999.9
76	9	21	0	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	100	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	200	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	300	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	400	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	500	265	99.90	999.9	999.9	.0	.0	999.9

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIAN DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	9	21	500	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	700	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	800	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	900	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1000	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1100	265	99.90	999.9	999.9	.0	.0	999.9
75	9	21	1200	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1300	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1400	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1500	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1600	265	99.90	999.9	999.9	.0	.0	999.9
75	9	21	1700	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1800	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	1900	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	2000	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	2100	265	99.90	999.9	999.9	.0	.0	999.9
76	9	21	2200	265	99.90	999.9	999.9	.0	.0	999.9
75	9	21	2300	265	99.90	999.9	999.9	.0	.0	999.9
70	9	22	0	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	100	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	200	266	99.90	999.9	999.9	.0	.0	999.9
72	9	22	300	266	99.90	999.9	999.9	.0	.0	999.9
75	9	22	400	266	99.90	999.9	999.9	.0	.0	999.9
75	9	22	500	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	600	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	700	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	800	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	900	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	1000	266	99.90	999.9	999.9	.0	.0	999.9
75	9	22	1100	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	1200	266	99.90	999.9	999.9	.0	.0	999.9
75	9	22	1300	266	99.90	999.9	999.9	.0	.0	999.9
75	9	22	1400	266	99.90	999.9	999.9	.0	.0	999.9
75	9	22	1500	266	99.90	999.9	999.9	.0	.0	999.9
76	9	22	1600	266	5.50	150.0	140.0	.0	.0	190.0
70	9	22	1700	266	5.00	175.0	155.0	.0	.0	80.0
76	9	22	1800	266	5.00	210.0	175.0	.0	.0	200.0
75	9	22	1900	266	5.00	330.0	50.0	.0	.0	70.0
70	9	22	2000	266	5.00	335.0	105.0	.0	.0	140.0
70	9	22	2100	266	2.50	230.0	360.0	.0	.0	360.0
76	9	22	2200	266	4.00	145.0	360.0	.0	.0	360.0
76	9	22	2300	266	2.50	350.0	360.0	.0	.0	360.0
76	9	23	0	267	3.00	210.0	360.0	.0	.0	360.0
76	9	23	100	267	2.00	15.0	305.0	.0	.0	360.0
76	9	23	200	267	4.00	45.0	55.0	.0	.0	75.0
75	9	23	300	267	3.00	60.0	55.0	.0	.0	75.0
75	9	23	400	267	3.00	240.0	360.0	.0	.0	360.0
75	9	23	500	267	4.00	170.0	185.0	.0	.0	205.0
75	9	23	600	267	3.00	350.0	250.0	.0	.0	250.0
75	9	23	700	267	5.00	60.0	360.0	.0	.0	360.0
75	9	23	800	267	6.00	70.0	220.0	.0	.0	300.0
75	9	23	900	267	7.00	140.0	95.0	.0	.0	115.0
75	9	23	1000	267	5.00	2.50	50.0	.0	.0	75.0
		23			1	22	5			80

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7

H E CRAMER CO INC

DATE 12/15/76

PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	23	1200	257	5.00	230.0	40.0	.0	.0	75.0	
76	9	23	1300	257	5.00	205.0	85.0	.0	.0	155.0	
76	9	23	1400	257	5.50	210.0	110.0	.0	.0	140.0	
76	9	23	1500	257	6.50	26.0	165.0	.0	.0	250.0	
76	9	23	1600	257	11.00	335.0	35.0	.0	.0	65.0	
76	9	23	1700	257	7.00	315.0	50.0	.0	.0	80.0	
76	9	23	1800	257	7.00	305.0	30.0	.0	.0	50.0	
76	9	23	1900	257	3.00	315.0	60.0	.0	.0	100.0	
76	9	23	2000	257	77.70	777.7	777.7	.0	.0	777.7	
76	9	23	2100	257	3.00	140.0	305.0	.0	.0	360.0	
76	9	23	2200	257	4.00	115.0	230.0	.0	.0	250.0	
76	9	23	2300	257	4.00	140.0	135.0	.0	.0	160.0	
76	9	24	0	258	3.50	95.0	75.0	.0	1.0	90.0	
76	9	24	100	258	2.50	35.0	150.0	.0	1.0	235.0	
76	9	24	200	258	77.70	777.7	777.7	.0	1.0	777.7	
76	9	24	300	258	4.00	120.0	135.0	.0	1.0	150.0	
76	9	24	400	258	77.70	777.7	777.7	.0	1.0	777.7	
76	9	24	500	258	4.00	115.0	60.0	.0	1.0	115.0	
76	9	24	600	258	3.50	105.0	215.0	.0	1.0	230.0	
76	9	24	700	258	6.50	105.0	25.0	.0	.0	55.0	
76	9	24	800	258	3.50	65.0	55.0	.0	.0	95.0	
76	9	24	900	258	2.00	105.0	125.0	.0	1.0	190.0	
76	9	24	1000	258	5.50	130.0	360.0	.0	1.0	360.0	
76	9	24	1100	258	5.00	175.0	90.0	.0	1.0	130.0	
76	9	24	1200	258	7.50	210.0	20.0	.0	1.0	80.0	
76	9	24	1300	258	7.00	220.0	10.0	.0	1.0	60.0	
76	9	24	1400	258	6.00	240.0	35.0	.0	1.0	65.0	
76	9	24	1500	258	6.50	315.0	100.0	.0	1.0	185.0	
76	9	24	1600	258	5.00	340.0	115.0	.0	.0	175.0	
76	9	24	1700	258	4.00	170.0	190.0	.0	1.0	210.0	
76	9	24	1800	258	4.00	200.0	55.0	.0	1.0	80.0	
76	9	24	1900	258	2.50	110.0	205.0	.0	1.0	215.0	
76	9	24	2000	258	2.50	35.0	80.0	.0	.0	95.0	
76	9	24	2100	258	2.00	90.0	100.0	.0	.0	100.0	
76	9	24	2200	258	2.50	115.0	170.0	.0	1.0	190.0	
76	9	24	2300	258	3.00	55.0	115.0	.0	.0	150.0	
76	9	25	0	259	2.50	45.0	105.0	.0	.0	145.0	
76	9	25	100	259	3.50	75.0	205.0	.0	.0	210.0	
76	9	25	200	259	3.00	210.0	215.0	.0	.0	235.0	
76	9	25	300	259	4.00	20.0	265.0	.0	.0	275.0	
76	9	25	400	259	4.00	135.0	195.0	.0	.0	235.0	
76	9	25	500	259	7.00	125.0	65.0	.0	.0	85.0	
76	9	25	600	259	4.50	75.0	105.0	.0	.0	120.0	
76	9	25	700	259	3.00	100.0	120.0	.0	.0	165.0	
76	9	25	800	259	3.50	150.0	180.0	.0	.0	230.0	
76	9	25	900	259	5.00	190.0	60.0	.0	.0	170.0	
76	9	25	1000	259	2.50	315.0	300.0	.0	.0	350.0	
76	9	25	1100	259	5.00	210.0	300.0	.0	.0	360.0	
76	9	25	1200	259	6.00	215.0	25.0	.0	.0	80.0	
76	9	25	1300	259	6.50	220.0	15.0	.0	.0	65.0	
76	9	25	1400	259	6.00	240.0	60.0	.0	.0	190.0	
76	9	25	1500	259	9.50	312.0	85.0	.0	.0	115.0	
76	9	25	1600	259	10.00	313.0	30.0	.0	.0	55.0	
76	9	25	1700	259	11.00	355.0	30.0	.0	.0	45.0	

Table C-3 (Continued)
HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	25	1800	259	6.00	305.0	45.0	.0	.0	70.0
76	9	25	1900	269	5.00	310.0	50.0	.0	.0	70.0
76	9	25	2000	269	3.00	355.0	240.0	.0	.0	255.0
76	9	25	2100	269	3.00	90.0	130.0	.0	.0	150.0
76	9	25	2200	269	3.00	25.0	60.0	.0	.0	80.0
76	9	25	2300	269	3.50	115.0	360.0	.0	.0	360.0
76	9	26	0	270	3.50	30.0	200.0	.0	.0	225.0
76	9	26	100	270	3.50	30.0	145.0	.0	.0	175.0
76	9	26	200	270	2.00	35.0	220.0	.0	.0	245.0
76	9	26	300	270	3.50	30.0	115.0	.0	.0	120.0
76	9	26	400	270	2.00	50.0	210.0	.0	.0	220.0
76	9	26	500	270	2.50	40.0	190.0	.0	.0	220.0
76	9	26	600	270	77.70	777.7	777.7	.0	.0	777.7
76	9	26	700	270	77.70	777.7	777.7	.0	.0	777.7
76	9	26	800	270	77.70	777.7	777.7	.0	.0	777.7
76	9	26	900	270	3.50	265.0	100.0	.0	1.0	120.0
76	9	26	1000	270	4.00	245.0	50.0	.0	1.0	125.0
76	9	26	1100	270	5.00	245.0	45.0	.0	1.0	130.0
76	9	26	1200	270	5.50	225.0	50.0	.0	1.0	90.0
76	9	26	1300	270	7.00	225.0	5.0	.0	1.0	55.0
76	9	26	1400	270	7.50	250.0	85.0	.0	1.0	200.0
76	9	26	1500	270	7.50	310.0	85.0	.0	1.0	130.0
76	9	26	1600	270	10.00	315.0	65.0	.0	.0	110.0
76	9	26	1700	270	11.00	310.0	30.0	.0	.0	65.0
76	9	26	1800	270	16.00	310.0	20.0	.0	.0	40.0
76	9	26	1900	270	5.50	315.0	115.0	.0	.0	140.0
76	9	26	2000	270	5.50	280.0	20.0	.0	.0	50.0
76	9	26	2100	270	3.50	240.0	360.0	.0	1.0	360.0
76	9	26	2200	270	5.00	90.0	75.0	.0	.0	90.0
76	9	26	2300	270	4.50	10.00	85.0	.0	1.0	115.0
76	9	27	0	271	4.50	135.0	140.0	.0	1.0	170.0
76	9	27	100	271	2.50	6.00	165.0	.0	.0	160.0
76	9	27	200	271	2.00	35.0	50.0	.0	.0	65.0
76	9	27	300	271	3.00	35.0	55.0	.0	.0	65.0
76	9	27	400	271	2.50	35.0	60.0	.0	.0	100.0
76	9	27	500	271	4.00	50.0	75.0	.0	.0	80.0
76	9	27	600	271	3.00	40.0	95.0	.0	.0	125.0
76	9	27	700	271	2.00	40.0	80.0	.0	.0	120.0
76	9	27	800	271	2.50	45.0	40.0	.0	.0	65.0
76	9	27	900	271	2.00	350.0	210.0	.0	.0	360.0
76	9	27	1000	271	3.00	155.0	310.0	.0	.0	360.0
76	9	27	1100	271	5.50	240.0	45.0	.0	.0	75.0
76	9	27	1200	271	6.00	235.0	45.0	.0	.0	105.0
76	9	27	1300	271	6.00	230.0	30.0	.0	.0	70.0
76	9	27	1400	271	6.50	225.0	25.0	.0	.0	50.0
76	9	27	1500	271	5.50	215.0	10.0	.0	.0	55.0
76	9	27	1600	271	6.00	215.0	15.0	.0	.0	105.0
76	9	27	1700	271	7.50	3.50	30.0	.0	.0	55.0
76	9	27	1800	271	6.50	3.50	15.0	.0	.0	35.0
76	9	27	1900	271	4.50	29.0	50.0	.0	.0	55.0
76	9	27	2000	271	4.00	30.0	120.0	.0	.0	140.0
76	9	27	2100	271	2.50	145.0	155.0	.0	.0	170.0
76	9	27	2200	271	4.	13.	13.	.	.	165.0
76	9	27	2300	271	3.	95	12	.	.	160.

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRRAY ANALYSIS STATION ID-CENVO2 SEPT 1-NOV 7

H E CRAMER CO INC

DATE 12/15/76

PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	28	0	272	4.00	55.0	200.0	.0	.0	220.0
76	9	28	100	272	4.00	35.0	80.0	.0	.0	85.0
76	9	28	200	272	3.00	35.0	45.0	.0	.0	70.0
76	9	28	300	272	3.50	75.0	95.0	.0	.0	100.0
76	9	28	400	272	3.50	30.0	45.0	.0	.0	75.0
76	9	28	500	272	3.00	45.0	95.0	.0	.0	105.0
76	9	28	600	272	3.50	60.0	60.0	.0	.0	55.0
76	9	28	700	272	4.00	45.0	105.0	.0	.0	135.0
76	9	28	800	272	77.70	777.7	777.7	.0	.0	777.7
76	9	28	900	272	2.00	205.0	360.0	.0	1.0	360.0
76	9	28	1000	272	4.00	175.0	360.0	.0	1.0	360.0
76	9	28	1100	272	5.50	230.0	15.0	.0	1.0	65.0
76	9	28	1200	272	6.50	225.0	35.0	.0	1.0	75.0
76	9	28	1300	272	6.00	230.0	30.0	.0	1.0	75.0
76	9	28	1400	272	6.50	230.0	5.0	.0	1.0	60.0
76	9	28	1500	272	6.00	210.0	30.0	.0	1.0	70.0
76	9	28	1600	272	5.50	215.0	30.0	.0	1.0	100.0
76	9	28	1700	272	6.50	325.0	100.0	.0	1.0	130.0
76	9	28	1800	272	7.00	325.0	35.0	.0	.0	50.0
76	9	28	1900	272	4.00	315.0	115.0	.0	.0	125.0
76	9	28	2000	272	2.00	220.0	360.0	.0	1.0	360.0
76	9	28	2100	272	2.50	125.0	135.0	.0	1.0	185.0
76	9	28	2200	272	3.50	95.0	220.0	.0	1.0	280.0
76	9	28	2300	272	3.00	45.0	215.0	.0	1.0	260.0
76	9	29	0	273	2.00	45.0	135.0	.0	.0	215.0
76	9	29	100	273	2.50	25.0	175.0	.0	.0	230.0
76	9	29	200	273	3.50	35.0	150.0	.0	.0	215.0
76	9	29	300	273	3.00	50.0	60.0	.0	.0	95.0
76	9	29	400	273	3.00	45.0	115.0	.0	.0	135.0
76	9	29	500	273	3.50	40.0	75.0	.0	.0	80.0
76	9	29	600	273	3.50	50.0	100.0	.0	.0	165.0
76	9	29	700	273	4.00	45.0	60.0	.0	.0	75.0
76	9	29	800	273	2.00	45.0	35.0	.0	.0	70.0
76	9	29	900	273	2.50	320.0	200.0	.0	.0	360.0
76	9	29	1000	273	3.00	135.0	360.0	.0	.0	360.0
76	9	29	1100	273	4.50	260.0	200.0	.0	.0	315.0
76	9	29	1200	272	6.50	230.0	15.0	.0	.0	45.0
76	9	29	1300	273	5.50	225.0	25.0	.0	.0	55.0
76	9	29	1400	273	5.50	225.0	20.0	.0	.0	40.0
76	9	29	1500	273	4.50	235.0	30.0	.0	.0	80.0
76	9	29	1600	273	5.00	250.0	35.0	.0	.0	90.0
76	9	29	1700	273	4.50	210.0	40.0	.0	.0	70.0
76	9	29	1800	273	3.00	240.0	190.0	.0	.0	235.0
76	9	29	1900	273	2.50	345.0	145.0	.0	.0	185.0
76	9	29	2000	273	2.50	315.0	360.0	.0	.0	360.0
76	9	29	2100	273	3.00	90.0	160.0	.0	.0	200.0
76	9	29	2200	273	2.00	60.0	60.0	.0	.0	95.0
76	9	29	2300	273	3.50	55.0	360.0	.0	.0	360.0
76	9	30	0	274	2.50	75.0	165.0	.0	.0	165.0
76	9	30	100	274	3.50	35.0	50.0	.0	1.0	65.0
76	9	30	200	274	3.50	45.0	80.0	.0	1.0	125.0
76	9	30	300	274	2.50	45.0	165.0	.0	.0	185.0
76	9	30	400	274	3.00	40.0	90.0	.0	.0	95.0
76	9	30	500	274	3.50	40.0	65.0	.0	.0	80.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVC2 SEPT 1-NOV 7 H E CRAVER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	9	30	600	274	3.00	70.0	60.0	.0	.0	80.0
76	9	30	700	274	2.50	265.0	360.0	.0	.0	360.0
76	9	30	800	274	2.50	315.0	285.0	.0	.0	350.0
76	9	30	900	274	2.50	340.0	235.0	.0	1.0	270.0
76	9	30	1000	274	4.50	275.0	140.0	.0	1.0	175.0
76	9	30	1100	274	5.50	240.0	100.0	.0	1.0	150.0
76	9	30	1200	274	5.00	225.0	20.0	.0	1.0	65.0
76	9	30	1300	274	5.50	215.0	15.0	.0	1.0	55.0
76	9	30	1400	274	5.50	250.0	20.0	.0	1.0	45.0
76	9	30	1500	274	4.50	235.0	45.0	.0	1.0	80.0
76	9	30	1600	274	5.00	275.0	360.0	.0	1.0	360.0
76	9	30	1700	274	3.00	260.0	45.0	.0	1.0	90.0
76	9	30	1800	274	2.50	310.0	145.0	.0	1.0	170.0
76	9	30	1900	274	2.50	300.0	165.0	.0	1.0	140.0
76	9	30	2000	274	4.00	30.0	195.0	.0	1.0	225.0
76	9	30	2100	274	2.00	160.0	260.0	.0	1.0	360.0
76	9	30	2200	274	2.50	105.0	165.0	.0	1.0	210.0
76	9	30	2300	274	3.50	50.0	150.0	.0	1.0	185.0
76	10	1	0	275	2.00	315.0	360.0	.0	1.0	360.0
76	10	1	100	275	3.50	50.0	40.0	.0	.0	65.0
76	10	1	200	275	2.50	55.0	90.0	.0	.0	100.0
76	10	1	300	275	3.00	75.0	80.0	.0	.0	90.0
76	10	1	400	275	3.00	65.0	105.0	.0	.0	110.0
76	10	1	500	275	3.00	80.0	80.0	.0	.0	85.0
76	10	1	600	275	3.00	60.0	85.0	.0	.0	105.0
76	10	1	700	275	3.00	70.0	125.0	.0	.0	130.0
76	10	1	800	275	2.50	50.0	95.0	.0	.0	115.0
76	10	1	900	275	2.50	45.0	100.0	.0	.0	190.0
76	10	1	1000	275	3.00	315.0	325.0	.0	.0	360.0
76	10	1	1100	275	4.50	250.0	55.0	.0	.0	125.0
76	10	1	1200	275	5.00	245.0	65.0	.0	.0	135.0
76	10	1	1300	275	5.00	260.0	30.0	.0	.0	60.0
76	10	1	1400	275	6.00	240.0	35.0	.0	.0	60.0
76	10	1	1500	275	5.00	230.0	30.0	.0	.0	50.0
76	10	1	1600	275	5.50	225.0	70.0	.0	.0	105.0
76	10	1	1700	275	6.00	175.0	95.0	.0	.0	125.0
76	10	1	1800	275	10.50	155.0	70.0	.0	.0	95.0
76	10	1	1900	275	7.00	220.0	115.0	.0	.0	135.0
76	10	1	2000	275	7.00	335.0	200.0	.0	.0	255.0
76	10	1	2100	275	4.00	245.0	145.0	.0	.0	175.0
76	10	1	2200	275	8.50	295.0	115.0	.0	.0	155.0
76	10	1	2300	275	5.00	345.0	205.0	.0	.0	230.0
76	10	2	0	276	4.50	140.0	125.0	.0	.0	150.0
76	10	2	100	276	2.00	10.0	325.0	.0	.0	360.0
76	10	2	200	276	2.50	100.0	240.0	.0	.0	270.0
76	10	2	300	276	3.00	115.0	100.0	.0	.0	135.0
76	10	2	400	276	2.50	100.0	245.0	.0	.0	270.0
76	10	2	500	276	2.00	100.0	220.0	.0	.0	240.0
76	10	2	600	276	2.50	115.0	215.0	.0	.0	240.0
76	10	2	700	276	2.00	100.0	120.0	.0	.0	140.0
76	10	2	800	276	5.00	125.0	185.0	.0	.0	220.0
76	10	2	900	276	12.50	175.0	85.0	.0	.0	115.0
76	10	2	1000	276	12.50	150.0	75.0	.0	.0	120.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRRAY ANALYSIS STATION ID-GENV02 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	2	1200	276	13.50	175.0	60.0	.0	.0	.0	85.0
76	10	2	1300	276	13.00	175.0	70.0	.0	.0	.0	90.0
76	10	2	1400	276	12.00	175.0	80.0	.0	.0	.0	110.0
76	10	2	1500	276	11.50	155.0	55.0	.0	.0	.0	80.0
76	10	2	1600	276	7.50	140.0	90.0	.0	.0	.0	120.0
76	10	2	1700	276	8.50	155.0	70.0	.0	.0	.0	105.0
76	10	2	1800	276	8.50	170.0	65.0	.0	.0	.0	95.0
76	10	2	1900	276	14.50	227.0	75.0	.0	.0	.0	100.0
76	10	2	2000	276	8.50	10.0	225.0	.0	.0	.0	255.0
76	10	2	2100	276	7.00	120.0	55.0	.0	.0	.0	75.0
76	10	2	2200	276	6.00	123.0	80.0	.0	.0	.0	100.0
76	10	2	2300	276	7.50	150.0	55.0	.0	.0	.0	75.0
76	10	3	0	277	5.00	95.0	130.0	.0	.0	.0	140.0
76	10	3	100	277	3.50	85.0	65.0	.0	.0	.0	90.0
76	10	3	200	277	3.50	70.0	45.0	.0	.0	.0	70.0
76	10	3	300	277	3.00	240.0	360.0	.0	.0	1.0	350.0
75	10	3	400	277	3.00	240.0	225.0	.0	.0	1.0	250.0
76	10	3	500	277	3.00	345.0	155.0	.0	.0	.0	190.0
76	10	3	600	277	5.00	325.0	90.0	.0	.0	.0	125.0
76	10	3	700	277	13.00	325.0	40.0	.0	.0	.0	65.0
75	10	3	800	277	12.00	340.0	10.0	.0	.0	.0	45.0
76	10	3	900	277	13.00	335.0	25.0	.0	.0	1.0	45.0
76	10	3	1000	277	14.00	340.0	20.0	.0	.0	.0	45.0
76	10	3	1100	277	12.00	335.0	30.0	.0	.0	1.0	55.0
76	10	3	1200	277	11.00	320.0	70.0	.0	.0	1.0	100.0
76	10	3	1300	277	10.00	320.0	80.0	.0	.0	1.0	110.0
76	10	3	1400	277	9.50	315.0	105.0	.0	.0	1.0	135.0
76	10	3	1500	277	9.50	320.0	70.0	.0	.0	.0	115.0
76	10	3	1600	277	12.00	330.0	55.0	.0	.0	.0	80.0
76	10	3	1700	277	13.00	320.0	40.0	.0	.0	.0	65.0
76	10	3	1800	277	12.50	325.0	20.0	.0	.0	.0	45.0
76	10	3	1900	277	7.50	315.0	20.0	.0	.0	.0	45.0
76	10	3	2000	277	77.70	777.7	777.7	.0	.0	1.0	777.7
76	10	3	2100	277	3.50	315.0	130.0	.0	.0	1.0	170.0
76	10	3	2200	277	77.70	777.7	777.7	.0	.0	.0	777.7
76	10	3	2300	277	3.50	50.0	60.0	.0	.0	.0	90.0
76	10	4	0	278	5.50	55.0	120.0	.0	.0	.0	140.0
76	10	4	100	278	4.00	170.0	265.0	.0	.0	.0	260.0
76	10	4	200	278	77.70	777.7	777.7	.0	.0	.0	777.7
76	10	4	300	278	2.50	60.0	170.0	.0	.0	.0	190.0
76	10	4	400	278	77.70	777.7	777.7	.0	.0	.0	777.7
76	10	4	500	278	2.50	65.0	100.0	.0	.0	.0	115.0
76	10	4	600	278	2.00	45.0	120.0	.0	.0	.0	140.0
76	10	4	700	278	2.00	75.0	230.0	.0	.0	.0	255.0
76	10	4	800	278	2.00	50.0	120.0	.0	.0	.0	155.0
76	10	4	900	278	3.00	135.0	240.0	.0	.0	.0	270.0
76	10	4	1000	278	5.00	210.0	75.0	.0	.0	.0	100.0
76	10	4	1100	278	7.00	220.0	50.0	.0	.0	.0	75.0
76	10	4	1200	278	0.50	225.0	40.0	.0	.0	.0	70.0
76	10	4	1300	278	7.00	23.0	35.0	.0	.0	.0	65.0
76	10	4	1400	278	6.50	230.0	40.0	.0	.0	.0	70.0
76	10	4	1500	278	6.50	230.0	50.0	.0	.0	.0	80.0
76	10	4	1600	278	8.00	235.0	45.0	.0	.0	.0	65.0
76	10	4	1700	278	7.50	295.0	110.0	.0	.0	.0	125.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION IU-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	DAY SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	4	1800	278	6.50	325.0	30.0	.0	.0	45.0
76	10	4	1900	278	4.00	345.0	120.0	.0	.0	145.0
76	10	4	2000	278	2.50	355.0	80.0	.0	.0	115.0
76	10	4	2100	278	77.70	777.7	777.7	.0	.0	777.7
76	10	4	2200	278	2.00	360.0	175.0	.0	.0	200.0
76	10	4	2300	278	3.50	85.0	150.0	.0	.0	195.0
76	10	5	0	279	3.50	120.0	360.0	.0	1.0	360.0
76	10	5	100	279	4.00	75.0	15.0	.0	.0	120.0
76	10	5	200	279	2.50	50.0	170.0	.0	1.0	190.0
76	10	5	300	279	3.00	55.0	105.0	.0	.0	115.0
76	10	5	400	279	2.00	55.0	65.0	.0	.0	80.0
75	10	5	500	279	3.50	45.0	55.0	.0	.0	85.0
76	10	5	600	279	2.50	60.0	80.0	.0	.0	100.0
76	10	5	700	279	4.00	35.0	30.0	.0	.0	60.0
76	10	5	800	279	77.70	777.7	777.7	.0	.0	777.7
76	10	5	900	279	77.70	777.7	777.7	.0	1.0	777.7
76	10	5	1000	279	3.00	235.0	360.0	.0	1.0	360.0
75	10	5	1100	279	5.00	235.0	50.0	.0	1.0	80.0
76	10	5	1200	279	5.00	250.0	25.0	.0	1.0	140.0
75	10	5	1300	279	5.50	250.0	50.0	.0	1.0	85.0
76	10	5	1400	279	5.50	250.0	40.0	.0	1.0	70.0
76	10	5	1500	279	5.50	240.0	45.0	.0	1.0	75.0
76	10	5	1600	279	5.00	250.0	35.0	.0	1.0	75.0
76	10	5	1700	279	4.00	230.0	45.0	.0	1.0	80.0
76	10	5	1800	279	3.00	200.0	35.0	.0	1.0	60.0
76	10	5	1900	279	3.00	30.0	160.0	.0	.0	180.0
76	10	5	2000	279	2.00	55.0	115.0	.0	.0	145.0
76	10	5	2100	279	2.00	55.0	165.0	.0	.0	185.0
76	10	5	2200	279	2.50	80.0	185.0	.0	1.0	210.0
76	10	5	2300	279	3.00	35.0	65.0	.0	.0	85.0
76	10	6	0	280	3.00	35.0	115.0	.0	.0	145.0
75	10	6	100	280	77.70	777.7	777.7	.0	.0	777.7
75	10	6	200	280	2.50	350.0	275.0	.0	.0	300.0
76	10	6	300	280	77.70	777.7	777.7	.0	.0	777.7
76	10	6	400	280	2.50	85.0	100.0	.0	.0	115.0
76	10	6	500	280	2.50	75.0	95.0	.0	.0	120.0
76	10	6	600	280	3.50	65.0	65.0	.0	.0	90.0
76	10	6	700	280	3.50	35.0	65.0	.0	.0	85.0
76	10	6	800	280	2.50	10.0	170.0	.0	.0	195.0
76	10	6	900	280	3.00	50.0	360.0	.0	.0	360.0
76	10	6	1000	280	11.00	295.0	225.0	.0	.0	335.0
76	10	6	1100	280	15.00	325.0	35.0	.0	.0	50.0
76	10	6	1200	280	15.00	330.0	30.0	.0	.0	55.0
76	10	6	1300	280	18.00	330.0	35.0	.0	.0	55.0
76	10	6	1400	280	21.00	330.0	25.0	.0	.0	50.0
76	10	6	1500	280	21.50	330.0	25.0	.0	.0	45.0
76	10	6	1600	280	22.50	335.0	15.0	.0	.0	40.0
76	10	6	1700	280	22.00	335.0	25.0	.0	.0	35.0
76	10	6	1800	280	15.00	335.0	10.0	.0	.0	35.0
76	10	6	1900	280	14.00	33.0	15.0	.0	.0	35.0
76	10	6	2000	280	13.50	325.0	20.0	.0	.0	55.0
76	10	6	2100	280	2.00	45.0	45.0	110.0	.0	150.0
76	10	6	2200	280	2.00	34.00	28.00	.0	.0	250.0
			b		1	14	36			360

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIAN DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	10	7	0	281	2.50	360.0	235.0	.0	.0	265.0	
76	10	7	100	281	2.00	315.0	360.0	.0	.0	360.0	
76	10	7	200	281	2.50	145.0	350.0	.0	.0	360.0	
76	10	7	300	281	2.50	130.0	320.0	.0	.0	340.0	
76	10	7	400	281	2.00	65.0	230.0	.0	.0	350.0	
76	10	7	500	281	3.50	55.0	125.0	.0	.0	160.0	
76	10	7	600	281	4.00	25.0	110.0	.0	.0	135.0	
76	10	7	700	281	4.00	30.0	80.0	.0	.0	125.0	
76	10	7	800	281	3.50	75.0	60.0	.0	.0	90.0	
76	10	7	900	281	2.50	75.0	120.0	.0	.0	155.0	
76	10	7	1000	281	4.00	310.0	220.0	.0	.0	265.0	
76	10	7	1100	281	5.00	240.0	75.0	.0	.0	100.0	
76	10	7	1200	281	0.30	235.0	40.0	.0	.0	65.0	
76	10	7	1300	281	6.00	225.0	30.0	.0	.0	65.0	
76	10	7	1400	281	6.50	230.0	30.0	.0	.0	60.0	
76	10	7	1500	281	5.00	225.0	55.0	.0	.0	95.0	
76	10	7	1600	281	5.50	213.0	40.0	.0	.0	75.0	
76	10	7	1700	281	5.00	215.0	85.0	.0	.0	115.0	
76	10	7	1800	281	8.00	310.0	40.0	.0	.0	70.0	
76	10	7	1900	281	4.00	330.0	240.0	.0	.0	290.0	
76	10	7	2000	281	3.00	245.0	140.0	.0	.0	175.0	
76	10	7	2100	281	2.50	220.0	360.0	.0	.0	360.0	
76	10	7	2200	281	5.00	130.0	100.0	.0	.0	125.0	
76	10	7	2300	281	3.50	121.0	150.0	.0	.0	120.0	
76	10	8	0	282	3.50	55.0	105.0	.0	.0	125.0	
76	10	8	100	282	2.50	50.0	90.0	.0	.0	115.0	
76	10	8	200	282	2.00	60.0	75.0	.0	.0	90.0	
76	10	8	300	282	2.00	50.0	105.0	.0	.0	130.0	
76	10	8	400	282	3.50	55.0	45.0	.0	.0	70.0	
76	10	8	500	282	2.50	65.0	110.0	.0	.0	130.0	
76	10	8	600	282	2.50	55.0	55.0	.0	.0	80.0	
76	10	8	700	282	3.50	65.0	50.0	.0	.0	60.0	
76	10	8	800	282	2.50	50.0	60.0	.0	.0	110.0	
76	10	8	900	282	77.70	777.7	777.7	.0	.0	777.7	
76	10	8	1000	282	3.00	3.5.0	275.0	.0	.0	325.0	
76	10	8	1100	282	5.00	225.0	65.0	.0	.0	100.0	
76	10	8	1200	282	6.00	240.0	25.0	.0	.0	60.0	
76	10	8	1300	282	5.50	225.0	20.0	.0	.0	55.0	
76	10	8	1400	282	5.50	220.0	30.0	.0	.0	60.0	
76	10	8	1500	282	6.00	230.0	30.0	.0	.0	55.0	
76	10	8	1600	282	5.50	225.0	30.0	.0	.0	60.0	
76	10	8	1700	282	3.50	230.0	30.0	.0	.0	60.0	
76	10	8	1800	282	2.50	240.0	65.0	.0	.0	100.0	
76	10	8	1900	282	3.00	20.0	165.0	.0	.0	100.0	
76	10	8	2000	282	2.50	35.0	115.0	.0	.0	130.0	
76	10	8	2100	282	3.50	45.0	120.0	.0	.0	135.0	
76	10	8	2200	282	3.00	110.0	225.0	.0	.0	280.0	
76	10	8	2300	282	3.00	45.0	135.0	.0	.0	155.0	
76	10	9	0	283	2.50	70.0	100.0	.0	.0	135.0	
76	10	9	100	283	2.50	45.0	60.0	.0	.0	35.0	
76	10	9	200	283	3.00	75.0	75.0	.0	.0	130.0	
76	10	9	300	283	2.00	45.0	65.0	.0	.0	105.0	
76	10	9	400	283	3.50	50.0	105.0	.0	.0	125.0	
76	10	9	500	283	77.70	777.7	777.7	.0	.0	777.7	

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIAN DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	10	9	600	283	3.50	40.0	80.0	.0	.0	105.0
76	10	9	700	283	3.00	50.0	75.0	.0	.0	100.0
76	10	9	800	283	3.50	75.0	65.0	.0	.0	85.0
76	10	9	900	283	2.50	315.0	265.0	.0	.0	360.0
76	10	9	1000	283	77.70	777.7	777.7	.0	1.0	777.7
76	10	9	1100	283	3.00	235.0	40.0	.0	1.0	80.0
76	10	9	1200	283	5.00	240.0	55.0	.0	1.0	90.0
76	10	9	1300	283	4.00	240.0	40.0	.0	1.0	60.0
76	10	9	1400	283	5.50	240.0	55.0	.0	1.0	65.0
76	10	9	1500	283	5.00	240.0	40.0	.0	1.0	70.0
76	10	9	1600	283	5.00	245.0	20.0	.0	1.0	50.0
76	10	9	1700	283	3.00	250.0	30.0	.0	1.0	75.0
76	10	9	1800	283	77.70	777.7	777.7	.0	.0	777.7
76	10	9	1900	283	99.90	45.0	200.0	.0	.0	210.0
75	10	9	2000	283	99.90	40.0	40.0	.0	.0	55.0
76	10	9	2100	283	99.90	45.0	220.0	.0	.0	235.0
76	10	9	2200	283	99.90	20.0	165.0	.0	.0	200.0
76	10	9	2300	283	99.90	40.0	175.0	.0	.0	265.0
76	10	10	0	284	99.90	50.0	65.0	.0	.0	90.0
76	10	10	100	284	99.90	80.0	275.0	.0	.0	390.0
76	10	10	200	284	99.90	45.0	20.0	.0	.0	90.0
76	10	10	300	284	99.90	40.0	160.0	.0	.0	200.0
76	10	10	400	284	99.90	40.0	110.0	.0	.0	140.0
76	10	10	500	284	99.90	70.0	90.0	.0	.0	105.0
76	10	10	600	284	99.90	40.0	70.0	.0	.0	90.0
76	10	10	700	284	99.90	65.0	80.0	.0	.0	100.0
76	10	10	800	284	99.90	130.0	295.0	.0	.0	330.0
76	10	10	900	284	99.90	15.0	360.0	.0	.0	360.0
76	10	10	1000	284	99.90	250.0	225.0	.0	.0	260.0
76	10	10	1100	284	99.90	135.0	360.0	.0	.0	360.0
76	10	10	1200	284	99.90	215.0	120.0	.0	.0	170.0
76	10	10	1300	284	99.90	100.0	105.0	.0	.0	140.0
76	10	10	1400	284	99.90	105.0	360.0	.0	.0	360.0
76	10	10	1500	284	99.90	175.0	250.0	.0	.0	320.0
76	10	10	1600	284	5.50	140.0	195.0	.0	.0	235.0
76	10	10	1700	284	5.00	170.0	170.0	.0	.0	245.0
76	10	10	1800	284	5.00	105.0	55.0	.0	.0	90.0
76	10	10	1900	284	4.50	110.0	90.0	.0	.0	100.0
76	10	10	2000	284	3.50	95.0	110.0	.0	.0	130.0
76	10	10	2100	284	2.00	315.0	360.0	.0	.0	360.0
76	10	10	2200	284	2.50	200.0	360.0	.0	.0	360.0
76	10	10	2300	284	3.50	110.0	105.0	.0	.0	145.0
76	10	11	0	285	2.50	145.0	320.0	.0	1.0	345.0
76	10	11	100	285	2.50	205.0	360.0	.0	1.0	360.0
76	10	11	200	285	5.00	100.0	120.0	.0	.0	150.0
76	10	11	300	285	5.50	115.0	55.0	.0	.0	75.0
76	10	11	400	285	4.50	155.0	180.0	.0	1.0	230.0
76	10	11	500	285	2.50	275.0	350.0	.0	1.0	360.0
76	10	11	600	285	3.50	10.0	310.0	.0	1.0	350.0
76	10	11	700	285	3.00	60.0	360.0	.0	1.0	360.0
76	10	11	800	285	2.50	40.0	210.0	.0	.0	245.0
76	10	11	900	285	2.00	325.0	250.0	.0	1.0	330.0
		11			27	1				22
		11			26...	2...				29...

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	11	1200	255	6.50	260.0	40.0	.0	1.0	70.0
76	10	11	1300	265	5.50	235.0	45.0	.0	1.0	70.0
76	10	11	1400	275	11.50	295.0	165.0	.0	1.0	205.0
76	10	11	1500	285	14.00	330.0	40.0	.0	.0	60.0
76	10	11	1600	295	14.00	340.0	25.0	.0	.0	40.0
76	10	11	1700	305	14.00	340.0	45.0	.0	1.0	70.0
76	10	11	1800	315	10.00	325.0	100.0	.0	1.0	115.0
76	10	11	1900	325	11.50	325.0	40.0	.0	.0	55.0
76	10	11	2000	335	10.00	325.0	45.0	.0	.0	65.0
76	10	11	2100	345	6.00	355.0	280.0	.0	.0	325.0
76	10	11	2200	355	3.50	25.0	200.0	.0	.0	265.0
76	10	11	2300	365	3.50	40.0	190.0	.0	.0	235.0
76	10	12	0	375	3.50	25.0	170.0	.0	.0	220.0
76	10	12	100	385	2.00	115.0	345.0	.0	.0	320.0
76	10	12	200	395	3.00	40.0	180.0	.0	.0	255.0
76	10	12	300	405	2.50	135.0	210.0	.0	.0	240.0
76	10	12	400	415	0.50	60.0	170.0	.0	.0	195.0
76	10	12	500	425	2.50	165.0	260.0	.0	.0	360.0
76	10	12	600	435	3.00	35.0	135.0	.0	.0	175.0
76	10	12	700	445	3.00	70.0	125.0	.0	.0	130.0
76	10	12	800	455	3.00	55.0	190.0	.0	.0	205.0
76	10	12	900	465	77.70	777.7	777.7	.0	.0	777.7
76	10	12	1000	475	4.00	245.0	95.0	.0	.0	130.0
76	10	12	1100	485	4.00	235.0	110.0	.0	.0	205.0
76	10	12	1200	495	5.00	235.0	210.0	.0	.0	265.0
76	10	12	1300	505	5.50	230.0	60.0	.0	.0	115.0
76	10	12	1400	515	6.00	275.0	175.0	.0	.0	220.0
76	10	12	1500	525	9.00	340.0	80.0	.0	.0	115.0
76	10	12	1600	535	10.00	340.0	80.0	.0	.0	115.0
76	10	12	1700	545	9.50	340.0	40.0	.0	.0	65.0
76	10	12	1800	555	9.50	33.0	25.0	.0	.0	55.0
76	10	12	1900	565	3.50	310.0	65.0	.0	.0	80.0
76	10	12	2000	575	3.50	350.0	120.0	.0	.0	135.0
76	10	12	2100	585	3.50	70.0	180.0	.0	.0	195.0
76	10	12	2200	595	3.50	100.0	350.0	.0	.0	360.0
76	10	12	2300	605	4.00	55.0	95.0	.0	.0	115.0
76	10	13	0	615	77.70	777.7	777.7	.0	.0	777.7
76	10	13	100	625	3.50	65.0	120.0	.0	.0	160.0
76	10	13	200	635	3.00	50.0	80.0	.0	.0	115.0
76	10	13	300	645	2.50	40.0	75.0	.0	.0	85.0
76	10	13	400	655	3.00	75.0	120.0	.0	.0	140.0
76	10	13	500	665	3.00	50.0	105.0	.0	.0	155.0
76	10	13	600	675	2.00	51.0	140.0	.0	.0	170.0
76	10	13	700	685	3.00	50.0	145.0	.0	1.0	165.0
76	10	13	800	695	2.00	50.0	60.0	.0	.0	90.0
76	10	13	900	705	3.50	125.0	290.0	.0	1.0	325.0
76	10	13	1000	715	0.00	193.0	115.0	.0	1.0	150.0
76	10	13	1100	725	5.50	233.0	60.0	.0	1.0	95.0
76	10	13	1200	735	3.00	240.0	35.0	.0	1.0	65.0
76	10	13	1300	745	6.00	231.0	50.0	.0	1.0	70.0
76	10	13	1400	755	6.50	231.0	40.0	.0	1.0	65.0
76	10	13	1500	765	99.90	999.9	999.9	.0	1.0	999.9
76	10	13	1600	775	99.90	999.9	999.9	.0	.0	999.9
76	10	13	1700	785	99.90	999.9	999.9	.0	.0	999.9

(C-3)

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAHER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	13	1600	287	99.90	999.9	999.9	.0	.0	999.9
76	10	13	1940	287	99.90	999.9	999.9	.0	.0	999.9
76	10	13	2000	287	99.90	999.9	999.9	.0	.0	999.9
76	10	13	2100	287	99.90	999.9	999.9	.0	.0	999.9
76	10	13	2200	287	99.90	999.9	999.9	.0	.0	999.9
76	10	13	2300	287	99.90	999.9	999.9	.0	.0	999.9
76	10	14	0	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	100	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	200	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	300	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	400	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	500	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	600	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	700	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	800	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	900	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1000	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1100	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1200	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1300	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1400	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1500	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1600	288	99.90	999.9	999.9	.0	.0	999.9
76	10	14	1700	288	4.00	215.0	30.0	.0	.0	55.0
76	10	14	1800	288	2.00	315.0	360.0	.0	.0	360.0
76	10	14	1900	288	2.50	75.0	130.0	.0	.0	160.0
76	10	14	2000	288	2.50	65.0	115.0	.0	.0	140.0
76	10	14	2100	288	3.50	90.0	90.0	.0	.0	140.0
76	10	14	2200	288	3.50	125.0	140.0	.0	.0	200.0
76	10	14	2300	288	3.00	30.0	120.0	.0	.0	165.0
76	10	15	0	289	3.00	55.0	85.0	.0	.0	95.0
76	10	15	100	289	2.00	55.0	60.0	.0	.0	85.0
76	10	15	200	289	2.50	60.0	75.0	.0	.0	100.0
76	10	15	300	289	3.50	35.0	25.0	.0	.0	40.0
76	10	15	400	289	4.00	40.0	40.0	.0	.0	70.0
76	10	15	500	289	2.50	55.0	115.0	.0	.0	175.0
76	10	15	600	289	3.50	45.0	75.0	.0	.0	85.0
76	10	15	700	289	2.50	35.0	75.0	.0	.0	100.0
76	10	15	800	289	3.00	40.0	40.0	.0	.0	55.0
76	10	15	900	289	2.00	15.0	150.0	.0	1.0	180.0
76	10	15	1000	289	3.50	240.0	205.0	.0	1.0	235.0
76	10	15	1100	289	4.50	235.0	30.0	.0	1.0	20.0
76	10	15	1200	289	5.00	240.0	55.0	.0	1.0	85.0
76	10	15	1300	289	5.00	235.0	45.0	.0	1.0	65.0
76	10	15	1400	289	5.00	25.0	40.0	.0	1.0	75.0
76	10	15	1500	289	5.00	255.0	25.0	.0	1.0	45.0
76	10	15	1600	289	4.50	225.0	60.0	.0	1.0	90.0
76	10	15	1700	289	8.50	310.0	120.0	.0	1.0	155.0
76	10	15	1800	289	9.50	320.0	25.0	.0	1.0	45.0
76	10	15	1900	289	3.00	345.0	110.0	.0	.0	180.0
76	10	15	2000	289	3.50	360.0	120.0	.0	.0	140.0
76	10	15	2100	289	3.50	65.0	95.0	.0	.0	125.0
					15	?	?			135
					33...	31...	..	..	..	330..

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRRAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAKER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIAN DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	10	16	0	290	3.00	55.0	115.0	.0	.0	150.0
76	10	16	100	290	2.00	40.0	90.0	.0	.0	150.0
76	10	16	200	290	3.50	65.0	135.0	.0	.0	195.0
76	10	16	300	290	3.50	40.0	80.0	.0	.0	105.0
76	10	16	400	290	3.50	50.0	155.0	.0	.0	170.0
76	10	16	500	290	3.00	40.0	105.0	.0	.0	120.0
76	10	16	600	290	3.50	55.0	105.0	.0	.0	160.0
76	10	16	700	290	4.00	40.0	80.0	.0	.0	90.0
76	10	16	800	290	2.00	55.0	90.0	.0	.0	120.0
76	10	16	900	290	2.00	50.0	110.0	.0	.0	200.0
76	10	16	1000	290	4.50	80.0	170.0	.0	.0	200.0
76	10	16	1100	290	6.50	245.0	290.0	.0	.0	360.0
76	10	16	1200	290	6.50	235.0	50.0	.0	.0	75.0
76	10	16	1300	290	5.00	240.0	90.0	.0	.0	210.0
76	10	16	1400	290	5.00	250.0	45.0	.0	.0	105.0
76	10	16	1500	290	3.00	240.0	105.0	.0	.0	135.0
76	10	16	1600	290	5.00	205.0	75.0	.0	.0	150.0
76	10	16	1700	290	5.50	230.0	140.0	.0	.0	165.0
76	10	16	1800	290	0.00	310.0	55.0	.0	.0	75.0
76	10	16	1900	290	3.00	320.0	60.0	.0	.0	65.0
76	10	16	2000	290	77.70	777.7	777.7	.0	.0	777.7
76	10	16	2100	290	3.00	95.0	260.0	.0	.0	360.0
76	10	16	2200	290	4.00	105.0	165.0	.0	.0	220.0
76	10	16	2300	290	3.50	90.0	120.0	.0	.0	145.0
76	10	17	0	291	3.00	40.0	105.0	.0	.0	120.0
76	10	17	100	291	2.00	105.0	240.0	.0	.0	255.0
76	10	17	200	291	2.50	70.0	195.0	.0	.0	210.0
76	10	17	300	291	3.00	75.0	125.0	.0	.0	140.0
76	10	17	400	291	77.70	777.7	777.7	.0	.0	777.7
76	10	17	500	291	2.50	35.0	75.0	.0	.0	90.0
76	10	17	600	291	2.00	70.0	135.0	.0	.0	165.0
76	10	17	700	291	3.00	45.0	95.0	.0	.0	165.0
76	10	17	800	291	3.00	40.0	135.0	.0	.0	175.0
76	10	17	900	291	2.00	5.0	135.0	.0	.0	195.0
76	10	17	1000	291	5.50	250.0	365.0	.0	1.0	360.0
76	10	17	1100	291	18.00	340.0	100.0	.0	1.0	120.0
76	10	17	1200	291	20.50	340.0	35.0	.0	1.0	60.0
76	10	17	1300	291	16.50	340.0	40.0	.0	1.0	70.0
76	10	17	1400	291	23.00	345.0	20.0	.0	1.0	45.0
76	10	17	1500	291	20.50	345.0	15.0	.0	1.0	45.0
76	10	17	1600	291	23.00	345.0	15.0	.0	1.0	35.0
76	10	17	1700	291	22.00	345.0	15.0	.0	1.0	35.0
76	10	17	1800	291	17.00	350.0	15.0	.0	1.0	30.0
76	10	17	1900	291	11.50	325.0	30.0	.0	.0	50.0
76	10	17	2000	291	10.50	310.0	35.0	.0	.0	60.0
76	10	17	2100	291	5.00	345.0	150.0	.0	.0	165.0
76	10	17	2200	291	7.00	340.0	105.0	.0	.0	150.0
76	10	17	2300	291	3.50	55.0	360.0	.0	.0	360.0
76	10	18	0	292	2.00	250.0	325.0	.0	.0	360.0
76	10	18	100	292	3.00	80.0	270.0	.0	.0	25.0
76	10	18	200	292	77.70	777.7	777.7	.0	.0	777.7
76	10	18	300	292	3.00	50.0	90.0	.0	.0	120.0
76	10	18	400	292	3.50	40.0	120.0	.0	.0	135.0
76	10	18	500	292	77.70	777.7	777.7	.0	.0	777.7

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7

H E CRAMER CO INC

DATE 12/15/76

PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	16	600	292	2.00	355.0	255.0	.0	.0	270.0	
76	10	16	700	292	2.50	15.0	360.0	.0	.0	360.0	
76	10	18	800	292	2.50	15.0	360.0	.0	.0	360.0	
76	10	18	900	292	2.00	40.0	360.0	.0	.0	360.0	
76	10	18	1000	292	4.00	240.0	90.0	.0	.0	190.0	
76	10	18	1100	292	4.00	235.0	340.0	.0	.0	350.0	
76	10	18	1200	292	5.00	230.0	360.0	.0	.0	360.0	
75	10	18	1300	292	9.00	235.0	105.0	.0	.0	155.0	
75	10	18	1400	292	8.50	275.0	105.0	.0	.0	170.0	
76	10	18	1500	292	11.00	260.0	105.0	.0	.0	140.0	
76	10	18	1600	292	10.00	310.0	75.0	.0	.0	115.0	
76	10	18	1700	292	10.00	305.0	35.0	.0	.0	65.0	
76	10	18	1800	292	7.00	310.0	30.0	.0	.0	45.0	
75	10	18	1900	292	3.50	320.0	55.0	.0	.0	85.0	
76	10	18	2000	292	3.50	350.0	220.0	.0	.0	280.0	
75	10	18	2100	292	2.00	115.0	180.0	.0	.0	210.0	
76	10	18	2200	292	5.00	100.0	35.0	.0	.0	60.0	
76	10	18	2300	292	5.50	130.0	95.0	.0	.0	110.0	
76	10	19	0	293	2.50	150.0	360.0	.0	.0	360.0	
75	10	19	100	293	2.50	50.0	155.0	.0	.0	175.0	
76	10	19	200	293	3.00	55.0	85.0	.0	.0	120.0	
76	10	19	300	293	3.00	80.0	360.0	.0	.0	360.0	
76	10	19	400	293	4.00	40.0	45.0	.0	.0	65.0	
75	10	19	500	293	4.00	45.0	65.0	.0	.0	85.0	
76	10	19	600	293	3.50	35.0	45.0	.0	.0	180.0	
76	10	19	700	293	3.50	45.0	75.0	.0	.0	80.0	
76	10	19	800	293	3.00	50.0	110.0	.0	.0	140.0	
76	10	19	900	293	77.70	777.7	777.7	.0	1.0	777.7	
76	10	19	1000	293	2.50	195.0	360.0	.0	1.0	360.0	
76	10	19	1100	293	4.50	245.0	60.0	.0	1.0	125.0	
76	10	19	1200	293	6.00	240.0	45.0	.0	1.0	105.0	
76	10	19	1300	293	6.00	235.0	55.0	.0	1.0	95.0	
76	10	19	1400	293	6.00	230.0	35.0	.0	1.0	60.0	
75	10	19	1500	293	5.50	240.0	55.0	.0	1.0	95.0	
76	10	19	1600	293	6.00	235.0	55.0	.0	1.0	75.0	
76	10	19	1700	293	5.00	250.0	50.0	.0	1.0	90.0	
76	10	19	1800	293	4.00	320.0	60.0	.0	.0	90.0	
76	10	19	1900	293	2.00	320.0	95.0	.0	.0	120.0	
76	10	19	2000	293	2.00	325.0	195.0	.0	.0	205.0	
76	10	19	2100	293	2.00	65.0	165.0	.0	.0	195.0	
75	10	19	2200	293	2.50	55.0	145.0	.0	1.0	165.0	
76	10	19	2300	293	3.50	60.0	65.0	.0	.0	105.0	
76	10	20	0	294	4.50	50.0	60.0	.0	.0	85.0	
76	10	20	100	294	4.00	50.0	45.0	.0	.0	85.0	
76	10	20	200	294	3.50	45.0	60.0	.0	.0	110.0	
76	10	20	300	294	3.50	60.0	110.0	.0	.0	125.0	
76	10	20	400	294	3.00	45.0	155.0	.0	.0	240.0	
76	10	20	500	294	3.00	40.0	60.0	.0	.0	75.0	
75	10	20	600	294	3.00	40.0	75.0	.0	.0	100.0	
75	10	20	700	294	4.00	40.0	50.0	.0	.0	90.0	
76	10	20	800	294	3.50	50.0	165.0	.0	.0	180.0	
76	10	20	900	294	77.70	777.7	777.7	.0	.0	777.7	
1.	0	1	2	2	3	250	350	..	..	360	
1.	-0	1	2	2	5.00	230.0	95.0	..	..	150.0	

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	JULIAN	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	20	1200	294	6.00	240.0	65.0	.0	.0	120.0
76	10	20	1300	294	6.00	225.0	30.0	.0	.0	75.0
76	10	20	1400	294	6.00	235.0	35.0	.0	.0	60.0
76	10	20	1500	294	6.00	225.0	40.0	.0	.0	65.0
76	10	20	1500	294	5.50	220.0	45.0	.0	.0	90.0
76	10	20	1700	294	4.10	225.0	140.0	.0	.0	180.0
76	10	20	1800	294	2.50	311.0	360.0	.0	.0	360.0
76	10	20	1900	294	4.50	315.0	105.0	.0	.0	130.0
76	10	20	2000	294	2.00	65.0	160.0	.0	.0	170.0
76	10	20	2100	294	2.00	95.0	110.0	.0	.0	135.0
76	10	20	2200	294	77.70	777.7	777.7	.0	.0	777.7
76	10	20	2300	294	2.50	70.0	135.0	.0	.0	160.0
76	10	21	0	295	3.50	45.0	90.0	.0	.0	175.0
76	10	21	100	295	3.00	35.0	95.0	.0	.0	145.0
76	10	21	200	295	2.00	40.0	105.0	.0	.0	130.0
76	10	21	300	295	3.50	40.0	360.0	.0	.0	360.0
76	10	21	400	295	3.50	35.0	360.0	.0	.0	360.0
76	10	21	500	295	3.50	40.0	50.0	.0	.0	65.0
76	10	21	600	295	3.00	40.0	80.0	.0	.0	100.0
76	10	21	700	295	3.50	55.0	45.0	.0	.0	65.0
76	10	21	800	295	2.50	35.0	60.0	.0	.0	85.0
76	10	21	900	295	77.70	777.7	777.7	.0	.0	777.7
76	10	21	1000	295	2.00	315.0	215.0	.0	.0	270.0
76	10	21	1100	295	4.00	225.0	360.0	.0	.0	360.0
76	10	21	1200	295	6.00	250.0	30.0	.0	.0	60.0
76	10	21	1300	295	6.00	235.0	40.0	.0	.0	70.0
76	10	21	1400	295	6.00	230.0	30.0	.0	.0	60.0
76	10	21	1500	295	6.00	235.0	30.0	.0	.0	45.0
76	10	21	1600	295	3.50	225.0	55.0	.0	.0	105.0
76	10	21	1700	295	3.50	220.0	45.0	.0	.0	80.0
76	10	21	1800	295	2.50	75.0	220.0	.0	.0	225.0
76	10	21	1900	295	2.50	345.0	145.0	.0	.0	150.0
76	10	21	2000	295	2.50	100.0	220.0	.0	.0	300.0
76	10	21	2100	295	3.50	95.0	115.0	.0	.0	155.0
76	10	21	2200	295	77.70	777.7	777.7	.0	.0	777.7
76	10	21	2300	295	3.50	40.0	35.0	.0	.0	105.0
76	10	22	0	296	4.00	80.0	130.0	.0	.0	150.0
76	10	22	100	296	2.00	50.0	150.0	.0	.0	160.0
76	10	22	200	296	3.50	55.0	85.0	.0	.0	110.0
76	10	22	300	296	3.50	25.0	80.0	.0	.0	105.0
76	10	22	400	296	3.00	30.0	110.0	.0	.0	120.0
76	10	22	500	296	3.50	30.0	70.0	.0	.0	105.0
76	10	22	600	296	3.50	45.0	170.0	.0	.0	205.0
76	10	22	700	296	3.00	55.0	160.0	.0	.0	195.0
76	10	22	800	296	3.50	40.0	165.0	.0	.0	180.0
76	10	22	900	296	77.70	777.7	777.7	.0	.0	777.7
76	10	22	1000	296	2.50	255.0	210.0	.0	.0	220.0
76	10	22	1100	296	3.50	270.0	240.0	.0	.0	250.0
76	10	22	1200	296	6.00	240.0	60.0	.0	.0	105.0
76	10	22	1300	296	3.00	210.0	105.0	.0	.0	165.0
76	10	22	1400	296	4.50	235.0	70.0	.0	.0	105.0
76	10	22	1500	296	5.00	250.0	65.0	.0	.0	85.0
76	10	22	1600	296	4.00	225.0	105.0	.0	.0	120.0
76	10	22	1700	296	4.00	275.0	105.0	.0	.0	115.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	22	1800	296	5.50	325.0	75.0	.0	.0	85.0
76	10	22	1900	296	3.00	320.0	360.0	.0	.0	360.0
76	10	22	2000	296	2.50	355.0	215.0	.0	.0	230.0
75	10	22	2100	296	3.50	110.0	145.0	.0	.0	150.0
75	10	22	2200	296	4.00	120.0	60.0	.0	.0	85.0
76	10	22	2300	295	3.00	35.0	180.0	.0	.0	195.0
76	10	23	0	297	2.50	30.0	115.0	.0	.0	135.0
76	10	23	100	297	2.00	50.0	140.0	.0	.0	150.0
76	10	23	200	297	3.00	50.0	65.0	.0	.0	105.0
76	10	23	300	297	3.50	70.0	140.0	.0	.0	150.0
76	10	23	400	297	2.50	70.0	340.0	.0	1.0	360.0
76	10	23	500	297	3.00	40.0	125.0	.0	.0	125.0
75	10	23	600	297	3.00	40.0	80.0	.0	.0	90.0
76	10	23	700	297	3.00	40.0	65.0	.0	.0	105.0
76	10	23	800	297	2.50	75.0	135.0	.0	1.0	150.0
76	10	23	900	297	2.00	50.0	65.0	.0	.0	90.0
76	10	23	1000	297	3.50	999.9	999.9	.0	1.0	999.9
76	10	23	1100	297	5.50	999.9	999.9	.0	1.0	999.9
76	10	23	1200	297	5.50	999.9	999.9	.0	1.0	999.9
75	10	23	1300	297	5.50	999.9	999.9	.0	1.0	999.9
76	10	23	1400	297	5.00	999.9	999.9	.0	1.0	999.9
76	10	23	1500	297	5.00	245.0	30.0	.0	1.0	55.0
76	10	23	1600	297	5.50	270.0	45.0	.0	1.0	65.0
75	10	23	1700	297	10.00	330.0	70.0	.0	.0	95.0
76	10	23	1800	297	7.50	999.9	999.9	.0	.0	999.9
76	10	23	1900	297	5.00	999.9	999.9	.0	.0	999.9
76	10	23	2000	297	2.50	999.9	999.9	.0	.0	999.9
76	10	23	2100	297	3.00	999.9	999.9	.0	1.0	999.9
76	10	23	2200	297	4.50	999.9	999.9	.0	1.0	999.9
76	10	23	2300	297	4.00	999.9	999.9	.0	1.0	999.9
75	10	24	0	298	3.00	999.9	999.9	.0	.0	999.9
76	10	24	100	298	3.00	999.9	999.9	.0	.0	999.9
76	10	24	200	298	77.70	777.7	777.7	.0	.0	777.7
76	10	24	300	298	3.50	999.9	999.9	.0	.0	999.9
76	10	24	400	298	2.00	999.9	999.9	.0	.0	999.9
76	10	24	500	298	3.00	999.9	999.9	.0	.0	999.9
76	10	24	600	298	2.00	999.9	999.9	.0	.0	999.9
76	10	24	700	298	3.50	999.9	999.9	.0	.0	999.9
76	10	24	800	298	2.00	999.9	999.9	.0	.0	999.9
76	10	24	900	298	2.00	999.9	999.9	.0	.0	999.9
76	10	24	1000	298	3.00	999.9	999.9	.0	.0	999.9
76	10	24	1100	298	5.00	999.9	999.9	.0	.0	999.9
76	10	24	1200	298	6.00	999.9	999.9	.0	.0	999.9
76	10	24	1300	298	6.50	999.9	999.9	.0	.0	999.9
76	10	24	1400	298	4.50	999.9	999.9	.0	.0	999.9
76	10	24	1500	298	5.00	999.9	999.9	.0	.0	999.9
76	10	24	1600	298	5.50	999.9	999.9	.0	.0	999.9
75	10	24	1700	298	5.50	999.9	999.9	.0	.0	999.9
76	10	24	1800	298	3.00	999.9	999.9	.0	.0	999.9
76	10	24	1900	298	2.50	999.9	999.9	.0	.0	999.9
76	10	24	2000	298	4.00	999.9	999.9	.0	.0	999.9
76	10	24	2100	298	4.50	999.9	999.9	.0	.0	999.9
76	10	24	2200	298	4.00	999.9	999.9	.0	.0	999.9
		24			99	99	99	.0	.0	999

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENV02 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	25	0	299	3.00	999.9	999.9	.0	.0	999.9
76	10	25	100	299	3.00	999.9	999.9	.0	.0	999.9
76	10	25	200	299	3.00	999.9	999.9	.0	.0	999.9
76	10	25	300	299	3.00	999.9	999.9	.0	.0	999.9
76	10	25	400	299	2.50	999.9	999.9	.0	.0	999.9
76	10	25	500	299	2.50	999.9	999.9	.0	.0	999.9
76	10	25	600	299	2.50	999.9	999.9	.0	.0	999.9
76	10	25	700	299	3.00	999.9	999.9	.0	.0	999.9
76	10	25	800	299	2.00	999.9	999.9	.0	.0	999.9
76	10	25	900	299	2.50	999.9	999.9	.0	.0	999.9
76	10	25	1000	299	15.00	999.9	999.9	.0	.0	999.9
76	10	25	1100	299	22.50	999.9	999.9	.0	.0	999.9
76	10	25	1200	299	16.50	999.9	999.9	.0	.0	999.9
76	10	25	1300	299	16.00	999.9	999.9	.0	.0	999.9
76	10	25	1400	299	18.50	999.9	999.9	.0	.0	999.9
76	10	25	1500	299	15.00	999.9	999.9	.0	.0	999.9
76	10	25	1600	299	15.50	999.9	999.9	.0	.0	999.9
76	10	25	1700	299	12.50	999.9	999.9	.0	.0	999.9
76	10	25	1800	299	7.00	999.9	999.9	.0	.0	999.9
76	10	25	1900	299	8.50	999.9	999.9	.0	.0	999.9
76	10	25	2000	299	8.50	999.9	999.9	.0	.0	999.9
76	10	25	2100	299	7.50	999.9	999.9	.0	.0	999.9
76	10	25	2200	299	2.50	999.9	999.9	.0	.0	999.9
76	10	25	2300	299	7.50	999.9	999.9	.0	.0	999.9
76	10	25	0	300	4.00	999.9	999.9	.0	.0	999.9
76	10	26	100	300	3.00	999.9	999.9	.0	.0	999.9
76	10	26	200	300	3.50	999.9	999.9	.0	.0	999.9
76	10	26	300	300	3.00	999.9	999.9	.0	.0	999.9
76	10	26	400	300	2.50	999.9	999.9	.0	.0	999.9
76	10	26	500	300	3.00	999.9	999.9	.0	.0	999.9
76	10	26	600	300	7.50	999.9	999.9	.0	.0	999.9
76	10	26	700	300	8.00	999.9	999.9	.0	.0	999.9
76	10	26	800	300	8.00	999.9	999.9	.0	.0	999.9
76	10	26	900	300	10.50	999.9	999.9	.0	.0	999.9
76	10	26	1000	300	7.00	999.9	999.9	.0	.0	999.9
76	10	26	1100	300	10.00	999.9	999.9	.0	.0	999.9
76	10	26	1200	300	6.50	999.9	999.9	.0	.0	999.9
76	10	26	1300	300	16.00	335.0	30.0	.0	.0	50.0
76	10	26	1400	300	13.50	340.0	75.0	.0	.0	115.0
76	10	26	1500	300	12.50	335.0	85.0	.0	.0	115.0
76	10	26	1600	300	12.50	335.0	115.0	.0	.0	185.0
76	10	26	1700	300	6.00	65.0	150.0	.0	.0	160.0
76	10	26	1800	300	3.50	51.0	205.0	.0	.0	225.0
76	10	26	1900	300	3.00	19.0	360.0	.0	.0	360.0
76	10	26	2000	300	3.50	45.0	360.0	.0	.0	360.0
76	10	26	2100	300	3.00	255.0	360.0	.0	.0	360.0
76	10	26	2200	300	2.50	45.0	360.0	.0	.0	360.0
76	10	26	2300	300	4.00	100.0	335.0	.0	.0	345.0
76	10	27	0	301	3.00	25.0	215.0	.0	.0	245.0
76	10	27	100	301	3.50	65.0	95.0	.0	.0	130.0
76	10	27	200	301	3.50	35.0	175.0	.0	.0	200.0
76	10	27	300	301	3.00	55.0	130.0	.0	.0	165.0
76	10	27	400	301	3.50	40.0	195.0	.0	.0	230.0
76	10	27	500	301	2.50	90.0	180.0	.0	.0	235.0

(C-3)

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7							H E CRAMER CO INC	DATE 12/15/76	PAGE	
YEAR	MONTH	DAY	HOUR	JULIA.	DAY SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK

76	10	27	600	301	4.00	100.0	65.0	.0	.0	90.0
76	10	27	700	301	3.50	60.0	140.0	.0	.0	170.0
76	10	27	800	301	3.00	55.0	135.0	.0	.0	180.0
76	10	27	900	301	2.00	45.0	105.0	.0	.0	155.0
76	10	27	1000	301	4.50	215.0	170.0	.0	.0	205.0
76	10	27	1100	301	5.00	235.0	75.0	.0	.0	100.0
76	10	27	1200	301	5.50	250.0	45.0	.0	.0	85.0
76	10	27	1300	301	6.00	240.0	35.0	.0	.0	60.0
76	10	27	1400	301	7.00	250.0	90.0	.0	.0	120.0
76	10	27	1500	301	7.00	250.0	105.0	.0	.0	125.0
76	10	27	1600	301	6.00	330.0	90.0	.0	.0	125.0
76	10	27	1700	301	7.50	330.0	50.0	.0	.0	75.0
76	10	27	1800	301	5.50	350.0	40.0	.0	.0	60.0
76	10	27	1900	301	4.50	265.0	55.0	.0	.0	75.0
76	10	27	2000	301	3.50	30.0	180.0	.0	.0	195.0
76	10	27	2100	301	4.00	35.0	155.0	.0	.0	170.0
76	10	27	2200	301	3.50	65.0	55.0	.0	.0	75.0
76	10	27	2300	301	3.50	60.0	50.0	.0	.0	70.0
76	10	28	0	302	3.50	35.0	100.0	.0	.0	145.0
76	10	28	100	302	4.00	45.0	25.0	.0	.0	40.0
76	10	28	200	302	3.00	35.0	130.0	.0	.0	150.0
76	10	28	300	302	2.00	50.0	125.0	.0	.0	155.0
76	10	28	400	302	3.00	50.0	115.0	.0	.0	150.0
76	10	28	500	302	3.00	35.0	65.0	.0	.0	80.0
76	10	28	600	302	2.50	35.0	80.0	.0	.0	110.0
76	10	28	700	302	3.50	50.0	70.0	.0	.0	85.0
76	10	28	800	302	2.50	65.0	115.0	.0	.0	125.0
76	10	28	900	302	77.70	777.7	777.7	.0	.0	777.7
76	10	28	1000	302	77.70	777.7	777.7	.0	.0	777.7
76	10	28	1100	302	5.00	230.0	180.0	.0	1.0	215.0
76	10	28	1200	302	6.00	245.0	40.0	.0	1.0	80.0
76	10	28	1300	302	6.00	240.0	45.0	.0	1.0	75.0
76	10	28	1400	302	6.50	235.0	25.0	.0	1.0	55.0
76	10	28	1500	302	5.50	220.0	55.0	.0	1.0	60.0
76	10	28	1600	302	7.00	25.0	25.0	.0	1.0	50.0
76	10	28	1700	302	5.50	205.0	15.0	.0	1.0	40.0
76	10	28	1800	302	3.50	150.0	30.0	.0	1.0	60.0
76	10	28	1900	302	4.50	35.0	115.0	.0	.0	180.0
76	10	28	2000	302	2.50	25.0	105.0	.0	.0	135.0
76	10	28	2100	302	2.50	55.0	50.0	.0	.0	70.0
76	10	28	2200	302	3.50	65.0	75.0	.0	.0	100.0
76	10	28	2300	302	3.00	110.0	100.0	.0	.0	140.0
76	10	29	0	303	3.00	115.0	145.0	.0	1.0	165.0
76	10	29	100	303	3.00	25.0	20.0	.0	.0	105.0
76	10	29	200	303	3.50	70.0	95.0	.0	.0	100.0
76	10	29	300	303	2.50	40.0	170.0	.0	.0	215.0
76	10	29	400	303	3.00	55.0	80.0	.0	.0	95.0
76	10	29	500	303	3.00	55.0	130.0	.0	.0	150.0
76	10	29	600	303	3.50	60.0	165.0	.0	.0	220.0
76	10	29	700	303	2.50	70.0	70.0	.0	.0	135.0
76	10	29	800	303	77.70	777.7	777.7	.0	.0	777.7
76	10	29	900	303	2.00	45.0	105.0	.0	.0	250.0
76	10	29	1000	303	3.00	260.0	240.0	.0	.0	220.0
19	1				4	24	4			80

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIAN DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	10	29	1200	303	6.00	235.0	55.0	.0	.0	90.0
76	10	29	1300	303	6.00	250.0	45.0	.0	.0	95.0
76	10	29	1400	303	5.00	245.0	50.0	.0	.0	100.0
76	10	29	1500	303	4.00	255.0	45.0	.0	.0	75.0
76	10	29	1500	303	4.00	255.0	30.0	.0	.0	70.0
76	10	29	1700	303	3.00	275.0	105.0	.0	.0	185.0
75	10	29	1800	303	2.50	340.0	90.0	.0	.0	115.0
76	10	29	1900	303	2.50	195.0	360.0	.0	.0	360.0
76	10	29	2000	303	3.00	75.0	70.0	.0	.0	115.0
76	10	29	2100	303	3.50	255.0	360.0	.0	.0	360.0
76	10	29	2200	303	3.50	240.0	310.0	.0	.0	325.0
76	10	29	2300	303	2.50	65.0	65.0	.0	.0	110.0
76	10	30	0	304	2.50	40.0	95.0	.0	.0	120.0
76	10	30	100	304	3.00	80.0	90.0	.0	.0	115.0
76	10	30	200	304	3.00	260.0	350.0	.0	.0	355.0
76	10	30	300	304	3.00	65.0	110.0	.0	.0	195.0
76	10	30	400	304	2.50	40.0	140.0	.0	.0	150.0
76	10	30	500	304	3.50	275.0	335.0	.0	.0	360.0
76	10	30	600	304	3.00	70.0	130.0	.0	1.0	175.0
76	10	30	700	304	3.00	50.0	45.0	.0	.0	130.0
76	10	30	800	304	3.00	50.0	90.0	.0	.0	115.0
76	10	30	900	304	2.50	220.0	180.0	.0	1.0	200.0
76	10	30	1000	304	2.50	340.0	280.0	.0	1.0	345.0
76	10	30	1100	304	5.00	210.0	80.0	.0	1.0	215.0
76	10	30	1200	304	5.00	245.0	35.0	.0	1.0	105.0
76	10	30	1300	304	4.50	245.0	35.0	.0	1.0	70.0
76	10	30	1400	304	5.00	235.0	30.0	.0	1.0	70.0
76	10	30	1500	304	5.00	225.0	35.0	.0	1.0	65.0
76	10	30	1600	304	5.50	210.0	45.0	.0	1.0	65.0
76	10	30	1700	304	5.50	250.0	75.0	.0	1.0	115.0
76	10	30	1800	304	2.50	210.0	360.0	.0	1.0	360.0
76	10	30	1900	304	3.50	310.0	360.0	.0	1.0	350.0
76	10	30	2000	304	3.50	60.0	55.0	.0	.0	75.0
76	10	30	2100	304	3.50	70.0	120.0	.0	.0	135.0
76	10	30	2200	304	2.50	310.0	345.0	.0	1.0	360.0
76	10	30	2300	304	3.00	65.0	105.0	.0	.0	135.0
76	10	31	0	305	2.50	60.0	95.0	.0	.0	115.0
76	10	31	100	305	3.50	40.0	150.0	.0	.0	360.0
76	10	31	200	305	3.00	55.0	165.0	.0	.0	235.0
76	10	31	300	305	3.00	75.0	110.0	.0	.0	120.0
76	10	31	400	305	3.00	35.0	190.0	.0	.0	270.0
76	10	31	500	305	2.50	60.0	45.0	.0	.0	165.0
76	10	31	600	305	3.50	70.0	75.0	.0	.0	90.0
76	10	31	700	305	3.50	360.0	360.0	.0	.0	360.0
76	10	31	800	305	3.00	70.0	90.0	.0	.0	105.0
76	10	31	900	305	2.50	55.0	145.0	.0	.0	180.0
76	10	31	1000	305	3.00	290.0	195.0	.0	.0	265.0
75	10	31	1100	305	3.5	4.00	250.0	125.0	.0	180.0
76	10	31	1200	305	3.50	200.0	240.0	.0	.0	320.0
76	10	31	1300	305	3.50	200.0	40.0	.0	.0	100.0
76	10	31	1400	305	6.00	999.9	999.9	.0	.0	999.9
76	10	31	1500	305	4.00	999.9	999.9	.0	.0	999.9
76	10	31	1600	305	3.50	959.9	999.9	.0	.0	999.9
76	10	31	1700	305	2.50	999.9	999.9	.0	.0	999.9

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIA	DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	10	31	1800	3.5	4.00	335.0	150.0	.0	.0		195.0
76	10	31	1900	3.5	3.00	275.0	345.0	.0	.0		360.0
76	10	31	2000	3.5	2.50	155.0	185.0	.0	.0		215.0
76	10	31	2100	3.5	2.00	20.0	330.0	.0	.0		360.0
76	10	31	2200	3.5	5.00	155.0	150.0	.0	.0		215.0
76	10	31	2300	3.5	5.50	100.0	175.0	.0	.0		215.0
76	11	1	0	3.6	3.50	70.0	135.0	.0	.0		150.0
76	11	1	100	3.6	2.50	40.0	60.0	.0	.0		100.0
76	11	1	200	3.6	3.00	75.0	110.0	.0	.0		135.0
76	11	1	300	3.6	3.50	40.0	90.0	.0	.0		130.0
76	11	1	400	3.6	2.50	55.0	65.0	.0	.0		140.0
76	11	1	500	3.6	3.00	65.0	70.0	.0	.0		85.0
76	11	1	600	3.6	3.00	70.0	200.0	.0	.0		230.0
76	11	1	700	3.6	3.00	95.0	315.0	.0	.0		330.0
76	11	1	800	3.6	2.50	65.0	120.0	.0	.0		225.0
76	11	1	900	3.6	2.50	30.0	270.0	.0	.0		345.0
76	11	1	1000	3.6	2.50	155.0	360.0	.0	.0		360.0
76	11	1	1100	3.6	3.50	250.0	155.0	.0	.0		300.0
76	11	1	1200	3.6	5.00	225.0	360.0	.0	.0		350.0
76	11	1	1300	3.6	6.00	230.0	45.0	.0	.0		75.0
76	11	1	1400	3.6	5.50	255.0	30.0	.0	.0		75.0
76	11	1	1500	3.6	4.50	255.0	30.0	.0	.0		55.0
76	11	1	1600	3.6	4.50	265.0	35.0	.0	.0		95.0
76	11	1	1700	3.6	4.00	275.0	65.0	.0	.0		110.0
76	11	1	1800	3.6	2.50	355.0	150.0	.0	.0		180.0
76	11	1	1900	3.6	2.00	325.0	205.0	.0	.0		215.0
76	11	1	2000	3.6	3.00	255.0	155.0	.0	.0		200.0
76	11	1	2100	3.6	4.50	150.0	105.0	.0	.0		150.0
76	11	1	2200	3.6	4.00	140.0	140.0	.0	.0		160.0
76	11	1	2300	3.6	3.00	145.0	360.0	.0	.0		360.0
76	11	2	0	3.7	3.00	150.0	305.0	.0	.0		360.0
76	11	2	100	3.7	3.50	55.0	320.0	.0	1.0		345.0
76	11	2	200	3.7	3.50	360.0	150.0	.0	.0		195.0
76	11	2	300	3.7	4.00	50.0	45.0	.0	.0		80.0
76	11	2	400	3.7	2.50	50.0	75.0	.0	.0		95.0
76	11	2	500	3.7	4.00	50.0	55.0	.0	.0		75.0
76	11	2	600	3.7	3.00	50.0	190.0	.0	.0		240.0
76	11	2	700	3.7	3.50	55.0	80.0	.0	.0		135.0
76	11	2	800	3.7	2.50	53.0	110.0	.0	.0		125.0
76	11	2	900	3.7	2.50	20.0	135.0	.0	.0		210.0
76	11	2	1000	3.7	3.50	240.0	275.0	.0	1.0		360.0
76	11	2	1100	3.7	5.50	245.0	35.0	.0	1.0		70.0
76	11	2	1200	3.7	6.00	245.0	25.0	.0	1.0		65.0
76	11	2	1300	3.7	5.50	225.0	30.0	.0	1.0		60.0
76	11	2	1400	3.7	5.50	230.0	30.0	.0	1.0		60.0
76	11	2	1500	3.7	5.00	230.0	30.0	.0	1.0		75.0
76	11	2	1600	3.7	4.00	200.0	45.0	.0	1.0		120.0
76	11	2	1700	3.7	2.00	220.0	185.0	.0	1.0		215.0
76	11	2	1800	3.7	2.50	50.0	185.0	.0	1.0		190.0
76	11	2	1900	3.7	3.50	30.0	145.0	.0	.0		210.0
76	11	2	2000	3.7	2.30	55.0	90.0	.0	.0		140.0
76	11	2	2100	3.7	3.00	55.0	60.0	.0	.0		95.0
76	11	2	2200	3.7	4.00	85.0	140.0	.0	.0		175.0

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENV02 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR MONTH DAY HOUR JULIA DAY SPEED DIRECTION RANGE TEMPERATURE WA PEAK TO PEAK

76	11	3	0	308	3.50	70.0	60.0	.0	.0	110.0
76	11	3	100	309	3.00	30.0	75.0	.0	.0	175.0
76	11	3	200	318	2.50	80.0	110.0	.0	.0	165.0
76	11	3	300	308	2.50	55.0	90.0	.0	.0	110.0
76	11	3	400	308	3.00	30.0	35.0	.0	.0	65.0
76	11	3	500	308	3.00	35.0	50.0	.0	.0	65.0
76	11	3	600	308	2.50	50.0	95.0	.0	.0	130.0
76	11	3	700	308	3.00	50.0	60.0	.0	.0	50.0
76	11	3	800	308	2.50	45.0	35.0	.0	.0	75.0
76	11	3	900	308	2.50	30.0	90.0	.0	.0	120.0
76	11	3	1000	308	3.00	205.0	130.0	.0	.0	225.0
76	11	3	1100	308	4.50	240.0	35.0	.0	.0	90.0
76	11	3	1200	308	6.50	220.0	35.0	.0	.0	75.0
76	11	3	1300	308	6.50	230.0	30.0	.0	.0	60.0
76	11	3	1400	308	6.00	230.0	30.0	.0	.0	75.0
76	11	3	1500	308	5.50	210.0	45.0	.0	.0	90.0
76	11	3	1600	308	6.50	200.0	40.0	.0	.0	65.0
76	11	3	1700	308	5.50	195.0	110.0	.0	.0	155.0
76	11	3	1800	308	6.50	320.0	105.0	.0	.0	125.0
76	11	3	1900	308	3.50	245.0	360.0	.0	.0	350.0
76	11	3	2000	308	4.00	45.0	360.0	.0	.0	360.0
75	11	3	2100	308	3.50	125.0	170.0	.0	.0	190.0
76	11	3	2200	308	3.8	90.0	360.0	.0	.0	360.0
76	11	3	2300	308	3.8	50.0	200.0	.0	.0	225.0
76	11	4	0	309	4.00	55.0	130.0	.0	.0	165.0
76	11	4	100	309	3.00	100.0	130.0	.0	.0	215.0
76	11	4	200	309	3.00	50.0	55.0	.0	.0	120.0
76	11	4	300	309	2.50	65.0	95.0	.0	.0	110.0
76	11	4	400	309	2.50	40.0	90.0	.0	.0	105.0
76	11	4	500	309	3.00	55.0	75.0	.0	.0	95.0
76	11	4	600	309	3.00	50.0	65.0	.0	.0	85.0
75	11	4	700	309	3.50	25.0	90.0	.0	.0	125.0
76	11	4	800	309	3.00	350.0	360.0	.0	.0	360.0
76	11	4	900	309	2.50	35.0	190.0	.0	1.0	215.0
76	11	4	1000	309	3.00	275.0	125.0	.0	1.0	165.0
76	11	4	1100	309	4.00	265.0	360.0	.0	1.0	360.0
76	11	4	1200	309	7.00	240.0	30.0	.0	1.0	60.0
76	11	4	1300	309	6.50	230.0	35.0	.0	1.0	55.0
76	11	4	1400	309	5.50	245.0	30.0	.0	1.0	70.0
76	11	4	1500	309	4.50	235.0	30.0	.0	1.0	60.0
76	11	4	1600	309	4.50	235.0	30.0	.0	1.0	60.0
76	11	4	1700	309	3.50	255.0	55.0	.0	1.0	105.0
76	11	4	1800	309	3.00	30.0	130.0	.0	.0	140.0
76	11	4	1900	309	2.00	60.0	140.0	.0	.0	160.0
76	11	4	2000	309	2.50	210.0	360.0	.0	.0	360.0
76	11	4	2100	309	77.70	777.7	777.7	.0	1.0	777.7
76	11	4	2200	309	3.00	40.0	70.0	.0	.0	90.0
76	11	4	2300	309	2.50	50.0	75.0	.0	.0	100.0
76	11	5	0	310	3.00	55.0	90.0	.0	.0	135.0
76	11	5	100	310	3.00	50.0	70.0	.0	.0	90.0
76	11	5	200	310	2.00	95.0	120.0	.0	.0	150.0
76	11	5	300	310	3.50	45.0	65.0	.0	.0	85.0
76	11	5	400	310	3.00	50.0	120.0	.0	.0	155.0
75	11	5	500	310	2.00	95.0	80.0	.0	.0	105.0

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Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7

H E CRAMER CO INC

DATE 12/15/76

PAGE

YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	11	5	600	310	3.00	30.0	75.0	.0	.0	255.0
76	11	5	700	310	2.50	50.0	30.0	.0	.0	75.0
76	11	5	800	310	3.00	35.0	75.0	.0	.0	125.0
76	11	5	900	310	2.00	55.0	100.0	.0	.0	135.0
76	11	5	1000	310	2.00	355.0	20.0	.0	.0	115.0
76	11	5	1100	310	4.00	255.0	170.0	.0	.0	315.0
76	11	5	1200	310	5.00	255.0	35.0	.0	.0	70.0
76	11	5	1300	310	6.00	240.0	35.0	.0	.0	55.0
76	11	5	1400	310	5.50	245.0	25.0	.0	.0	70.0
76	11	5	1500	310	5.00	240.0	15.0	.0	.0	50.0
76	11	5	1600	310	3.50	240.0	15.0	.0	.0	45.0
76	11	5	1700	310	2.00	275.0	110.0	.0	.0	160.0
76	11	5	1800	310	77.70	777.7	777.7	.0	.0	777.7
76	11	5	1900	310	2.50	50.0	75.0	.0	.0	90.0
76	11	5	2000	310	3.00	35.0	50.0	.0	.0	80.0
76	11	5	2100	310	2.00	110.0	270.0	.0	.0	285.0
76	11	5	2200	310	2.50	60.0	210.0	.0	.0	230.0
76	11	5	2300	310	3.50	45.0	55.0	.0	.0	90.0
76	11	6	0	311	2.50	35.0	40.0	.0	.0	80.0
76	11	6	100	311	2.50	45.0	50.0	.0	.0	95.0
76	11	6	200	311	3.00	50.0	65.0	.0	.0	115.0
76	11	6	300	311	3.00	70.0	95.0	.0	.0	330.0
76	11	6	400	311	3.50	80.0	255.0	.0	.0	140.0
76	11	6	500	311	3.00	45.0	110.0	.0	.0	165.0
76	11	6	600	311	3.00	55.0	85.0	.0	.0	165.0
76	11	6	700	311	2.00	105.0	120.0	.0	.0	140.0
76	11	6	800	311	2.50	50.0	125.0	.0	.0	777.7
76	11	6	900	311	77.70	777.7	777.7	.0	.0	350.0
76	11	6	1000	311	2.50	150.0	360.0	.0	.0	180.0
76	11	6	1100	311	5.50	253.0	140.0	.0	.0	75.0
76	11	6	1200	311	5.50	250.0	40.0	.0	.0	70.0
76	11	6	1300	311	5.50	230.0	35.0	.0	.0	60.0
76	11	6	1400	311	5.50	225.0	40.0	.0	.0	60.0
76	11	6	1500	311	4.50	220.0	35.0	.0	.0	50.0
76	11	6	1600	311	4.50	230.0	20.0	.0	.0	95.0
76	11	6	1700	311	3.00	210.0	185.0	.0	.0	225.0
76	11	6	1800	311	2.00	240.0	360.0	.0	.0	360.0
76	11	6	1900	311	2.00	190.0	360.0	.0	.0	360.0
76	11	6	2000	311	3.00	90.0	210.0	.0	.0	235.0
76	11	6	2100	311	3.00	50.0	75.0	.0	.0	140.0
76	11	6	2200	311	2.50	50.0	110.0	.0	.0	360.0
76	11	6	2300	311	3.00	20.0	250.0	.0	.0	90.0
76	11	7	0	312	2.50	65.0	55.0	.0	.0	190.0
76	11	7	100	312	3.00	30.0	90.0	.0	.0	165.0
76	11	7	200	312	3.00	35.0	55.0	.0	.0	205.0
76	11	7	300	312	3.00	50.0	125.0	.0	.0	135.0
76	11	7	400	312	3.50	40.0	75.0	.0	.0	330.0
76	11	7	500	312	2.50	215.0	310.0	.0	.0	155.0
76	11	7	600	312	3.00	50.0	115.0	.0	.0	360.0
76	11	7	700	312	3.00	215.0	350.0	.0	.0	120.0
76	11	7	800	312	2.50	35.0	90.0	.0	.0	135.0
76	11	7	900	312	2.00	5.0	110.0	.0	.0	777.7
		7	1		77	777	77			255
		7	1...	...	3...	175...	19...	..	..

(C-3)

Table C-3 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - FALL

AIRWAY ANALYSIS STATION ID-GENVO2 SEPT 1-NOV 7 H E CRAMER CO INC DATE 12/15/76 PAGE

YEAR	MONTH	DAY	HOUR	JULIAN DAY	SPEED	DIRECTION	RANGE	TEMPERATURE	WA	PEAK TO PEAK
76	11	7	1200	312	5.50	250.0	175.0	.0	.0	300.0
76	11	7	1300	312	5.00	250.0	25.0	.0	.0	60.0
76	11	7	1400	312	6.50	245.0	20.0	.0	.0	40.0
76	11	7	1500	312	4.00	240.0	30.0	.0	.0	65.0
76	11	7	1600	312	3.00	260.0	25.0	.0	.0	55.0
76	11	7	1700	312	2.50	285.0	180.0	.0	.0	200.0
76	11	7	1800	312	77.70	777.7	777.7	.0	.0	777.7
76	11	7	1900	312	77.70	777.7	777.7	.0	.0	777.7
76	11	7	2000	312	2.50	140.0	240.0	.0	.0	255.0
76	11	7	2100	312	3.00	30.0	200.0	.0	.0	200.0
76	11	7	2200	312	3.00	55.0	65.0	.0	.0	170.0
76	11	7	2300	312	2.50	45.0	50.0	.0	.0	70.0

Table C-4

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STATION PAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAMCO CO											DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SECTOR	(Calm = 77--)
							(MPH)	(DEG)	(DFU)	(DEG)	HIVOL IND.	(MISSING = 99--)
	GLNV	02	76	11	19	22	324	99.9	80.0	55.0	80.0	0
	GLNV	02	76	11	19	23	324	99.9	40.0	45.0	60.0	0
	GLNV	02	76	11	20	0	325	99.9	40.0	60.0	100.0	0
	GLNV	02	76	11	20	1	325	99.9	50.0	300.0	300.0	0
	GLNV	02	76	11	20	2	325	99.9	75.0	75.0	100.0	0
	GLNV	02	76	11	20	3	325	99.9	50.0	75.0	85.0	0
	GLNV	02	76	11	20	4	325	99.9	30.0	75.0	95.0	0
	GLNV	02	76	11	20	5	325	99.9	65.0	95.0	100.0	0
	GLNV	02	76	11	20	6	325	99.9	75.0	65.0	80.0	0
	GLNV	02	76	11	20	7	325	99.9	35.0	65.0	85.0	0
	GLNV	02	76	11	20	8	325	99.9	35.0	40.0	50.0	0
	GLNV	02	76	11	20	9	325	99.9	35.0	50.0	60.0	0
	GLNV	02	76	11	20	10	325	99.9	210.0	215.0	285.0	0
	GLNV	02	76	11	20	11	325	99.9	240.0	60.0	90.0	0
	GLNV	02	76	11	20	12	325	99.9	245.0	35.0	70.0	0
	GLNV	02	76	11	20	13	325	99.9	230.0	30.0	55.0	0
	GLNV	02	76	11	20	14	325	99.9	230.0	60.0	75.0	0
	GLNV	02	76	11	20	15	325	99.9	215.0	40.0	65.0	0
	GLNV	02	76	11	20	16	325	99.9	205.0	115.0	140.0	0
	GLNV	02	76	11	20	17	325	99.9	315.0	55.0	45.0	0
	GLNV	02	76	11	20	18	325	99.9	310.0	300.0	360.0	0
	GLNV	02	76	11	20	19	325	99.9	270.0	300.0	350.0	0
	GLNV	02	76	11	20	20	325	99.9	125.0	125.0	145.0	0
	GLNV	02	76	11	20	21	325	99.9	145.0	65.0	85.0	0
	GLNV	02	76	11	20	22	325	99.9	105.0	255.0	290.0	0
	GLNV	02	76	11	20	23	325	99.9	55.0	90.0	105.0	0
	GLNV	02	76	11	21	0	320	99.9	35.0	70.0	100.0	0
	GLNV	02	76	11	21	1	320	99.9	55.0	70.0	85.0	0
	GLNV	02	76	11	21	2	320	99.9	35.0	55.0	65.0	0
	GLNV	02	76	11	21	3	320	99.9	55.0	75.0	110.0	0
	GLNV	02	76	11	21	4	320	99.9	45.0	165.0	205.0	0
	GLNV	02	76	11	21	5	320	99.9	65.0	60.0	90.0	0
	GLNV	02	76	11	21	6	320	99.9	55.0	95.0	105.0	0
	GLNV	02	76	11	21	7	320	99.9	45.0	70.0	85.0	0
	GLNV	02	76	11	21	8	320	99.9	65.0	55.0	75.0	0
	GLNV	02	76	11	21	9	320	99.9	25.0	90.0	150.0	0
	GLNV	02	76	11	21	10	320	99.9	315.0	270.0	315.0	0
	GLNV	02	76	11	21	11	320	99.9	165.0	115.0	160.0	0
	GLNV	02	76	11	21	12	320	99.9	250.0	40.0	75.0	0
	GLNV	02	76	11	21	13	320	99.9	230.0	30.0	60.0	0
	GLNV	02	76	11	21	14	320	5.5	235.0	35.0	55.0	0
	GLNV	02	76	11	21	15	320	5.0	250.0	30.0	40.0	0
	GLNV	02	76	11	21	16	320	4.0	255.0	35.0	55.0	0
	GLNV	02	76	11	21	17	320	77.7	777.7	777.7	777.7	0
	GLNV	02	76	11	21	18	320	77.7	777.7	777.7	777.7	0
	GLNV	02	76	11	21	19	320	77.7	777.7	777.7	777.7	0
	GLNV	02	76	11	21	20	320	4.0	55.0	65.0	100.0	0
	GLNV	02	76	11	21	21	320	5.5	55.0	120.0	110.0	0
	GLNV	02	76	11	21	22	320	5.0	55.0	60.0	10.0	0
	GLNV	02	76	11	21	23	320	5.0	55.0	55.0	110.0	0
	GLNV	02	76	11	21	24	327	3.5	55.0	65.0	90.0	0
	GLNV	02	76	11	21	25	327	2.5	25.0	165.0	165.0	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GLHEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRANCO CO

DATE 02/14/77 PAGE

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED (KLOC)	WIND DIRECTION (LGT)	RANGE (DLG)	PEAK TO PEAK (DLG)	WIND SECTOR (HIVOL IPN)	(CMIN = 77---)
							(PPH)		(DLG)			(MIN.SINU = 49---)
GLHV	02	76	11	22	2	327	3.0	45.0	80.0	105.0	0	
GLHV	02	76	11	22	3	327	2.0	75.0	110.0	130.0	0	
GLHV	02	76	11	22	4	327	2.5	40.0	65.0	90.0	0	
GLHV	02	76	11	22	5	327	3.0	35.0	45.0	60.0	0	
GLHV	02	76	11	22	6	327	2.5	40.0	80.0	120.0	0	
GLHV	02	76	11	22	7	327	3.0	70.0	195.0	215.0	0	
GLHV	02	76	11	22	8	327	2.5	70.0	85.0	105.0	0	
GLHV	02	76	11	22	9	327	3.0	45.0	120.0	140.0	0	
GLHV	02	76	11	22	10	327	2.5	310.0	145.0	145.0	0	
GLHV	02	76	11	22	11	327	3.5	45.0	75.0	105.0	0	
GLHV	02	76	11	22	12	327	4.0	230.0	130.0	165.0	0	
GLHV	02	76	11	22	13	327	0.0	220.0	130.0	175.0	0	
GLHV	02	76	11	22	14	327	0.5	230.0	25.0	40.0	0	
GLHV	02	76	11	22	15	327	0.5	210.0	35.0	65.0	0	
GLHV	02	76	11	22	16	327	0.5	215.0	25.0	55.0	0	
GLHV	02	76	11	22	17	327	4.0	190.0	120.0	120.0	0	
GLHV	02	76	11	22	18	327	3.0	75.0	115.0	140.0	0	
GLHV	02	76	11	22	19	327	3.0	10.0	140.0	160.0	0	
GLHV	02	76	11	22	20	327	2.0	335.0	305.0	360.0	0	
GLHV	02	76	11	22	21	327	3.0	35.0	155.0	180.0	0	
GLHV	02	76	11	22	22	327	0.5	45.0	150.0	200.0	0	
GLHV	02	76	11	22	23	327	3.5	55.0	135.0	160.0	0	
GLHV	02	76	11	23	0	328	3.0	10.0	120.0	135.0	0	
GLHV	02	76	11	23	1	328	5.0	30.0	125.0	145.0	0	
GLHV	02	76	11	23	2	328	5.0	5.0	190.0	205.0	0	
GLHV	02	76	11	23	3	328	2.0	60.0	155.0	175.0	0	
GLHV	02	76	11	23	4	328	3.0	25.0	65.0	80.0	0	
GLHV	02	76	11	23	5	328	2.5	45.0	125.0	150.0	0	
GLHV	02	76	11	23	6	328	4.5	40.0	25.0	45.0	0	
GLHV	02	76	11	23	7	328	77.7	777.7	777.7	777.7	0	
GLHV	02	76	11	23	8	328	2.5	40.0	75.0	100.0	0	
GLHV	02	76	11	23	9	328	2.0	65.0	105.0	125.0	0	
GLHV	02	76	11	23	10	328	3.0	330.0	245.0	270.0	0	
GLHV	02	76	11	23	11	328	3.0	270.0	220.0	240.0	0	
GLHV	02	76	11	23	12	328	5.5	240.0	45.0	65.0	0	
GLHV	02	76	11	23	13	328	5.5	235.0	40.0	60.0	0	
GLHV	02	76	11	23	14	328	5.5	215.0	30.0	50.0	0	
GLHV	02	76	11	23	15	328	0.0	215.0	20.0	50.0	0	
GLHV	02	76	11	23	16	328	4.0	215.0	30.0	50.0	0	
GLHV	02	76	11	23	17	328	3.0	200.0	150.0	205.0	0	
GLHV	02	76	11	23	18	328	77.7	777.7	777.7	777.7	0	
GLHV	02	76	11	23	19	328	3.0	35.0	50.0	60.0	0	
GLHV	02	76	11	23	20	328	3.0	25.0	75.0	105.0	0	
GLHV	02	76	11	23	21	328	6.5	25.0	95.0	115.0	0	
GLHV	02	76	11	23	22	328	3.0	35.0	55.0	70.0	0	
GLHV	02	76	11	23	23	328	2.5	35.0	40.0	55.0	0	
GLHV	02	76	11	24	0	329	3.5	40.0	35.0	60.0	0	
GLHV	02	76	11	24	1	329	2.0	30.0	60.0	75.0	0	
GLHV	02	76	11	24	2	329	77.7	777.7	777.7	777.7	0	
GLHV	02	76	11	24	3	329	0.5	40.0	55.0	70.0	0	
GLHV	02	76	11	24	4	329	3.0	20.0	75.0	110.0	0	
GLHV	02	76	11	24	5	329	3.0	40.0	100.0	115.0	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO											DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAT	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(CALTH = 77---)	
						(MPH)	(DEG)	(DEG)	HIVOL MM.	(MIS.SIN) = 49---		
	GLEN	02	76	11	24	0	329	2.5	04.0	60.0	75.0	0
	GLEN	02	76	11	24	1	329	3.5	50.0	65.0	95.0	0
	GLEN	02	76	11	24	8	329	3.5	20.0	70.0	95.0	0
	GLEN	02	76	11	24	9	329	77.7	777.7	777.7	777.7	0
	GLEN	02	76	11	24	10	329	77.7	777.7	777.7	777.7	0
	GLEN	02	76	11	24	11	329	5.5	240.0	245.0	27.0	0
	GLEN	02	76	11	24	12	329	5.0	125.0	75.0	130.0	0
	GLEN	02	76	11	24	13	329	5.5	230.0	30.0	55.0	0
	GLEN	02	76	11	24	14	329	5.0	225.0	30.0	65.0	0
	GLEN	02	76	11	24	15	329	4.5	225.0	35.0	75.0	0
	GLEN	02	76	11	24	16	329	3.5	235.0	50.0	75.0	0
	GLEN	02	76	11	24	17	329	2.0	260.0	70.0	85.0	0
	GLEN	02	76	11	24	18	329	77.7	777.7	777.7	777.7	0
	GLEN	02	76	11	24	19	329	2.5	45.0	60.0	80.0	0
	GLEN	02	76	11	24	20	329	3.0	21.0	40.0	50.0	0
	GLEN	02	76	11	24	21	329	6.5	220.0	45.0	55.0	0
	GLEN	02	76	11	24	22	329	3.5	50.0	70.0	65.0	0
	GLEN	02	76	11	24	23	329	3.5	40.0	90.0	95.0	0
	GLEN	02	76	11	25	0	330	2.5	55.0	95.0	115.0	0
	GLEN	02	76	11	25	1	330	3.0	45.0	165.0	155.0	0
	GLEN	02	76	11	25	2	330	3.5	55.0	130.0	170.0	0
	GLEN	02	76	11	25	3	330	3.5	60.0	75.0	105.0	0
	GLEN	02	76	11	25	4	330	2.5	20.0	70.0	90.0	0
	GLEN	02	76	11	25	5	330	3.0	40.0	300.0	350.0	0
	GLEN	02	76	11	25	6	330	3.0	35.0	65.0	105.0	0
	GLEN	02	76	11	25	7	330	3.0	35.0	135.0	165.0	0
	GLEN	02	76	11	25	8	330	3.5	55.0	120.0	160.0	0
	GLEN	02	76	11	25	9	330	77.7	777.7	777.7	777.7	0
	GLEN	02	76	11	25	10	330	77.7	777.7	777.7	777.7	0
	GLEN	02	76	11	25	11	330	3.5	260.0	140.0	170.0	0
	GLEN	02	76	11	25	12	330	4.0	235.0	80.0	110.0	0
	GLEN	02	76	11	25	13	330	4.0	230.0	55.0	95.0	0
	GLEN	02	76	11	25	14	330	4.5	235.0	55.0	70.0	0
	GLEN	02	76	11	25	15	330	3.0	225.0	55.0	70.0	0
	GLEN	02	76	11	25	16	330	2.5	215.0	95.0	125.0	0
	GLEN	02	76	11	25	17	330	3.0	260.0	95.0	110.0	0
	GLEN	02	76	11	25	18	330	2.5	60.0	225.0	245.0	0
	GLEN	02	76	11	25	19	330	3.5	50.0	135.0	160.0	0
	GLEN	02	76	11	25	20	330	5.0	350.0	310.0	360.0	0
	GLEN	02	76	11	25	21	330	24.0	330.0	10.0	40.0	0
	GLEN	02	76	11	25	22	330	23.0	330.0	20.0	40.0	0
	GLEN	02	76	11	25	23	330	28.0	330.0	20.0	40.0	0
	GLEN	02	76	11	25	24	331	6.0	325.0	10.0	40.0	0
	GLEN	02	76	11	25	25	331	24.0	320.0	15.0	45.0	0
	GLEN	02	76	11	25	26	331	21.5	335.0	35.0	75.0	0
	GLEN	02	76	11	25	27	331	15.0	315.0	95.0	125.0	0
	GLEN	02	76	11	25	28	331	10.0	295.0	45.0	75.0	0
	GLEN	02	76	11	25	29	331	15.0	310.0	30.0	60.0	0
	GLEN	02	76	11	25	30	331	13.5	290.0	25.0	40.0	0
	GLEN	02	76	11	25	31	331	11.0	260.0	15.0	35.0	0
	GLEN	02	76	11	25	32	331	15.0	270.0	25.0	45.0	0
	GLEN	02	76	11	25	33	331	6.0	10.0	160.0	165.0	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CU

DATE 02/14/77 PAGE

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	TOTAL = 77--
							(MPH)	(DEG)	(LFU)	(LNU)	(HIVOL INH.)	(MISSING = 99--)
GLINV	02	70	11	20	10	331	6.5	315.0	84.0	135.0	0	
GLINV	02	70	11	20	11	331	3.5	293.0	100.0	210.0	0	
GLINV	02	70	11	20	12	331	9.0	316.0	24.0	50.0	0	
GLINV	02	70	11	20	13	331	14.5	305.0	25.0	35.0	0	
GLINV	02	70	11	20	14	331	10.0	310.0	30.0	45.0	0	
GLINV	02	70	11	20	15	331	13.5	300.0	5.0	30.0	0	
GLINV	02	70	11	20	16	331	10.5	305.0	15.0	35.0	0	
GLINV	02	70	11	20	17	331	10.0	335.0	45.0	120.0	0	
GLINV	02	70	11	20	18	331	6.0	366.0	60.0	130.0	0	
GLINV	02	70	11	20	19	331	3.5	268.0	34.0	360.0	0	
GLINV	02	70	11	20	20	331	6.0	146.0	160.0	245.0	0	
GLINV	02	70	11	20	21	331	7.0	310.0	165.0	190.0	0	
GLINV	02	70	11	20	22	331	6.0	335.0	140.0	340.0	0	
GLINV	02	70	11	20	23	331	10.0	366.0	65.0	95.0	0	
GLINV	02	70	11	20	24	332	19.0	235.0	45.0	110.0	0	
GLINV	02	70	11	20	25	332	10.0	320.0	50.0	50.0	0	
GLINV	02	70	11	20	26	332	11.0	320.0	25.0	45.0	0	
GLINV	02	70	11	20	27	332	11.0	325.0	20.0	40.0	0	
GLINV	02	70	11	20	28	332	16.0	315.0	70.0	105.0	0	
GLINV	02	70	11	20	29	332	9.5	325.0	30.0	55.0	0	
GLINV	02	70	11	20	30	332	13.0	325.0	90.0	130.0	0	
GLINV	02	70	11	20	31	332	13.0	325.0	45.0	70.0	0	
GLINV	02	70	11	20	32	332	11.0	325.0	60.0	85.0	0	
GLINV	02	70	11	20	33	332	9.0	325.0	60.0	85.0	0	
GLINV	02	70	11	20	34	332	9.5	325.0	20.0	40.0	0	
GLINV	02	70	11	20	35	332	16.0	315.0	70.0	105.0	0	
GLINV	02	70	11	20	36	332	13.5	325.0	100.0	120.0	0	
GLINV	02	70	11	20	37	332	11.0	325.0	60.0	85.0	0	
GLINV	02	70	11	20	38	332	9.0	325.0	60.0	85.0	0	
GLINV	02	70	11	20	39	332	5.5	325.0	205.0	240.0	0	
GLINV	02	70	11	20	40	332	4.5	265.0	100.0	120.0	0	
GLINV	02	70	11	20	41	332	13.0	325.0	60.0	85.0	0	
GLINV	02	70	11	20	42	332	14.5	310.0	25.0	50.0	0	
GLINV	02	70	11	20	43	332	16.0	305.0	14.0	40.0	0	
GLINV	02	70	11	20	44	332	15.5	305.0	30.0	50.0	0	
GLINV	02	70	11	20	45	332	16.0	315.0	20.0	40.0	0	
GLINV	02	70	11	20	46	332	13.5	290.0	14.0	35.0	0	
GLINV	02	70	11	20	47	332	9.5	290.0	20.0	30.0	0	
GLINV	02	70	11	20	48	332	7.0	295.0	30.0	50.0	0	
GLINV	02	70	11	20	49	332	6.0	300.0	20.0	40.0	0	
GLINV	02	70	11	20	50	332	3.0	157.0	165.0	190.0	0	
GLINV	02	70	11	20	51	332	5.0	345.0	135.0	155.0	0	
GLINV	02	70	11	20	52	332	3.6	255.0	80.0	100.0	0	
GLINV	02	70	11	20	53	332	2.5	155.0	305.0	320.0	0	
GLINV	02	70	11	20	54	333	2.0	10.0	205.0	235.0	0	
GLINV	02	70	11	20	55	333	2.5	5.0	115.0	130.0	0	
GLINV	02	70	11	20	56	333	2.0	50.0	95.0	110.0	0	
GLINV	02	70	11	20	57	333	3.0	60.0	110.0	120.0	0	
GLINV	02	70	11	20	58	333	3.0	35.0	105.0	120.0	0	
GLINV	02	70	11	20	59	333	3.0	50.0	45.0	55.0	0	
GLINV	02	70	11	20	60	333	3.0	65.0	70.0	80.0	0	
GLINV	02	70	11	20	61	333	3.5	55.0	65.0	75.0	0	
GLINV	02	70	11	20	62	333	77.7	777.7	777.7	777.7	0	
GLINV	02	70	11	20	63	333	4.0	80.0	90.0	110.0	0	
GLINV	02	70	11	20	64	333	3.5	125.0	130.0	160.0	0	
GLINV	02	70	11	20	65	333	4.5	200.0	110.0	150.0	0	
GLINV	02	70	11	20	66	333	3.0	245.0	125.0	250.0	0	
GLINV	02	70	11	20	67	333	4.0	220.0	150.0	200.0	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAMCO CO

DATE 02/14/77 PAGE

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SECTOR	(Calm = 77--)
					(LOC)	DAY	(MPH)	(DEG)	(LFG)	(DEG)	HIVOL (MPH)	(MISSING = 99--)
GLNIV	U2	76	70	11	20	14	553	2.5	215.0	55.0	25.0	0
GLNIV	U2	76	70	11	20	15	553	3.5	245.0	65.0	145.0	0
GLNIV	U2	76	70	11	20	16	553	5.0	270.0	60.0	80.0	0
GLNIV	U2	76	70	11	20	17	553	4.0	330.0	65.0	90.0	0
GLNIV	U2	76	70	11	20	18	553	2.5	10.0	20.0	35.0	0
GLNIV	U2	76	70	11	20	19	553	2.0	15.0	45.0	55.0	0
GLNIV	U2	76	70	11	20	20	553	4.0	330.0	70.0	95.0	0
GLNIV	U2	76	70	11	20	21	553	17.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	22	553	3.5	15.0	22.0	245.0	0
GLNIV	U2	76	70	11	20	23	553	17.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	24	554	2.0	35.0	125.0	145.0	0
GLNIV	U2	76	70	11	20	25	554	7.7	777.7	777.7	771.7	0
GLNIV	U2	76	70	11	20	26	554	3.0	55.0	115.0	135.0	0
GLNIV	U2	76	70	11	20	27	554	3.0	75.0	70.0	85.0	0
GLNIV	U2	76	70	11	20	28	554	3.0	70.0	35.0	65.0	0
GLNIV	U2	76	70	11	20	29	554	4.0	30.0	115.0	145.0	0
GLNIV	U2	76	70	11	20	30	554	2.5	5.0	170.0	190.0	0
GLNIV	U2	76	70	11	20	31	554	2.0	85.0	110.0	125.0	0
GLNIV	U2	76	70	11	20	32	554	3.0	85.0	65.0	80.0	0
GLNIV	U2	76	70	11	20	33	554	3.0	70.0	35.0	65.0	0
GLNIV	U2	76	70	11	20	34	554	2.0	5.0	165.0	195.0	0
GLNIV	U2	76	70	11	20	35	554	2.5	5.0	170.0	190.0	0
GLNIV	U2	76	70	11	20	36	554	2.0	85.0	110.0	125.0	0
GLNIV	U2	76	70	11	20	37	554	3.0	85.0	65.0	80.0	0
GLNIV	U2	76	70	11	20	38	554	3.0	70.0	35.0	65.0	0
GLNIV	U2	76	70	11	20	39	554	2.0	5.0	165.0	195.0	0
GLNIV	U2	76	70	11	20	40	554	17.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	41	554	3.0	200.0	70.0	85.0	0
GLNIV	U2	76	70	11	20	42	554	3.0	210.0	70.0	110.0	0
GLNIV	U2	76	70	11	20	43	554	4.5	250.0	65.0	95.0	0
GLNIV	U2	76	70	11	20	44	554	4.5	245.0	65.0	75.0	0
GLNIV	U2	76	70	11	20	45	554	4.5	270.0	45.0	75.0	0
GLNIV	U2	76	70	11	20	46	554	6.0	280.0	60.0	65.0	0
GLNIV	U2	76	70	11	20	47	554	<0.0	250.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	48	554	3.5	300.0	170.0	200.0	0
GLNIV	U2	76	70	11	20	49	554	3.0	15.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	50	554	3.0	20.0	75.0	95.0	0
GLNIV	U2	76	70	11	20	51	554	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	52	554	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	53	554	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	54	554	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	55	554	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	56	555	2.5	250.0	75.0	115.0	0
GLNIV	U2	76	70	11	20	57	555	2.5	350.0	210.0	235.0	0
GLNIV	U2	76	70	11	20	58	555	2.5	40.0	140.0	155.0	0
GLNIV	U2	76	70	11	20	59	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	60	555	3.5	30.0	140.0	160.0	0
GLNIV	U2	76	70	11	20	61	555	2.5	250.0	190.0	220.0	0
GLNIV	U2	76	70	11	20	62	555	3.0	50.0	90.0	110.0	0
GLNIV	U2	76	70	11	20	63	555	3.0	20.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	64	555	3.0	15.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	65	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	66	555	3.0	45.0	95.0	115.0	0
GLNIV	U2	76	70	11	20	67	555	3.0	50.0	90.0	110.0	0
GLNIV	U2	76	70	11	20	68	555	3.0	20.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	69	555	3.0	15.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	70	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	71	555	3.0	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	72	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	73	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	74	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	75	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	76	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	77	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	78	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	79	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	80	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	81	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	82	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	83	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	84	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	85	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	86	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	87	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	88	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	89	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	90	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	91	555	4.0	230.0	75.0	120.0	0
GLNIV	U2	76	70	11	20	92	555	4.5	240.0	65.0	130.0	0
GLNIV	U2	76	70	11	20	93	555	4.5	40.0	140.0	155.0	0
GLNIV	U2	76	70	11	20	94	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	95	555	3.5	30.0	140.0	160.0	0
GLNIV	U2	76	70	11	20	96	555	3.5	20.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	97	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	98	555	3.5	20.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	99	555	3.5	20.0	110.0	130.0	0
GLNIV	U2	76	70	11	20	100	555	7.7	777.7	777.7	777.7	0
GLNIV	U2	76	70	11	20	101	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	102	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	103	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	104	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	105	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	106	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	107	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	108	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	109	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	110	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	111	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	112	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	113	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	114	555	4.0	20.0	65.0	100.0	0
GLNIV	U2	76	70	11	20	115	555	4.				

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STCCL RAW DATA AVG AVERAGES NOV 76 TO JAN 77 H E CRAMCO CO										DATE 02/14/77	PAGE		
FROM		STATION	YEAR	MONTH	DAY	HOUR	JULIAN (LOC)	WIND SPEED (MPH)	WIND DIRECTION (DEG)	RANGE (DFG)	PEAK TO PEAK (DGL)	WIND SECTOR (M14SIN _o = 04---)	(CALM = 77---)
		ULIV	02	76	11	30	18	355	77.7	777.7	777.7	777.7	0
		ULIV	02	76	11	31	36	19	355	77.7	777.7	777.7	0
		ULIV	02	76	11	30	26	355	3.5	50.0	65.0	80.0	0
		GLIV	02	76	11	30	21	355	3.5	155.0	210.0	230.0	0
		GLIV	02	76	11	30	22	355	3.5	356.0	140.0	160.0	0
		ULIV	02	76	11	30	23	355	3.0	35.0	104.0	145.0	0
		GLIV	02	76	11	30	24	355	3.0	45.0	325.0	350.0	0
		GLIV	02	76	12	1	9	356	3.0	115.0	240.0	275.0	0
		GLIV	02	76	12	1	10	356	3.0	320.0	340.0	360.0	0
		GLIV	02	76	12	1	11	356	77.7	777.7	777.7	777.7	0
		ULIV	02	76	12	1	12	356	77.7	777.7	777.7	777.7	0
		ULIV	02	76	12	1	13	356	3.0	245.0	210.0	245.0	0
		ULIV	02	76	12	1	14	356	2.5	65.0	65.0	65.0	0
		ULIV	02	76	12	1	15	356	2.0	35.0	107.0	125.0	0
		ULIV	02	76	12	1	16	356	2.0	245.0	90.0	120.0	0
		ULIV	02	76	12	1	17	356	3.0	215.0	120.0	155.0	0
		ULIV	02	76	12	1	18	356	4.0	245.0	75.0	95.0	0
		ULIV	02	76	12	1	19	356	4.5	235.0	45.0	65.0	0
		ULIV	02	76	12	1	20	356	5.0	245.0	25.0	50.0	0
		ULIV	02	76	12	1	21	356	4.5	245.0	90.0	120.0	0
		ULIV	02	76	12	1	22	356	3.0	245.0	35.0	50.0	0
		ULIV	02	76	12	1	23	356	2.5	77.7	777.7	777.7	0
		ULIV	02	76	12	2	0	357	3.0	45.0	85.0	100.0	0
		ULIV	02	76	12	2	1	357	2.5	20.0	65.0	100.0	0
		GLIV	02	76	12	2	2	357	77.7	777.7	777.7	777.7	0
		ULIV	02	76	12	2	3	357	2.5	55.0	65.0	65.0	0
		ULIV	02	76	12	2	4	357	77.7	777.7	777.7	777.7	0
		ULIV	02	76	12	2	5	357	3.5	25.0	45.0	65.0	0
		ULIV	02	76	12	2	6	357	2.5	25.0	60.0	65.0	0
		ULIV	02	76	12	2	7	357	2.5	45.0	240.0	260.0	0
		ULIV	02	76	12	2	8	357	3.0	55.0	40.0	100.0	0
		ULIV	02	76	12	2	9	357	77.7	777.7	777.7	777.7	0
		ULIV	02	76	12	2	10	357	2.0	290.0	140.0	165.0	0
		ULIV	02	76	12	2	11	357	3.0	235.0	75.0	110.0	0
		ULIV	02	76	12	2	12	357	4.0	240.0	55.0	85.0	0
		GLIV	02	76	12	2	13	357	4.5	235.0	35.0	50.0	0
		ULIV	02	76	12	2	14	357	4.5	225.0	45.0	70.0	0
		ULIV	02	76	12	2	15	357	4.0	240.0	35.0	65.0	0
		ULIV	02	76	12	2	16	357	3.0	235.0	35.0	70.0	0
		ULIV	02	76	12	2	17	357	77.7	777.7	777.7	777.7	0
		GLIV	02	76	12	2	18	357	2.0	45.0	55.0	65.0	0
		ULIV	02	76	12	2	19	357	2.5	10.0	40.0	120.0	0
		ULIV	02	76	12	2	20	357	2.0	55.0	50.0	80.0	0
		ULIV	02	76	12	2	21	357	77.7	777.7	777.7	777.7	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO

DATE 02/14/77 PAGE

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN DAY	WIND SPEED (MPH)	WIND DIRECTION (DEG)	RANGE (DFG)	PEAK TO PEAK (DGL)	WIND SCTOR HIVOL (H)	(Calm = 77--)	(MISSING = 49--)
GLIV	02	76	12	2	22	337	17.7	777.7	777.7	777.7	0		
GLIV	02	76	12	2	23	337	3.5	30.0	80.0	95.0	0		
GLIV	02	76	12	3	0	338	2.5	70.0	110.0	125.0	0		
GLIV	02	76	12	3	1	338	2.5	40.0	120.0	160.0	0		
GLIV	02	76	12	3	2	338	2.5	41.0	75.0	45.0	0		
GLIV	02	76	12	3	3	338	17.7	777.7	777.7	777.7	0		
GLIV	02	76	12	3	4	338	2.5	45.	115.0	125.0	0		
GLIV	02	76	12	3	5	338	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	3	6	338	3.0	35.0	244.0	264.0	0		
GLIV	02	76	12	3	7	338	3.0	35.0	115.0	145.0	0		
GLIV	02	76	12	3	8	338	2.5	70.0	115.0	120.0	0		
GLIV	02	76	12	3	9	338	17.7	777.7	777.7	777.7	0		
GLIV	02	76	12	3	10	338	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	3	11	338	4.0	210.0	60.0	40.0	0		
GLIV	02	76	12	3	12	338	4.0	210.0	47.0	70.0	0		
GLIV	02	76	12	3	13	338	5.0	235.0	40.0	65.0	0		
GLIV	02	76	12	3	14	338	4.5	245.0	40.0	65.0	0		
GLIV	02	76	12	3	15	338	4.5	250.0	65.0	85.0	0		
GLIV	02	76	12	3	16	338	5.0	250.0	60.0	110.0	0		
GLIV	02	76	12	3	17	338	2.5	275.0	85.0	105.0	0		
GLIV	02	76	12	3	18	338	3.0	115.0	190.0	20.0	0		
GLIV	02	76	12	3	19	338	3.5	35.0	120.0	155.0	0		
GLIV	02	76	12	3	20	338	2.0	20.0	90.0	105.0	0		
GLIV	02	76	12	3	21	338	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	3	22	338	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	3	23	338	2.5	15.0	60.0	80.0	0		
GLIV	02	76	12	4	0	339	3.0	120.0	215.0	235.0	0		
GLIV	02	76	12	4	1	339	3.0	30.0	115.0	160.0	0		
GLIV	02	76	12	4	2	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	3	339	2.0	15.0	110.0	125.0	0		
GLIV	02	76	12	4	4	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	5	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	6	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	7	339	2.5	25.0	70.0	35.0	0		
GLIV	02	76	12	4	8	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	9	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	10	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	11	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	12	339	4.5	250.0	50.0	60.0	0		
GLIV	02	76	12	4	13	339	77.7	777.7	777.7	777.7	0		
GLIV	02	76	12	4	14	339	4.5	225.0	85.0	105.0	0		
GLIV	02	76	12	4	15	339	3.5	35.0	90.0	120.0	0		
GLIV	02	76	12	4	16	339	2.5	185.0	115.0	135.0	0		
GLIV	02	76	12	4	17	339	2.0	95.	195.0	215.0	0		
GLIV	02	76	12	4	18	339	2.5	350.0	95.0	115.0	0		
GLIV	02	76	12	4	19	339	3.5	90.0	210.0	245.0	0		
GLIV	02	76	12	4	20	339	4.0	160.0	35.0	70.0	0		
GLIV	02	76	12	4	21	339	3.5	55.	170.0	195.0	0		
GLIV	02	76	12	4	22	339	4.0	205.0	115.0	135.0	0		
GLIV	02	76	12	4	23	339	2.0	105.0	255.0	275.0	0		
GLIV	02	76	12	5	0	340	17.7	777.7	777.7	777.7	0		
GLIV	02	76	12	5	1	340	2.0	195.0	50.0	75.0	0		

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 N E CHAMCO CO											DATE 02/14/77		PAGE	
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(CALW = 77--)	(MISSING = 09--)	
						(LOC)	(MPH)	(DEG)	(UFG)	(DEG)	HIVOL 14.			
G	GLNV	02	76	12	5	2	340	4.5	180.0	154.0	250.0	0		
G	GLNV	02	76	12	5	3	340	77.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	4	340	77.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	5	340	4.5	275.0	170.0	195.0	0		
G	GLNV	02	76	12	5	6	340	7.0	335.0	145.0	185.0	0		
G	GLNV	02	76	12	5	7	340	6.5	290.0	270.0	315.0	0		
G	GLNV	02	76	12	5	8	340	12.5	320.0	20.0	45.0	0		
G	GLNV	02	76	12	5	9	340	8.5	315.0	24.0	35.0	0		
G	GLNV	02	76	12	5	10	340	9.0	235.0	55.0	85.0	0		
G	GLNV	02	76	12	5	11	340	7.0	320.0	45.0	85.0	0		
G	GLNV	02	76	12	5	12	340	10.5	335.0	50.0	65.0	0		
G	GLNV	02	76	12	5	13	340	11.5	310.0	75.0	105.0	0		
G	GLNV	02	76	12	5	14	340	10.0	290.0	45.0	75.0	0		
G	GLNV	02	76	12	5	15	340	15.5	320.0	60.0	85.0	0		
G	GLNV	02	76	12	5	16	340	15.5	320.0	30.0	50.0	0		
G	GLNV	02	76	12	5	17	340	11.5	290.0	34.0	65.0	0		
G	GLNV	02	76	12	5	18	340	10.0	310.0	45.0	85.0	0		
G	GLNV	02	76	12	5	19	340	5.5	315.0	175.0	200.0	0		
G	GLNV	02	76	12	5	20	340	17.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	21	340	4.0	85.0	170.0	235.0	0		
G	GLNV	02	76	12	5	22	340	2.5	165.0	100.0	110.0	0		
G	GLNV	02	76	12	5	23	340	4.5	105.0	245.0	260.0	0		
G	GLNV	02	76	12	5	24	341	77.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	25	341	77.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	26	341	2.5	110.0	255.0	295.0	0		
G	GLNV	02	76	12	5	27	341	3.5	135.0	120.0	140.0	0		
G	GLNV	02	76	12	5	28	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	29	341	17.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	30	341	17.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	31	341	17.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	32	341	3.5	135.0	120.0	140.0	0		
G	GLNV	02	76	12	5	33	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	34	341	17.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	35	341	17.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	36	341	3.5	135.0	120.0	140.0	0		
G	GLNV	02	76	12	5	37	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	38	341	0.0	135.0	90.0	170.0	0		
G	GLNV	02	76	12	5	39	341	0.0	190.0	55.0	90.0	0		
G	GLNV	02	76	12	5	40	341	4.5	225.0	65.0	85.0	0		
G	GLNV	02	76	12	5	41	341	0.5	230.0	34.0	75.0	0		
G	GLNV	02	76	12	5	42	341	7.0	240.0	50.0	70.0	0		
G	GLNV	02	76	12	5	43	341	4.5	245.0	55.0	65.0	0		
G	GLNV	02	76	12	5	44	341	4.5	240.0	55.0	65.0	0		
G	GLNV	02	76	12	5	45	341	4.5	240.0	55.0	65.0	0		
G	GLNV	02	76	12	5	46	341	4.0	270.0	60.0	75.0	0		
G	GLNV	02	76	12	5	47	341	4.5	335.0	175.0	255.0	0		
G	GLNV	02	76	12	5	48	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	49	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	50	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	51	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	52	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	53	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	54	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	55	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	56	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	57	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	58	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	59	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	60	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	61	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	62	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	63	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	64	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	65	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	66	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	67	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	68	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	69	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	70	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	71	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	72	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	73	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	74	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	75	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	76	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	77	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	78	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	79	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	80	341	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	81	342	2.5	45.0	70.0	85.0	0		
G	GLNV	02	76	12	5	82	342	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	83	342	7.7	777.7	777.7	777.7	0		
G	GLNV	02	76	12	5	84	342	4.0	120.0	75.0	150.0	0		
G	GLNV	02	76	12	5	85	342	7.7	777.7	777.7	777.7	0		

(C-4)

Table 6-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 70 TO JAN 77 H E GRANCO CO

DATE 02/14/77 PAGE

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND (LOC)	SPEED (MPH)	WIND DIRECTION (WFC)	PANGE (WFG)	PEAK TO PEAK (DEG)	MIND SECTOR (HIVOL IN.)	(CAMP = 77---)	(MISSING = 49---)
	ULI.V	02	70	12	7	6	342	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	7	342	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	8	342	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	9	342	4.0	120.0	320.0	335.0	335.0	0	
	ULI.V	02	70	12	7	10	342	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	11	342	2.0	240.0	130.0	150.0	150.0	0	
	ULI.V	02	70	12	7	12	342	4.5	240.0	40.0	70.0	70.0	0	
	ULI.V	02	70	12	7	13	342	3.5	235.0	40.0	65.0	65.0	0	
	ULI.V	02	70	12	7	14	342	4.5	235.0	40.0	65.0	65.0	0	
	ULI.V	02	70	12	7	15	342	3.0	240.0	34.0	60.0	60.0	0	
	ULI.V	02	70	12	7	16	342	3.0	235.0	140.0	170.0	170.0	0	
	ULI.V	02	70	12	7	17	342	77.7	717.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	18	342	77.7	717.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	19	342	77.7	717.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	20	342	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	21	342	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	22	342	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	7	23	342	3.0	235.0	315.0	325.0	325.0	0	
	ULI.V	02	70	12	8	0	343	4.0	45.0	65.0	105.0	105.0	0	
	ULI.V	02	70	12	8	1	343	77.7	717.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	8	2	343	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	8	3	343	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	8	4	343	3.0	90.0	190.0	200.0	200.0	0	
	ULI.V	02	70	12	8	5	343	4.0	40.0	210.0	210.0	210.0	0	
	ULI.V	02	70	12	8	6	343	2.5	51.0	150.0	180.0	180.0	0	
	ULI.V	02	70	12	8	7	343	2.5	60.0	60.0	80.0	80.0	0	
	ULI.V	02	70	12	8	8	343	3.0	50.0	45.0	70.0	70.0	0	
	ULI.V	02	70	12	8	9	343	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	8	10	343	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	8	11	343	3.0	195.0	235.0	235.0	235.0	0	
	ULI.V	02	70	12	8	12	343	4.0	240.0	65.0	120.0	120.0	0	
	ULI.V	02	70	12	8	13	343	5.0	245.0	45.0	30.0	30.0	0	
	ULI.V	02	70	12	8	14	343	0.0	255.0	45.0	70.0	70.0	0	
	ULI.V	02	70	12	8	15	343	3.5	260.0	195.0	215.0	215.0	0	
	ULI.V	02	70	12	8	16	343	3.5	250.0	115.0	140.0	140.0	0	
	ULI.V	02	70	12	8	17	343	2.0	50.0	310.0	350.0	350.0	0	
	ULI.V	02	70	12	8	18	343	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	8	19	343	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	8	20	343	3.0	7.0	300.0	260.0	260.0	0	
	ULI.V	02	70	12	8	21	343	3.0	190.0	300.0	340.0	340.0	0	
	ULI.V	02	70	12	8	22	343	2.5	250.0	300.0	360.0	360.0	0	
	ULI.V	02	70	12	8	23	343	5.0	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	24	343	2.5	385.0	385.0	385.0	385.0	0	
	ULI.V	02	70	12	8	25	343	5.0	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	26	343	2.5	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	27	343	5.0	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	28	343	2.5	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	29	343	5.0	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	30	343	2.5	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	31	343	2.5	350.0	350.0	360.0	360.0	0	
	ULI.V	02	70	12	8	32	343	3.0	320.0	320.0	360.0	360.0	0	
	ULI.V	02	70	12	8	33	343	3.0	320.0	320.0	360.0	360.0	0	
	ULI.V	02	70	12	8	34	343	3.0	320.0	320.0	360.0	360.0	0	
	ULI.V	02	70	12	8	35	343	3.0	320.0	105.0	270.0	270.0	0	
	ULI.V	02	70	12	9	4	344	2.0	340.0	380.0	360.0	360.0	0	
	ULI.V	02	70	12	9	5	344	77.7	777.7	777.7	777.7	777.7	0	
	ULI.V	02	70	12	9	6	344	2.0	320.0	260.0	300.0	300.0	0	
	ULI.V	02	70	12	9	7	344	4.5	350.0	160.0	210.0	210.0	0	
	ULI.V	02	70	12	9	8	344	1.0	320.0	340.0	360.0	360.0	0	
	ULI.V	02	70	12	9	9	344	4.0	330.0	120.0	150.0	150.0	0	
	ULI.V	02	70	12	9	10	344	4.0	330.0	105.0	270.0	270.0	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E LIPARLO CO											DATE 02/14/77	PAGE
FROM STATION YEAR		MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SECTOR	(CAL M = 77--)	
	(LOC)	DAY			(INCH)	(MPH)	(DEG)	(DEG)	MIVOL I.D.	(MISSING = 99--)		
	GLNV	02	76	12	9	10	344	2.5	145.0	270.0	319.0	0
	GLNV	02	76	12	9	11	344	15.5	295.0	160.0	125.0	0
	GLNV	02	76	12	9	12	344	13.0	340.0	14.0	35.0	0
	GLNV	02	76	12	9	13	344	8.0	316.0	100.0	130.0	0
	GLNV	02	76	12	9	14	344	3.0	165.0	240.0	280.0	0
	GLNV	02	76	12	9	15	344	4.0	231.0	361.0	363.0	0
	GLNV	02	76	12	9	16	344	10.0	315.0	45.0	65.0	0
	GLNV	02	76	12	9	17	344	12.5	320.0	40.0	60.0	0
	GLNV	02	76	12	9	18	344	17.5	335.0	30.0	60.0	0
	GLNV	02	76	12	9	19	344	17.5	315.0	20.0	40.0	0
	GLNV	02	76	12	9	20	344	12.5	295.0	35.0	60.0	0
	GLNV	02	76	12	9	21	344	11.0	320.0	65.0	85.0	0
	GLNV	02	76	12	9	22	344	10.0	320.0	55.0	65.0	0
	GLNV	02	76	12	9	23	344	10.0	340.0	55.0	55.0	0
	GLNV	02	76	12	10	0	345	0.5	335.0	115.0	135.0	0
	GLNV	02	76	12	10	1	345	5.0	325.0	165.0	200.0	0
	GLNV	02	76	12	10	2	345	4.0	355.0	125.0	150.0	0
	GLNV	02	76	12	10	3	345	2.5	355.0	245.0	260.0	0
	GLNV	02	76	12	10	4	345	4.0	90.0	195.0	235.0	0
	GLNV	02	76	12	10	5	345	4.0	30.0	165.0	205.0	0
	GLNV	02	76	12	10	6	345	3.5	15.0	120.0	175.0	0
	GLNV	02	76	12	10	7	345	3.0	115.0	145.0	275.0	0
	GLNV	02	76	12	10	8	345	3.5	40.0	175.0	200.0	0
	GLNV	02	76	12	10	9	345	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	10	10	345	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	10	11	345	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	10	12	345	5.5	215.0	35.0	65.0	0
	GLNV	02	76	12	10	13	345	5.0	210.0	45.0	80.0	0
	GLNV	02	76	12	10	14	345	6.0	205.0	25.0	50.0	0
	GLNV	02	76	12	10	15	345	7.0	195.0	40.0	60.0	0
	GLNV	02	76	12	10	16	345	6.0	195.0	30.0	65.0	0
	GLNV	02	76	12	10	17	345	5.0	175.0	130.0	155.0	0
	GLNV	02	76	12	10	18	345	2.0	65.0	135.0	170.0	0
	GLNV	02	76	12	10	19	345	3.0	30.0	90.0	120.0	0
	GLNV	02	76	12	10	20	345	2.5	45.0	115.0	135.0	0
	GLNV	02	76	12	10	21	345	2.5	10.0	145.0	160.0	0
	GLNV	02	76	12	10	22	345	3.0	45.0	110.0	120.0	0
	GLNV	02	76	12	10	23	345	2.5	110.0	120.0	160.0	0
	GLNV	02	76	12	11	0	346	2.0	40.0	135.0	170.0	0
	GLNV	02	76	12	11	1	346	2.0	45.0	55.0	70.0	0
	GLNV	02	76	12	11	2	346	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	11	3	346	2.5	30.0	95.0	140.0	0
	GLNV	02	76	12	11	4	346	2.0	355.0	170.0	195.0	0
	GLNV	02	76	12	11	5	346	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	11	6	346	2.0	45.0	95.0	115.0	0
	GLNV	02	76	12	11	7	346	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	11	8	346	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	11	9	346	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	11	10	346	77.7	777.7	777.7	777.7	0
	GLNV	02	76	12	11	11	346	5.0	45.0	95.0	115.0	0
	GLNV	02	76	12	11	12	346	5.0	35.0	70.0	115.0	0
	GLNV	02	76	12	11	13	346	0.0	225.0	34.0	65.0	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO

DATE 02/14/77 PAGE

PROJ	STATION	YEAR	MONTH	DAY	JULIAN	WIND SPEED (MPH)	WIND DIRECTION (DEG)	RANGE	PEAK TO PEAK WIND SCTOR		(CALM = 77---) (MISSING = 99---)
									(DLW)	(DFG)	
GLIV	02	76	12	11	14	340	5.0	225.0	25.0	55.0	0
GLIV	02	76	12	11	15	340	4.5	215.1	45.0	65.0	0
GLIV	02	76	12	11	16	340	4.5	210.0	50.0	55.0	0
GLIV	02	76	12	11	17	340	4.0	255.0	165.0	215.0	0
GLIV	02	76	12	11	18	340	2.5	25.0	170.0	235.0	0
GLIV	02	76	12	11	19	340	2.0	340.0	165.0	195.0	0
GLIV	02	76	12	11	20	340	2.5	40.0	125.0	165.0	0
GLIV	02	76	12	11	21	340	2.5	15.0	60.0	90.0	0
GLIV	02	76	12	11	22	340	2.0	30.0	65.0	115.0	0
GLIV	02	76	12	11	23	340	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	12	0	347	3.0	25.0	100.0	120.0	0
GLIV	02	76	12	12	1	347	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	12	2	347	3.0	25.0	100.0	105.0	0
GLIV	02	76	12	12	3	347	4.0	40.0	115.0	135.0	0
GLIV	02	76	12	12	4	347	2.0	60.0	65.0	110.0	0
GLIV	02	76	12	12	5	347	3.0	15.0	125.0	195.0	0
GLIV	02	76	12	12	6	347	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	12	7	347	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	12	8	347	2.0	35.0	35.0	60.0	0
GLIV	02	76	12	12	9	347	2.5	25.0	55.0	70.0	0
GLIV	02	76	12	12	10	347	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	12	11	347	3.5	220.0	55.0	65.0	0
GLIV	02	76	12	12	12	347	4.5	230.0	75.0	105.0	0
GLIV	02	76	12	12	13	347	5.0	330.0	30.0	65.0	0
GLIV	02	76	12	12	14	347	4.0	210.0	45.0	65.0	0
GLIV	02	76	12	12	15	347	4.5	225.0	75.0	90.0	0
GLIV	02	76	12	12	16	347	4.0	240.0	30.0	55.0	0
GLIV	02	76	12	12	17	347	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	12	18	347	2.0	195.0	135.0	155.0	0
GLIV	02	76	12	12	19	347	2.5	5.0	160.0	160.0	0
GLIV	02	76	12	12	20	347	3.0	35.0	60.0	95.0	0
GLIV	02	76	12	12	21	347	2.0	65.0	60.0	70.0	0
GLIV	02	76	12	12	22	347	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	12	23	347	2.5	35.0	110.0	120.0	0
GLIV	02	76	12	12	24	340	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	13	1	340	5.0	25.0	70.0	85.0	0
GLIV	02	76	12	13	2	340	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	13	3	340	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	13	4	340	3.0	55.0	85.0	95.0	0
GLIV	02	76	12	13	5	340	2.0	65.0	75.0	90.0	0
GLIV	02	76	12	13	6	340	3.0	35.0	60.0	80.0	0
GLIV	02	76	12	13	7	340	77.7	777.7	777.7	777.7	0
GLIV	02	76	12	13	8	340	3.0	25.0	170.0	185.0	0
GLIV	02	76	12	13	9	340	1.0	55.0	120.0	140.0	0
GLIV	02	76	12	13	10	340	2.5	290.0	135.0	165.0	0
GLIV	02	76	12	13	11	340	3.0	235.0	55.0	90.0	0
GLIV	02	76	12	13	12	340	2.5	205.0	35.0	60.0	0
GLIV	02	76	12	13	13	340	4.0	245.0	205.0	47.0	0
GLIV	02	76	12	13	14	340	3.0	245.0	55.0	90.0	0
GLIV	02	76	12	13	15	340	3.0	155.0	110.0	120.0	0
GLIV	02	76	12	13	16	340	3.0	140.0	140.0	160.0	0
GLIV	02	76	12	13	17	340	3.0	320.0	245.0	295.0	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 N E CRANCO CO												DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SECTOR	(CALTH = 77---)	
							(MPH)	(DEG)	(DFU)	(DEG)	HIVOL H.D.	(MISSING = 99---)	
	ULIV	02	70	12	13	10	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	13	11	340	2.0	340.0	210.0	235.0	0	
	ULIV	02	70	12	13	20	340	3.0	155.0	115.0	155.0	0	
	ULIV	02	70	12	13	21	340	3.5	150.0	175.0	195.0	0	
	ULIV	02	70	12	13	22	340	2.5	210.0	345.0	360.0	0	
	ULIV	02	70	12	13	23	340	2.5	90.0	90.0	110.0	0	
	ULIV	02	70	12	14	0	340	2.5	15.0	215.0	260.0	0	
	ULIV	02	70	12	14	1	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	14	2	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	14	3	340	2.5	50.0	60.0	100.0	0	
	GLIV	02	70	12	14	4	340	77.7	777.7	777.7	777.7	0	
	GLIV	02	70	12	14	5	340	2.0	45.0	120.0	140.0	0	
	GLIV	02	70	12	14	6	340	2.5	30.0	65.0	100.0	0	
	GLIV	02	70	12	14	7	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	14	8	340	2.5	45.0	135.0	150.0	0	
	ULIV	02	70	12	14	9	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	14	10	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	14	11	340	5.0	220.0	50.0	85.0	0	
	ULIV	02	70	12	14	12	340	4.5	230.0	35.0	60.0	0	
	ULIV	02	70	12	14	13	340	5.5	235.0	45.0	65.0	0	
	ULIV	02	70	12	14	14	340	4.5	230.0	50.0	55.0	0	
	ULIV	02	70	12	14	15	340	4.0	240.0	30.0	55.0	0	
	ULIV	02	70	12	14	16	340	5.0	235.0	40.0	60.0	0	
	ULIV	02	70	12	14	17	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	14	18	340	2.0	15.0	120.0	130.0	0	
	ULIV	02	70	12	14	19	340	3.0	50.0	80.0	100.0	0	
	ULIV	02	70	12	14	20	340	2.0	60.0	120.0	140.0	0	
	GLIV	02	70	12	14	21	340	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	14	22	340	2.0	65.0	220.0	250.0	0	
	ULIV	02	70	12	14	23	340	77.7	717.7	777.7	777.7	0	
	ULIV	02	70	12	15	0	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	1	350	2.0	100.0	200.0	320.0	0	
	ULIV	02	70	12	15	2	350	2.0	80.0	200.0	210.0	0	
	ULIV	02	70	12	15	3	350	2.5	40.0	100.0	110.0	0	
	ULIV	02	70	12	15	4	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	5	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	6	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	7	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	8	350	2.0	50.0	60.0	70.0	0	
	ULIV	02	70	12	15	9	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	10	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	11	350	2.5	215.0	55.0	85.0	0	
	ULIV	02	70	12	15	12	350	4.0	220.0	55.0	75.0	0	
	ULIV	02	70	12	15	13	350	5.0	230.0	30.0	45.0	0	
	ULIV	02	70	12	15	14	350	4.5	215.0	55.0	65.0	0	
	ULIV	02	70	12	15	15	350	4.5	225.0	45.0	75.0	0	
	ULIV	02	70	12	15	16	350	4.0	145.0	90.0	110.0	0	
	ULIV	02	70	12	15	17	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	18	350	4.0	145.0	90.0	110.0	0	
	ULIV	02	70	12	15	19	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	20	350	77.7	777.7	777.7	777.7	0	
	ULIV	02	70	12	15	21	350	77.7	777.7	777.7	777.7	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAMCO CO											DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK WIND SECTOR	(CAHM = ?7---)	(MISSING = ?9---)
		(LOC)		DAY	(MMH)	(MM)	(MMH)	(MM)	(UFU)	(UEG)	HIVAL IN.	
G2IV	U2	70	12	15	22	350	2.0	350	115.0	125.0	0	
G2IV	U2	70	12	15	23	350	17.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	0	351	2.0	20.0	100.0	100.0	0	
G2IV	U2	70	12	16	1	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	2	351	3.0	50.0	150.0	150.0	0	
G2IV	U2	70	12	16	3	351	17.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	4	351	2.0	40.0	120.0	120.0	0	
G2IV	U2	70	12	16	5	351	3.0	35.0	140.0	160.0	0	
G2IV	U2	70	12	16	6	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	7	351	2.5	15.0	90.0	100.0	0	
G2IV	U2	70	12	16	8	351	2.0	45.0	110.0	160.0	0	
G2IV	U2	70	12	16	9	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	10	351	2.0	35.0	120.0	140.0	0	
G2IV	U2	70	12	16	11	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	12	351	3.0	240.0	50.0	60.0	0	
G2IV	U2	70	12	16	13	351	4.0	250.0	25.0	50.0	0	
G2IV	U2	70	12	16	14	351	3.5	240.0	45.0	100.0	0	
G2IV	U2	70	12	16	15	351	3.0	235.0	40.0	60.0	0	
G2IV	U2	70	12	16	16	351	2.0	235.0	60.0	70.0	0	
G2IV	U2	70	12	16	17	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	18	351	17.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	19	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	20	351	3.5	50.0	70.0	80.0	0	
G2IV	U2	70	12	16	21	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	22	351	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	16	23	351	4.0	70.0	220.0	240.0	0	
G2IV	U2	70	12	17	0	352	2.0	20.0	70.0	70.0	0	
G2IV	U2	70	12	17	1	352	17.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	17	2	352	2.0	35.0	90.0	120.0	0	
G2IV	U2	70	12	17	3	352	2.0	15.0	100.0	120.0	0	
G2IV	U2	70	12	17	4	352	2.0	45.0	50.0	70.0	0	
G2IV	U2	70	12	17	5	352	3.0	35.0	60.0	60.0	0	
G2IV	U2	70	12	17	6	352	2.0	40.0	120.0	150.0	0	
G2IV	U2	70	12	17	7	352	2.0	290.0	300.0	300.0	0	
G2IV	U2	70	12	17	8	352	2.5	40.0	160.0	170.0	0	
G2IV	U2	70	12	17	9	352	2.0	15.0	140.0	140.0	0	
G2IV	U2	70	12	17	10	352	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	17	11	352	4.0	240.0	60.0	120.0	0	
G2IV	U2	70	12	17	12	352	4.0	210.0	45.0	100.0	0	
G2IV	U2	70	12	17	13	352	4.5	220.0	40.0	60.0	0	
G2IV	U2	70	12	17	14	352	3.5	230.0	60.0	100.0	0	
G2IV	U2	70	12	17	15	352	5.5	230.0	30.0	55.0	0	
G2IV	U2	70	12	17	16	352	17.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	17	17	352	3.0	210.0	30.0	55.0	0	
G2IV	U2	70	12	17	18	352	2.5	140.0	160.0	170.0	0	
G2IV	U2	70	12	17	19	352	3.0	15.0	260.0	270.0	0	
G2IV	U2	70	12	17	20	352	77.7	777.7	777.7	777.7	0	
G2IV	U2	70	12	17	21	352	3.0	10.0	40.0	100.0	0	
G2IV	U2	70	12	17	22	352	3.0	20.0	340.0	350.0	0	
G2IV	U2	70	12	17	23	352	2.0	120.0	290.0	310.0	0	
G2IV	U2	70	12	17	24	352	2.0	60.0	50.0	60.0	0	
G2IV	U2	70	12	17	25	352	2.0	270.0	350.0	350.0	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 70 TO JAN 77 H E LRAMCO CO										DATE 02/14/77	PAGE	
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(CALM = 77--)
							(MPH)	(DEG)	(UGD)	(UGD)	(HIVOL)	(MISSING = 99--)
	GE:IV	02	70	12	14	18	5	353	4.0	110.0	245.0	0
	GE:IV	02	70	12	14	5	353	2.0	36.0	70.0	95.0	0
	GE:IV	02	70	12	18	4	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	5	353	2.5	51.0	75.0	100.0	0
	GE:IV	02	70	12	18	6	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	7	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	8	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	9	353	2.0	65.0	105.0	135.0	0
	GE:IV	02	70	12	18	10	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	11	353	2.5	51.0	290.0	350.0	0
	GE:IV	02	70	12	18	12	353	3.5	210.0	65.0	95.0	0
	GE:IV	02	70	12	18	13	353	5.0	265.0	65.0	105.0	0
	GE:IV	02	70	12	18	14	353	5.5	235.0	20.0	40.0	0
	GE:IV	02	70	12	18	15	353	5.0	250.0	30.0	50.0	0
	GE:IV	02	70	12	18	16	353	5.0	275.0	55.0	85.0	0
	GE:IV	02	70	12	18	17	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	18	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	19	353	2.0	10.0	105.0	215.0	0
	GE:IV	02	70	12	18	20	353	2.5	30.0	190.0	220.0	0
	GE:IV	02	70	12	18	21	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	22	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	23	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	24	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	18	25	353	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	0	354	3.0	15.0	65.0	95.0	0
	GE:IV	02	70	12	19	1	354	2.5	51.0	100.0	120.0	0
	GE:IV	02	70	12	19	2	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	3	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	4	354	3.0	75.0	135.0	165.0	0
	GE:IV	02	70	12	19	5	354	2.0	100.0	210.0	220.0	0
	GE:IV	02	70	12	19	6	354	2.5	30.0	55.0	75.0	0
	GE:IV	02	70	12	19	7	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	8	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	9	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	10	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	11	354	2.0	240.0	60.0	100.0	0
	GE:IV	02	70	12	19	12	354	3.5	735.0	50.0	90.0	0
	GE:IV	02	70	12	19	13	354	3.0	240.0	60.0	90.0	0
	GE:IV	02	70	12	19	14	354	3.0	210.0	65.0	90.0	0
	GE:IV	02	70	12	19	15	354	5.5	210.0	30.0	50.0	0
	GE:IV	02	70	12	19	16	354	5.5	165.0	75.0	95.0	0
	GE:IV	02	70	12	19	17	354	3.5	315.0	75.0	95.0	0
	GE:IV	02	70	12	19	18	354	2.0	355.0	135.0	205.0	0
	GE:IV	02	70	12	19	19	354	3.5	310.0	160.0	215.0	0
	GE:IV	02	70	12	19	20	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	21	354	2.5	55.0	70.0	95.0	0
	GE:IV	02	70	12	19	22	354	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	19	23	354	2.0	355.0	60.0	100.0	0
	GE:IV	02	70	12	20	0	355	2.5	65.0	95.0	155.0	0
	GE:IV	02	70	12	20	1	355	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	20	2	355	3.0	55.0	40.0	5.0	0
	GE:IV	02	70	12	20	3	355	2.0	25.0	15.0	11.0	0
	GE:IV	02	70	12	20	4	355	77.7	777.7	777.7	777.7	0
	GE:IV	02	70	12	20	5	355	2.5	35.0	85.0	115.0	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 N E CHANCO CO												DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	IND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK WIND	SECTOR	(CALC = 77--)	
							(MPH)	(DEG)	(LEGS)	(DEG)	HIVOL MIL.	(MISSING = 49--)	
GLINV	02	76	12	20	6	355	2.5	65.0	94.0	115.	0		
GLINV	02	76	12	20	7	355	2.5	15.0	100.0	120.0	0		
GLINV	02	76	12	20	8	355	2.0	25.0	155.0	185.0	0		
GLINV	02	76	12	20	9	355	2.0	25.0	290.0	310.0	0		
GLINV	02	76	12	20	10	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	20	11	355	2.5	220.0	70.0	210.0	0		
GLINV	02	76	12	20	12	355	4.0	230.0	35.0	65.0	0		
GLINV	02	76	12	20	13	355	5.0	210.0	50.0	80.0	0		
GLINV	02	76	12	20	14	355	4.0	35.0	40.0	75.0	0		
GLINV	02	76	12	20	15	355	5.0	40.0	20.0	40.0	0		
GLINV	02	76	12	20	16	355	5.0	40.0	40.0	50.0	0		
GLINV	02	76	12	20	17	355	2.0	170.0	190.0	210.0	0		
GLINV	02	76	12	20	18	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	20	19	355	2.0	40.0	210.0	240.0	0		
GLINV	02	76	12	20	20	355	2.0	20.0	35.0	50.0	0		
GLINV	02	76	12	20	21	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	20	22	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	20	23	355	4.0	15.0	50.0	65.0	0		
GLINV	02	76	12	21	0	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	1	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	2	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	3	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	4	355	4.0	40.0	65.0	90.0	0		
GLINV	02	76	12	21	5	355	4.0	35.0	65.0	80.0	0		
GLINV	02	76	12	21	6	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	7	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	8	355	4.0	60.0	75.0	100.0	0		
GLINV	02	76	12	21	9	355	3.0	20.0	110.0	130.0	0		
GLINV	02	76	12	21	10	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	11	355	3.0	190.0	190.0	170.0	0		
GLINV	02	76	12	21	12	355	6.0	200.0	60.0	100.0	0		
GLINV	02	76	12	21	13	355	5.0	40.0	50.0	65.0	0		
GLINV	02	76	12	21	14	355	5.0	230.0	45.0	80.0	0		
GLINV	02	76	12	21	15	355	3.0	210.0	35.0	65.0	0		
GLINV	02	76	12	21	16	355	6.0	210.0	30.0	45.0	0		
GLINV	02	76	12	21	17	355	3.0	190.0	30.0	45.0	0		
GLINV	02	76	12	21	18	355	3.0	15.0	195.0	230.0	0		
GLINV	02	76	12	21	19	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	20	355	4.0	20.0	60.0	120.0	0		
GLINV	02	76	12	21	21	355	2.0	45.0	50.0	65.0	0		
GLINV	02	76	12	21	22	355	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	21	23	355	17.7	177.7	777.7	777.7	0		
GLINV	02	76	12	22	0	357	2.0	20.0	15.0	20.0	0		
GLINV	02	76	12	22	1	357	77.7	777.7	777.7	777.7	0		
GLINV	02	76	12	22	2	357	2.0	25.0	60.0	90.0	0		
GLINV	02	76	12	22	3	357	3.0	30.0	65.0	100.0	0		
GLINV	02	76	12	22	4	357	17.7	177.7	777.7	777.7	0		
GLINV	02	76	12	22	5	357	4.0	30.0	100.0	110.0	0		
GLINV	02	76	12	22	6	357	2.0	35.0	55.0	65.0	0		
GLINV	02	76	12	22	7	357	2.0	35.0	55.0	65.0	0		
GLINV	02	76	12	22	8	357	2.0	35.0	55.0	65.0	0		
GLINV	02	76	12	22	9	357	77.7	177.7	777.7	777.7	0		

(C-4)

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 70 TO JAN 77 H E CERKCO CO											DATE 02/1/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(CALTH = 77--)
						(DUC)	(MPH)	(DEG)	(DEG)	(DEG)	HIVOL H.D.	(MISSING = 99--)
ULIV	02	70	12	22	10	357	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	22	11	357	5.0	270.0	70.0	110.0	0	
ULIV	02	70	12	22	12	357	3.5	210.0	110.0	180.0	0	
ULIV	02	70	12	22	13	357	4.5	210.0	40.0	70.0	0	
ULIV	02	70	12	22	14	357	5.0	270.0	25.0	60.0	0	
ULIV	02	70	12	22	15	357	3.5	220.0	45.0	70.0	0	
ULIV	02	70	12	22	16	357	4.0	245.0	60.0	100.0	0	
ULIV	02	70	12	22	17	357	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	22	18	357	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	22	19	357	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	22	20	357	2.0	85.0	150.0	165.0	0	
ULIV	02	70	12	22	21	357	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	22	22	357	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	22	23	357	2.0	7.0	120.0	130.0	0	
ULIV	02	70	12	23	0	358	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	23	1	358	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	23	2	358	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	23	3	358	2.5	60.0	210.0	390.0	0	
ULIV	02	70	12	23	4	358	3.5	300.0	310.0	360.0	0	
ULIV	02	70	12	23	5	358	1.0	320.0	200.0	320.0	0	
ULIV	02	70	12	23	6	358	2.0	290.0	350.0	360.0	0	
ULIV	02	70	12	23	7	358	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	23	8	358	2.5	300.0	190.0	220.0	0	
ULIV	02	70	12	23	9	358	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	23	10	358	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	23	11	358	2.0	10.0	260.0	360.0	0	
ULIV	02	70	12	23	12	358	5.5	70.0	60.0	80.0	0	
ULIV	02	70	12	23	13	358	4.0	270.0	310.0	360.0	0	
ULIV	02	70	12	23	14	358	3.0	240.0	320.0	360.0	0	
ULIV	02	70	12	23	15	358	2.0	330.0	330.0	360.0	0	
ULIV	02	70	12	23	16	358	2.0	290.0	150.0	170.0	0	
ULIV	02	70	12	23	17	358	3.0	270.0	160.0	200.0	0	
ULIV	02	70	12	23	18	358	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	23	19	358	3.0	340.0	310.0	340.0	0	
ULIV	02	70	12	23	20	358	2.5	330.0	150.0	170.0	0	
ULIV	02	70	12	23	21	358	2.5	180.0	300.0	320.0	0	
ULIV	02	70	12	23	22	358	4.0	110.0	220.0	250.0	0	
ULIV	02	70	12	23	23	358	5.5	120.0	90.0	115.0	0	
ULIV	02	70	12	24	0	359	3.0	70.0	260.0	220.0	0	
ULIV	02	70	12	24	1	359	2.0	10.0	360.0	360.0	0	
ULIV	02	70	12	24	2	359	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	24	3	359	2.0	270.0	140.0	260.0	0	
ULIV	02	70	12	24	4	359	<0	55.0	110.0	120.0	0	
ULIV	02	70	12	24	5	359	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	24	6	359	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	24	7	359	2.0	45.0	100.0	200.0	0	
ULIV	02	70	12	24	8	359	2.5	40.0	60.0	100.0	0	
ULIV	02	70	12	24	9	359	77.7	777.7	777.7	777.7	0	
ULIV	02	70	12	24	10	359	3.5	220.0	130.0	150.0	0	
ULIV	02	70	12	24	11	359	6.0	<10.0	130.0	150.0	0	
ULIV	02	70	12	24	12	359	10.0	370.0	20.0	40.0	0	
ULIV	02	70	12	24	13	359	10.0	320.0	45.0	45.0	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAMCO CO

DATE 03/14/77 PAGE

PROJ.	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(Calm = 77---)
												(LOC.)

GLNV	02	76	12	24	14	359	16.0	300.0	30.0	50.0	0
GLNV	02	76	12	24	15	359	21.5	310.0	20.0	40.0	0
GLNV	02	76	12	24	16	359	15.5	300.0	24.0	40.0	0
GLNV	02	76	12	24	17	359	20.0	300.0	10.0	30.0	0
GLNV	02	76	12	24	18	359	11.5	340.0	85.0	105.0	0
GLNV	02	76	12	24	19	359	6.0	235.0	330.0	300.0	0
GLNV	02	76	12	24	20	359	4.5	130.0	300.0	360.0	0
GLNV	02	76	12	24	21	359	3.5	80.0	260.0	285.0	0
GLNV	02	76	12	24	22	359	3.0	70.0	60.0	90.0	0
GLNV	02	76	12	24	23	359	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	0	360	3.5	35.0	50.0	70.0	0
GLNV	02	76	12	25	1	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	2	360	2.0	55.0	65.0	105.0	0
GLNV	02	76	12	25	3	360	2.5	26.0	110.0	130.0	0
GLNV	02	76	12	25	4	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	5	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	6	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	7	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	8	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	9	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	10	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	11	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	12	360	3.0	275.0	350.0	360.0	0
GLNV	02	76	12	25	13	360	6.0	225.0	55.0	60.0	0
GLNV	02	76	12	25	14	360	5.0	240.0	50.0	60.0	0
GLNV	02	76	12	25	15	360	4.5	240.0	30.0	60.0	0
GLNV	02	76	12	25	16	360	2.5	260.0	140.0	160.0	0
GLNV	02	76	12	25	17	360	3.0	140.0	60.0	80.0	0
GLNV	02	76	12	25	18	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	19	360	3.5	15.0	50.0	60.0	0
GLNV	02	76	12	25	20	360	2.5	45.0	80.0	90.0	0
GLNV	02	76	12	25	21	360	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	22	360	2.0	60.0	125.0	160.0	0
GLNV	02	76	12	25	23	360	3.0	30.0	65.0	100.0	0
GLNV	02	76	12	25	24	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	25	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	26	361	2.0	50.0	125.0	140.0	0
GLNV	02	76	12	25	27	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	28	361	3.0	777.7	777.7	777.7	0
GLNV	02	76	12	25	29	361	3.0	777.7	777.7	777.7	0
GLNV	02	76	12	25	30	361	4.5	777.7	777.7	777.7	0
GLNV	02	76	12	25	31	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	32	361	3.0	777.7	777.7	777.7	0
GLNV	02	76	12	25	33	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	34	361	3.0	777.7	777.7	777.7	0
GLNV	02	76	12	25	35	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	36	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	37	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	38	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	39	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	40	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	41	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	42	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	43	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	44	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	45	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	46	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	47	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	48	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	49	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	50	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	51	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	52	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	53	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	54	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	25	55	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	26	6	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	26	7	361	3.0	40.0	90.0	120.0	0
GLNV	02	76	12	26	8	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	26	9	361	77.7	777.7	777.7	777.7	0
GLNV	02	76	12	26	10	361	5.0	120.0	185.0	205.0	0
GLNV	02	76	12	26	11	361	5.5	250.0	60.0	170.0	0
GLNV	02	76	12	26	12	361	4.5	250.0	80.0	120.0	0
GLNV	02	76	12	26	13	361	4.0	275.0	135.0	150.0	0
GLNV	02	76	12	26	14	361	5.0	24.0	25.0	55.0	0
GLNV	02	76	12	26	15	361	4.0	280.0	105.0	130.0	0
GLNV	02	76	12	26	16	361	2.0	180.0	195.0	170.0	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO										DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK WIND SECTOR	(CASH = 77--)
		(1,00)	DAY	(1,00-H)		(100)	(100)	(100)	(100)	WIVOL INL.	(MISSING = 99--)
	GLRV	02	76	12	20	16	301	2.0	10.0	265.0	265.0
	GLRV	02	76	12	20	19	301	2.5	40.0	120.0	130.0
	GLRV	02	76	12	20	20	301	2.5	95.0	90.0	100.0
	GLRV	02	76	12	20	21	301	3.0	275.0	225.0	245.0
	GLRV	02	76	12	20	22	301	3.0	51.0	300.0	360.0
	GLRV	02	76	12	20	23	301	2.0	325.0	310.0	345.0
	GLRV	02	76	12	21	0	302	77.7	777.7	777.7	777.7
	GLRV	02	76	12	21	1	302	77.7	777.7	777.7	777.7
	GLRV	02	76	12	21	2	302	77.7	777.7	777.7	777.7
	GLRV	02	76	12	21	3	302	77.7	777.7	777.7	777.7
	GLRV	02	76	12	21	4	302	2.5	45.0	190.0	220.0
	GLRV	02	76	12	21	5	302	2.0	55.0	170.0	185.0
	GLRV	02	76	12	21	6	302	2.0	155.0	300.0	300.0
	GLRV	02	76	12	21	7	302	5.0	75.0	260.0	330.0
	GLRV	02	76	12	21	8	302	4.0	405.0	300.0	360.0
	GLRV	02	76	12	21	9	302	2.5	115.0	65.0	90.0
	GLRV	02	76	12	21	10	302	3.0	225.0	335.0	360.0
	GLRV	02	76	12	21	11	302	5.0	175.0	65.0	90.0
	GLRV	02	76	12	21	12	302	5.0	215.0	65.0	100.0
	GLRV	02	76	12	21	13	302	5.5	205.0	50.0	90.0
	GLRV	02	76	12	21	14	302	14.0	215.0	185.0	230.0
	GLRV	02	76	12	21	15	302	3.0	34.0	15.0	35.0
	GLRV	02	76	12	21	16	302	2.5	341.0	10.0	35.0
	GLRV	02	76	12	21	17	302	17.0	345.0	5.0	30.0
	GLRV	02	76	12	21	18	302	14.0	311.0	60.0	75.0
	GLRV	02	76	12	21	19	302	5.5	335.0	280.0	315.0
	GLRV	02	76	12	21	20	302	2.5	66.0	75.0	150.0
	GLRV	02	76	12	21	21	302	3.0	135.0	170.0	210.0
	GLRV	02	76	12	21	22	302	3.0	95.0	70.0	95.0
	GLRV	02	76	12	21	23	302	2.0	60.0	140.0	180.0
	GLRV	02	76	12	20	0	303	77.7	777.7	777.7	777.7
	GLRV	02	76	12	20	1	303	77.7	777.7	777.7	777.7
	GLRV	02	76	12	20	2	303	2.0	160.0	231.0	265.0
	GLRV	02	76	12	20	3	303	2.0	20.0	115.0	140.0
	GLRV	02	76	12	20	4	303	2.0	35.0	75.0	100.0
	GLRV	02	76	12	20	5	303	77.7	777.7	777.7	777.7
	GLRV	02	76	12	20	6	303	2.0	80.0	160.0	170.0
	GLRV	02	76	12	20	7	303	2.5	360.0	160.0	190.0
	GLRV	02	76	12	20	8	303	2.0	45.0	120.0	150.0
	GLRV	02	76	12	20	9	303	77.7	777.7	777.7	777.7
	GLRV	02	76	12	20	10	303	2.0	275.0	150.0	180.0
	GLRV	02	76	12	20	11	303	4.0	231.0	65.0	90.0
	GLRV	02	76	12	20	12	303	3.0	231.0	165.0	140.0
	GLRV	02	76	12	20	13	303	4.5	230.0	25.0	50.0
	GLRV	02	76	12	20	14	303	5.0	247.0	20.0	50.0
	GLRV	02	76	12	20	15	303	5.5	280.0	25.0	65.0
	GLRV	02	76	12	20	16	303	3.5	245.0	25.0	60.0
	GLRV	02	76	12	20	17	303	2.0	310.0	70.0	320.0
	GLRV	02	76	12	20	18	303	77.7	777.7	777.7	777.7
	GLRV	02	76	12	20	19	303	2.0	7.0	120.0	10.0
	GLRV	02	76	12	20	20	303	2.5	55.0	360.0	355.0
	GLRV	02	76	12	20	21	303	3.0	100.0	360.0	345.0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAMCO CO

DATE 02/14/77 PAGE 1

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	TCAN = 77--	TMISNG = 49--
		(LOC)		DAY	(HHR)	(DD)	(MPH)	(DEG)	(DEG)	HIVOL	THRS		

GLE.V	02	70	12	26	22	303	2.0	55.0	75.0	90.0	0		
GLE.V	02	70	12	26	23	303	3.0	51.0	45.0	115.0	0		
GLE.V	02	70	12	29	0	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	29	1	304	3.0	100.0	140.0	165.0	0		
GLE.V	02	70	12	29	2	304	2.5	60.0	85.0	95.0	0		
GLE.V	02	70	12	29	3	304	2.5	20.0	90.0	165.0	0		
GLE.V	02	70	12	29	4	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	29	5	304	2.5	45.0	74.0	85.0	0		
GLE.V	02	70	12	29	6	304	2.5	80.0	145.0	165.0	0		
GLE.V	02	70	12	29	7	304	3.0	15.0	90.0	135.0	0		
GLE.V	02	70	12	29	8	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	29	9	304	3.0	60.0	100.0	200.0	0		
GLE.V	02	70	12	29	10	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	29	11	304	2.5	20.0	75.0	200.0	0		
GLE.V	02	70	12	29	12	304	3.0	200.0	250.0	310.0	0		
GLE.V	02	70	12	29	13	304	5.0	30.0	50.0	55.0	0		
GLE.V	02	70	12	29	14	304	5.5	140.0	25.0	45.0	0		
GLE.V	02	70	12	29	15	304	4.0	200.0	40.0	60.0	0		
GLE.V	02	70	12	29	16	304	3.0	235.0	55.0	65.0	0		
GLE.V	02	70	12	29	17	304	2.0	15.0	60.0	70.0	0		
GLE.V	02	70	12	29	18	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	29	19	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	29	20	304	3.0	45.0	120.0	170.0	0		
GLE.V	02	70	12	29	21	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	29	22	304	2.5	320.0	200.0	275.0	0		
GLE.V	02	70	12	29	23	304	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	0	305	3.0	30.0	60.0	550.0	0		
GLE.V	02	70	12	30	1	305	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	2	305	71.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	3	305	5.5	60.0	160.0	120.0	0		
GLE.V	02	70	12	30	4	305	2.0	25.0	150.0	240.0	0		
GLE.V	02	70	12	30	5	305	2.5	260.0	300.0	300.0	0		
GLE.V	02	70	12	30	6	305	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	7	305	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	8	305	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	9	305	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	10	305	77.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	11	305	5.5	200.0	150.0	200.0	0		
GLE.V	02	70	12	30	12	305	5.0	240.0	50.0	70.0	0		
GLE.V	02	70	12	30	13	305	0.0	240.0	25.0	55.0	0		
GLE.V	02	70	12	30	14	305	0.5	250.0	50.0	60.0	0		
GLE.V	02	70	12	30	15	305	0.5	250.0	50.0	50.0	0		
GLE.V	02	70	12	30	16	305	0.5	270.0	30.0	50.0	0		
GLE.V	02	70	12	30	17	305	5.5	295.0	70.0	95.0	0		
GLE.V	02	70	12	30	18	305	17.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	19	305	2.5	55.0	265.0	310.0	0		
GLE.V	02	70	12	30	20	305	17.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	21	305	0.0	150.0	70.0	10.0	0		
GLE.V	02	70	12	30	22	305	17.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	30	23	305	5.5	33.0	160.0	170.0	0		
GLE.V	02	70	12	31	0	306	71.7	777.7	777.7	777.7	0		
GLE.V	02	70	12	31	1	306	77.7	777.7	777.7	777.7	0		

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

SENECA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAMCO CG										DATE 02/14/77	PAGE	
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SECTOR	(C/M = 77--)
							(MPS)	(DEG)	(LEGS)	(D-G)	HIVCL IND.	(MISSING = 49--)
GLI.V	02	76	12	31	2	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	3	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	4	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	5	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	6	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	7	300	0.0	45.0	45.0	17.0	0	
GLI.V	02	76	12	31	8	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	9	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	10	300	77.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	11	300	2.0	34.0	204.0	230.0	0	
GLI.V	02	76	12	31	12	300	4.5	206.0	100.0	145.0	0	
GLI.V	02	76	12	31	13	300	7.0	190.0	75.0	100.0	0	
GLI.V	02	76	12	31	14	300	9.5	170.0	50.0	50.0	0	
GLI.V	02	76	12	31	15	300	6.0	175.0	40.0	90.0	0	
GLI.V	02	76	12	31	16	300	6.0	175.0	64.0	120.0	0	
GLI.V	02	76	12	31	17	300	9.0	140.0	60.0	85.0	0	
GLI.V	02	76	12	31	18	300	3.5	140.0	240.0	270.0	0	
GLI.V	02	76	12	31	19	300	71.7	777.7	777.7	777.7	0	
GLI.V	02	76	12	31	20	300	3.0	30.0	295.0	350.0	0	
GLI.V	02	76	12	31	21	300	2.0	101.0	170.0	210.0	0	
GLI.V	02	76	12	31	22	300	2.0	11.0	145.0	210.0	0	
GLI.V	02	76	12	31	23	300	2.5	291.0	200.0	275.0	0	
GLI.V	02	77	1	1	0	1	2.5	45.0	27.0	300.0	0	
GLI.V	02	77	1	1	1	1	2.5	21.0	330.0	350.0	0	
GLI.V	02	77	1	1	1	1	77.7	777.7	777.7	777.7	0	
GLI.V	02	77	1	1	1	1	4.0	130.0	170.0	130.0	0	
GLI.V	02	77	1	1	1	1	4.0	140.0	140.0	170.0	0	
GLI.V	02	77	1	1	1	1	4.5	180.0	130.0	160.0	0	
GLI.V	02	77	1	1	1	1	4.0	110.0	285.0	320.0	0	
GLI.V	02	77	1	1	1	1	3.0	130.0	100.0	240.0	0	
GLI.V	02	77	1	1	1	1	3.5	220.0	200.0	300.0	0	
GLI.V	02	77	1	1	1	1	6.5	145.0	60.0	85.0	0	
GLI.V	02	77	1	1	1	1	7.0	14.0	44.0	70.0	0	
GLI.V	02	77	1	1	1	1	6.0	135.0	70.0	95.0	0	
GLI.V	02	77	1	1	1	1	5.5	145.0	95.0	135.0	0	
GLI.V	02	77	1	1	1	1	6.0	145.0	90.0	135.0	0	
GLI.V	02	77	1	1	1	1	9.0	155.0	70.0	100.0	0	
GLI.V	02	77	1	1	1	1	6.0	160.0	90.0	120.0	0	
GLI.V	02	77	1	1	1	1	8.0	160.0	60.0	90.0	0	
GLI.V	02	77	1	1	1	1	7.5	165.0	270.0	300.0	0	
GLI.V	02	77	1	1	1	1	4.0	160.0	120.0	140.0	0	
GLI.V	02	77	1	1	1	1	5.0	160.0	145.0	145.0	0	
GLI.V	02	77	1	1	1	1	4.5	95.0	34.0	45.0	0	
GLI.V	02	77	1	1	1	1	4.5	135.0	50.0	75.0	0	
GLI.V	02	77	1	1	1	1	4.5	135.0	70.0	95.0	0	
GLI.V	02	77	1	1	1	1	6.0	150.0	70.0	100.0	0	
GLI.V	02	77	1	1	1	1	4.5	160.0	31.0	50.0	0	
GLI.V	02	77	1	1	1	1	4.0	160.0	60.0	80.0	0	
GLI.V	02	77	1	1	1	1	9.0	165.0	50.0	80.0	0	
GLI.V	02	77	1	1	1	1	2.5	165.0	110.0	150.0	0	
GLI.V	02	77	1	1	1	1	8.5	160.0	35.0	70.0	0	
GLI.V	02	77	1	1	1	1	2.2	155.0	60.0	80.0	0	
GLI.V	02	77	1	1	1	1	12.0	160.0	31.0	50.0	0	
GLI.V	02	77	1	1	1	1	10.5	160.0	60.0	100.0	0	
GLI.V	02	77	1	1	1	1	9.0	160.0	31.0	50.0	0	
GLI.V	02	77	1	1	1	1	9.0	165.0	50.0	80.0	0	
GLI.V	02	77	1	1	1	1	9.0	165.0	50.0	80.0	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E LAMCO CO												DATE 02/10/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK WIND SPECTRUM	(CALY = 77---)	(MISSIN = NO---)	
							(MPH)	(DEG)	(KPH)	(BLW)			
	SLNV	02	77	1	2	0	2.0	140.0	65.0	85.0	0		
	ULIV	02	77	1	2	7	2.2	95.5	110.0	70.0	90.0	0	
	ULIV	02	77	1	2	8	2.2	60.0	105.0	50.0	80.0	0	
	ULIV	02	77	1	2	9	2.2	60.0	105.0	40.0	50.0	0	
	GLIV	02	77	1	2	10	2.2	55.5	120.0	65.0	105.0	0	
	GLIV	02	77	1	2	11	2.2	55.5	140.0	55.0	80.0		
	GLIV	02	77	1	2	12	2.2	55.5	150.0	45.0	70.0		
	ULIV	02	77	1	2	13	2.2	11.5	16.0	55.0	80.0		
	ULIV	02	77	1	2	14	2.2	9.5	15.0	65.0	95.0		
	ULIV	02	77	1	2	15	2.2	6.0	14.0	55.0	95.0		
	CLIV	02	77	1	2	16	2.2	8.5	13.0	35.0	70.0		
	ULIV	02	77	1	2	17	2.2	9.0	130.0	55.0	70.0		
	ULIV	02	77	1	2	18	2.2	10.0	135.0	15.0	50.0		
	ULIV	02	77	1	2	19	2.2	7.5	115.0	70.0	105.0		
	ULIV	02	77	1	2	20	2.2	5.0	115.0	50.0	75.0		
	ULIV	02	77	1	2	21	2.2	5.5	120.0	60.0	85.0		
	ULIV	02	77	1	2	22	2.2	10.0	110.0	65.0	90.0		
	ULIV	02	77	1	2	23	2.2	8.0	150.0	50.0	80.0		
	ULIV	02	77	1	2	24	2.2	7.5	145.0	25.0	75.0		
	ULIV	02	77	1	2	25	2.2	5.0	160.0	90.0	110.0		
	ULIV	02	77	1	3	2	2	5.5	190.0	90.0	125.0		
	ULIV	02	77	1	3	3	2	5.5	115.0	60.0	85.0		
	ULIV	02	77	1	3	4	2	5.5	170.0	270.0	300.0		
	ULIV	02	77	1	3	5	2	5.5	165.0	300.0	300.0		
	ULIV	02	77	1	3	6	2	5.5	230.0	300.0	300.0		
	ULIV	02	77	1	3	7	2	5.5	190.0	70.0	105.0		
	ULIV	02	77	1	3	8	2	5.5	145.0	40.0	60.0		
	ULIV	02	77	1	3	9	2	5.5	155.0	90.0	115.0		
	ULIV	02	77	1	3	10	2	5.5	205.0	130.0	135.0		
	ULIV	02	77	1	3	11	2	5.5	340.0	550.0	360.0		
	ULIV	02	77	1	3	12	2	7.0	110.0	140.0	170.0		
	ULIV	02	77	1	3	13	2	10.0	150.0	145.0	170.0		
	ULIV	02	77	1	3	14	2	10.0	115.0	110.0	105.0		
	ULIV	02	77	1	3	15	2	9.0	130.0	45.0	80.0		
	ULIV	02	77	1	3	16	2	13.5	140.0	40.0	65.0		
	ULIV	02	77	1	3	17	2	12.0	130.0	35.0	60.0		
	ULIV	02	77	1	3	18	2	10.0	140.0	60.0	95.0		
	ULIV	02	77	1	3	19	2	5.0	280.0	230.0	270.0		
	ULIV	02	77	1	3	20	2	5.5	10.0	45.0	70.0		
	ULIV	02	77	1	3	21	2	5.5	270.0	150.0	180.0		
	ULIV	02	77	1	3	22	2	5.5	290.0	175.0	195.0		
	ULIV	02	77	1	3	23	2	5.5	330.0	80.0	105.0		
	ULIV	02	77	1	4	1	4	3.5	295.0	130.0	155.0		
	ULIV	02	77	1	4	2	4	3.5	240.0	55.0	80.0		
	GLIV	02	77	1	4	3	4	4.5	300.0	120.0	145.0		
	GLIV	02	77	1	4	4	4	4.5	300.0	240.0	265.0		
	GLIV	02	77	1	4	5	4	7.7	777.7	777.7	777.7		
	GLIV	02	77	1	4	6	4	3.0	311.0	140.0	170.0		
	GLIV	02	77	1	4	7	4	7.7	777.7	777.7	777.7		
	ULIV	02	77	1	4	8	4	7.5	350.0	110.0	130.0		
	ULIV	02	77	1	4	9	4	2.5	235.0	30.0	50.0		

(C-4)

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STELL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAPCO CO												DATE 02/14/77	PAGE
FROM	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(CAMP = 77---	
(LOC)							(MPH)	(DEG)	(WFG)	(DEG)	HIVOL 100.	(MISSING = 99---	
GLIV	02	77	1	4	10	4	14.5	340.0	40.0	65.0	0		
GLIV	02	77	1	4	11	4	9.5	320.0	44.0	65.0	0		
GLIV	02	77	1	4	12	4	9.5	270.0	50.0	65.0	0		
GLIV	02	77	1	4	13	4	8.0	210.0	44.0	70.0	0		
GLIV	02	77	1	4	14	4	6.0	220.0	170.0	195.0	0		
GLIV	02	77	1	4	15	4	4.0	200.0	104.0	190.0	0		
GLIV	02	77	1	4	16	4	3.0	210.0	70.0	100.0	0		
GLIV	02	77	1	4	17	4	3.0	180.0	60.0	65.0	0		
GLIV	02	77	1	4	18	4	3.0	110.0	150.0	162.0	0		
GLIV	02	77	1	4	19	4	3.0	15.0	5.0	10.0	0		
GLIV	02	77	1	4	20	4	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	4	21	4	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	4	22	4	2.5	36.0	55.0	70.0	0		
GLIV	02	77	1	4	23	4	3.5	20.0	45.0	65.0	0		
GLIV	02	77	1	5	0	5	2.5	55.0	120.0	130.0	0		
GLIV	02	77	1	5	1	5	4.0	95.0	310.0	360.0	0		
GLIV	02	77	1	5	2	5	3.0	20.0	75.0	90.0	0		
GLIV	02	77	1	5	3	5	2.5	184.0	184.0	195.0	0		
GLIV	02	77	1	5	4	5	3.5	140.0	60.0	95.0	0		
GLIV	02	77	1	5	5	5	5.0	310.0	145.0	165.0	0		
GLIV	02	77	1	5	6	5	5.5	5.0	20.0	35.0	0		
GLIV	02	77	1	5	7	5	4.0	20.0	124.0	155.0	0		
GLIV	02	77	1	5	8	5	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	5	9	5	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	5	10	5	2.5	240.0	70.0	60.0	0		
GLIV	02	77	1	5	11	5	2.5	335.0	74.0	105.0	0		
GLIV	02	77	1	5	12	5	2.5	215.0	130.0	175.0	0		
GLIV	02	77	1	5	13	5	5.5	270.0	60.0	150.0	0		
GLIV	02	77	1	5	14	5	7.5	295.0	25.0	45.0	0		
GLIV	02	77	1	5	15	5	7.0	260.0	65.0	115.0	0		
GLIV	02	77	1	5	16	5	7.7	777.7	777.7	777.7	0		
GLIV	02	77	1	5	17	5	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	5	18	5	3.5	215.0	55.0	75.0	0		
GLIV	02	77	1	5	19	5	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	5	20	5	3.0	245.0	345.0	340.0	0		
GLIV	02	77	1	5	21	5	2.5	260.0	270.0	210.0	0		
GLIV	02	77	1	5	22	5	2.5	120.0	325.0	345.0	0		
GLIV	02	77	1	5	23	5	2.0	185.0	235.0	295.0	0		
GLIV	02	77	1	5	24	5	3.5	10.0	130.0	150.0	0		
GLIV	02	77	1	5	25	5	3.0	10.0	10.0	245.0	0		
GLIV	02	77	1	6	0	6	3.0	65.0	65.0	20.0	0		
GLIV	02	77	1	6	1	6	3.0	23.0	40.0	130.0	0		
GLIV	02	77	1	6	2	6	2.0	40.0	185.0	205.0	0		
GLIV	02	77	1	6	3	6	2.5	70.0	185.0	205.0	0		
GLIV	02	77	1	6	4	6	2.5	77.7	777.7	777.7	777.7	0	
GLIV	02	77	1	6	5	6	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	6	6	6	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	6	7	6	2.0	30.0	50.0	65.0	0		
GLIV	02	77	1	6	8	6	3.5	25.0	50.0	65.0	0		
GLIV	02	77	1	6	9	6	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	6	10	6	77.7	777.7	777.7	777.7	0		
GLIV	02	77	1	6	11	6	3.0	265.0	120.0	170.0	0		
GLIV	02	77	1	6	12	6	3.0	210.0	165.0	210.0	0		
GLIV	02	77	1	6	13	6	4.0	250.0	75.0	110.0	0		

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO													DATE 02/14/77	PAGE
FROM		YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(CAL) = 77--1		
		(LUC)	DAY	(MMT)		(INTU)	(DFU)	(DLG)	HIVOL INT.	(MISSING = 99--1)				
G.L.I.V	02	77	1	0	14	6	3.0	740.0	90.0	125.0	0			
G.L.I.V	02	77	1	0	15	6	4.5	245.0	40.0	65.0	0			
G.L.I.V	02	77	1	0	16	6	4.5	265.0	20.0	50.0	0			
G.L.I.V	02	77	1	0	17	6	3.5	290.0	30.0	45.0	0			
G.L.I.V	02	77	1	0	18	6	2.5	205.0	35.0	340.0	0			
G.L.I.V	02	77	1	0	19	6	2.0	105.0	60.0	80.0	0			
G.L.I.V	02	77	1	0	20	6	3.5	160.0	124.0	240.0	0			
G.L.I.V	02	77	1	0	21	6	2.5	220.0	30.0	320.0	0			
G.L.I.V	02	77	1	0	22	6	4.0	50.0	150.0	170.0	0			
G.L.I.V	02	77	1	0	23	6	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	0	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	1	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	2	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	3	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	4	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	5	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	6	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	7	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	8	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	9	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	10	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	11	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	12	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	13	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	14	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	15	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	16	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	17	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	18	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	19	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	20	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	21	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	22	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	7	23	7	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	0	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	1	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	2	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	3	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	4	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	5	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	6	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	7	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	8	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	9	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	10	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	11	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	12	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	13	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	14	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	15	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	16	8	77.7	777.7	777.7	777.7	0			
G.L.I.V	02	77	1	8	17	8	77.7	777.7	777.7	777.7	0			

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E LAROCHE CO												DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(C41H = 77---)	
							(MPH)	(DEG)	(FEG)	(FEG)	HIVOL	(MISSING = 09---)	
	G.L.I.V	02	77	1	5	16	8	10.0	295.	20.0	45.0	0	
	G.L.I.V	02	77	1	6	19	8	17.0	325.0	35.0	55.0	0	
	G.L.I.V	02	77	1	6	20	8	10.0	315.0	20.0	55.0	0	
	G.L.I.V	02	77	1	6	21	8	0.0	345.0	0.0	16.0	0	
	G.L.I.V	02	77	1	6	22	8	12.0	245.0	125.0	160.0	0	
	G.L.I.V	02	77	1	6	23	8	11.0	305.0	50.0	70.0	0	
	G.L.I.V	02	77	1	7	0	9	0.0	285.0	35.0	360.0	0	
	G.L.I.V	02	77	1	7	1	9	7.0	16.0	115.0	220.0	0	
	G.L.I.V	02	77	1	7	2	9	0.0	295.0	105.0	135.0	0	
	G.L.I.V	02	77	1	7	3	9	4.5	25.0	65.0	200.0	0	
	G.L.I.V	02	77	1	7	4	9	0.5	110.0	70.0	95.0	0	
	G.L.I.V	02	77	1	7	5	9	7.0	160.0	65.0	95.0	0	
	G.L.I.V	02	77	1	7	6	9	5.0	10.0	45.0	75.0	0	
	G.L.I.V	02	77	1	7	7	9	5.0	1.0	30.0	60.0	0	
	G.L.I.V	02	77	1	7	8	9	4.5	145.0	60.0	100.0	0	
	G.L.I.V	02	77	1	7	9	9	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	7	10	9	5.5	295.0	125.0	145.0	0	
	G.L.I.V	02	77	1	7	11	9	2.5	350.0	235.0	255.0	0	
	G.L.I.V	02	77	1	7	12	9	5.5	245.0	70.0	150.0	0	
	G.L.I.V	02	77	1	7	13	9	5.5	275.0	150.0	200.0	0	
	G.L.I.V	02	77	1	7	14	9	5.5	250.0	25.0	60.0	0	
	G.L.I.V	02	77	1	7	15	9	5.0	245.0	40.0	70.0	0	
	G.L.I.V	02	77	1	7	16	9	5.0	235.0	65.0	125.0	0	
	G.L.I.V	02	77	1	7	17	9	5.0	215.0	45.0	60.0	0	
	G.L.I.V	02	77	1	7	18	9	2.5	315.0	150.0	160.0	0	
	G.L.I.V	02	77	1	7	19	9	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	7	20	9	2.0	45.0	130.0	140.0	0	
	G.L.I.V	02	77	1	7	21	9	2.0	295.0	300.0	300.0	0	
	G.L.I.V	02	77	1	7	22	9	2.0	215.0	340.0	340.0	0	
	G.L.I.V	02	77	1	7	23	9	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	0	10	2.5	315.0	55.0	70.0	0	
	G.L.I.V	02	77	1	8	1	10	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	2	10	2.5	45.0	70.0	75.0	0	
	G.L.I.V	02	77	1	8	3	10	2.0	345.0	220.0	250.0	0	
	G.L.I.V	02	77	1	8	4	10	2.5	350.0	205.0	235.0	0	
	G.L.I.V	02	77	1	8	5	10	2.5	350.0	135.0	165.0	0	
	G.L.I.V	02	77	1	8	6	10	2.0	35.0	155.0	165.0	0	
	G.L.I.V	02	77	1	8	7	10	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	8	10	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	9	10	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	10	10	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	11	10	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	12	10	7.7	777.7	777.7	777.7	0	
	G.L.I.V	02	77	1	8	13	10	2.5	215.0	160.0	205.0	0	
	G.L.I.V	02	77	1	8	14	10	3.5	260.0	160.0	220.0	0	
	G.L.I.V	02	77	1	8	15	10	4.0	255.0	90.0	110.0	0	
	G.L.I.V	02	77	1	8	16	10	4.5	265.0	45.0	80.0	0	
	G.L.I.V	02	77	1	8	17	10	3.5	255.	45.0	75.0	0	
	G.L.I.V	02	77	1	8	18	10	2.5	185.0	115.0	135.0	0	
	G.L.I.V	02	77	1	8	19	10	2.5	85.0	26.0	290.0	0	
	G.L.I.V	02	77	1	8	20	10	4.0	15.0	95.0	145.0	0	
	G.L.I.V	02	77	1	8	21	10	7.7	777.7	777.7	777.7	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO												DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED (MPH)	WIND DIRECTION (MIL)	RANGE (LFU)	PEAK TO PEAK WIND SCTOR (OLG)	WIND DIR. (MILSING = 19---)		
	ULIV	02	77	1	11	22	10	4.0	120.0	560.0	360.0	0	
	ULIV	02	77	1	11	23	10	4.0	350.0	85.0	170.0	0	
	ULIV	02	77	1	11	0	11	4.5	75.0	230.0	260.0	0	
	ULIV	02	77	1	11	1	11	2.0	50.0	90.0	125.0	0	
	ULIV	02	77	1	11	2	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	3	11	4.5	185.0	750.0	370.0	0	
	ULIV	02	77	1	11	4	11	2.0	35.0	250.0	250.0	0	
	ULIV	02	77	1	11	5	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	6	11	4.0	20.0	160.0	125.0	0	
	ULIV	02	77	1	11	7	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	8	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	9	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	10	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	11	11	4.0	230.0	160.0	130.0	0	
	ULIV	02	77	1	11	12	11	4.0	240.0	55.0	95.0	0	
	ULIV	02	77	1	11	13	11	5.0	140.0	50.0	45.0	0	
	ULIV	02	77	1	11	14	11	5.0	230.0	35.0	65.0	0	
	ULIV	02	77	1	11	15	11	4.5	215.0	55.0	85.0	0	
	ULIV	02	77	1	11	16	11	5.0	210.0	35.0	70.0	0	
	ULIV	02	77	1	11	17	11	5.0	210.0	150.0	170.0	0	
	ULIV	02	77	1	11	18	11	2.5	345.0	45.0	65.0	0	
	ULIV	02	77	1	11	19	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	20	11	3.0	35.0	50.0	65.0	0	
	ULIV	02	77	1	11	21	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	11	22	11	4.0	345.0	150.0	170.0	0	
	ULIV	02	77	1	11	23	11	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	0	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	1	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	2	12	3.0	40.0	140.0	160.0	0	
	ULIV	02	77	1	12	3	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	4	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	5	12	4.0	220.0	275.0	295.0	0	
	ULIV	02	77	1	12	6	12	2.5	210.0	120.0	140.0	0	
	ULIV	02	77	1	12	7	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	8	12	4.5	90.0	205.0	230.0	0	
	ULIV	02	77	1	12	9	12	2.5	60.0	260.0	300.0	0	
	ULIV	02	77	1	12	10	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	11	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	12	12	4.0	240.0	300.0	360.0	0	
	ULIV	02	77	1	12	13	12	5.0	240.0	50.0	65.0	0	
	ULIV	02	77	1	12	14	12	5.5	250.0	30.0	60.0	0	
	ULIV	02	77	1	12	15	12	5.5	260.0	60.0	90.0	0	
	ULIV	02	77	1	12	16	12	4.5	250.0	35.0	65.0	0	
	ULIV	02	77	1	12	17	12	3.0	220.0	75.0	90.0	0	
	ULIV	02	77	1	12	18	12	4.0	150.0	150.0	180.0	0	
	ULIV	02	77	1	12	19	12	4.5	150.0	125.0	170.0	0	
	ULIV	02	77	1	12	20	12	2.5	60.0	205.0	310.0	0	
	ULIV	02	77	1	12	21	12	3.0	260.0	260.0	270.0	0	
	ULIV	02	77	1	12	22	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	23	12	3.0	210.0	200.0	230.0	0	
	ULIV	02	77	1	12	24	12	77.7	777.7	777.7	777.7	0	
	ULIV	02	77	1	12	25	12	3.0	210.0	200.0	230.0	0	
	ULIV	02	77	1	13	0	13	4.0	65.0	90.0	110.0	0	
	ULIV	02	77	1	13	1	13	4.5	110.0	150.0	210.0	0	

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

ULMENA STEEL RAW DATA AND AVE (ACFS NOV 76 TO JAN 77 H E CHAMCO CO)											DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK WIND	SECTOR	(CMM = 77---)
							(MPH)	(DEG)	(KTS)	(DLG)	HIVOL IND.	(MISSING = .9---
	ULMEN	02	77	1	13	2	15	6.0	120.0	110.0	140.0	0
	ULMEN	02	77	1	13	3	15	3.5	130.0	215.0	240.0	0
	ULMEN	02	77	1	13	4	15	2.5	115.0	150.0	150.0	0
	ULMEN	02	77	1	13	5	15	17.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	13	6	15	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	13	7	15	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	13	8	15	5.0	140.0	170.0	210.0	0
	ULMEN	02	77	1	13	9	15	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	13	10	15	5.0	345.0	90.0	140.0	0
	ULMEN	02	77	1	13	11	15	2.0	90.0	360.0	360.0	0
	ULMEN	02	77	1	13	12	15	4.0	230.0	90.0	110.0	0
	ULMEN	02	77	1	13	13	15	4.0	245.0	40.0	70.0	0
	ULMEN	02	77	1	13	14	15	4.5	260.0	40.0	60.0	0
	ULMEN	02	77	1	13	15	15	5.0	235.0	30.0	50.0	0
	ULMEN	02	77	1	13	16	15	4.0	220.0	60.0	80.0	0
	ULMEN	02	77	1	13	17	15	3.5	210.0	35.0	60.0	0
	ULMEN	02	77	1	13	18	15	2.5	200.0	260.0	300.0	0
	ULMEN	02	77	1	13	19	15	2.0	150.0	235.0	245.0	0
	ULMEN	02	77	1	13	20	15	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	13	21	15	5.5	110.0	190.0	210.0	0
	ULMEN	02	77	1	13	22	15	4.5	120.0	74.0	100.0	0
	ULMEN	02	77	1	13	23	15	5.0	90.0	150.0	190.0	0
	ULMEN	02	77	1	14	0	14	2.0	240.0	330.0	350.0	0
	ULMEN	02	77	1	14	1	14	2.0	110.0	300.0	320.0	0
	ULMEN	02	77	1	14	2	14	2.5	100.0	160.0	180.0	0
	ULMEN	02	77	1	14	3	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	4	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	5	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	6	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	7	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	8	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	9	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	10	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	14	11	14	2.0	240.0	50.0	60.0	0
	ULMEN	02	77	1	14	12	14	2.5	245.0	210.0	50.0	0
	ULMEN	02	77	1	14	13	14	2.5	240.0	50.0	50.0	0
	ULMEN	02	77	1	14	14	14	4.0	240.0	30.0	60.0	0
	ULMEN	02	77	1	14	15	14	5.0	240.0	30.0	50.0	0
	ULMEN	02	77	1	14	16	14	4.0	250.0	40.0	60.0	0
	ULMEN	02	77	1	14	17	14	3.0	170.0	90.0	115.0	0
	ULMEN	02	77	1	14	18	14	2.0	200.0	105.0	120.0	0
	ULMEN	02	77	1	14	19	14	2.5	200.0	140.0	160.0	0
	ULMEN	02	77	1	14	20	14	2.5	330.0	210.0	230.0	0
	ULMEN	02	77	1	14	21	14	3.0	130.0	300.0	300.0	0
	ULMEN	02	77	1	14	22	14	4.0	140.0	70.0	100.0	0
	ULMEN	02	77	1	14	23	14	77.7	777.7	777.7	777.7	0
	ULMEN	02	77	1	15	0	15	2.0	160.0	250.0	250.0	0
	ULMEN	02	77	1	15	1	15	3.0	270.0	100.0	160.0	0
	ULMEN	02	77	1	15	2	15	3.0	190.0	210.0	230.0	0
	ULMEN	02	77	1	15	3	15	2.0	170.0	310.0	310.0	0
	ULMEN	02	77	1	15	4	15	2.5	310.0	100.0	120.0	0
	ULMEN	02	77	1	15	5	15	2.5	190.0	310.0	330.0	0

(P-2)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAMCO CO											DATE 02/14/77	PAGE
PROJ	STATION	YEAR	NORTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SECTOR	(CALM = 77---
			(LUC)	SAY	(KPH)	(DEG)	(LFG)	(DEG)	(LFG)	(DEG)	LEVEL IN.	(MISSING = 99--)
	G1-NV	02	77	1	15	6	15	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	15	7	15	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	15	8	15	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	15	9	15	2.0	25.	75.0	105.0	0
	G1-NV	02	77	1	15	10	15	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	15	11	15	4.5	250.0	195.0	220.0	0
	G1-NV	02	77	1	15	12	15	3.5	250.	60.0	103.0	0
	G1-NV	02	77	1	15	13	15	5.0	250.0	34.0	60.0	0
	G1-NV	02	77	1	15	14	15	4.5	250.0	25.0	50.0	0
	G1-NV	02	77	1	15	15	15	4.0	250.0	35.0	50.0	0
	G1-NV	02	77	1	15	16	15	2.5	250.0	110.0	143.0	0
	G1-NV	02	77	1	15	17	15	3.5	250.	174.0	193.0	0
	G1-NV	02	77	1	15	18	15	2.5	160.0	210.0	250.0	0
	G1-NV	02	77	1	15	19	15	3.5	240.0	264.0	300.0	0
	G1-NV	02	77	1	15	20	15	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	15	21	15	3.0	160.0	240.0	240.0	0
	G1-NV	02	77	1	15	22	15	3.5	35.	164.0	203.0	0
	G1-NV	02	77	1	15	23	15	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	16	0	10	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	16	1	10	4.5	325.0	55.0	65.0	0
	G1-NV	02	77	1	16	2	10	2.5	55.0	260.0	30.0	0
	G1-NV	02	77	1	16	3	10	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	16	4	10	4.5	160.0	120.0	155.0	0
	G1-NV	02	77	1	16	5	10	2.5	115.0	264.0	264.0	0
	G1-NV	02	77	1	16	6	10	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	16	7	10	4.5	225.0	145.0	165.0	0
	G1-NV	02	77	1	16	8	10	2.5	35.	265.0	291.0	0
	G1-NV	02	77	1	16	9	10	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	16	10	10	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	16	11	10	4.5	260.0	100.0	125.0	0
	G1-NV	02	77	1	16	12	10	2.0	245.0	190.0	223.0	0
	G1-NV	02	77	1	16	13	10	3.0	250.0	105.0	125.0	0
	G1-NV	02	77	1	16	14	10	4.0	235.0	340.0	360.0	0
	G1-NV	02	77	1	16	15	10	4.0	290.0	115.0	145.0	0
	G1-NV	02	77	1	16	16	10	3.0	35.	180.0	215.0	0
	G1-NV	02	77	1	16	17	10	3.5	220.0	260.0	300.0	0
	G1-NV	02	77	1	16	18	10	3.5	165.0	160.0	205.0	0
	G1-NV	02	77	1	16	19	10	3.0	260.0	277.0	295.0	0
	G1-NV	02	77	1	16	20	10	4.0	165.0	130.0	165.0	0
	G1-NV	02	77	1	16	21	10	4.0	13.0	195.0	280.0	0
	G1-NV	02	77	1	16	22	10	9.0	165.0	185.0	205.0	0
	G1-NV	02	77	1	16	23	10	4.5	35.	65.0	85.0	0
	G1-NV	02	77	1	17	0	17	3.0	35.0	105.0	150.0	0
	G1-NV	02	77	1	17	1	17	3.0	170.0	265.0	285.0	0
	G1-NV	02	77	1	17	2	17	2.5	115.0	160.0	210.0	0
	G1-NV	02	77	1	17	3	17	2.0	260.0	175.0	210.0	0
	G1-NV	02	77	1	17	4	17	2.0	23.0	115.0	145.0	0
	G1-NV	02	77	1	17	5	17	17.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	17	6	17	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	17	7	17	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	17	8	17	77.7	777.7	777.7	777.7	0
	G1-NV	02	77	1	17	9	17	17.7	777.7	777.7	777.7	0

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAPCO CO

DATE UP/14/77 PAGE

PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND	SPLFD	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SECTOR	(CALTH = 77---
		(LVL)		DAY		(MPH)	(NED)	(WFG)	(CEG)	(WFG)	(CEG)	HIVOL 1%	(MISSING = .99---)

GLIV	02	77	1	17	10	17	4.0	3.0	360.0	360.0	360.0	0	
GLIV	02	77	1	17	11	17	5.5	2.0	160.0	200.0	200.0	0	
GLIV	02	77	1	17	12	17	5.5	1	220.0	154.0	154.0	0	
GLIV	02	77	1	17	13	17	4.5	2.0	240.0	55.0	70.0	0	
CENR	02	77	1	17	14	17	4.5	2.0	250.0	35.0	65.0	0	
GLIV	02	77	1	17	15	17	5.5	2.0	235.0	50.0	55.0	0	
GLIV	02	77	1	17	16	17	4.5	2.0	220.0	60.0	65.0	0	
GLIV	02	77	1	17	17	17	4.0	2.0	230.0	94.0	123.0	0	
GLIV	02	77	1	17	18	17	2.5	2.0	65.0	300.0	303.0	0	
GLIV	02	77	1	17	19	17	2.5	2.0	105.0	360.0	360.0	0	
GLIV	02	77	1	17	20	17	2.5	2.0	25.0	155.0	171.0	0	
GLIV	02	77	1	17	21	17	2.5	2.0	195.0	220.0	235.0	0	
GLIV	02	77	1	17	22	17	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	17	23	17	2.5	2.0	300.0	105.0	205.0	0	
GLIV	02	77	1	18	0	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	1	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	2	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	3	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	4	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	5	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	6	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	7	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	8	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	9	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	10	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	11	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	12	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	13	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	14	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	15	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	16	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	17	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	18	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	19	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	20	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	21	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	18	22	18	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	0	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	1	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	2	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	3	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	4	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	5	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	6	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	7	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	8	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	9	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	10	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	11	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	12	19	77.7	7.0	777.7	777.7	777.7	0	
GLIV	02	77	1	19	13	19	77.7	7.0	777.7	777.7	777.7	0	

(C-4)

Aero Business Forms Inc.

Table C-4 (Continued)

HOURLY METEOROLOGICAL DATA - STATION 2 - WINTER

GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO											DATE 02/14/77	PAGE
PROJ	STATION	YEAR	MONTH	DAY	HOUR	JULIAN	WIND SPEED	WIND DIRECTION	RANGE	PEAK TO PEAK	WIND SCTOR	(CALK = 77---
							(KPH)	(DEG)	(DFU)	(DEG)	HIVOL IND.	(MISSING = 99---
ULIV	02	77	1	19	14	19	3.5	235.	55.0	89..	0	-
ULIV	02	77	1	19	15	19	3.5	240.0	41.0	63..	0	-
ULIV	02	77	1	19	16	19	3.5	220.0	40.0	55..	0	-
ULIV	02	77	1	19	17	19	2.5	200.0	115.0	130..	0	-
ULIV	02	77	1	19	16	19	77.7	777.7	777.7	777.7	0	-
ULIV	02	77	1	19	19	19	77.7	777.7	777.7	777.7	0	-
ULIV	02	77	1	19	20	19	77.7	777.7	777.7	777.7	0	-
ULIV	02	77	1	19	21	19	2.0	230.0	320.0	340..	0	-
ULIV	02	77	1	19	22	19	2.0	60.0	50.0	70..	0	-
ULIV	02	77	1	19	23	19	2.0	180.0	250.0	275.0	0	-

ADDENDUM D

Average Wind Speeds and Wind Directions

Table D-1

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - EARLY SUMMER

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/20/76

PAGE

*** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (INPH) (DEG)

GENV	02	76	5	25	0000 - 0700	3.62	48.40
GENV	02	76	5	25	0800 - 1100	5.00	276.66
GENV	02	76	5	25	1200 - 1700	20.30	335.02
GENV	02	76	5	25	1800 - 2300	9.42	340.07
GENV	02	76	5	26	0000 - 0700	4.12	43.67
GENV	02	76	5	26	0800 - 1100	6.00	229.99
GLNV	02	76	5	26	1200 - 1700	7.25	264.16
GLNV	02	76	5	26	1800 - 2300	5.58	308.78
GENV	02	76	5	27	0000 - 0700	3.19	72.80
GENV	02	76	5	27	0800 - 1100	5.50	232.66
GLNV	02	76	5	27	1200 - 1700	6.42	192.56
CENV	02	76	5	27	1800 - 2300	5.53	124.32
GENV	02	76	5	28	0000 - 0700	3.50	69.37
GENV	02	76	5	28	0800 - 1100	7.37	116.46
GLNV	02	76	5	28	1200 - 1700	11.08	195.00
GENV	02	76	5	28	1800 - 2300	18.08	330.84
GENV	02	76	5	29	0000 - 0700	6.50	357.51
GLNV	02	76	5	29	0800 - 1100	4.50	225.29
GENV	02	76	5	29	1200 - 1700	7.83	302.34
GLNV	02	76	5	29	1800 - 2300	11.00	168.03
GENV	02	76	5	30	0000 - 0700	3.37	75.17
GLNV	02	76	5	30	0800 - 1100	5.00	215.48
GLNV	02	76	5	30	1200 - 1700	7.00	229.05
GENV	02	76	5	30	1800 - 2300	4.92	74.17
GLNV	02	76	5	31	0000 - 0700	3.44	54.39
GENV	02	76	5	31	0800 - 1100	5.50	142.02
GLNV	02	76	5	31	1200 - 1700	10.92	187.41
GENV	02	76	5	31	1800 - 2300	4.54	355.55
GLNV	02	76	6	1	0000 - 0700	3.31	63.50
GLNV	02	76	6	1	0800 - 1100	4.38	211.73
GLNV	02	76	6	1	1200 - 1700	7.25	175.00
GLNV	02	76	6	1	1800 - 2300	4.50	212.76
GENV	02	76	6	2	0000 - 0700	3.44	64.82
GENV	02	76	6	2	0800 - 1100	5.00	158.08
GENV	02	76	6	2	1200 - 1700	7.58	191.16
GLNV	02	76	6	2	1800 - 2300	6.33	161.35
GENV	02	76	6	3	0000 - 0700	3.69	88.75
GENV	02	76	6	3	0800 - 1100	6.37	176.25
GLNV	02	76	6	3	1200 - 1700	11.25	190.83
GENV	02	76	6	3	1800 - 2300	10.83	170.10
GENV	02	76	6	4	0000 - 0700	5.75	106.17
GLNV	02	76	6	4	0800 - 1100	6.37	157.52
GLNV	02	76	6	4	1200 - 1700	6.08	202.54
GENV	02	76	6	4	1800 - 2300	6.42	146.08
GLNV	02	76	6	5	0000 - 0700	4.05	90.76
GLNV	02	76	6	5	0800 - 1100	4.25	229.65
GLNV	02	76	6	5	1200 - 1700	5.75	218.74
GLNV	02	76	6	5	1800 - 2300	5.75	327.00
GLNV	02	76	6	6	0000 - 0700	3.87	62.32
GLNV	02	76	6	6	0800 - 1100	4.12	45.00
GENV	02	76	6	6	1200 - 1700	5.25	.00
GENV	02	76	6	6	1800 - 2300	3.42	.00

Table D-1 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - EARLY SUMMER

EPA - GENEVA STEEL

H E CRAMER CO INC

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**** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (MPH) (DEG)

GENV	02	76	6	7	0000 - 0700	3.31	.00
GENV	02	76	6	7	0800 - 1100	5.63	.00
GENV	02	76	6	7	1200 - 1700	7.83	173.57
GENV	02	76	6	7	1800 - 2300	7.08	144.89
GLNV	02	76	6	8	0000 - 0700	3.50	74.97
GLNV	02	76	6	8	0800 - 1100	6.12	175.39
GENV	02	76	6	8	1200 - 1700	8.50	220.71
GLNV	02	76	6	8	1800 - 2300	5.83	132.26
GLNV	02	76	6	9	0000 - 0700	4.61	118.92
GLNV	02	76	6	9	0800 - 1100	7.25	194.91
CLNV	02	76	6	9	1200 - 1700	7.42	190.14
GENV	02	76	6	9	1800 - 2300	9.08	161.80
GLNV	02	76	6	10	0000 - 0700	3.87	95.61
GENV	02	76	6	10	0800 - 1100	9.62	200.80
GLNV	02	76	6	10	1200 - 1700	21.83	201.83
GENV	02	76	6	10	1800 - 2300	9.67	113.09
GENV	02	76	6	11	0000 - 0700	8.19	114.01
GENV	02	76	6	11	0800 - 1100	9.00	140.98
GLNV	02	76	6	11	1200 - 1700	10.83	342.50
GLNV	02	76	6	11	1800 - 2300	4.25	101.77
GENV	02	76	6	12	0000 - 0700	3.19	63.17
GENV	02	76	6	12	0800 - 1100	4.38	200.53
GENV	02	76	6	12	1200 - 1700	5.25	248.49
GLNV	02	76	6	12	1800 - 2300	3.75	10.90
GLNV	02	76	6	13	0000 - 0700	5.94	122.58
GLNV	02	76	6	13	0800 - 1100	7.50	312.56
GLNV	02	76	6	13	1200 - 1700	20.92	329.01
GLNV	02	76	6	13	1800 - 2300	10.75	327.76
GENV	02	76	6	14	0000 - 0700	3.13	44.75
GENV	02	76	6	14	0800 - 1100	7.12	203.64
GLNV	02	76	6	14	1200 - 1700	13.58	322.69
GLNV	02	76	6	14	1800 - 2300	7.25	349.29
GENV	02	76	6	15	0000 - 0700	3.25	54.68
GLNV	02	76	6	15	0800 - 1100	6.62	198.37
GLNV	02	76	6	15	1200 - 1700	9.00	225.39
GLNV	02	76	6	15	1800 - 2300	5.33	108.69
GENV	02	76	6	16	0000 - 0700	4.56	90.11
GLNV	02	76	6	16	0800 - 1100	11.25	345.47
GENV	02	76	6	16	1200 - 1700	11.42	317.43
GENV	02	76	6	16	1800 - 2300	10.00	353.50
GLNV	02	76	6	17	0000 - 0700	3.13	45.06
GLNV	02	76	6	17	0800 - 1100	9.12	254.07
GENV	02	76	6	17	1200 - 1700	14.50	249.96
GENV	02	76	6	17	1800 - 2300	10.83	326.31
GENV	02	76	6	18	0000 - 0700	4.31	91.77
GLNV	02	76	6	18	0800 - 1100	9.62	241.42
GENV	02	76	6	18	1200 - 1700	11.50	259.73
GLNV	02	76	6	18	1800 - 2300	5.92	330.72
GENV	02	76	6	19	0000 - 0700	3.25	51.17
GLNV	02	76	6	19	0800 - 1100	4.75	288.41
GLNV	02	76	6	19	1200 - 1700	4.25	249.94
GENV	02	76	6	19	1800 - 2300	3.92	173.43

Table D-1 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - EARLY SUMMER

EPA - GENEVA STEEL

H E CRAMER CO INC

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**** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (MPH) (DEG)

GENV	02	76	6	20	0000 - 0700	3.37	36.49
GLINV	02	76	6	20	0800 - 1100	7.75	179.02
GENV	02	76	6	20	1200 - 1700	11.17	193.33
GENV	02	76	6	20	1800 - 2300	10.42	239.36
GENV	02	76	6	21	0000 - 0700	5.00	135.00
GLINV	02	76	6	21	0800 - 1100	5.37	225.94
GENV	02	76	6	21	1200 - 1700	12.92	142.03
GLINV	02	76	6	21	1800 - 2300	9.83	158.01
GLINV	02	76	6	22	0000 - 0700	9.62	344.86
GLINV	02	76	6	22	0800 - 1100	.00	341.17
GENV	02	76	6	22	1200 - 1700	27.50	334.17
GLINV	02	76	6	22	1800 - 2300	10.42	332.43
GLINV	02	76	6	23	0000 - 0700	2.37	353.85
GENV	02	76	6	23	0800 - 1100	11.50	345.50
GENV	02	76	6	23	1200 - 1700	15.17	344.17
GENV	02	76	6	23	1800 - 2300	6.70	339.83
GLINV	02	76	6	24	0000 - 0700	2.00	63.36
GENV	02	76	6	24	0800 - 1100	6.17	216.66
GENV	02	76	6	24	1200 - 1700	5.75	244.42
GENV	02	76	6	24	1800 - 2300	2.67	37.65
GLINV	02	76	6	25	0000 - 0700	2.94	50.74
GENV	02	76	6	25	0800 - 1100	3.62	293.99
GLINV	02	76	6	25	1200 - 1700	7.25	233.21
GLINV	02	76	6	25	1800 - 2300	9.17	331.06
GLINV	02	76	6	26	0000 - 0700	15.12	344.31
GENV	02	76	6	26	0800 - 1100	5.25	260.58
GLINV	02	76	6	26	1200 - 1700	7.67	250.84
GENV	02	76	6	26	1800 - 2300	5.75	318.09
GENV	02	76	6	27	0000 - 0700	3.13	57.82
GENV	02	76	6	27	0800 - 1100	5.87	212.00
GLINV	02	76	6	27	1200 - 1700	7.33	275.96
GLINV	02	76	6	27	1800 - 2300	6.33	326.29
GLINV	02	76	6	28	0000 - 0700	2.67	54.76
GENV	02	76	6	28	0800 - 1100	4.12	296.96
GLINV	02	76	6	28	1200 - 1700	6.08	259.15
GLINV	02	76	6	28	1800 - 2300	5.58	245.00
GLINV	02	76	6	29	0000 - 0700	2.94	88.20
GENV	02	76	6	29	0800 - 1100	3.25	237.50
GENV	02	76	6	29	1200 - 1700	7.17	208.00
GLINV	02	76	6	29	1800 - 2300	6.50	105.03
GENV	02	76	6	30	0000 - 0700	6.06	150.33
GENV	02	76	6	30	0800 - 1100	8.75	156.02
GENV	02	76	6	30	1200 - 1700	13.83	132.54
GLINV	02	76	6	30	1800 - 2300	11.08	136.65
GENV	02	76	7	1	0000 - 0700	6.88	145.05
GENV	02	76	7	1	0800 - 1100	6.00	356.14
GLINV	02	76	7	1	1200 - 1700	13.42	338.33
GLINV	02	76	7	1	1800 - 2300	9.33	346.14
GLINV	02	76	7	2	0000 - 0700	3.13	65.60
GENV	02	76	7	2	0800 - 1100	7.12	180.60
GLINV	02	76	7	2	1200 - 1700	7.00	210.16
GENV	02	76	7	2	1800 - 2300	5.42	340.47

Table D-1 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - EARLY SUMMER

EPA - GENEVA STEEL

H E CRAMER CO INC

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**** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (MPH) (DEG)

GENV	02	76	7	3	0000 - 0700	3.13	49.81
GLNV	02	76	7	3	0800 - 1100	4.87	209.16
GENV	02	76	7	3	1200 - 1700	6.25	190.47
GENV	02	76	7	3	1800 - 2300	4.42	113.93
GENV	02	76	7	4	0000 - 0700	3.00	65.19
GENV	02	76	7	4	0800 - 1100	5.00	166.87
GENV	02	76	7	4	1200 - 1700	7.17	166.67
GENV	02	76	7	4	1800 - 2300	3.10	85.16
GENV	02	76	7	5	0000 - 0700	3.00	66.33
GENV	02	76	7	5	0800 - 1100	3.75	224.66
GENV	02	76	7	5	1200 - 1700	6.75	170.83
GENV	02	76	7	5	1800 - 2300	4.25	212.29

Table D-2

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - LATE SUMMER

EPA - GENEVA STEEL							DATE 03/28/77	PAGE
**** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)								
PROJ	STATION	YEAR	MONTH	DAY	TIME OF DAY	AVERAGE SPEED (LCC)	AVERAGE SPEED (MPH)	AVERAGE DIRECTION (DEG)
GENV	02	76	7	19	0000 - 0700	3.19	114.01	
GENV	02	76	7	19	0800 - 1100	7.25	163.76	
GENV	02	76	7	19	1200 - 1700	7.50	228.95	
GENV	02	76	7	19	1800 - 2300	5.17	12.93	
GENV	02	76	7	20	0000 - 0700	3.25	64.05	
GENV	02	76	7	20	0800 - 1100	4.38	273.62	
GENV	02	76	7	20	1200 - 1700	7.42	268.90	
GENV	02	76	7	20	1800 - 2300	3.75	64.94	
GENV	02	76	7	21	0000 - 0700	3.19	54.42	
GENV	02	76	7	21	0800 - 1100	3.75	289.12	
GENV	02	76	7	21	1200 - 1700	5.67	271.43	
GENV	02	76	7	21	1800 - 2300	5.08	270.31	
GENV	02	76	7	22	0000 - 0700	3.25	87.32	
GENV	02	76	7	22	0800 - 1100	4.00	100.88	
GENV	02	76	7	22	1200 - 1700	6.42	265.37	
GENV	02	76	7	22	1800 - 2300	5.50	337.21	
GENV	02	76	7	23	0000 - 0700	3.62	41.47	
GENV	02	76	7	23	0800 - 1100	4.38	299.12	
GENV	02	76	7	23	1200 - 1700	6.58	260.62	
GENV	02	76	7	23	1800 - 2300	4.17	117.91	
GENV	02	76	7	24	0000 - 0700	3.31	46.08	
GENV	02	76	7	24	0800 - 1100	3.87	285.00	
GENV	02	76	7	24	1200 - 1700	10.08	284.69	
GENV	02	76	7	24	1800 - 2300	7.92	299.05	
GENV	02	76	7	25	0000 - 0700	3.19	38.27	
GENV	02	76	7	25	0600 - 1100	5.25	291.30	
GENV	02	76	7	25	1200 - 1700	7.58	267.03	
GENV	02	76	7	25	1800 - 2300	4.42	219.64	
GENV	02	76	7	26	0000 - 0700	3.56	53.46	
GENV	02	76	7	26	0800 - 1100	5.37	240.41	
GENV	02	76	7	26	1200 - 1700	8.83	218.32	
GENV	02	76	7	26	1800 - 2300	3.50	101.23	
GENV	02	76	7	27	0000 - 0700	3.31	66.71	
GENV	02	76	7	27	0600 - 1100	4.00	242.25	
GENV	02	76	7	27	1200 - 1700	6.83	215.00	
GENV	02	76	7	27	1800 - 2300	3.67	112.39	
GENV	02	76	7	28	0000 - 0700	3.50	66.28	
GENV	02	76	7	28	0800 - 1100	3.62	280.28	
GENV	02	76	7	28	1200 - 1700	5.08	253.51	
GENV	02	76	7	28	1800 - 2300	3.50	41.97	
GENV	02	76	7	29	0000 - 0700	4.31	109.51	
GENV	02	76	7	29	0800 - 1100	4.62	215.00	
GENV	02	76	7	29	1200 - 1700	5.33	37.43	
GENV	02	76	7	29	1800 - 2300	8.00	307.71	
GENV	02	76	7	30	0000 - 0700	4.56	107.50	
GENV	02	76	7	30	0800 - 1100	5.25	121.19	
GENV	02	76	7	30	1200 - 1700	6.25	263.35	
GENV	02	76	7	30	1800 - 2300	6.00	303.73	
GENV	02	76	7	31	0000 - 0700	5.06	61.22	
GENV	02	76	7	31	0800 - 1100	4.52	297.67	
GENV	02	76	7	31	1200 - 1700	9.00	210.68	
GENV	02	76	7	31	1800 - 2300	5.25	148.31	

Table D-2 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - LATE SUMMER

EPA - GENEVA STEEL

DATE 03/28/77

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***** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)							
PROJ	STATION	YEAR	MONTH	DAY	TIME OF DAY	AVERAGE SPEED	AVERAGE DIRECTION
					(LOC)	(MPH)	(DEG)
	GENV	06	76	8	1 0000 - 0700	3.94	75.35
	GENV	02	76	8	1 0300 - 1100	5.25	150.11
	GENV	02	76	8	1 1200 - 1700	3.92	229.66
	GENV	02	76	8	1 1800 - 2300	8.00	102.49
	GENV	02	76	8	2 0300 - 0700	3.37	47.65
	GENV	02	76	8	2 0800 - 1100	4.25	83.18
	GENV	02	76	8	2 1200 - 1700	10.75	180.45
	GENV	02	76	8	2 1800 - 2300	7.33	127.24
	GENV	02	76	8	3 0000 - 0700	4.19	67.46
	GENV	02	76	8	3 0800 - 1100	5.75	77.50
	GENV	02	76	8	3 1200 - 1700	8.17	182.47
	GENV	02	76	8	3 1800 - 2300	6.67	143.10
	GENV	02	76	8	4 0300 - 0700	5.44	94.46
	GENV	02	76	8	4 0800 - 1100	6.00	172.50
	GENV	02	76	8	4 1200 - 1700	8.42	196.91
	GENV	02	76	8	4 1800 - 2300	8.00	338.73
	GENV	02	76	8	5 0000 - 0700	3.13	67.95
	GENV	02	76	8	5 0800 - 1100	3.87	298.47
	GENV	02	76	8	5 1200 - 1700	4.57	222.63
	GENV	02	76	8	5 1800 - 2300	3.25	72.66
	GENV	02	76	8	6 0000 - 0700	3.87	55.92
	GENV	02	76	8	6 0800 - 1100	5.50	185.76
	GENV	02	76	8	6 1200 - 1700	9.75	182.46
	GENV	02	76	8	6 1800 - 2300	8.25	164.49
	GENV	02	76	8	7 0000 - 0700	6.62	95.60
	GENV	02	76	8	7 0800 - 1100	7.12	134.38
	GENV	02	76	8	7 1200 - 1700	8.00	173.70
	GENV	02	76	8	7 1800 - 2300	5.58	288.90
	GENV	02	76	8	8 0000 - 0700	5.25	51.99
	GENV	02	76	8	8 0800 - 1100	9.62	141.11
	GENV	02	76	8	8 1200 - 1700	10.17	188.76
	GENV	02	76	8	8 1800 - 2300	5.83	316.44
	GENV	02	76	8	9 0000 - 0700	4.38	35.01
	GENV	02	76	8	9 0800 - 1100	5.37	264.65
	GENV	02	76	8	9 1200 - 1700	5.83	225.82
	GENV	02	76	8	9 1800 - 2300	4.75	351.47
	GENV	02	76	8	10 0000 - 0700	5.06	48.31
	GENV	02	76	8	10 0800 - 1100	4.87	236.23
	GENV	02	76	8	10 1200 - 1700	7.75	200.64
	GENV	02	76	8	10 1800 - 2300	5.92	311.53
	GENV	02	76	8	11 0000 - 0700	5.30	27.14
	GENV	02	76	8	11 0800 - 1100	4.62	341.04
	GENV	02	76	8	11 1200 - 1700	7.17	186.27
	GENV	02	76	8	11 1800 - 2300	5.58	294.67
	GENV	02	76	8	12 0000 - 0700	5.87	33.69
	GENV	02	76	8	12 0800 - 1100	5.12	215.40
	GENV	02	76	8	12 1200 - 1700	5.83	148.26
	GENV	02	76	8	12 1800 - 2300	3.58	90.16
	GENV	02	76	8	13 0000 - 0700	6.94	70.82
	GENV	02	76	8	13 0800 - 1100	5.50	187.00
	GENV	02	76	8	13 1200 - 1700	4.50	186.56
	GENV	02	76	8	13 1800 - 2300	6.25	753.11

Table D-2 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - LATE SUMMER

EPA - GENEVA STEEL

DATE 03/28/77

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**** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (MPH) (DEG)

GENV	02	76	8	27	0000 - 0700	4.87	44.17
GENV	02	76	8	27	0800 - 1100	4.50	245.04
GENV	02	76	8	27	1200 - 1700	6.75	256.38
GENV	02	76	8	27	1800 - 2300	4.67	339.90
GENV	02	76	8	28	0000 - 0700	3.62	51.07
GENV	02	76	8	28	0800 - 1100	4.00	12.12
GENV	02	76	8	28	1200 - 1700	6.06	230.77
GENV	02	76	8	28	1800 - 2300	5.08	3.56
GENV	02	76	8	29	0000 - 0700	3.87	65.74
GENV	02	76	8	29	0800 - 1100	4.25	313.29
GENV	02	76	8	29	1200 - 1700	5.58	236.57
GENV	02	76	8	29	1800 - 2300	4.08	271.38
GENV	02	76	8	30	0000 - 0700	3.50	42.22
GENV	02	76	8	30	0800 - 1100	3.87	221.24
GENV	02	76	8	30	1200 - 1700	9.58	296.96
GENV	02	76	8	30	1800 - 2300	7.50	317.31
GENV	02	76	8	31	0000 - 0700	3.75	53.22
GENV	02	76	8	31	0800 - 1100	4.62	218.60
GENV	02	76	8	31	1200 - 1700	10.08	274.25
GENV	02	76	8	31	1800 - 2300	7.67	357.78

Table D-2 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - LATE SUMMER

EPA - GENEVA STEEL

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*** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (MPH) (DEG)

GEN.V	02	76	6	14	0000 - 0700	4.87	46.25
GEN.V	02	76	8	14	0800 - 1100	6.50	118.80
GEN.V	02	76	8	14	1200 - 1700	5.50	172.50
GEN.V	02	76	8	14	1800 - 2300	7.08	142.24
GEN.V	02	76	8	15	0000 - 0700	6.12	142.07
GEN.V	02	76	8	15	0800 - 1100	8.13	145.14
GEN.V	02	76	8	15	1200 - 1700	9.17	145.22
GEN.V	02	76	8	15	1800 - 2300	8.08	291.66
GEN.V	02	76	8	16	0000 - 0700	5.12	345.15
GEN.V	02	76	8	16	0800 - 1100	5.00	266.37
GEN.V	02	76	8	16	1200 - 1700	4.33	152.75
GEN.V	02	76	8	16	1800 - 2300	4.50	271.39
GEN.V	02	76	8	17	0000 - 0700	5.63	108.09
GEN.V	02	76	8	17	0800 - 1100	6.25	153.75
GEN.V	02	76	8	17	1200 - 1700	5.17	132.73
GEN.V	02	76	8	17	1800 - 2300	6.92	129.29
GEN.V	02	76	8	18	0000 - 0700	6.00	116.52
GEN.V	02	76	8	18	0800 - 1100	5.50	120.09
GEN.V	02	76	8	18	1200 - 1700	6.83	155.83
GEN.V	02	76	8	18	1800 - 2300	6.58	115.79
GEN.V	02	76	8	19	0000 - 0700	5.56	61.19
GEN.V	02	76	8	19	0800 - 1100	5.37	187.65
GEN.V	02	76	8	19	1200 - 1700	5.58	231.33
GEN.V	02	76	8	19	1800 - 2300	6.17	3.85
GEN.V	02	76	8	20	0000 - 0700	5.37	54.24
GEN.V	02	76	8	20	0800 - 1100	5.25	112.50
GEN.V	02	76	8	20	1200 - 1700	3.67	194.94
GEN.V	02	76	8	20	1800 - 2300	4.00	333.67
GEN.V	02	76	8	21	0000 - 0700	2.31	55.21
GEN.V	02	76	8	21	0800 - 1100	4.38	274.75
GEN.V	02	76	8	21	1200 - 1700	3.67	250.78
GEN.V	02	76	8	21	1800 - 2300	3.50	20.99
GEN.V	02	76	8	22	0000 - 0700	4.00	91.00
GEN.V	02	76	8	22	0800 - 1100	4.12	345.99
GEN.V	02	76	8	22	1200 - 1700	9.00	170.15
GEN.V	02	76	8	22	1800 - 2300	8.75	137.95
GEN.V	02	76	8	23	0000 - 0700	6.00	155.69
GEN.V	02	76	8	23	0800 - 1100	4.00	199.08
GEN.V	02	76	8	23	1200 - 1700	7.58	289.93
GEN.V	02	76	8	23	1800 - 2300	6.17	342.45
GEN.V	02	76	8	24	0000 - 0700	3.25	48.78
GEN.V	02	76	8	24	0800 - 1100	4.25	305.60
GEN.V	02	76	8	24	1200 - 1700	6.08	234.96
GEN.V	02	76	8	24	1800 - 2300	4.92	293.93
GEN.V	02	76	8	25	0000 - 0700	3.81	67.85
GEN.V	02	76	8	25	0800 - 1100	4.38	87.30
GEN.V	02	76	8	25	1200 - 1700	7.00	191.78
GEN.V	02	76	8	25	1800 - 2300	6.42	126.05
GEN.V	02	76	8	26	0000 - 0700	4.06	85.06
GEN.V	02	76	8	26	0800 - 1100	8.13	330.76
GEN.V	02	76	8	26	1200 - 1700	15.58	328.34
GEN.V	02	76	8	26	1	231	309

Table D-3

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - FALL

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/10/76

PAGE

----- *** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)							
PROJ	STATION	YEAR	MONTH	DAY	TIME OF DAY	AVERAGE SPEED	AVERAGE DIRECTION
					(LOC)	(MPH)	(DEG)
	GENVO	2	76	6	27 0000 - 0700	.00	.00
	GLNVO	2	76	8	27 0800 - 1100	.00	.00
	GLNVO	2	76	6	27 1200 - 1700	7.25	267.38
	GLNVO	2	76	8	27 1800 - 2300	4.67	339.90
	GLNVO	2	76	8	28 0300 - 0700	3.62	51.07
	GLNVO	2	76	8	28 0800 - 1100	4.00	12.12
	GLNVO	2	76	8	28 1200 - 1700	6.08	230.77
	GLNVO	2	76	8	28 1800 - 2300	5.08	3.50
	GLNVO	2	76	8	29 0000 - 0700	3.87	65.74
	GLNVO	2	76	8	29 0300 - 1100	4.25	313.29
	GLNVO	2	76	8	29 1200 - 1700	5.56	236.57
	GENVO	2	76	8	29 1800 - 2300	4.08	271.38
	GLNVO	2	76	8	30 0000 - 0700	3.50	42.22
	GLNVO	2	76	8	30 0800 - 1100	3.67	221.24
	GLNVO	2	76	8	30 1200 - 1700	9.58	296.96
	GLNVO	2	76	8	30 1800 - 2300	7.50	317.31
	GLNVO	2	76	8	31 0300 - 0700	3.75	53.22
	GLNVO	2	76	8	31 0800 - 1100	4.62	268.60
	GLNVO	2	76	8	31 1200 - 1700	10.08	274.29
	GLNVO	2	76	8	31 1800 - 2300	7.67	357.70
	GLNVO	2	76	9	1 0000 - 0700	3.31	16.08
	GLNVO	2	76	9	1 0000 - 1100	3.87	218.76
	GLNVO	2	76	9	1 1200 - 1700	6.75	248.25
	GLNVO	2	76	9	1 1800 - 2300	4.58	12.28
	GLNVO	2	76	9	2 0000 - 0700	3.81	52.71
	GLNVO	2	76	9	2 0000 - 1100	4.12	296.62
	GLNVO	2	76	9	2 1200 - 1700	6.83	164.19
	GLNVO	2	76	9	2 1800 - 2300	4.08	50.00
	GLNVO	2	76	9	3 0000 - 0700	3.50	53.10
	GLNVO	2	76	9	3 0000 - 1100	4.25	45.13
	GLNVO	2	76	9	3 1200 - 1700	5.67	244.11
	GLNVO	2	76	9	3 1800 - 2300	6.42	327.59
	GLNVO	2	76	9	4 0000 - 0700	3.87	53.25
	GLNVO	2	76	9	4 0000 - 1100	4.38	53.05
	GLNVO	2	76	9	4 1200 - 1700	5.58	256.37
	GLNVO	2	76	9	4 1800 - 2300	4.67	251.27
	GLNVO	2	76	9	5 0000 - 0700	3.71	85.40
	GLNVO	2	76	9	5 0000 - 1100	3.50	12.50
	GENVO	2	76	9	5 1200 - 1700	6.08	223.43
	GLNVO	2	76	9	5 1800 - 2300	10.00	156.79
	GLNVO	2	76	9	6 0000 - 0700	5.63	124.31
	GLNVO	2	76	9	6 0000 - 1100	6.50	146.64
	GLNVO	2	76	9	6 1200 - 1700	9.17	159.08
	GLNVO	2	76	9	6 1800 - 2300	12.75	326.76
	GLNVO	2	76	9	7 0000 - 0700	4.69	327.63
	GLNVO	2	76	9	7 0800 - 1100	4.12	316.70
	GENVO	2	76	9	7 1200 - 1700	9.75	302.50
	GLNVO	2	76	9	7 1800 - 2300	5.33	314.24
	GLNVO	2	76	9	8 0000 - 0700	4.25	78.21
	GLNVO	2	76	9	8 0000 - 1100	4.67	241.85
	GLNVO	2	76	9	8 1200 - 1700	10.50	285.84
	GLNVO	2	76	9	8 1800 - 2300	5.00	328.41

Table D-3 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - FALL

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/10/76

PAGE

***** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)							
PROJ	STATION	YEAR	MONTH	DAY	TIME OF DAY	AVERAGE SPEED (MPH)	AVERAGE DIRECTION (DEG)
	GLNVO	2	76	9	9 0000 - 0700	3.57	54.93
	GLNVO	2	76	9	9 0800 - 1100	4.00	314.91
	GLNVO	2	76	9	9 1200 - 1700	6.88	233.81
	GLNVO	2	76	9	9 1800 - 2300	.00	.00
	GLNVO	2	76	9	10 0000 - 0700	.00	.00
	GLNVO	2	76	9	10 0800 - 1100	.00	.00
	GLNVO	2	76	9	10 1200 - 1700	6.75	170.20
	GLNVO	2	76	9	10 1800 - 2300	3.50	312.54
	GLNVO	2	76	9	11 0000 - 0700	5.19	144.93
	GLNVO	2	76	9	11 0800 - 1100	7.25	157.50
	GLNVO	2	76	9	11 1200 - 1700	8.25	164.44
	GLNVO	2	76	9	11 1800 - 2300	10.58	144.50
	GLNVO	2	76	9	12 0000 - 0700	6.31	120.63
	GLNVO	2	76	9	12 0800 - 1100	4.17	234.16
	GLNVO	2	76	9	12 1200 - 1700	7.42	249.43
	GLNVO	2	76	9	12 1800 - 2300	3.92	21.34
	GLNVO	2	76	9	13 0000 - 0700	3.00	51.23
	GLNVO	2	76	9	13 0800 - 1100	6.12	126.30
	GLNVO	2	76	9	13 1200 - 1700	4.75	248.76
	GLNVO	2	76	9	13 1800 - 2300	3.50	337.35
	GLNVO	2	76	9	14 0000 - 0700	2.81	45.69
	GLNVO	2	76	9	14 0800 - 1100	3.50	227.65
	GLNVO	2	76	9	14 1200 - 1700	5.25	220.16
	GLNVO	2	76	9	14 1800 - 2300	3.07	305.93
	GLNVO	2	76	9	15 0000 - 0700	2.81	65.79
	GLNVO	2	76	9	15 0800 - 1100	3.50	141.22
	GLNVO	2	76	9	15 1200 - 1700	6.75	194.61
	GLNVO	2	76	9	15 1800 - 2300	4.67	124.52
	GLNVO	2	76	9	16 0000 - 0700	2.69	45.86
	GLNVO	2	76	9	16 0800 - 1100	5.87	177.58
	GLNVO	2	76	9	16 1200 - 1700	5.67	216.33
	GLNVO	2	76	9	16 1800 - 2300	5.67	94.31
	GLNVO	2	76	9	17 0000 - 0700	3.75	76.22
	GLNVO	2	76	9	17 0800 - 1100	6.12	152.50
	GLNVO	2	76	9	17 1200 - 1700	6.25	183.37
	GLNVO	2	76	9	17 1800 - 2300	9.50	302.79
	GLNVO	2	76	9	18 0000 - 0700	3.57	52.62
	GLNVO	2	76	9	18 0800 - 1100	4.12	202.50
	GLNVO	2	76	9	18 1200 - 1700	7.50	225.00
	GLNVO	2	76	9	18 1800 - 2300	.00	.00
	GLNVO	2	76	9	19 0000 - 0700	.00	.00
	GLNVO	2	76	9	19 0800 - 1100	.00	.00
	GLNVO	2	76	9	19 1200 - 1700	.00	.00
	GLNVO	2	76	9	19 1800 - 2300	.00	.00
	GLNVO	2	76	9	20 0000 - 0700	.00	.00
	GLNVO	2	76	9	20 0800 - 1100	.00	.00
	GLNVO	2	76	9	20 1200 - 1700	.00	.00
	GLNVO	2	76	9	20 1800 - 2300	.00	.00
	GLNVO	2	76	9	21 0000 - 0700	.00	.00
	GLNVO	2	76	9	21 0800 - 1100	.00	.00
	GLNVO	2	76	9	21 1200 - 1700	.00	.00
	GLNVO	2	76	9	21 1800 - 2300	.00	.00
			76	9	00	.00	.00

Table D-3 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - FALL

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/10/76

PAGE

*** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (MPH) (DEG)

GLNVO	2	76	9	22	0000 - 0700	.00	.00
GLNVO	2	76	9	22	0800 - 1100	.00	.00
GLNVO	2	76	9	22	1200 - 1700	5.75	162.50
GLNVO	2	76	9	22	1800 - 2300	3.83	275.54
GLNVO	2	76	9	23	0000 - 0700	3.69	51.01
GLNVO	2	76	9	23	0800 - 1100	6.25	163.09
GLNVO	2	76	9	23	1200 - 1700	6.67	155.02
GLNVO	2	76	9	23	1800 - 2300	4.20	140.59
GLNVO	2	76	9	24	0000 - 0700	4.33	97.05
GLNVO	2	76	9	24	0800 - 1100	4.25	121.59
GLNVO	2	76	9	24	1200 - 1700	6.00	142.73
GLNVO	2	76	9	24	1800 - 2300	2.75	94.57
GLNVO	2	76	9	25	0000 - 0700	3.94	90.94
GLNVO	2	76	9	25	0800 - 1100	4.12	203.00
GLNVO	2	76	9	25	1200 - 1700	8.75	267.88
GLNVO	2	76	9	25	1800 - 2300	4.25	13.69
GLNVO	2	76	9	26	0000 - 0700	2.83	34.97
GLNVO	2	76	9	26	0800 - 1100	4.17	258.00
GLNVO	2	76	9	26	1200 - 1700	8.08	272.05
GLNVO	2	76	9	26	1800 - 2300	5.67	296.27
GLNVO	2	76	9	27	0000 - 0700	2.94	50.38
GLNVO	2	76	9	27	0800 - 1100	3.25	17.50
GLNVO	2	76	9	27	1200 - 1700	6.25	234.00
GLNVO	2	76	9	27	1800 - 2300	4.17	245.21
GLNVO	2	76	9	28	0000 - 0700	3.56	49.82
GLNVO	2	76	9	28	0800 - 1100	3.83	224.14
GLNVO	2	76	9	28	1200 - 1700	6.50	232.64
GLNVO	2	76	9	28	1800 - 2300	3.67	36.60
GLNVO	2	76	9	29	0000 - 0700	3.13	49.11
GLNVO	2	76	9	29	0800 - 1100	3.00	347.21
GLNVO	2	76	9	29	1200 - 1700	5.25	229.15
GLNVO	2	76	9	29	1800 - 2300	2.75	20.80
GLNVO	2	76	9	30	0000 - 0700	3.00	44.35
GLNVO	2	76	9	30	0800 - 1100	3.75	292.97
GLNVO	2	76	9	30	1200 - 1700	4.42	251.48
GLNVO	2	76	9	30	1800 - 2300	2.83	357.21
GLNVO	2	76	10	1	0000 - 0700	2.67	59.74
GLNVO	2	76	10	1	0800 - 1100	3.13	354.22
GLNVO	2	76	10	1	1200 - 1700	5.75	230.28
GLNVO	2	76	10	1	1800 - 2300	6.50	291.00
GLNVO	2	76	10	2	0000 - 0700	2.62	120.53
GLNVO	2	76	10	2	0800 - 1100	10.12	150.08
GLNVO	2	76	10	2	1200 - 1700	10.50	161.71
GLNVO	2	76	10	2	1800 - 2300	8.67	143.66
GLNVO	2	76	10	3	0000 - 0700	4.67	358.21
GLNVO	2	76	10	3	0800 - 1100	12.75	337.50
GLNVO	2	76	10	3	1200 - 1700	10.83	322.50
GLNVO	2	76	10	3	1800 - 2300	6.75	330.94
GLNVO	2	76	10	4	0000 - 0700	2.75	71.34
GLNVO	2	76	10	4	0800 - 1100	4.25	160.90
GLNVO	2	76	10	4	1200 - 1700	7.00	243.13
GLNVO	2	76	10	4	1800 - 2300	3.70	346.61

Table D-3 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - FALL

EPA - GENEVA STEEL					H E CRAMER CO INC		DATE 12/10/76	PAGE
*** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)								
PROJ	STATION	YEAR	MONTH	DAY	TIME OF DAY	AVERAGE SPEED (MPH)	AVERAGE DIRECTION (DEG)	
					(LOC)			
GLINV0	2	76	10	5	0000 - 0700	3.13	57.74	
GLINV0	2	76	10	5	0600 - 1100	4.00	235.00	
GLINV0	2	76	10	5	1200 - 1700	5.08	245.66	
GLINV0	2	76	10	5	1800 - 2300	2.58	38.70	
GLINV0	2	76	10	6	0000 - 0700	2.92	45.19	
GLINV0	2	76	10	6	0800 - 1100	8.13	349.34	
GLINV0	2	76	10	6	1200 - 1700	20.17	331.67	
GLINV0	2	76	10	6	1800 - 2300	10.00	353.39	
GLINV0	2	76	10	7	0000 - 0700	2.87	35.29	
GLINV0	2	76	10	7	0800 - 1100	3.75	24.41	
GLINV0	2	76	10	7	1200 - 1700	5.67	225.84	
GLINV0	2	76	10	7	1800 - 2300	4.33	230.59	
GLINV0	2	76	10	8	0000 - 0700	2.75	54.45	
GLINV0	2	76	10	8	0800 - 1100	3.50	306.39	
GLINV0	2	76	10	8	1200 - 1700	5.33	231.66	
GLINV0	2	76	10	8	1800 - 2300	2.92	45.88	
GLINV0	2	76	10	9	0000 - 0700	2.66	53.49	
GLINV0	2	76	10	9	0800 - 1100	3.00	305.00	
GLINV0	2	76	10	9	1200 - 1700	4.67	242.50	
GLINV0	2	76	10	9	1800 - 2300	.00	38.05	
GLINV0	2	76	10	10	0000 - 0700	.00	56.08	
GLINV0	2	76	10	10	0800 - 1100	.00	132.50	
GLINV0	2	76	10	10	1200 - 1700	5.25	172.17	
GLINV0	2	76	10	10	1800 - 2300	3.50	133.37	
GLINV0	2	76	10	11	0000 - 0700	3.62	117.55	
GLINV0	2	76	10	11	0800 - 1100	2.87	318.02	
GLINV0	2	76	10	11	1200 - 1700	10.92	301.87	
GLINV0	2	76	10	11	1800 - 2300	7.75	353.53	
GLINV0	2	76	10	12	0000 - 0700	2.87	75.39	
GLINV0	2	76	10	12	0800 - 1100	3.67	245.00	
GLINV0	2	76	10	12	1200 - 1700	7.50	295.10	
GLINV0	2	76	10	12	1800 - 2300	4.58	21.90	
GLINV0	2	76	10	13	0000 - 0700	2.86	55.69	
GLINV0	2	76	10	13	0800 - 1100	4.25	158.31	
GLINV0	2	76	10	13	1200 - 1700	6.17	233.33	
GLINV0	2	76	10	13	1800 - 2300	.00	.00	
GLINV0	2	76	10	14	0000 - 0700	.00	.00	
GLINV0	2	76	10	14	0800 - 1100	.00	.00	
GLINV0	2	76	10	14	1200 - 1700	4.00	215.00	
GLINV0	2	76	10	14	1800 - 2300	2.83	65.95	
GLINV0	2	76	10	15	0000 - 0700	2.94	46.68	
GLINV0	2	76	10	15	0800 - 1100	3.25	310.04	
GLINV0	2	76	10	15	1200 - 1700	5.50	244.53	
GLINV0	2	76	10	15	1800 - 2300	5.17	1.92	
GLINV0	2	76	10	16	0000 - 0700	3.25	47.47	
GLINV0	2	76	10	16	0800 - 1100	3.87	59.62	
GLINV0	2	76	10	16	1200 - 1700	5.00	233.48	
GLINV0	2	76	10	16	1800 - 2300	3.90	55.02	
GLINV0	2	76	10	17	0000 - 0700	2.64	62.57	
GLINV0	2	76	10	17	0800 - 1100	7.12	346.04	
GLINV0	2	76	10	17	1200 - 1700	21.25	343.33	
GLINV0	2	76	10	17	1800 - 2300	9.58	345.27	

Table D-3 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - FALL

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/10/76

PAGE

**** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LOC) (MPH) (DEG)

GLNVO	2	76	10	16	0000 - 0700	2.67	48.22
GLNVO	2	76	10	18	0800 - 1100	3.13	278.50
GLNVO	2	76	10	18	1200 - 1700	8.92	281.66
GLNVO	2	76	10	18	1800 - 2300	4.42	42.95
GLNVO	2	76	10	19	0000 - 0700	3.25	58.28
GLNVO	2	76	10	19	0800 - 1100	3.33	208.15
GLNVO	2	76	10	19	1200 - 1700	5.75	238.33
GLNVO	2	76	10	19	1800 - 2300	2.67	14.96
GLNVO	2	76	10	20	0000 - 0700	3.56	46.24
GLNVO	2	76	10	20	0800 - 1100	4.00	250.00
GLNVO	2	76	10	20	1200 - 1700	5.58	226.52
GLNVO	2	76	10	20	1800 - 2300	2.70	34.03
GLNVO	2	76	10	21	0000 - 0700	3.19	41.24
GLNVO	2	76	10	21	0800 - 1100	2.63	314.70
GLNVO	2	76	10	21	1200 - 1700	5.17	229.17
GLNVO	2	76	10	21	1800 - 2300	2.90	61.25
GLNVO	2	76	10	22	0000 - 0700	3.25	47.36
GLNVO	2	76	10	22	0800 - 1100	3.17	290.97
GLNVO	2	76	10	22	1200 - 1700	4.42	245.64
GLNVO	2	76	10	22	1800 - 2300	3.58	22.61
GLNVO	2	76	10	23	0000 - 0700	2.61	48.08
GLNVO	2	76	10	23	0800 - 1100	3.37	62.50
GLNVO	2	76	10	23	1200 - 1700	6.08	280.44
GLNVO	2	76	10	23	1800 - 2300	4.42	.00
GLNVO	2	76	10	24	0000 - 0700	2.86	.00
GLNVO	2	76	10	24	0800 - 1100	3.00	.00
GLNVO	2	76	10	24	1200 - 1700	5.50	.00
GLNVO	2	76	10	24	1800 - 2300	3.58	.00
GLNVO	2	76	10	25	0000 - 0700	2.41	.00
GLNVO	2	76	10	25	0800 - 1100	10.50	.00
GLNVO	2	76	10	25	1200 - 1700	15.07	.00
GLNVO	2	76	10	25	1800 - 2300	6.42	.00
GLNVO	2	76	10	26	0000 - 0700	4.31	.00
GLNVO	2	76	10	26	0800 - 1100	8.87	.00
GLNVO	2	76	10	26	1200 - 1700	11.63	348.16
GLNVO	2	76	10	26	1800 - 2300	3.25	42.20
GLNVO	2	76	10	27	0000 - 0700	3.31	58.46
GLNVO	2	76	10	27	0800 - 1100	3.62	130.00
GLNVO	2	76	10	27	1200 - 1700	6.50	280.70
GLNVO	2	76	10	27	1800 - 2300	4.06	23.40
GLNVO	2	76	10	28	0000 - 0700	3.06	41.47
GLNVO	2	76	10	28	0800 - 1100	3.75	147.50
GLNVO	2	76	10	28	1200 - 1700	6.08	225.03
GLNVO	2	76	10	28	1800 - 2300	3.25	67.44
GLNVO	2	76	10	29	0000 - 0700	3.00	63.31
GLNVO	2	76	10	29	0800 - 1100	3.00	275.35
GLNVO	2	76	10	29	1200 - 1700	4.67	254.45
GLNVO	2	76	10	29	1800 - 2300	2.92	259.53
GLNVO	2	76	10	30	0000 - 0700	2.94	49.02
GLNVO	2	76	10	30	0800 - 1100	3.25	266.05
GLNVO	2	76	10	30	1200 - 1700	5.08	235.10
GLNVO	2	76	10	30	1800 - 2300	3.08	26.38

Table D-3 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - FALL

EPA - GENEVA STEEL

H E CRAMER CO INC

DATE 12/10/76

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AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)							
PROJ	STATION	YEAR	MONTH	DAY	TIME OF DAY	AVERAGE SPEED (MPH)	AVERAGE DIRECTION (DEG)
					(LOC)		
	GENVO	2	76	10	31	0000 - 0700	3.06
	GENVO	2	76	10	31	0800 - 1100	3.13
	GENVO	2	76	10	31	1200 - 1700	3.83
	GENVO	2	76	10	31	1800 - 2300	3.67
	GENVO	2	76	11	1	0000 - 0700	3.00
	GENVO	2	76	11	1	0800 - 1100	2.75
	GENVO	2	76	11	1	1200 - 1700	4.92
	GENVO	2	76	11	1	1800 - 2300	3.45
	GENVO	2	76	11	2	0000 - 0700	3.37
	GENVO	2	76	11	2	0800 - 1100	3.50
	GENVO	2	76	11	2	1200 - 1700	4.67
	GENVO	2	76	11	2	1800 - 2300	3.08
	GENVO	2	76	11	3	0000 - 0700	2.87
	GENVO	2	76	11	3	0800 - 1100	3.25
	GENVO	2	76	11	3	1200 - 1700	6.08
	GENVO	2	76	11	3	1800 - 2300	4.00
	GENVO	2	76	11	4	0000 - 0700	3.06
	GENVO	2	76	11	4	0800 - 1100	3.13
	GENVO	2	76	11	4	1200 - 1700	5.25
	GENVO	2	76	11	4	1800 - 2300	2.60
	GENVO	2	76	11	5	0000 - 0700	2.75
	GENVO	2	76	11	5	0800 - 1100	2.75
	GENVO	2	76	11	5	1200 - 1700	4.50
	GENVO	2	76	11	5	1800 - 2300	2.70
	GENVO	2	76	11	6	0000 - 0700	2.81
	GENVO	2	76	11	6	0800 - 1100	3.50
	GENVO	2	76	11	6	1200 - 1700	4.75
	GENVO	2	76	11	6	1800 - 2300	2.98
	GENVO	2	76	11	7	0000 - 0700	2.94
	GENVO	2	76	11	7	0800 - 1100	2.67
	GENVO	2	76	11	7	1200 - 1700	4.42
	GENVO	2	76	11	7	1800 - 2300	2.75

Table D-4

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO

DATE 02/14/77

PAGE

***** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)

PROJ	STATION	YEAR	MONTH	DAY	TIME OF DAY	AVERAGE SPEED	AVERAGE DIRECTION
					(LPS)	(MPH)	(DEG)

ULIV	02	76	11	7	0000 - 0700	3.00	48.00
ULIV	02	76	11	7	0800 - 1100	2.07	62.40
ULIV	02	76	11	7	1200 - 1700	4.42	254.61
ULIV	02	76	11	7	1800 - 2300	2.75	62.65
ULIV	02	76	11	8	0000 - 0700	2.75	52.44
ULIV	02	76	11	8	0800 - 1100	4.00	350.00
ULIV	02	76	11	8	1200 - 1700	4.53	253.68
ULIV	02	76	11	8	1800 - 2300	3.50	160.58
ULIV	02	76	11	9	0000 - 0700	3.05	53.07
ULIV	02	76	11	9	0800 - 1100	3.02	324.45
ULIV	02	76	11	9	1200 - 1700	5.00	242.61
ULIV	02	76	11	9	1800 - 2300	3.13	56.08
ULIV	02	76	11	10	0000 - 0700	2.93	55.75
ULIV	02	76	11	10	0800 - 1100	3.00	255.70
ULIV	02	76	11	10	1200 - 1700	4.20	245.98
ULIV	02	76	11	10	1800 - 2300	3.37	80.76
ULIV	02	76	11	11	0000 - 0700	3.00	50.15
ULIV	02	76	11	11	0800 - 1100	2.50	164.34
ULIV	02	76	11	11	1200 - 1700	4.50	217.19
ULIV	02	76	11	11	1800 - 2300	5.30	41.38
ULIV	02	76	11	12	0000 - 0700	3.00	78.10
ULIV	02	76	11	12	0800 - 1100	2.50	347.50
ULIV	02	76	11	12	1200 - 1700	6.03	246.97
ULIV	02	76	11	12	1800 - 2300	3.42	341.18
ULIV	02	76	11	13	0000 - 0700	2.75	59.02
ULIV	02	76	11	13	0800 - 1100	3.13	96.00
ULIV	02	76	11	13	1200 - 1700	7.00	169.15
ULIV	02	76	11	13	1800 - 2300	3.70	1.39
ULIV	02	76	11	14	0000 - 0700	4.57	113.57
ULIV	02	76	11	14	0800 - 1100	6.37	167.90
ULIV	02	76	11	14	1200 - 1700	6.33	217.39
ULIV	02	76	11	14	1800 - 2300	9.42	325.76
ULIV	02	76	11	15	0000 - 0700	6.51	342.64
ULIV	02	76	11	15	0800 - 1100	2.70	139.57
ULIV	02	76	11	15	1200 - 1700	4.02	162.83
ULIV	02	76	11	15	1800 - 2300	6.62	59.07
ULIV	02	76	11	16	0000 - 0700	2.93	7.05
ULIV	02	76	11	16	0800 - 1100	3.17	1.9.34
ULIV	02	76	11	16	1200 - 1700	4.50	233.40
ULIV	02	76	11	16	1800 - 2300	2.06	41.02
ULIV	02	76	11	17	0000 - 0700	2.75	14.12
ULIV	02	76	11	17	0800 - 1100	2.67	32.75
ULIV	02	76	11	17	1200 - 1700	4.50	235.11
ULIV	02	76	11	17	1800 - 2300	2.50	44.19
ULIV	02	76	11	18	0000 - 0700	2.00	49.00
ULIV	02	76	11	18	0800 - 1100	2.00	20.00
ULIV	02	76	11	18	1200 - 1700	4.33	270.03
ULIV	02	76	11	18	1800 - 2300	3.25	67.15
ULIV	02	76	11	19	0000 - 0700	2.02	49.00
ULIV	02	76	11	19	0800 - 1100	2.07	17.70
ULIV	02	76	11	19	1200 - 1700	5.75	222.02
ULIV	02	76	11	19	1800 - 2300	.00	24.24

Table D-4 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 N E CRANCO CO

DATE 02/14/77 PAGE

 **** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LUC) (WPH) (HZ)

ULIV	02	70	11	20	0500 - 0700	.00	52.46
ULIV	02	70	11	20	0800 - 1100	.00	504.77
ULIV	02	70	11	21	1400 - 1700	.00	243.43
ULIV	02	70	11	20	1600 - 2300	.00	168.74
ULIV	02	70	11	21	0300 - 0700	.00	47.49
ULIV	02	70	11	21	0800 - 1100	.00	349.13
ULIV	02	70	11	21	1200 - 1700	5.00	243.01
ULIV	02	70	11	21	1800 - 2300	5.13	23.00
GLIV	2	70	11	22	0600 - 0700	2.75	53.10
ULIV	02	70	11	22	0800 - 1100	2.57	356.00
ULIV	02	70	11	22	1200 - 1700	4.92	214.23
ULIV	02	70	11	22	1800 - 2300	3.16	31.01
ULIV	02	70	11	23	0300 - 0700	3.14	50.60
ULIV	02	70	11	23	0800 - 1100	2.02	1.37
ULIV	02	70	11	23	1200 - 1700	4.83	219.07
ULIV	02	70	11	23	1800 - 2300	2.00	31.00
ULIV	02	70	11	24	0300 - 0700	2.00	46.67
ULIV	02	70	11	24	0800 - 1100	3.58	330.00
ULIV	02	70	11	24	1200 - 1700	4.05	234.34
GLIV	02	70	11	24	1800 - 2300	3.00	36.02
ULIV	02	70	11	25	0300 - 0700	3.00	41.70
GLIV	02	70	11	25	0800 - 1100	3.56	335.00
GLIV	02	70	11	25	1200 - 1700	3.56	241.74
ULIV	02	70	11	25	1800 - 2300	14.33	357.00
ULIV	02	70	11	26	0300 - 0700	16.00	317.01
ULIV	02	70	11	26	0800 - 1100	8.00	314.06
ULIV	02	70	11	26	1200 - 1700	14.17	311.73
ULIV	02	70	11	26	1800 - 2300	6.75	312.40
GLIV	02	70	11	27	0300 - 0700	10.01	310.13
ULIV	02	70	11	27	0800 - 1100	8.00	364.35
ULIV	02	70	11	27	1200 - 1700	14.17	298.34
ULIV	02	70	11	27	1800 - 2300	4.00	343.04
ULIV	02	70	11	28	0300 - 0700	2.75	10.31
ULIV	02	70	11	28	0800 - 1100	4.00	132.00
GLIV	02	70	11	28	1200 - 1700	4.17	249.31
ULIV	02	70	11	28	1800 - 2300	3.00	2.09
ULIV	02	70	11	29	0300 - 0700	2.79	52.04
ULIV	02	70	11	29	0800 - 1100	3.53	52.00
GLIV	02	70	11	29	1200 - 1700	4.42	230.71
ULIV	02	70	11	29	1800 - 2300	3.17	2.03
ULIV	02	70	11	30	0300 - 0700	2.75	47.31
ULIV	02	70	11	30	0800 - 1100	3.75	310.00
ULIV	02	70	11	30	1200 - 1700	4.25	264.00
ULIV	02	70	11	30	1800 - 2300	3.37	45.00
GLIV	02	70	12	1	0300 - 0700	2.92	27.43
ULIV	02	70	12	1	0800 - 1100	2.50	60.59
ULIV	02	70	12	1	1200 - 1700	4.20	244.00
GLIV	02	70	12	1	1800 - 2300	2.91	6.00
ULIV	02	70	12	2	0300 - 0700	2.75	31.00
ULIV	02	70	12	2	0800 - 1100	2.07	2.07
ULIV	02	70	12	2	1200 - 1700	4.00	233.00
GLIV	02	70	12	2	1800 - 2300	2.50	33.00

Table D-4 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CHAMCO CO

DATE 02/14/77

PAGE

 ***** AVERAGE SPEED AND DIRECTION. (NOT INCLUDING CALMS OR MISSING)
 PROD STATION YEAR MONTH DAY TIME OF DAY , VELOCITY SPEED AVVERAGE DIRECTION
 (LHS) (IPM) (DEG)

	ULINV	02	70	12	3 0000 - 0700	2.07	46.33
	ULINV	02	70	12	3 0000 - 1100	3.15	145.00
	ULINV	02	70	12	3 1000 - 1700	3.07	236.3
	ULINV	02	70	12	3 1000 - 2300	2.73	46.00
	ULINV	02	70	12	4 0000 - 0700	2.62	34.61
	ULINV	02	70	12	4 0000 - 1100	.60	0.0
	ULINV	02	70	12	4 1000 - 1700	3.40	203.30
	ULINV	02	70	12	4 1000 - 2300	3.25	32.00
	ULINV	02	70	12	5 0000 - 0700	4.90	236.40
	ULINV	02	70	12	5 0000 - 1100	9.25	4.000
	ULINV	02	70	12	5 1000 - 1700	13.00	36.139
	ULINV	02	70	12	5 1000 - 2300	4.90	13.00
	ULINV	02	70	12	6 0000 - 0700	3.00	121.40
	ULINV	02	70	12	6 0000 - 1100	5.17	175.25
	ULINV	02	70	12	6 1000 - 1700	5.17	243.4
	ULINV	02	70	12	6 1000 - 2300	2.50	331.00
	ULINV	02	70	12	7 0000 - 0700	2.25	41.0
	ULINV	02	70	12	7 0000 - 1100	2.00	139.00
	ULINV	02	70	12	7 1000 - 1700	3.70	239.0
	ULINV	02	70	12	7 1000 - 2300	3.00	235.0
	ULINV	02	70	12	8 0000 - 0700	2.40	43.12
	ULINV	02	70	12	8 0000 - 1100	3.00	122.50
	ULINV	02	70	12	8 1000 - 1700	4.00	25.039
	ULINV	02	70	12	8 1000 - 2300	2.67	38.91
	ULINV	02	70	12	9 0000 - 0700	2.93	291.87
	ULINV	02	70	12	9 0000 - 1100	5.12	26.04
	ULINV	02	70	12	9 1000 - 1700	0.42	303.17
	ULINV	02	70	12	9 1000 - 2300	13.08	319.29
	ULINV	02	70	12	10 0000 - 0700	4.00	16.46
	ULINV	02	70	12	10 0000 - 1100	3.50	10.00
	ULINV	02	70	12	10 1000 - 1700	5.92	190.59
	ULINV	02	70	12	10 1000 - 2300	2.98	49.002
	ULINV	02	70	12	11 0000 - 0700	2.10	36.07
	ULINV	02	70	12	11 0000 - 1100	3.00	235.00
	ULINV	02	70	12	11 1000 - 1700	4.59	26.42
	ULINV	02	70	12	11 1000 - 2300	2.50	17.03
	ULINV	02	70	12	12 0000 - 0700	2.00	36.09
	ULINV	02	70	12	12 0000 - 1100	2.67	26.12
	ULINV	02	70	12	12 1000 - 1700	4.40	229.03
	ULINV	02	70	12	12 1000 - 2300	2.40	62.00
	ULINV	02	70	12	13 0000 - 0700	2.75	47.50
	ULINV	02	70	12	13 0000 - 1100	2.62	330.00
	ULINV	02	70	12	13 1000 - 1700	3.58	266.25
	ULINV	02	70	12	13 1000 - 2300	2.70	152.50
	ULINV	02	70	12	14 0000 - 0700	2.37	35.05
	ULINV	02	70	12	14 0000 - 1100	2.75	122.51
	ULINV	02	70	12	14 1000 - 1700	3.00	234.00
	ULINV	02	70	12	14 1000 - 2300	2.25	40.70
	ULINV	02	70	12	15 0000 - 0700	2.17	75.45
	ULINV	02	70	12	15 0000 - 1100	2.75	132.40
	ULINV	02	70	12	15 1000 - 1700	4.00	41.10
	ULINV	02	70	12	15 1000 - 2300	2.00	45.00

Table D-4 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CIRAMCO CO

DATE 02/14/77 PAGE

==== AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LUC) (MM/DD) (E.F.G.)

GLEN	02	76	12	10	0600 - 0700	2.56	41.04
GLEN	02	76	12	10	0700 - 1100	2.00	40.00
GLEN	02	76	12	10	1200 - 1700	3.19	41.04
GLEN	02	76	12	10	1800 - 2300	3.00	60.00
GLEN	02	76	12	11	0600 - 0700	2.14	21.04
GLEN	02	76	12	11	0700 - 1100	2.03	60.04
GLEN	02	76	12	11	1200 - 1700	4.16	221.10
GLEN	02	76	12	11	1800 - 2300	2.96	140.00
GLEN	02	76	12	12	0600 - 0700	2.20	44.13
GLEN	02	76	12	12	0700 - 1100	2.05	35.00
GLEN	02	76	12	12	1200 - 1700	4.06	218.61
GLEN	02	76	12	12	1800 - 2300	2.05	26.00
GLEN	02	76	12	13	0600 - 0700	2.05	35.00
GLEN	02	76	12	13	0700 - 1100	2.00	246.46
GLEN	02	76	12	13	1200 - 1700	3.07	241.49
GLEN	02	76	12	13	1800 - 2300	2.50	74.02
GLEN	02	76	12	14	0600 - 0700	2.05	36.47
GLEN	02	76	12	14	0700 - 1100	2.17	110.05
GLEN	02	76	12	14	1200 - 1700	4.00	220.75
GLEN	02	76	12	14	1800 - 2300	2.53	41.02
GLEN	02	76	12	15	0600 - 0700	2.05	46.00
GLEN	02	76	12	15	0700 - 1100	3.05	167.00
GLEN	02	76	12	15	1200 - 1700	4.47	211.03
GLEN	02	76	12	15	1800 - 2300	2.56	31.03
GLEN	02	76	12	16	0600 - 0700	2.05	33.03
GLEN	02	76	12	16	0700 - 1100	3.75	357.00
GLEN	02	76	12	16	1200 - 1700	4.11	216.00
GLEN	02	76	12	16	1800 - 2300	2.00	57.00
GLEN	02	76	12	17	0600 - 0700	2.00	346.03
GLEN	02	76	12	17	0700 - 1100	2.25	50.00
GLEN	02	76	12	17	1200 - 1700	3.00	270.47
GLEN	02	76	12	17	1800 - 2300	3.00	17.03
GLEN	02	76	12	18	0600 - 0700	2.00	47.02
GLEN	02	76	12	18	0700 - 1100	4.03	245.34
GLEN	02	76	12	18	1200 - 1700	17.07	309.16
GLEN	02	76	12	18	1800 - 2300	5.50	81.12
GLEN	02	76	12	19	0600 - 0700	2.07	26.04
GLEN	02	76	12	19	0700 - 1100	.00	.00
GLEN	02	76	12	19	1200 - 1700	4.00	255.12
GLEN	02	76	12	19	1800 - 2300	2.75	46.03
GLEN	02	76	12	20	0600 - 0700	2.07	46.03
GLEN	02	76	12	20	0700 - 1100	5.05	167.00
GLEN	02	76	12	20	1200 - 1700	3.07	241.13
GLEN	02	76	12	20	1800 - 2300	5.00	33.47
GLEN	02	76	12	21	0600 - 0700	2.30	46.00
GLEN	02	76	12	21	0700 - 1100	3.15	102.07
GLEN	02	76	12	21	1200 - 1700	14.06	205.00
GLEN	02	76	12	21	1800 - 2300	5.00	52.01
GLEN	02	76	12	22	0600 - 0700	2.15	10.77
GLEN	02	76	12	22	0700 - 1100	2.03	270.17
GLEN	02	76	12	22	1200 - 1700	3.92	246.04
GLEN	02	76	12	22	1800 - 2300	2.59	52.03

Table D-4 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - WINTER

- GENEVA STELL RAW DATA AND AVERAGES NOV 76 TO JAN 77 H E CRAVEN CO

DATE 02/14/77

PAGE

**** AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALMS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LLC) (MPH) (DEG)

GLNIV	02	76	12	20	0000 - 0700	2.67	31.59
GLNIV	02	76	12	20	0000 - 1100	2.50	356.00
GLNIV	02	76	12	20	1200 - 1700	3.92	227.13
GLNIV	02	76	12	20	1800 - 2300	2.75	56.00
GLNIV	02	76	12	20	0000 - 0700	2.67	316.54
GLNIV	02	76	12	30	0000 - 1100	3.50	232.00
GLNIV	02	76	12	30	1200 - 1700	0.00	234.00
GLNIV	02	76	12	30	1800 - 2300	3.00	204.00
GLNIV	02	76	12	31	0000 - 0700	2.00	56.00
GLNIV	02	76	12	31	0000 - 1100	2.00	300.00
GLNIV	02	76	12	31	1200 - 1700	6.07	177.21
GLNIV	02	76	12	31	1800 - 2300	2.00	31.00
GLNIV	02	76	12	31	0000 - 0700	3.00	157.32
GLNIV	02	77	1	1	0000 - 0700	6.25	157.76
GLNIV	02	77	1	1	0000 - 1100	7.03	164.03
GLNIV	02	77	1	1	1200 - 2300	4.42	127.54
GLNIV	02	77	1	1	0000 - 0700	8.59	140.72
GLNIV	02	77	1	1	0000 - 1100	0.57	118.69
GLNIV	02	77	1	1	1200 - 1700	9.25	154.17
GLNIV	02	77	1	1	1800 - 2300	8.33	121.74
GLNIV	02	77	1	1	0000 - 0700	9.31	175.33
GLNIV	02	77	1	1	0000 - 1100	0.00	164.30
GLNIV	02	77	1	1	1200 - 1700	11.09	116.70
GLNIV	02	77	1	1	1800 - 2300	4.63	31.03
GLNIV	02	77	1	1	0000 - 0700	3.03	316.03
GLNIV	02	77	1	1	0000 - 1100	7.25	316.03
GLNIV	02	77	1	1	1200 - 1700	5.67	22.77
GLNIV	02	77	1	1	1800 - 2300	3.00	40.10
GLNIV	02	77	1	1	0000 - 0700	3.50	40.13
GLNIV	02	77	1	1	0000 - 1100	2.50	337.00
GLNIV	02	77	1	1	1200 - 1700	5.03	269.03
GLNIV	02	77	1	1	1800 - 2300	2.70	20.74
GLNIV	02	77	1	1	0000 - 0700	2.07	31.03
GLNIV	02	77	1	1	0000 - 1100	3.45	335.00
GLNIV	02	77	1	1	1200 - 1700	3.75	257.47
GLNIV	02	77	1	1	1800 - 2300	2.00	141.72
GLNIV	02	77	1	1	0000 - 0700	2.00	364.00
GLNIV	02	77	1	1	0000 - 1100	2.00	57.03
GLNIV	02	77	1	1	1200 - 1700	4.33	212.56
GLNIV	02	77	1	1	1800 - 2300	2.25	313.09
GLNIV	02	77	1	1	0000 - 0700	2.75	345.03
GLNIV	02	77	1	1	0000 - 1100	3.75	31.03
GLNIV	02	77	1	1	1200 - 1700	14.50	328.00
GLNIV	02	77	1	1	1800 - 2300	13.00	314.03
GLNIV	02	77	1	1	0000 - 0700	0.51	56.00
GLNIV	02	77	1	1	0000 - 1100	3.50	271.00
GLNIV	02	77	1	1	1200 - 1700	3.92	244.00
GLNIV	02	77	1	1	1800 - 2300	2.12	304.52
GLNIV	02	77	1	1	0000 - 0700	2.03	11.03
GLNIV	02	77	1	1	0000 - 1100	0.00	0.00
GLNIV	02	77	1	1	1200 - 1700	3.03	204.73
GLNIV	02	77	1	1	1800 - 2300	2.00	79.00

Table D-4 (Continued)

AVERAGE WIND SPEED AND WIND DIRECTION - STATION 2 - WINTER

- GENEVA STEEL RAW DATA AND AVERAGES NOV 76 TO JAN 77 N E CRANCO CO

DATE 02/14/77 PAGE

---* AVERAGE SPEED AND DIRECTION (NOT INCLUDING CALCS OR MISSING)
 PROJ STATION YEAR MONTH DAY TIME OF DAY AVERAGE SPEED AVERAGE DIRECTION
 (LCC) (FPM) (DEG)

GLN.V	02	77	1	11	0000 - 0700	2.30	43.30
GLN.V	02	77	1	11	0000 - 1100	4.00	220.00
GLN.V	02	77	1	11	1200 - 1700	4.00	230.20
GLN.V	02	77	1	11	1800 - 2300	2.07	43.00
GLN.V	02	77	1	12	0000 - 0700	2.50	15.04
GLN.V	02	77	1	12	0000 - 1100	2.50	75.0
GLN.V	02	77	1	12	1200 - 1700	4.03	180.00
GLN.V	02	77	1	12	1800 - 2300	3.40	173.10
GLN.V	02	77	1	13	0000 - 0700	3.70	16.70
GLN.V	02	77	1	13	0000 - 1100	2.67	81.73
GLN.V	02	77	1	13	1200 - 1700	4.17	231.11
GLN.V	02	77	1	13	1800 - 2300	3.15	16.70
GLN.V	02	77	1	14	0000 - 0700	2.17	12.00
GLN.V	02	77	1	14	0000 - 1100	2.00	41.00
GLN.V	02	77	1	14	1200 - 1700	3.50	140.00
GLN.V	02	77	1	14	1800 - 2300	2.13	213.07
GLN.V	02	77	1	15	0000 - 0700	2.50	177.02
GLN.V	02	77	1	15	0000 - 1100	3.05	5.70
GLN.V	02	77	1	15	1200 - 1700	3.03	210.07
GLN.V	02	77	1	15	1800 - 2300	3.15	16.00
GLN.V	02	77	1	16	0000 - 0700	3.05	13.70
GLN.V	02	77	1	16	0000 - 1100	3.50	307.50
GLN.V	02	77	1	16	1200 - 1700	3.02	102.00
GLN.V	02	77	1	16	1800 - 2300	4.30	113.00
GLN.V	02	77	1	17	0000 - 0700	2.50	55.00
GLN.V	02	77	1	17	0000 - 1100	2.75	327.00
GLN.V	02	77	1	17	1200 - 1700	4.42	134.00
GLN.V	02	77	1	17	1800 - 2300	2.50	61.00
GLN.V	02	77	1	18	0000 - 0700	2.67	10.77
GLN.V	02	77	1	18	0000 - 1100	3.50	315.00
GLN.V	02	77	1	18	1200 - 1700	4.23	232.00
GLN.V	02	77	1	18	1800 - 2300	2.40	174.31
GLN.V	02	77	1	19	0000 - 0700	2.70	336.01
GLN.V	02	77	1	19	0000 - 1100	2.75	245.00
GLN.V	02	77	1	19	1200 - 1700	3.03	236.00
GLN.V	02	77	1	19	1800 - 2300	2.00	170.00

ADDENDUM E

Summary of Observations by Field Personnel

Table E-1
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Early Summer

Date	Week Day	Pertinent Remarks
May 25	Tuesday	Heavy visible emissions from vicinity of Heckett Engineering. Coal dust observed at coal pile south of coke ovens. Open hearth emissions visible.
26	Wednesday	No observations made.
27	Thursday	Coke oven emissions heavy. Visible emissions from No. 5 and 6 open hearth scrubbers. Heavy fugitive emissions from north end of open hearth building. Dust observed from truck traffic in the vicinity of Heckett Engineering.
29	Saturday	Open hearth and coke oven emissions visible, with heavy fugitive emissions from open hearth. Slag dumping observed near Station 3.
30	Sunday	Open hearth emissions heavy; general dense cloud over building. Open hearth area completely obscured at Station 5. Coke oven emissions visible.
June 1	Tuesday	Dust from tractor operations observed upwind of Station 3. Dump burning - winds from south at time of observation.
4	Friday	Truck traffic at Utah Co. dump causing dust (winds from south at time of observation). Coke oven emissions visible and heavy. Minor dust from operations near Station 6. Dust observed from truck traffic south of station 2 near Heckett. Dust from Geneva Rock products operation east of USSC plant.
5	Saturday	Normal open hearth and coke oven emissions.
6	Sunday	No observations made.
7	Monday	Normal open hearth and coke oven emissions.
8	Tuesday	Heavy coal dust observed from coal storage piles south of coke ovens. Visible emissions observed from foundry. Normal open hearth and coke oven emissions. Truck operations at slag dump just south of station 3 caused dust directly at samplers.
9	Wednesday	Truck activity near Heckett slag dump causing dust which appears to be affecting stations 2, 3 and 4. Extraordinarily heavy coking observed at 1600 hours with west winds at time of observations.

Table E-1 (Cont.)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Early Summer

Date	Week Day	Pertinent Remarks
June 10	Thursday	Frontal passage observed at approximately 1400 hours. Light precipitation and blowing dust observed. 5 minute average wind speed in excess of 30 mph.
11	Friday	Precipitation observed throughout afternoon.
12	Saturday	Normal open hearth and coke oven emissions.
13	Sunday	No observations made
14	Monday	Normal open hearth and coke oven emissions. Humidity observed to be high based on steam clouds, etc. Dust observed from truck activity near Heckett.
15	Tuesday	No observations made.
16	Wednesday	Normal open hearth and coke oven emissions. Visible emissions observed from dumping of molten slag at slag pile. Blowing dust observed at dump and throughout general USSC plant area.
17	Thursday	No observations made.
18	Friday	Normal open hearth and coke oven emissions.
19	Saturday	Normal open hearth and coke oven emissions.
20	Sunday	No observations
21	Monday	Heavy open hearth and coking emissions. Dust from Heckett Engineering operations.
22	Tuesday	Fire at Utah County Dump. Blowing dust observed throughout the area.
23	Wednesday	Fire continues at Utah County dump. Normal open hearth and coking operations.
24	Thursday	Utah County dump continues smoldering. Normal open hearth and coking operations.
25	Friday	Utah County dump continues smoldering. Normal open hearth and coking operations.
26	Saturday	Utah County dump smoldering moderately. Normal open hearth and coking operations.
27	Sunday	No observations

Table E-1 (Cont.)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Early Summer

Date	Week Day	Pertinent Remarks
28	Monday	Utah County dump still smoldering moderately. Heavy open hearth and coking operations. Fugitive dust observed from coke pile by equipment operations.
29	Tuesday	Utah County dump still smoldering. Heavy fugitive dust from coal piles south of coke ovens. Normal open hearth and coking operations.
30	Wednesday	Utah County dump still smoldering. Normal open hearth and coking operations.
July 1	Thursday	No observations
2	Friday	Utah County dump still smoldering. Heavy coking operations. Normal open hearth operations.
3	Saturday	Utah County dump has stopped smoldering. Normal open hearth and coking operations.
4	Sunday	No observations
5	Monday	Heavy open hearth and coking operations.

Table E-2
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Late Summer

Date	Week Day	Pertinent Remarks
July 19	Monday	Burning observed at Utah County Dump. Visible smoke observed throughout south end of valley. Unusually heavy visible emissions from open hearth area. Coking operations normal.
20	Tuesday	Burning continued at Utah County Dump. Open hearth and coking operations normal.
21	Wednesday	Visible evidence of heavy inversion. Visible emissions observed from mixing oven of open hearth building. Reddish brown haze observed over Utah Lake. Fugitive dust observed from north loading hopper at Heckett Engineering.
22	Thursday	Visible evidence of heavy inversion as late as 11:00 a.m. Light burning observed at dump. Visible haze over lake at plant area.
23	Friday	Heavy burning at Utah County Dump. Inversion evident. Normal open hearth and coking operations. Heavy fugitive dust observed at Heckett.
24	Saturday	Burning continues at Utah County Dump. Strong inversion evident. Normal open hearth and coking operations.
25	Sunday	Overcast sky with light drizzle during afternoon. Utah County Dump still smoldering. Normal open hearth and coking operations.
26	Monday	Utah County Dump still smoldering. Normal open hearth and coking operations. Fugitive dust from truck traffic observed in Heckett Engineering area. Heavy traffic at Utah County Dump.
27	Tuesday	Utah County Dump still smoldering lightly. Normal open hearth and coking operations. Thunderstorms in the area.
28	Wednesday	Utah County Dump smoldering lightly. Heavy inversions evident. White fugitive emissions observed from open hearth area. Fugitive dust observed from slag dumping by Heckett Engineering. Normal coking operations.

Table E-2 (Continued)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Late Summer

Date	Week Day	Pertinent Remarks
July 29	Thursday	Utah County Dump has ceased smoldering. Normal open hearth and coking operations. Haze observed over plant in early evening.
	Friday	Inversion evident over lake during afternoon. Normal open hearth and coking operations.
	Saturday	Unusual gray visible emissions observed from sintering plant stacks. Normal open hearth and coking operations.
August	1 Sunday	Gray emissions observed from sintering plant. Normal open hearth and coking emissions.
	2 Monday	Normal open hearth and coking operations. Some dust from truck traffic at Utah County Dump.
	3 Tuesday	Normal open hearth and coking operations. Fugitive dust observed from Heckett Engineering plant area as well as truck traffic.
	4 Wednesday	No observations made.
	5 Thursday	Open Hearth bypass observed. Fugitive emissions from USSC foundry observed. Normal coking operations.
	6 Friday	Fire at Utah County Dump with heavy smoke emissions. Forest fire south of Provo adding to general haze.
	7 Saturday	No observations made.
	8 Sunday	No observations made.
	9 Monday	Normal open hearth and coking emissions. Heavy fugitive dust from Heckett Engineering plant.
	10 Tuesday	Utah County Dump smoldering lightly. Normal open hearth and coking operations.
	11 Wednesday	Normal open hearth and coking operations.
	12 Thursday	Normal open hearth and coking operations. Fugitive dust observed from truck operations by Heckett Engineering.

Table E-2 (Continued)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Late Summer

Date	Week Day	Pertinent Remarks
August 13	Friday	Normal open hearth and coking operations
14	Saturday	Normal open hearth and coking operations.
15	Sunday	Heavy gray emissions from sintering plant. Visible emissions observed from foundry. Normal open hearth and coking operations. Frontal passage at 1500.
16	Monday	General hazy conditions with significantly cooler temperatures. Intermittent fugitive dust from Heckett Engineering. Normal open hearth and coking emissions.
17	Tuesday	Normal open hearth and coking operations. Brush fire burning southwest of USSC plant.
18	Wednesday	Normal open hearth and coking operations.
19	Thursday	Heavy truck traffic at dump causing dust. Heavy fugitive emissions from Heckett Engineering plant. Normal open hearth and coking emissions.
20	Friday	Strong inversion evident late in morning. Dust from trucks at Heckett and at Utah County Dump. Fugitive dust observed from Rocky Mountain Refractory east of Utah County Dump.
21	Saturday	Normal open hearth and coking plant operations.
22	Sunday	Skies overcast with drizzle. Normal open hearth and coking operations.
23	Monday	Normal open hearth and coking operations. Heavy emissions of dust from within slag dump.
24	Thursday	Moderate to heavy haze observed in all quadrants. Observed unusual occurrence of no haze over open hearth area early in day. Haze observed later. Trucks dumping processed slag from Heckett Engineering are causing excessive fugitive dust.
25	Wednesday	Truck traffic at Utah County Dump causing fugitive dust. Dust emissions observed from within slag dump area. Normal open hearth and coking operations.

Table E-2 (Continued)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Late Summer

Date	Week Day	Pertinent Remarks
August 26	Thursday	Dust storm observed in area during early afternoon. Dust from dump observed blowing toward station 2. Normal open hearth and coking operations.
27	Friday	Fugitive dust observed from coke pile. Fairly strong inversion evident late morning. Normal open hearth and coking operations.
28	Saturday	Inversion evident at late morning. Moderate to heavy traffic at Utah County Dump. Normal open hearth and coking operations.
29	Sunday	Heavy inversion evident late morning; dissipating near noon.
30	Monday	Heavy orange plume observed from blast furnace area. Normal open hearth and coking operations.
31	Tuesday	Heavy fugitive emission observed at Heckett Engineering plant. Normal open hearth and coking operations.

Table E-3
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Fall

Date	Week Day	Pertinent Remarks
Sept. 1	Wednesday	Extraordinarily heavy emissions from open-hearth-fugitive and from stacks. Heavy fugitive dust from Heckett Engineering observed flowing toward station 4. Visible emissions from rolling and structural mill stacks. Haze over Utah Lake during late morning hours.
Sept. 2	Thursday	Heavy emissions from open-hearth area. Heavy emissions observed from power house boilers. Fugitive dust from trucks at Heckett Engineering flowing toward station 2.
Sept. 3	Friday	Heavy inversion causing obscuration of view of plant from station 7. Open-hearth stacks good. Heavy fugitive emissions from truck traffic in Heckett Engineering area. Heavy emissions from coking area.
Sept. 4	Saturday	Normal open-hearth and coking operations.
Sept. 5	Sunday	Heavy haze throughout valley. Normal open-hearth and coking operations.
Sept. 6	Monday	Heavy emissions from sintering plant stacks. Normal open-hearth and coking operations.
Sept. 7	Tuesday	Open-hearth obscured from vision at station 6. Normal coking operations.
Sept. 8	Wednesday	Heavy open-hearth emissions. Strong inversion with visible particulate cloud over lake. Rain previous day has settled dust, but haze observed all quadrants. Normal coking operations.
Sept. 9	Thursday	Normal open-hearth and coking operations.
Sept. 10	Friday	Normal open-hearth and coking operations. No inversion observed.
Sept. 11	Saturday	Frontal passage during day.

Table E-3 (Continued)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Fall

Date	Week Day	Pertinent Remarks
Sept. 12	Sunday	Open-hearth emissions unusually clean. Heavy overcast.
Sept. 13	Monday	Rain during day.
Sept. 14	Tuesday	Normal open-hearth and coking operations.
Sept. 15	Wednesday	Heavy open-hearth emissions. Turkey pen set-up at station 6; no fugitive emissions observed.
Sept. 16	Thursday	Normal open-hearth and coking operations. Gusty wind conditions.
Sept. 17	Friday	Unusually low amount of emissions from open-hearth and coking operations.
Sept. 18	Saturday	No observations.
Sept. 19	Sunday	Normal open-hearth and coking operations. Dump burning.
Sept. 20	Monday	Normal open-hearth and coking operations. Dump burning.
Sept. 21	Tuesday	Skies overcast. Dust observed from turkey activity near station 6.
Sept. 22	Wednesday	Normal open-hearth and coking operations.
Sept. 23	Thursday	No observations
Sept. 24	Friday	Normal open-hearth emissions. Heavy coking operations.
Sept. 25	Saturday	Normal open-hearth and coking operations
Sept. 26	Sunday	Normal open-hearth and coking operations.
Sept. 27	Monday	Heavy open-hearth emissions. Normal coking operations. Agricultural operations near station 4 causing fugitive dust.
Sept. 28	Tuesday	Inversion evident. Normal open-hearth and coking operations. Agricultural operations near stations 3, 4, and 7.

Table E-3 (Continued)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Fall

Date	Week Day	Pertinent Remarks
Sept. 29	Wednesday	Heavy inversion. Emissions observed from sintering plant.
Sept. 30	Thursday	Dump burning. Heavy inversion. Normal open-hearth and coking plant operations.
Oct. 1	Friday	Heavy coking operations. Normal open-hearth emissions. Heavy fugitive emissions from sintering plant.
Oct. 2	Saturday	No observations
Oct. 3	Sunday	Strong northeast winds.
Oct. 4	Monday	No observations
Oct. 5	Tuesday	No observations
Oct. 6	Wednesday	No observations
Oct. 7	Thursday	Corn harvested southwest of station 7. Grain milling in progress south of station 6.
Oct. 8	Friday	Heavy open-hearth, coke oven, and foundry emissions. Heavy emissions from sintering plant stacks. Heavy truck traffic in vicinity of Heckett Engineering.
Oct. 9	Saturday	Normal open-hearth and coking operations.
Oct. 10	Sunday	Heavy sintering plant emissions. Normal open-hearth and coking operations. Burning at dump.
Oct. 11	Monday	No observations
Oct. 12	Tuesday	Heavy open-hearth emissions. Normal coking operations.
Oct. 13	Wednesday	Heavy open-hearth emissions. Heavy inversion over valley.
Oct. 14	Thursday	Heavy inversion observed until 2:00 PM. Heavy open-hearth emissions.
Oct. 15	Friday	Heavy open-hearth and coking operations. Heavy inversion into afternoon.

Table E-3 (Continued)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Fall

Date	Week Day	Pertinent Remarks
Oct. 16	Saturday	Heavy coking operations. Heavy fugitive dust from turkeys at station 6.
Oct. 17	Sunday	Strong north winds. Strong coke oven odor observed south of plant.
Oct. 18	Monday	Normal open-hearth and coking operations
Oct. 19	Tuesday	Inversion throughout day. Normal plant activity
Oct. 20	Wednesday	Open-hearth and coking observed to be abnormally "clean." Inversion throughout the day.
Oct. 21	Thursday	Heavy inversion. Operations normal.
Oct. 22	Friday	Normal coking operations. Heavy emissions from open-hearth. Visible emissions from power boiler.
Oct. 23	Saturday	Light inversion breaking up early in day. Light activity at plant.
Oct. 24	Sunday	No observations
Oct. 25	Monday	No observations
Oct. 26	Tuesday	Coking operations normal. Light open-hearth emissions. Dump burning.
Oct. 27	Wednesday	Normal coking operation. Dump burning.
Oct. 28	Thursday	Heavy inversion throughout day. Heavy activity at sintering plant.
Oct. 29	Friday	Heavy inversion throughout day. Heavy activity at sintering plant. Heavy coke operations.
Oct. 30	Saturday	No observation
Oct. 31	Sunday	Light inversion. Light plant activity.

Table E-3 (Continued)
SUMMARY OF OBSERVATIONS BY FIELD PERSONNEL
Fall

Date	Week Day	Pertinent Remarks
Nov. 1	Monday	Light inversion. Visible emissions from power boilers.
Nov. 2	Tuesday	Light inversion. Visible emissions from power boiler
Nov. 3	Wednesday	Heavy inversion. Abnormally high activity at plant.
Nov. 4	Thursday	Moderate inversion. Abnormally high plant activity.
Nov. 5	Friday	Normal plant activity.

ADDENDUM F

Daily Particulate Concentrations

USHD Stations in Utah Valley, except "Geneva"

Table F-1
**DAILY PARTICULATE CONCENTRATIONS - EARLY SUMMER
 USHD STATIONS IN UTAH VALLEY, EXCEPT "GENEVA"**

Date	Station				
	Lehi	Pleasant Grove	Orem	Provo	Mapleton
5/25	54	58	70	77	59
26	57	-	62	76	-
27	58	-	48	70	51
28	87	-	104	114	75
29	55	66	77	59	79
30	33	-	37	32	28
31	61	-	67	57	-
6/1	68	-	57	64	107
2	67	-	53	67	60
3	70	-	75	88	-
4	72	-	-	65	83
5	64	33	-	62	-
6	76	51	-	53	44
7	75	76	-	78	-
8	73	63	-	-	95
9	65	58	63	68	69
10	71	84	114	140	154
11	27	20	36	40	62
12	26	27	30	37	-
13	-	36	66	82	-
14	45	44	53	60	31
15	55	46	45	52	-
16	69	40	70	80	68
17	32	43	46	60	51
18	42	60	60	67	47
19	54	39	61	49	45
20	62	89	90	74	68
21	-	115	84	116	41
22	-	106	144	132	56
23	-	-	56	72	54
24	52	50	62	-	59
25	106	60	105	76	44
26	80	107	151	110	77
27	85	98	73	64	50
28	29	97	111	86	-
29	91	116	126	112	-
30	74	84	71	96	-
7/1	108	113	116	108	-
2	107	71	96	115	-
3	78	71	79	87	-
4	62	26	40	61	-
5	70	162	44	72	-

Table F-2
**DAILY PARTICULATE CONCENTRATIONS - LATE SUMMER
 USHD STATIONS IN UTAH VALLEY - EXCEPT GENEVA**

Date	Station				
	Lehi	Grove	Orem	Provo	Mapleton
7/19	46	63	46	57	29
20	48	36	66	58	36
21	59	101	62	72	46
22	79	139	56	67	55
23	70	23	79	71	80
24	71	51	63	70	68
25	43	50	56	52	42
26	-	29	54	54	35
27	-	64	51	66	65
28	69	83	61	64	65
29	51	60	58	70	55
30	-	43	68	86	45
31	-	-	47	54	24
8/1	21	-	29	39	20
2	42	-	41	54	29
3	43	-	44	47	29
4	-	-	52	65	24
5	-	-	61	65	-
6	-	69	76	120	-
7	59	53	62	61	-
8	56	64	51	70	-
9	75	84	63	69	55
10	75	90	83	80	58
11	84	84	69	104	55
12	86	85	53	89	63
13	70	80	49	82	50
14	20	70	-	72	57
15	68	67	-	79	62
16	-	81	-	72	41
17	-	54	-	63	46
18	50	48	-	50	42
19	62	-	61	68	47
20	68	-	53	72	50
21	66	-	56	-	38
22	63	68	41	54	35
23	32	38	42	58	29
24	45	54	46	75	45
25	67	52	46	73	40
26	-	71	78	118	75
27	-	70	65	87	43
28	69	80	80	87	52
29	63	65	52	48	37
30	85	82	49	83	-
31	73	85	76	83	55

Table F-3
DAILY PARTICULATE CONCENTRATIONS - FALL
USHD STATIONS IN UTAH VALLEY, EXCEPT "GENEVA"

Date	Lehi	Station				
		Pleasant Grove	Lindon	Orem	Provo	Mapleton
9/1	-	67	-	72	69	-
2	-	81	-	50	85	61
3	87	164	-	69	100	56
4	108	104	-	100	86	68
5	90	43	-	101	83	73
6	56	51	-	49	50	45
7	35	37	-	50	55	23
8	42	56	-	55	66	43
9	64	72	-	74	85	55
10	60	73	-	45	73	36
11	37	37	-	49	46	33
12	27	29	-	-	33	26
13	46	59	-	49	64	20
14	59	71	-	-	59	23
15	58	50	-	38	65	19
16	52	61	84	49	49	28
17	95	55	-	70	83	39
18	48	60	-	64	62	46
19	48	19	95	63	59	40
20	65	80	-	71	72	41
21	68	80	97	-	78	35
22	49	53	67	51	50	29
23	57	74	97	60	73	41
24	-	55	58	40	65	72
25	-	55	110	38	74	38
26	51	47	-	47	51	-
27	61	68	-	57	75	50
28	104	82	86	64	84	62
29	24	74	117	76	97	60
30	88	-	102	52	28	61
10/1	92	-	127	85	125	70
2	36	25	33	33	30	-
3	21	54	20	22	24	-
4	31	44	47	-	-	-
5	54	22	58	47	49	-
6	47	78	80	78	107	52
7	-	61	89	61	67	-
8	77	113	133	74	-	-
9	88	127	146	83	172	-
10	60	61	-	31	-	-
11	65	46	-	77	-	49
12	61	83	87	83	140	67
13	81	124	32	91	127	57

Table F-3 (Cont.)

*DAILY PARTICULATE CONCENTRATIONS - FALL
USHD STATIONS IN UTAH VALLEY, EXCEPT "GENEVA"*

Date	Station					
	Lehi	Pleasant Grove	Lindon	Orem	Provo	Mapleton
14	75	102	-	65	-	161
15	86	93	-	75	108	160
16	97	107	-	75	103	-
17	120	95	122	128	119	-
18	-	101	-	96	111	65
19	-	107	143	78	-	168
20	113	130	130	-	-	79
21	128	157	186	127	-	-
22	118	105	112	95	-	140
23	73	88	98	65	-	129
24	79	95	123	-	87	-
25	93	76	107	85	-	-
26	41	57	66	70	-	56
27	55	99	116	75	-	56
28	88	125	110	110	-	-
29	93	119	138	89	-	158
30	108	113	122	256	-	-
31	92	199	99	65	-	-
11/1	105	114	154	95	-	91
2	131	-	177	125	-	117
3	123	144	164	120	45	-
4	-	186	155	80	-	183
5	-	159	195	102	-	113

Table F-4
**PARTICULATE CONCENTRATIONS - WINTER
 USHD STATIONS IN UTAH VALLEY, EXCEPT "GENEVA"**

Date	Lehi	Station				
		Pleasant Grove	Lindon	Orem	Provo	Mapleton
11/20	78	-	-	77	89	49
21	82	146	100	-	90	54
22	119	-	160	101	115	-
23	118	146	187	125	146	74
24	120	210	223	-	130	-
25	171	212	194	-	203	129
26	56	401	85	-	113	54
27	54	82	55	61	61	44
28	68	62	75	57	43	37
29	100	72	138	108	94	43
30	130	176	155	175	128	75
12/1	187	210	221	142	126	70
2	150	208	214	168	-	90
3	148	159	-	138	174	68
4	127	177	-	158	124	90
5	34	49	-	59	48	33
6	88	74	-	90	75	-
7	115	115	125	158	95	-
8	-	110	97	67	109	44
9	-	49	62	69	67	41
10	97	111	114	114	118	82
11	105	115	114	88	100	56
12	111	161	180	118	92	48
13	161	151	268	145	158	58
14	-	44	-	136	143	53
15	90	194	-	136	184	61
16	186	200	209	146	160	91
17	196	206	206	192	-	101
18	190	169	-	162	-	84
19	164	214	109	161	-	103
20	177	204	251	172	-	168
21	193	220	317	173	144	94
22	181	187	291	-	189	-
23	210	215	108	181	176	106
24	79	112	-	142	160	140
25	77	112	-	63	88	-
26	80	97	133	86	87	311
27	107	90	109	-	116	65
28	122	207	234	157	59	97
29	155	195	190	182	178	88
30	-	277	-	161	97	129
31	121	71	104	109	82	121

ADDENDUM G

Weekly TSP Data from LOVOL Stations

USSC-Geneva Network

Table G-1
**WEEKLY TSP DATA FROM LOVOL STATIONS
 USSC-GENEVA NETWORK-EARLY SUMMER**

Sampling	Stations		(Concentration in $\mu\text{g}/\text{m}^3$)				
	RA	PO	GG	WL	AF	GH	TA
6/1-7	59	76	55	63	79	-	94
6/7-14	53	73	46	49	48	81	65
6/14-21	55	85	51	44	61	86	70
6/21-28	92	94	71	67	80	124	99
6/28-7/5	94	113	98	84	108	129	127

Table G-2
**WEEKLY TSP DATA FROM LOVOL STATIONS
 USSC-GENEVA NETWORK-LATE SUMMER**

Sampling	Stations		(Concentration in $\mu\text{g}/\text{m}^3$)				
	RA	PO	GG	WL	AF	GH	TA
7/19-26	59	80	68	55	74	94	99
7/26-8/2	66	81	62	55	54	91	76
8/2-9	66	88	66	51	67	105	90
8/9-16	73	103	75	64	83	112	96
8/16-23	54	79	59	48	69	97	79
8/23-30	65	100	74	62	77	95	102

Table G-3
**WEEKLY TSP DATA FROM LOVOL STATIONS
 USSC-GENEVA NETWORK-FALL**

Sampling	Stations		(Concentration in $\mu\text{g}/\text{m}^3$)				
	RA	PO	GG	WL	AF	GH	TA
8/30-9/7	69	97	97	72	93	128	120
9/7-13	53	73	62	40	52	109	64
9/13-20	57	73	57	61	55	93	87
9/20-27	62	87	61	77	65	106	244
9/27-10/4	60	91	57	68	70	108	197
10/4-11	63	98	67	62	70	96	117
10/11-18	94	107	91	73	88	122	133
10/18-25	89	137	106	87	109	123	129
10/25-11/1	85	120	84	72	85	100	83
11/1-8	116	179	140	116	159	161	135