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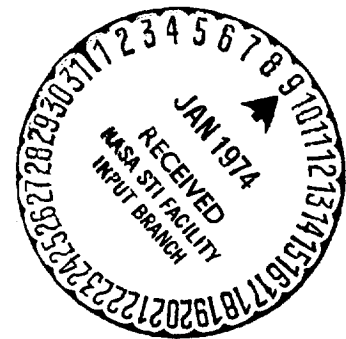
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## DISTRIBUTIONS OF EIGHT METEOROLOGICAL VARIABLES AT CAPE KENNEDY, FLORIDA AND VANDENBERG AIR FORCE BASE, CALIFORNIA

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November 19, 1973

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16. ABSTRACT  Extreme values, median values, and nine percentile values are tabulated for eight meteorological variables at Cape Kennedy, Florida and at Vandenberg Air Force Base, California. The variables are temperature, dew point temperature, relative humidity, station pressure, water vapor pressure, water vapor mixing ratio, density, and enthalpy. For each month eight hours are tabulated, namely, 0100, 0400, 0700, 1000, 1300, 1600, 1900, and 2200 local time. These statistics are intended for general use for the Space Shuttle design trade-off analysis and are not to be used for specific design values. Appropriate documents, e.g., Appendix 10.10, Volume X, Space Shuttle Design Requirements, JSC Doc. No. 07700 and NASA TM X-64757 shall be used for specific natural design requirements data for the Space Shuttle.					
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# TABLE OF CONTENTS

	Page
I. INTRODUCTION.....	1
II. DEFINITIONS AND COMMENTS.....	1
A. Temperature.....	2
B. Dew Point Temperature.....	3
C. Relative Humidity.....	3
D. Station Pressure.....	3
E. Water Vapor Pressure.....	4
F. Water Vapor Mixing Ratio.....	4
G. Density.....	5
H. Enthalpy.....	5
REFERENCES.....	54

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## LIST OF TABLES

Table	Title	Page
1.	Cape Kennedy Temperature . . . . .	6
2.	Cape Kennedy Dew Point Temperature . . . . .	9
3.	Cape Kennedy Relative Humidity . . . . .	12
4.	Cape Kennedy Pressure . . . . .	15
5.	Cape Kennedy Vapor Pressure . . . . .	18
6.	Cape Kennedy Mixing Ratio . . . . .	21
7.	Cape Kennedy Density . . . . .	24
8.	Cape Kennedy Enthalpy . . . . .	27
9.	Vandenberg Air Force Base Temperature . . . . .	30
10.	Vandenberg Air Force Base Dew Point Temperature . . . . .	33
11.	Vandenberg Air Force Base Relative Humidity . . . . .	36
12.	Vandenberg Air Force Base Pressure . . . . .	39
13.	Vandenberg Air Force Base Vapor Pressure . . . . .	42
14.	Vandenberg Air Force Base Mixing Ratio . . . . .	45
15.	Vandenberg Air Force Base Density . . . . .	48
16.	Vandenberg Air Force Base Enthalpy . . . . .	51

## DISTRIBUTIONS OF EIGHT METEOROLOGICAL VARIABLES AT CAPE KENNEDY, FLORIDA AND VANDENBERG AIR FORCE BASE, CALIFORNIA

### I. INTRODUCTION

This document supersedes NASA TM X-53118 "Distribution of Surface Meteorological Data For Cape Kennedy, Florida," dated August 28, 1964.

The purpose of this report is to provide empirical distributions of several atmospheric parameters at the two Space Shuttle launch sites. It is expected that these statistics will be applicable to a number of natural environment related launch vehicle problems. However, each problem requires careful consideration to ensure the applicability of the statistics. For example, a design or operational constraint or hazardous condition might require the joint occurrence of two or more of the natural environment parameters — perhaps high temperature and high pressure at the same time. Since these parameters are not independent, no inferences can be made about the simultaneous occurrence. Another problem might require a mean temperature over a long time period — perhaps it takes 15 to 30 days for the solid rocket propellant to attain ambient air temperature. Since these statistics apply to a specific hour and month, they are not appropriate for such a problem.

Any small differences between extreme values listed here and those found in NASA TM X-64757, dated July 5, 1973, can be explained by different periods of record and different observation times. It is not intended that these statistics replace any current design values.

### II. DEFINITIONS AND COMMENTS

Tables 1 through 8 in this study are based upon recorded observations of temperature, dew point temperature, relative humidity, and station pressure at Cape Kennedy (28°29'N, 80°33'W) from 1957 to 1971, with minor gaps.

Tables 9 through 16 were compiled in a similar way for Vandenberg Air Force Base (34°44'N, 120°34'W) from an uninterrupted record dating from 1959 to 1970.

The definition of percentile value used in this study is as follows. The Pth percentile value equals the  $\frac{P(N+1)}{100}$  th of N observations, and P is allowed to be nonintegral. Thus, P is identical to cumulative frequency level, and the levels represented in the tables correspond to percentiles of  $\pm 1$ ,  $\pm 2$ , and  $\pm 3$  standard deviations from the center of a Gaussian distribution. The median value and the extremes are also tabulated. However, the -3 standard deviation percentile value cannot be calculated because of an inadequate number of cases.

Since the four observed variables have notable spikes in their frequency distributions, with but few occurrences between these preferred values, the data are necessarily smoothed before selecting percentile values. The method of smoothing in each case is to spread identical values evenly across an interval which extends halfway to the magnitudes of the adjacent parameter values. The resulting bias of this procedure is toward the wings, giving an underestimate at times of the lower percentile values and an occasional overestimate of the higher percentile values. However, the systematic error incurred is of minor consequence.

## A. Temperature

The temperature is reported in whole degrees Fahrenheit. Its percentile values are presented in degrees Celsius in Tables 1 and 9 for Cape Kennedy and Vandenberg, respectively.

Although only 6 degrees apart in latitude, the two sites have appreciably different climatic regimes. Cape Kennedy is subject to frontal passages from November to March, but its temperature is largely controlled by prevailing southeasterlies with their long oceanic trajectories over warm subtropical ocean waters and the Gulf Stream. Vandenberg, on the other hand, is affected by trough passages with their attendant precipitation occurrences, and with fewer incursions of polar air. The cold California current nearby is a moderator of climate in all seasons [1].

The diurnal cycle in temperature is quite prominent in the tables and the annual cycle is also evident, with important differences between the stations. The resulting temperature regime at Cape Kennedy finds the monthly median values ranging over an 11°C span and the annual absolute range attaining 40°C.



However, the highest temperature of just 35.6°C registered in June and July is indicative of maritime control in summer. In contrast, Vandenberg has monthly median values ranging over an interval of but 4°C, and its annual peak is typically attained in late summer or early fall when the cold current's effect is lessened somewhat by a persistent offshore wind.

As is true for all the tabulated variables, the absolute minima and maxima pertain to the hours specified. They are exceeded at times during the intervening hours.

## B. Dew Point Temperature

The dew point temperature is reported in whole degrees Fahrenheit. Its percentile values are presented in degrees Celsius in Tables 2 and 10 for Cape Kennedy and Vandenberg, respectively.

To a remarkable extent, the annual march of dew point temperature at each station follows that for temperature. Both sites are subject to periods outside of summer when this variable falls to -10°C to -15°C, but for different reasons. At Cape Kennedy, such dry spells are post-cold-frontal, whereas at Vandenberg they are usually caused by Santa Ana winds blowing toward the sea.

## C. Relative Humidity

The relative humidity is reported in whole percent. Its percentile values are presented in these units in Tables 3 and 11 for Cape Kennedy and Vandenberg, respectively.

The annual range of median values is about 15 percent at each site, with Vandenberg running a few percent higher in spring and summer because of persistent morning fogs. Saturation may occur in any month, and early morning values are commonly in the upper eighties or nineties at both sites. An excursion of relative humidity below 10 percent was observed at Vandenberg in November. This did not happen at Cape Kennedy during the period of record, but it was recorded there once in March [2].

## D. Station Pressure

The station pressure is reported in inches of mercury to tenths of an inch. Its percentile values are presented in newtons per square meter divided by 100, or millibars, in Tables 4 and 12 for Cape Kennedy and Vandenberg, respectively.

Inspection of the median values at each hour discloses the expected double diurnal cycle in pressure at both stations, with peaks at 1000 and 2200 and valleys at 0400 and 1600. The magnitude of this variation is 100 to 200 newtons per square meter.

A systematic pressure difference of about 1500 newtons per square meter exists between the two stations. Vandenberg, with its barograph at an elevation of 378 feet, has the lower station pressure; the Cape Kennedy barograph is at 16 feet.

The annual march of pressure is largely explained by the positioning and intensity of semipermanent centers of action such as the Bermuda High and the North Pacific Anticyclone. Major fluctuations of the order of a day are largely caused by migratory highs, lows, ridges, troughs, and (at Cape Kennedy) tropical depressions. No close passages of hurricanes are included in these statistics.

## E. Water Vapor Pressure

The water vapor pressure is computed from the relative humidity and the Goff-Gratch formulation [3] for saturated water vapor pressure. Its percentile values are given in newtons per square meter divided by 100, or millibars, in Tables 5 and 13 for Cape Kennedy and Vandenberg, respectively.

Median values of this variable at Cape Kennedy are about 150 percent of the median values at Vandenberg in winter and about 200 percent of the median values at Vandenberg in the other seasons. This agrees with the appreciably greater temperatures at Cape Kennedy which indicate a superior capacity to hold the water vapor which is usually abundantly available at either location.

A strong annual cycle and a weak diurnal cycle are present in this variable at both sites, in phase with the cycles in temperature.

## F. Water Vapor Mixing Ratio

The water vapor mixing ratio is calculated from the partial pressure of dry air and the water vapor pressure. Its percentile values are given in grams per kilogram in Tables 6 and 14 for Cape Kennedy and Vandenberg, respectively.

The comments on comparative values and cycles of water vapor pressure apply equally well to the water vapor mixing ratio.

## G. Density

The density is computed from the reported values of pressure and virtual temperature. Its percentile values are listed in grams per cubic meter in Tables 7 and 15 for Cape Kennedy and Vandenberg, respectively.

Lower temperatures at Vandenberg cause greater densities at this station than at Cape Kennedy, but the difference is largely balanced by the lower pressures at Vandenberg.

Annual and diurnal cycles are evident in density. These cycles have an inverse relationship to the temperature cycles.

## H. Enthalpy

Since heat transferred at constant pressure equals enthalpy change, the enthalpy is indicative of the heat content. It is computed from the virtual temperature, the water vapor mixing ratio, and the specific heat at constant volume for the mixture, in accordance with equation 9.11 in Jordan and Priester [4]. Its percentile values are given in joules per gram in Tables 8 and 16 for Cape Kennedy and Vandenberg, respectively.

The annual and diurnal variations of enthalpy are in accordance with the temperature cycles.



TABLE 1. (Continued)

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	TEMPERATURE (C)										ABS MAX
							15.900	50.000	84.100	95.000	97.720	99.000	99.865				
MAY	0100	310	8.3	13.0	14.0	16.2	19.0	20.8	23.5	22.7	22.5	24.1	24.8	25.0	25.0		
	0400	310	11.7	12.6	13.6	15.2	17.9	21.5	23.0	23.8	24.3	24.6	24.9	25.0			
	0700	310	14.4	15.7	16.6	18.4	20.9	23.2	24.8	25.5	25.6	26.2	26.6	26.7			
	1000	310	19.4	20.7	21.4	23.6	24.7	26.2	27.8	29.2	29.6	29.8	30.9	31.1			
	1300	309	18.9	20.9	21.7	23.6	25.0	26.9	29.1	30.6	31.5	32.0	34.0	34.4			
	1600	310	19.4	20.1	20.7	21.7	24.2	26.1	27.7	29.4	29.9	30.8	33.4	33.9			
	1900	310	18.3	19.4	19.9	20.7	22.1	23.9	25.3	26.1	26.5	27.0	29.0	29.4			
	2200	310	15.0	15.6	16.6	18.1	20.9	22.9	24.3	25.2	25.5	25.8	26.0	26.1			
	JUNE	0100	270	17.2	18.3	20.1	20.8	21.4	22.8	24.2	24.8	25.9	25.5	26.9	27.2		
		0400	270	13.9	17.4	18.0	18.8	20.6	21.8	23.7	24.0	25.0	24.8	25.9	26.1		
0700		270	20.6	21.1	21.9	22.4	23.2	24.8	25.9	26.9	27.5	28.2	29.2	29.4			
1000		270	22.2	22.9	24.0	25.4	26.3	28.0	29.5	30.4	30.7	31.2	32.0	32.2			
1300		270	21.1	22.5	23.2	24.5	26.5	28.5	30.3	31.6	32.4	33.3	34.2	34.4			
1600		270	20.0	21.0	21.9	22.9	25.3	27.7	29.8	30.8	32.1	34.4	35.4	35.6			
1900		270	21.1	21.4	22.0	22.7	23.5	25.6	27.0	28.0	28.3	30.1	32.4	32.8			
2200		270	18.3	20.9	21.1	21.4	22.7	23.8	25.7	26.6	27.1	27.5	28.2	28.3			
JULY		0100	279	18.3	19.1	20.9	20.6	22.2	23.3	25.8	26.3	25.9	26.7	28.0	28.3		
		0400	279	18.9	19.6	20.3	21.0	20.4	23.7	25.2	25.7	25.2	26.2	27.0	27.2		
	0700	279	21.7	21.9	23.2	23.8	24.5	25.9	27.0	27.7	28.4	28.9	28.9	28.9			
	1000	279	25.0	25.4	26.0	26.8	28.3	29.6	30.5	31.4	32.0	32.4	32.7	32.8			
	1300	278	22.2	23.4	24.0	25.6	28.8	30.0	32.0	32.7	33.1	33.7	35.3	35.6			
	1600	278	21.1	21.3	21.9	22.5	26.9	29.5	30.4	31.5	32.1	32.6	32.7	32.8			
	1900	278	21.1	21.8	22.6	23.2	24.5	26.8	27.8	29.0	29.4	29.9	29.9	30.0			
	2200	278	20.0	21.3	21.8	22.2	23.2	24.9	26.7	27.2	28.1	28.6	28.8	28.9			
	AUGUST	0100	278	19.4	20.2	20.8	21.8	22.6	24.1	25.4	26.3	26.8	27.1	27.1	27.2		
		0400	278	18.3	19.6	20.1	20.8	22.1	23.4	25.0	25.6	25.2	26.7	27.0	27.2		
0700		279	20.6	21.5	22.2	22.8	23.8	25.1	25.9	26.9	27.5	27.8	27.8	27.8			
1000		279	23.3	23.9	25.3	26.5	27.9	29.3	30.4	30.9	31.1	31.1	31.1	31.1			
1300		279	23.9	24.0	24.8	26.0	28.2	30.2	31.2	32.4	33.0	33.7	34.3	34.4			
1600		279	21.1	22.0	22.7	23.7	25.8	28.8	30.4	31.0	31.4	32.2	33.1	33.3			
1900		279	22.2	22.3	22.7	23.2	24.9	26.2	27.5	28.2	28.4	29.0	30.3	30.6			
2200		279	20.6	20.9	22.1	22.4	23.6	25.1	26.0	26.0	27.5	27.8	27.8	27.8			

TABLE 1. (Concluded)

HOUR	NUM OBS	ABS MIN	TEMPERATURE (C)											ABS MAX	
			0.135	1.000	2.280	5.000	15.000	50.000	80.000	95.000	97.500	99.000	99.855		
SEPTEMBER															
0100	270	18.5	19.1	20.3	21.4	23.0	24.4	25.2	27.1	27.2	27.2	27.2	27.2	27.2	27.2
0400	270	17.8	17.0	18.7	19.6	21.7	23.7	25.0	26.1	26.0	27.0	27.0	27.0	27.0	27.0
0700	270	20.0	20.2	20.5	21.5	23.0	24.3	25.1	27.0	27.6	27.6	27.6	27.6	27.6	27.6
1000	270	20.0	22.0	23.2	25.2	27.1	28.3	29.5	30.9	30.7	31.0	31.0	31.0	31.0	31.0
1300	269	21.1	23.5	24.2	25.2	27.3	29.2	30.7	31.4	31.6	32.1	32.1	32.1	32.1	32.1
1600	270	21.1	21.5	22.2	23.8	26.5	28.0	29.6	30.3	30.8	31.3	31.3	31.3	31.3	31.3
1900	270	20.6	21.9	22.4	23.1	24.1	25.6	27.0	27.5	27.6	27.7	27.7	27.7	27.7	27.7
2200	270	18.3	20.2	20.9	22.0	23.5	24.8	26.3	27.3	27.5	27.6	27.6	27.6	27.6	27.6
OCTOBER															
0100	279	10.6	12.1	14.4	15.6	18.3	22.7	25.1	26.0	26.3	26.9	26.9	26.9	26.9	26.9
0400	279	10.6	11.6	13.8	14.6	18.0	22.3	24.8	25.6	26.0	26.1	26.6	26.6	26.6	26.6
0700	279	11.1	12.0	12.7	14.8	18.1	22.3	24.9	25.7	26.1	26.7	26.7	26.7	26.7	26.7
1000	279	15.6	17.1	18.7	20.7	22.7	26.3	28.1	29.1	29.7	30.3	30.3	30.3	30.3	30.3
1300	279	17.8	18.8	20.8	21.8	24.3	27.3	29.0	30.0	30.8	31.8	31.8	31.8	31.8	31.8
1600	279	17.8	18.7	20.2	21.4	22.9	25.9	28.0	29.0	29.7	30.3	30.3	30.3	30.3	30.3
1900	279	10.0	14.3	15.9	17.7	20.7	23.8	25.7	26.8	27.5	27.9	28.2	28.2	28.2	28.2
2200	279	11.7	13.5	14.4	15.9	18.9	23.1	25.5	26.2	26.8	27.3	27.3	27.3	27.3	27.3
NOVEMBER															
0100	282	3.3	4.4	6.2	8.1	12.3	19.1	22.1	23.0	23.3	23.9	23.9	23.9	23.9	23.9
0400	282	3.9	4.9	6.2	7.9	11.7	18.5	21.8	22.8	23.2	23.5	23.5	23.5	23.5	23.5
0700	282	3.3	3.9	5.1	7.7	11.4	18.2	21.7	22.8	23.1	23.3	23.3	23.3	23.3	23.3
1000	282	6.1	7.2	9.5	13.5	18.2	22.5	24.7	26.0	26.6	27.3	27.3	27.3	27.3	27.3
1300	282	8.9	11.1	13.3	15.6	20.1	23.6	26.1	27.4	27.9	28.7	28.7	28.7	28.7	28.7
1600	282	8.9	11.7	13.6	15.5	19.1	22.9	25.2	26.6	27.4	28.1	28.1	28.1	28.1	28.1
1900	282	2.8	4.9	5.6	9.3	14.1	19.8	21.8	23.3	23.6	22.2	22.2	22.2	22.2	22.2
2200	282	1.7	2.1	6.2	6.6	11.6	18.1	22.0	21.2	23.1	22.5	22.5	22.5	22.5	22.5
DECEMBER															
0100	335	-0.6	1.2	2.0	4.4	7.9	15.5	19.5	21.2	22.2	22.7	22.7	22.7	22.7	22.7
0400	335	-3.3	-0.3	1.2	4.6	7.5	14.7	18.9	20.6	21.4	22.0	22.0	22.0	22.0	22.0
0700	336	-3.9	-2.4	1.6	3.9	7.2	13.7	18.9	20.6	21.3	22.0	22.0	22.0	22.0	22.0
1000	336	1.1	4.6	6.0	8.8	13.5	19.1	23.0	24.3	24.9	25.5	25.5	25.5	25.5	25.5
1300	336	4.4	8.4	9.2	12.1	15.7	21.1	24.2	25.9	26.8	27.3	27.3	27.3	27.3	27.3
1600	336	3.9	8.6	10.3	12.2	15.1	20.0	23.4	24.9	25.9	26.9	26.9	26.9	26.9	26.9
1900	335	1.7	2.8	4.0	7.0	10.1	16.9	20.5	22.4	22.8	23.0	23.0	23.0	23.0	23.0
2200	335	-1.1	1.3	2.4	4.3	8.8	16.2	19.8	21.7	22.5	22.8	22.8	22.8	22.8	22.8

// \*END

TABLE 2. CAPE KENNEDY DEW POINT TEMPERATURE

HOUR	NUM OBS	ABS MIN	DEW POINT TEMPERATURE (C)										ABS* MAX	
			0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000		99.865
JANUARY														
0100	341	-4.4		-4.0	-2.2	0.7	5.7	13.0	17.3	18.8	19.7	20.4	20.5	20.6
0400	341	-8.3	-4.2	-4.2	-2.6	0.4	5.1	12.5	16.8	18.8	19.5	20.2	20.5	20.6
0700	341	-8.3	-5.7	-4.3	-4.3	-0.7	4.6	12.2	16.4	18.4	19.3	19.6	20.8	21.0
1000	341	-10.0	-7.3	-3.9	-3.9	-1.5	4.2	12.7	16.0	19.6	18.8	18.5	20.7	21.1
1300	341	-12.8	-9.6	-5.7	-5.7	-1.9	4.5	12.6	16.0	17.1	18.8	18.4	21.2	21.7
1600	341	-11.1	-8.0	-4.1	-4.1	-1.7	4.4	13.0	16.0	17.1	18.9	18.5	20.7	21.1
1900	341	-8.9	-4.1	-1.8	-1.8	0.4	6.0	13.3	17.7	19.2	20.0	20.5	20.5	20.6
2200	341	-8.3	-3.6	-2.6	-2.6	0.5	5.1	13.1	17.6	19.3	20.0	20.5	20.5	20.6
FEBRUARY														
0100	310	-5.6	-4.0	-2.4	-2.4	0.1	5.0	12.3	17.6	19.4	20.0	20.3	20.5	20.6
0400	310	-8.9	-7.7	-2.8	-2.8	-0.0	4.4	12.2	17.2	18.8	19.5	20.1	20.5	20.6
0700	310	-11.1	-9.6	-6.8	-6.8	-2.3	1.5	12.0	15.7	16.9	16.5	18.6	20.3	20.6
1000	310	-8.9	-7.9	-5.6	-5.6	-1.4	4.8	13.4	18.3	20.1	20.5	21.3	22.0	22.2
1300	310	-10.6	-10.6	-8.2	-8.2	-3.7	3.1	11.6	17.7	18.4	17.9	20.1	21.4	21.7
1600	310	-9.4	-7.7	-5.4	-5.4	-0.9	5.0	12.7	18.0	20.1	20.5	21.1	21.6	21.7
1900	310	-8.3	-6.5	-3.7	-3.7	0.3	5.7	13.2	18.2	20.0	20.4	20.5	22.9	23.3
2200	310	-8.3	-5.3	-2.8	-2.8	0.6	5.0	12.6	18.0	19.8	20.3	20.5	21.0	21.1
MARCH														
0100	341	-3.9	-0.8	0.3	0.3	2.7	7.0	14.0	18.1	19.9	20.5	21.1	21.1	21.1
0400	341	-1.7	-1.7	-0.4	-0.4	2.3	6.3	13.7	17.9	19.7	20.1	21.0	21.6	21.7
0700	341	-9.4	-3.8	-2.2	-2.2	0.3	6.2	12.9	16.7	17.8	20.1	19.1	21.7	22.2
1000	341	-8.9	-3.3	-2.6	-2.6	0.3	5.9	14.3	19.2	20.7	21.5	22.3	22.7	22.8
1300	341	-8.3	-2.9	-1.5	-1.5	1.1	5.9	14.0	18.9	20.3	21.3	22.0	22.1	22.2
1600	341	-6.7	-3.7	-1.1	-1.1	1.0	6.2	14.1	19.0	20.3	21.2	21.5	23.5	23.9
1900	341	-7.2	-2.9	-0.3	-0.3	2.2	7.6	14.6	18.9	20.0	20.6	21.1	21.1	21.1
2200	341	-2.2	-1.0	0.5	0.5	2.2	7.3	14.4	18.4	20.1	21.0	21.3	21.6	21.7
APRIL														
0100	316	0.0	5.6	4.9	4.9	7.0	10.6	15.5	18.4	20.9	20.4	20.2	21.9	22.2
0400	316	1.1	5.3	7.1	7.1	8.3	12.0	16.7	19.7	20.9	21.4	21.7	21.7	21.7
0700	315	3.9	6.0	7.8	7.8	9.3	12.6	17.2	20.1	21.5	21.8	21.9	22.1	22.2
1000	315	4.4	5.3	7.7	7.7	8.8	12.5	17.0	20.0	21.6	22.1	22.5	22.7	22.8
1300	315	1.1	4.9	6.0	6.0	7.8	12.4	16.9	20.2	21.6	21.9	22.1	22.7	22.8
1600	315	4.4	6.1	7.2	7.2	9.2	12.5	17.1	20.2	21.8	22.3	22.7	23.7	23.9
1900	315	4.4	5.6	7.2	7.2	8.7	12.4	17.5	20.0	21.5	21.9	22.2	22.2	22.2
2200	315	4.4	5.9	7.2	7.2	8.5	12.3	17.5	20.0	21.3	21.7	21.9	22.1	22.2

\* For period of record.

TABLE 2. (Continued)

MONTH	HOUR	NUM OBS	ABS MIN	0.155	1.000	2.200	5.000	15.000	DEW POINT TEMPERATURE (C)										ABS MAX
									PERCENTILE										
									50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	
MAY	0100	210	6.1		10.8	11.5	13.2	15.0	17.9	20.4	22.5	22.2	22.0	23.1	23.03				
	0400	310	8.9		10.7	11.4	13.0	15.5	19.4	21.5	23.3	22.6	22.8	22.8	22.08				
	0700	310	10.0		11.5	13.3	14.9	17.4	20.5	22.4	23.1	23.3	23.4	24.2	24.04				
	1000	310	9.6		9.5	10.2	12.8	14.8	18.8	20.3	22.4	22.0	21.8	24.0	24.04				
	1300	310	6.7		9.7	10.3	12.8	14.9	18.9	21.3	22.1	21.9	23.1	24.2	24.04				
	1600	310	8.3		8.9	11.5	13.5	16.7	20.1	22.2	23.1	23.0	23.3	24.2	24.04				
	1900	310	6.7		10.7	12.0	13.4	15.8	18.3	21.5	22.2	22.0	21.8	23.6	23.9				
	2200	310	9.4		10.5	12.6	14.1	16.8	20.0	22.1	23.0	23.2	23.3	23.8	23.9				
	JUNE	0100	270	12.8		15.5	16.8	17.5	20.0	21.8	23.0	23.3	23.1	23.9	25.3	25.6			
		0400	270	11.7		14.4	16.6	17.9	19.3	21.1	22.1	23.4	23.2	24.0	24.3	24.4			
0700		270	15.6		16.2	18.3	19.6	21.7	23.1	24.2	25.0	25.3	25.7	26.0	26.1				
1000		270	13.9		15.5	18.5	19.4	20.9	22.6	24.0	24.8	25.1	25.4	25.5	25.6				
1300		270	14.4		15.5	18.1	19.1	21.1	22.7	24.1	24.7	25.2	25.8	26.0	26.1				
1600		269	14.4		16.4	17.8	19.3	20.9	22.6	24.0	24.7	25.1	25.5	26.5	26.7				
1900		270	14.4		15.9	17.6	18.9	20.9	22.4	23.7	24.4	24.7	24.8	25.4	25.6				
2200		270	14.4		15.9	17.2	19.1	20.7	22.3	23.5	24.2	24.6	24.8	25.1	25.6				
JULY		0100	279	17.2		19.5	19.9	20.7	21.5	23.0	23.8	24.7	24.8	25.1	25.5	25.6			
		0400	279	17.8		18.9	19.4	19.9	21.2	22.8	23.7	24.5	24.7	24.8	24.9	25.0			
	0700	279	21.1		21.2	22.2	22.4	23.0	23.7	24.8	25.2	25.4	25.5	25.5	25.6				
	1000	279	20.0		20.6	21.1	21.5	22.6	23.4	24.5	25.0	25.2	25.5	26.0	26.1				
	1300	278	19.4		19.9	20.9	21.3	22.5	23.4	24.6	25.1	25.4	26.0	26.6	26.7				
	1600	278	20.0		20.5	20.8	21.2	22.5	23.4	24.7	25.2	25.5	25.6	26.5	26.7				
	1900	278	18.9		19.3	20.6	21.1	22.3	23.3	24.4	24.9	25.1	25.2	25.5	25.6				
	2200	278	18.3		19.8	20.9	21.2	21.7	23.1	23.9	24.7	24.9	25.2	25.5	25.6				
	AUGUST	0100	278	18.9		19.4	19.8	20.6	21.6	22.8	23.8	24.5	24.9	25.2	25.5	25.6			
		0400	278	18.3		18.9	19.6	20.0	21.0	22.6	23.6	24.3	24.5	24.5	25.4	25.6			
0700		279	19.4		20.0	21.4	21.6	22.6	23.6	24.5	25.1	25.2	25.3	26.0	26.1				
1000		279	19.4		20.5	20.8	21.6	22.5	23.6	24.5	25.2	25.4	25.5	26.0	26.1				
1300		279	19.4		19.8	20.5	21.1	22.4	23.5	24.5	25.2	25.4	25.5	26.0	26.1				
1600		279	17.8		19.1	20.2	21.4	21.8	22.9	24.0	24.7	24.6	25.0	25.9	26.1				
1900		279	18.3		20.6	21.0	21.5	22.4	23.4	24.4	25.1	25.2	25.4	25.5	25.6				
2200		279	18.3		18.9	20.0	20.9	22.2	23.3	24.3	24.5	24.5	25.2	25.5	25.6				



TABLE 2. (Concluded)

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	DEW POINT TEMPERATURE (C)										ABS MAX
						5.000	15.900	50.000	84.100	95.000	97.720	99.000	99.865			
SEPTEMBER																
0100	270	11.7		16.5	17.3	19.0	20.6	22.4	23.7	23.9	24.5	24.9	25.5	25.6		
0400	270	15.6		16.1	17.4	18.2	20.1	21.8	22.5	24.2	23.9	24.4	25.4	25.6		
0700	270	17.2		17.2	18.6	20.4	21.6	23.2	24.5	25.0	25.3	25.4	25.5	25.6		
1000	270	16.1		17.8	18.5	20.0	21.7	23.0	24.5	25.0	25.2	25.4	26.5	26.7		
1300	269	16.1		17.0	18.3	19.9	21.1	23.0	24.5	25.0	25.2	25.4	26.5	26.1		
1600	270	15.0		16.7	18.5	18.7	20.4	22.1	24.1	24.4	25.0	24.8	25.9	25.6		
1900	270	12.2		17.5	18.5	19.8	20.5	22.2	23.5	23.9	24.5	24.2	25.4	25.6		
2200	270	11.1		18.0	18.4	19.8	20.6	22.3	23.5	23.8	24.4	25.0	25.5	25.6		
OCTOBER																
0100	279	6.7		8.0	9.5	11.5	15.1	19.8	22.6	23.8	24.5	25.3	25.5	25.6		
0400	279	6.1		7.6	8.6	11.2	14.9	19.6	22.4	23.5	23.8	24.6	24.9	25.0		
0700	279	5.6		8.0	9.1	11.0	14.9	19.7	22.4	23.5	23.8	24.6	25.4	25.6		
1000	279	1.7		8.0	8.6	9.5	13.5	19.0	22.7	23.6	24.8	24.1	26.3	26.7		
1300	279	1.7		8.1	9.2	9.9	14.1	19.0	22.7	23.5	23.0	24.7	25.4	25.6		
1600	279	1.7		7.0	7.8	11.1	13.7	19.1	22.6	23.8	23.0	24.4	24.9	25.0		
1900	279	5.5		7.7	9.4	11.2	14.9	19.9	22.9	23.8	24.6	25.0	25.0	25.0		
2200	279	5.6		7.7	10.2	11.3	14.8	19.7	22.7	23.8	24.7	25.0	25.0	25.0		
NOVEMBER																
0100	282	-3.3		-1.8	-0.1	2.4	9.6	15.6	19.5	21.3	23.1	22.5	23.7	23.9		
0400	282	-5.0		-3.4	-1.0	2.7	9.5	15.5	19.1	21.1	21.8	22.5	22.7	22.8		
0700	282	-7.2		-5.9	-1.5	1.9	8.6	14.9	18.8	19.5	21.3	20.3	22.9	23.3		
1000	282	-6.1		-5.9	-0.5	3.2	9.7	16.1	20.0	20.9	20.2	22.0	22.6	22.8		
1300	282	-7.2		-3.4	-2.3	3.1	10.0	14.1	17.9	20.9	20.3	22.1	23.1	23.3		
1600	282	-8.9		-2.7	-1.8	2.2	7.9	14.1	17.8	20.8	20.2	22.0	23.6	23.9		
1900	282	-3.9		-0.9	1.0	4.0	9.7	15.9	19.8	21.3	22.5	23.3	23.8	23.9		
2200	282	-6.1		-1.3	-0.1	2.1	8.2	14.4	18.2	19.1	20.8	20.3	22.4	22.8		
DECEMBER																
0100	335	-8.3		-7.3	-4.6	-1.8	2.9	10.9	17.3	18.4	17.6	19.6	20.9	21.1		
0400	335	-8.9		-8.8	-5.7	-5.1	1.5	10.1	13.6	17.2	16.5	16.2	20.4	21.1		
0700	336	-10.6		-8.6	-6.1	-3.8	3.3	11.7	15.1	18.6	17.9	17.7	20.6	21.1		
1000	336	-13.9		-8.3	-5.9	-1.8	5.1	13.1	16.5	20.2	19.0	20.9	22.5	22.8		
1300	336	-10.6		-8.6	-4.0	-1.3	3.9	11.6	15.2	18.5	17.8	19.9	21.4	21.7		
1600	336	-11.7		-5.9	-4.7	-0.0	5.0	13.1	16.5	19.8	19.2	18.9	21.3	21.7		
1900	335	-7.2		-4.1	-1.1	-0.0	5.7	13.8	18.5	20.6	21.2	21.4	21.6	21.7		
2200	335	-7.2		-4.6	-2.7	0.2	4.9	13.7	18.2	19.9	20.6	21.2	21.6	21.7		

// \*END

TABLE 3. CAPE KENNEDY RELATIVE HUMIDITY

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	RELATIVE HUMIDITY (PERCENT)						95.000	97.720	99.000	99.865	ABS MAX
						5.000	15.900	50.000	84.100	96.4	99.1					
<b>JANUARY</b>																
0100	341	42.0		52.9	58.6	64.6	75.2	90.9	96.4	99.1	100.0	100.0	100.0	100.0	100.0	100.0
0400	341	45.0		57.2	59.9	65.3	76.6	91.4	97.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
0700	341	54.0		56.4	60.4	64.4	75.1	91.2	97.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
1000	341	37.0		42.7	45.0	50.7	60.0	74.7	88.3	95.1	97.1	98.6	99.8	99.8	100.0	100.0
1300	341	22.0		23.8	31.7	39.4	43.4	63.1	74.5	84.2	88.6	87.7	98.3	98.3	100.0	100.0
1600	341	23.0		28.0	31.4	40.9	52.1	68.1	82.2	89.6	92.5	93.7	95.6	95.6	96.0	96.0
1900	341	44.0		48.0	52.6	58.3	68.2	84.7	93.2	96.6	98.1	99.6	99.9	99.9	100.0	100.0
2200	341	50.0		51.8	54.7	61.5	74.3	88.8	95.4	97.7	99.5	100.0	100.0	100.0	100.0	100.0
<b>FEBRUARY</b>																
0100	310	38.0		54.3	59.0	63.8	74.8	89.3	96.1	98.8	99.9	100.0	100.0	100.0	100.0	100.0
0400	310	35.0		48.4	52.2	64.7	76.8	91.6	96.7	99.2	100.0	100.0	100.0	100.0	100.0	100.0
0700	310	34.0		49.5	57.7	65.1	77.1	92.0	97.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0
1000	310	33.0		36.9	40.5	46.4	56.0	72.0	87.8	95.5	97.4	99.3	99.9	99.9	100.0	100.0
1300	310	19.0		25.6	23.7	27.3	41.3	58.3	74.3	89.5	91.8	96.5	99.5	99.5	100.0	100.0
1600	310	21.0		26.1	24.2	27.1	46.4	61.3	79.8	88.0	92.2	90.9	98.7	98.7	100.0	100.0
1900	310	32.0		39.3	42.9	50.5	65.8	82.3	92.2	96.3	97.8	99.5	99.9	99.9	100.0	100.0
2200	310	42.0		49.2	53.0	58.6	69.4	87.6	95.0	98.2	99.6	100.0	100.0	100.0	100.0	100.0
<b>MARCH</b>																
0100	341	37.0		46.5	53.5	61.5	71.6	87.4	95.9	98.5	99.9	100.0	100.0	100.0	100.0	100.0
0400	341	26.0		51.3	55.8	63.2	75.4	90.1	96.7	99.5	100.0	100.0	100.0	100.0	100.0	100.0
0700	341	44.0		46.8	53.2	60.3	74.0	90.4	96.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0
1000	341	26.0		32.7	35.4	40.5	51.3	66.3	84.3	93.4	96.5	98.0	99.7	99.7	100.0	100.0
1300	341	25.0		27.6	30.3	35.7	44.0	60.9	78.0	89.0	94.5	96.8	99.5	99.5	100.0	100.0
1600	341	21.0		23.4	26.0	33.0	47.0	58.1	80.1	89.5	92.6	97.2	99.6	99.6	100.0	100.0
1900	341	30.0		33.4	39.0	48.6	61.4	81.5	91.6	95.8	98.2	99.6	99.9	99.9	100.0	100.0
2200	341	34.0		49.1	52.2	57.1	68.2	86.2	94.2	97.6	99.5	100.0	100.0	100.0	100.0	100.0
<b>APRIL</b>																
0100	316	37.0		43.9	51.6	58.0	72.4	86.2	93.9	97.2	98.7	99.9	99.9	99.9	100.0	100.0
0400	316	42.0		49.6	53.1	58.0	73.1	89.7	95.3	98.4	99.7	100.0	100.0	100.0	100.0	100.0
0700	315	48.0		51.5	53.7	57.4	68.3	88.1	95.7	98.1	99.6	100.0	100.0	100.0	100.0	100.0
1000	315	35.0		39.6	41.2	45.7	53.3	69.0	75.2	84.2	88.7	93.2	99.0	99.0	100.0	100.0
1300	315	23.0		28.8	31.7	38.4	48.6	56.5	65.6	81.1	82.7	93.6	99.1	99.1	100.0	100.0
1600	315	22.0		34.9	38.1	41.9	47.5	59.5	74.4	82.4	90.2	93.9	99.1	99.1	100.0	100.0
1900	315	38.0		38.6	47.8	51.8	62.1	78.2	87.0	91.8	95.1	97.0	99.6	99.6	100.0	100.0
2200	315	48.0		49.6	51.8	55.6	68.5	83.5	92.1	96.5	97.9	99.5	99.9	99.9	100.0	100.0

\* For period of record.

TABLE 3. (Continued)

HOUR	NUM ORS	ABS MIN	0.135	1.000	2.280	RELATIVE HUMIDITY (PERCENT)							ABS MAX
						5.000	15.900	50.000	84.100	95.000	97.720	99.000	
MAY													
0100	310	56.0	61.6	64.7	67.2	76.2	87.6	94.8	97.5	98.8	100.0	100.0	
0400	310	52.0	64.3	67.8	71.8	80.4	90.4	96.5	99.0	100.0	100.0	100.0	
0700	310	51.0	59.7	62.7	65.9	75.4	84.5	93.0	96.1	97.2	97.8	100.0	
1000	310	37.0	42.7	45.6	48.9	55.1	65.8	75.1	80.1	82.8	87.1	100.0	
1300	310	31.0	36.4	38.4	43.8	53.2	64.4	73.3	82.7	87.4	93.2	100.0	
1600	310	28.0	34.6	37.3	43.8	52.2	60.9	73.7	86.4	88.9	93.2	97.0	
1900	310	40.0	50.0	56.6	60.6	67.7	78.1	87.8	93.6	96.1	98.2	100.0	
2200	310	57.0	60.3	64.1	66.8	72.7	84.9	92.2	96.2	97.3	97.8	100.0	
JUNE													
0100	270	64.0	65.4	70.2	73.7	82.4	90.8	95.6	97.7	98.9	100.0	100.0	
0400	270	61.0	65.1	73.7	83.0	95.6	99.1	97.2	98.5	99.8	100.0	100.0	
0700	270	60.0	64.0	66.8	70.8	81.1	89.1	94.1	97.2	98.0	99.8	100.0	
1000	270	46.0	48.6	58.0	60.1	63.4	71.3	79.4	85.9	89.8	93.3	100.0	
1300	270	42.0	47.1	50.7	54.8	61.2	69.5	77.4	84.9	94.9	97.7	100.0	
1600	270	35.0	42.8	50.0	55.5	64.0	72.9	86.8	94.0	97.0	98.6	100.0	
1900	270	45.0	56.5	60.4	66.9	74.1	82.6	91.2	96.5	97.3	98.5	100.0	
2200	270	59.0	64.1	68.0	73.0	81.1	89.8	95.0	97.3	97.9	99.2	100.0	
JULY													
0100	279	74.0	77.3	81.5	82.5	86.7	92.2	97.2	98.3	98.5	99.9	100.0	
0400	279	82.0	83.0	84.5	86.2	89.2	94.7	98.0	99.7	100.0	100.0	100.0	
0700	277	74.0	76.8	77.4	78.5	84.5	89.2	95.4	97.5	98.1	98.5	100.0	
1000	279	55.0	56.2	59.2	60.9	65.2	71.1	77.4	82.2	86.0	88.0	100.0	
1300	278	47.0	48.6	50.7	54.3	61.1	68.4	76.5	87.6	91.6	96.7	100.0	
1600	278	52.0	55.9	59.7	61.2	65.8	72.5	83.1	95.3	98.3	99.9	100.0	
1900	278	59.0	67.5	70.2	72.1	76.9	82.8	89.2	96.6	98.2	99.7	100.0	
2200	278	70.0	73.0	77.0	78.3	84.9	89.6	95.4	97.7	98.4	99.7	100.0	
AUGUST													
0100	278	67.0	77.3	80.9	84.2	88.4	93.2	98.0	99.0	100.0	100.0	100.0	
0400	278	74.0	78.5	84.9	86.5	90.9	96.4	98.5	100.0	100.0	100.0	100.0	
0700	279	72.0	75.8	81.1	85.3	89.5	92.9	97.6	98.5	99.3	100.0	100.0	
1000	279	59.0	60.0	61.6	62.8	66.6	72.1	77.8	82.4	86.3	96.9	100.0	
1300	279	48.0	47.9	51.9	56.3	62.2	68.7	75.5	86.0	92.3	93.8	97.0	
1600	279	50.0	52.0	57.6	61.5	67.1	73.3	86.2	93.9	97.0	97.0	97.0	
1900	279	63.0	68.1	72.7	75.2	78.9	86.7	91.1	95.8	97.0	97.0	97.0	
2200	279	64.0	74.5	78.1	80.6	85.9	91.0	96.5	98.1	98.5	99.0	100.0	

TABLE 3. (Concluded)

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	RELATIVE HUMIDITY (PERCENT)								ABS MAX
						5.000	15.900	50.000	84.100	95.000	97.720	99.000	99.865	
SEPTEMBER														
0100	270	57.0		66.7	68.9	71.9	79.6	89.2	96.5	98.2	99.5	100.0	100.0	100.0
0400	270	61.0		58.5	71.4	74.7	82.6	90.8	97.6	99.5	100.0	100.0	100.0	100.0
0700	270	61.0		67.5	72.6	76.3	81.3	91.3	97.2	98.8	99.9	100.0	100.0	100.0
1000	270	53.0		56.3	59.2	61.6	65.5	73.1	80.5	90.0	94.3	98.7	99.8	100.0
1300	270	40.0		49.2	52.9	56.2	60.7	70.3	77.0	88.5	94.0	97.0	99.5	100.0
1600	270	44.0		53.7	56.4	59.1	65.4	73.4	83.2	94.3	97.4	98.7	99.8	100.0
1900	270	53.0		65.1	67.2	69.6	76.1	83.4	91.2	96.8	98.0	99.5	99.9	100.0
2200	270	53.0		65.1	68.1	71.6	77.9	88.4	95.8	98.1	99.4	100.0	100.0	100.0
OCTOBER														
0100	279	48.0		51.5	59.3	61.6	70.0	88.5	95.5	97.7	98.7	100.0	100.0	100.0
0400	279	50.0		56.0	58.3	62.4	71.1	90.1	96.7	98.9	100.0	100.0	100.0	100.0
0700	279	53.0		54.7	58.8	62.4	71.0	90.7	97.0	99.3	100.0	100.0	100.0	100.0
1000	279	34.0		44.1	41.9	52.8	53.1	64.4	76.1	87.5	90.3	93.5	99.1	100.0
1300	279	32.0		35.6	41.4	42.3	51.3	63.7	73.3	82.8	92.2	89.9	96.0	97.0
1600	279	25.0		33.8	42.1	44.6	54.5	65.3	78.4	87.7	90.5	93.5	99.1	100.0
1900	279	46.0		48.7	55.3	60.2	66.8	79.8	91.4	95.1	96.9	98.0	99.7	100.0
2200	279	45.0		54.3	57.5	61.1	68.1	83.6	93.8	97.1	97.9	99.2	99.8	100.0
NOVEMBER														
0100	282	44.0		47.7	51.2	58.2	67.4	88.7	95.8	98.3	99.8	100.0	100.0	100.0
0400	282	43.0		46.9	52.5	59.0	69.2	89.5	96.6	98.9	100.0	100.0	100.0	100.0
0700	282	42.0		46.9	55.0	60.4	70.2	89.7	97.1	99.6	100.0	100.0	100.0	100.0
1000	282	35.0		40.0	44.2	49.1	56.3	67.9	81.9	89.7	93.5	96.3	99.5	100.0
1300	282	27.0		29.4	32.1	33.3	47.7	59.6	71.2	81.7	83.4	86.0	97.2	99.0
1600	282	26.0		29.4	32.4	34.6	45.7	62.2	74.1	82.6	90.1	92.8	99.0	100.0
1900	282	47.0		48.0	51.2	55.4	64.7	81.8	92.4	96.5	97.5	99.0	99.8	100.0
2200	282	44.0		46.2	54.1	59.5	66.9	84.7	94.8	97.5	99.1	100.0	100.0	100.0
DECEMBER														
0100	335	47.0		51.2	54.6	59.8	72.5	90.2	96.3	99.0	100.0	100.0	100.0	100.0
0400	335	44.0		51.3	54.9	61.7	73.4	91.3	96.9	99.5	100.0	100.0	100.0	100.0
0700	336	42.0		52.0	56.6	60.6	75.8	91.3	97.1	99.7	100.0	100.0	100.0	100.0
1000	336	27.0		31.9	35.7	44.5	56.1	71.4	84.5	93.8	97.4	99.3	99.9	100.0
1300	336	27.0		28.3	30.8	34.6	48.1	62.6	78.1	85.9	93.4	96.2	99.4	100.0
1600	336	24.0		28.6	31.4	37.8	68.1	88.1	96.6	98.0	92.8	94.8	99.3	100.0
1900	335	46.0		49.5	51.7	55.8	69.1	84.6	93.4	96.7	97.6	99.3	99.9	100.0
2200	335	43.0		50.2	53.7	59.6	70.9	87.8	94.8	97.5	99.3	100.0	100.0	100.0

// \*END

TABLE 4. CAPE KENNEDY PRESSURE

HOUR	NUM OBS	ABS MIN	PRESSURE (INT/SQ M/100)							ABS MAX			
			0.135	1.000	2.280	5.000	15.900	50.000	84.100		95.000	97.720	99.000
JANUARY													
0100	341	1004.0	1005.7	1007.2	1008.7	1014.2	1019.7	1024.0	1026.0	1027.3	1028.7	1031.5	1032.0
0400	341	1002.0	1004.7	1006.2	1008.4	1013.7	1019.3	1023.4	1025.7	1026.7	1028.7	1031.5	1032.0
0700	341	999.0	1005.0	1006.8	1007.1	1011.7	1017.0	1022.6	1023.7	1025.3	1026.7	1032.2	1033.0
1000	341	999.0	1005.1	1005.7	1011.2	1013.4	1019.0	1024.2	1025.4	1026.8	1030.4	1033.5	1034.0
1300	341	1000.0	1004.7	1007.1	1009.6	1013.8	1019.7	1024.2	1026.0	1027.7	1030.0	1033.4	1034.0
1600	341	1001.0	1003.6	1006.4	1008.7	1012.6	1018.7	1023.4	1025.2	1027.0	1028.7	1028.9	1029.0
1900	341	1004.0	1005.3	1007.1	1009.8	1013.5	1019.5	1024.0	1026.1	1027.6	1028.9	1032.4	1033.0
2200	341	1005.0	1006.1	1007.1	1010.3	1014.5	1020.4	1024.7	1026.3	1028.5	1029.3	1032.5	1033.0
FEBRUARY													
0100	310	1003.0	1006.1	1007.1	1007.9	1011.9	1017.4	1023.1	1025.0	1026.5	1027.3	1029.7	1032.0
0400	310	1003.0	1005.0	1006.4	1007.5	1011.3	1016.9	1021.5	1024.3	1025.7	1026.8	1027.3	1032.0
0700	310	1003.0	1006.1	1006.6	1007.8	1011.9	1017.6	1023.6	1025.2	1026.5	1027.0	1029.6	1032.0
1000	310	1003.0	1005.4	1007.6	1008.9	1012.8	1018.8	1023.6	1026.6	1027.7	1028.5	1029.8	1033.0
1300	310	1002.0	1003.8	1006.4	1007.7	1011.5	1017.6	1023.4	1025.5	1026.3	1027.6	1029.6	1033.0
1600	310	1001.0	1002.8	1004.0	1006.6	1010.0	1016.3	1021.1	1024.8	1025.8	1026.4	1028.6	1029.0
1900	310	1002.0	1006.1	1006.1	1007.5	1011.3	1016.8	1021.8	1025.0	1026.4	1027.2	1029.6	1030.0
2200	310	1004.0	1006.1	1007.1	1008.0	1012.2	1017.6	1023.3	1025.8	1026.9	1027.7	1029.7	1030.0
MARCH													
0100	341	1004.0	1005.5	1006.4	1007.9	1011.5	1017.3	1021.7	1025.4	1026.7	1027.6	1027.9	1028.0
0400	341	1002.0	1003.6	1005.3	1007.6	1010.5	1016.5	1020.9	1024.5	1025.3	1026.5	1026.9	1027.0
0700	341	1003.0	1006.2	1007.3	1008.6	1011.6	1017.5	1022.1	1025.5	1026.7	1027.6	1028.3	1029.5
1000	341	1004.0	1006.3	1007.6	1008.9	1012.5	1018.7	1023.6	1026.7	1028.2	1029.3	1030.7	1031.0
1300	341	1003.0	1005.0	1006.5	1008.3	1011.5	1017.7	1022.5	1025.9	1027.7	1028.6	1029.8	1030.0
1600	341	1001.0	1002.8	1004.9	1007.3	1010.0	1016.3	1021.3	1024.6	1026.8	1027.8	1027.9	1028.0
1900	341	999.0	1003.0	1003.8	1006.6	1011.0	1015.5	1020.6	1022.4	1023.8	1027.1	1028.7	1029.0
2200	341	1002.0	1005.7	1006.9	1008.8	1011.8	1017.6	1022.3	1025.9	1027.2	1028.5	1029.8	1030.0
APRIL													
0100	316	1004.0	1006.6	1007.8	1009.3	1012.6	1017.3	1021.0	1023.7	1024.6	1026.4	1027.7	1028.0
0400	316	1002.0	1005.7	1007.3	1008.6	1012.4	1016.4	1020.4	1022.6	1023.8	1025.1	1027.6	1028.0
0700	315	1001.0	1007.6	1008.8	1009.8	1013.2	1017.6	1021.6	1024.1	1024.9	1026.4	1028.6	1029.0
1000	315	1002.0	1007.5	1009.0	1010.6	1014.1	1018.6	1022.6	1025.3	1026.6	1027.3	1029.6	1030.0
1300	315	1001.0	1005.7	1007.7	1009.3	1012.9	1017.7	1022.0	1024.6	1026.0	1027.1	1029.6	1030.0
1600	315	1000.0	1002.8	1005.9	1006.8	1010.6	1015.6	1018.9	1021.6	1022.7	1024.1	1028.3	1029.0
1900	315	1003.0	1005.7	1006.7	1008.7	1012.0	1016.8	1020.8	1023.4	1024.5	1025.2	1027.6	1028.0
2200	316	1005.0	1006.9	1008.6	1009.7	1013.1	1017.7	1021.7	1024.2	1025.1	1026.8	1028.7	1029.0

\* For period of record.

TABLE 4. (Continued)

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	PRESSURE (INT/SQ M/100)					95.000	97.720	99.000	99.865	ABS	
							PERCENTILE									15.900	84.100
<b>MAY</b>																	
0100	310	1004.0	1005.9	1007.3	1008.9	1012.4	1015.7	1019.1	1020.7	1021.7	1022.7	1022.9	1023.0	1023.0	1023.0	1023.0	1023.0
0400	310	1003.0	1005.9	1006.6	1008.6	1011.6	1015.3	1018.5	1020.4	1021.3	1022.2	1022.8	1023.0	1023.0	1023.0	1023.0	1023.0
0700	310	1004.0	1005.9	1007.4	1009.9	1012.8	1016.2	1019.6	1021.4	1022.7	1023.7	1023.9	1024.0	1024.0	1024.0	1024.0	1024.0
1000	310	1004.0	1005.9	1008.3	1010.2	1013.6	1016.8	1020.5	1022.4	1023.5	1024.5	1024.9	1025.0	1025.0	1025.0	1025.0	1025.0
1300	310	1003.0	1004.8	1006.9	1009.1	1012.9	1016.3	1019.9	1021.7	1023.3	1024.4	1024.9	1025.0	1025.0	1025.0	1025.0	1025.0
1600	310	1002.0	1003.9	1004.9	1007.7	1011.7	1015.4	1018.8	1020.5	1021.7	1022.9	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
1900	310	1004.0	1004.5	1005.0	1008.0	1011.9	1015.6	1018.7	1020.6	1021.6	1022.9	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
2200	310	1005.0	1006.0	1007.4	1009.2	1012.8	1016.2	1019.7	1021.6	1022.7	1023.5	1023.9	1024.0	1024.0	1024.0	1024.0	1024.0
<b>JUNE</b>																	
0100	270	997.0	1005.7	1008.3	1010.0	1011.8	1015.1	1017.8	1019.3	1021.1	1022.4	1024.6	1025.0	1025.0	1025.0	1025.0	1025.0
0400	270	996.0	1002.8	1007.8	1009.2	1011.0	1014.2	1017.3	1018.9	1019.9	1021.7	1023.6	1024.0	1024.0	1024.0	1024.0	1024.0
0700	270	997.0	1001.5	1008.8	1010.3	1012.2	1015.5	1018.2	1020.1	1021.4	1023.0	1024.7	1025.0	1025.0	1025.0	1025.0	1025.0
1000	270	997.0	1003.1	1009.4	1010.9	1012.7	1016.1	1019.1	1020.8	1022.2	1024.0	1025.7	1026.0	1026.0	1026.0	1026.0	1026.0
1300	270	997.0	1004.4	1008.7	1010.2	1012.2	1015.4	1018.7	1020.5	1021.5	1024.0	1025.7	1026.0	1026.0	1026.0	1026.0	1026.0
1600	270	996.0	1004.4	1008.0	1009.1	1011.4	1014.3	1017.7	1019.5	1020.9	1022.4	1024.6	1025.0	1025.0	1025.0	1025.0	1025.0
1900	270	997.0	1006.7	1008.1	1009.2	1011.6	1014.6	1017.8	1019.5	1020.7	1022.4	1024.6	1025.0	1025.0	1025.0	1025.0	1025.0
2200	270	998.0	1007.9	1009.1	1010.4	1012.3	1015.6	1018.6	1020.3	1021.5	1023.7	1024.8	1025.0	1025.0	1025.0	1025.0	1025.0
<b>JULY</b>																	
0100	279	1008.0	1009.8	1011.1	1011.6	1013.7	1016.5	1019.4	1020.5	1021.3	1021.7	1023.6	1024.0	1024.0	1024.0	1024.0	1024.0
0400	279	1007.0	1009.4	1010.7	1011.0	1013.3	1016.0	1017.5	1019.9	1019.4	1021.2	1022.7	1023.0	1023.0	1023.0	1023.0	1023.0
0700	279	1009.0	1010.1	1011.8	1013.0	1015.0	1017.2	1019.4	1021.0	1021.5	1022.2	1022.8	1023.0	1023.0	1023.0	1023.0	1023.0
1000	279	1009.0	1010.7	1012.3	1013.8	1015.6	1018.0	1020.2	1021.9	1022.5	1023.5	1023.9	1024.0	1024.0	1024.0	1024.0	1024.0
1300	278	1009.0	1010.6	1011.8	1013.1	1015.1	1017.5	1019.9	1021.4	1022.2	1022.6	1023.8	1024.0	1024.0	1024.0	1024.0	1024.0
1600	278	1009.0	1009.9	1011.1	1011.9	1014.1	1016.5	1018.8	1020.3	1020.7	1021.3	1022.7	1023.0	1023.0	1023.0	1023.0	1023.0
1900	278	1009.0	1009.9	1011.2	1012.4	1014.2	1016.6	1019.0	1020.3	1020.8	1021.3	1022.7	1023.0	1023.0	1023.0	1023.0	1023.0
2200	278	1010.0	1011.2	1012.3	1013.2	1015.0	1017.4	1019.8	1021.3	1021.8	1022.5	1023.8	1024.0	1024.0	1024.0	1024.0	1024.0
<b>AUGUST</b>																	
0100	278	1007.0	1009.5	1009.8	1010.7	1012.8	1016.0	1018.5	1019.8	1020.3	1020.7	1020.9	1021.0	1021.0	1021.0	1021.0	1021.0
0400	278	1006.0	1008.1	1008.8	1009.9	1012.0	1015.2	1017.6	1018.9	1019.6	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0
0700	279	1007.0	1009.1	1009.8	1010.7	1013.1	1016.2	1018.5	1019.8	1020.3	1020.7	1020.9	1021.0	1021.0	1021.0	1021.0	1021.0
1000	279	1007.0	1010.2	1010.6	1011.3	1014.0	1017.0	1019.6	1021.1	1021.7	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0
1300	279	1007.0	1009.3	1009.8	1010.7	1013.3	1016.5	1019.2	1020.4	1021.0	1021.8	1021.9	1022.0	1022.0	1022.0	1022.0	1022.0
1600	279	1006.0	1008.4	1009.0	1009.5	1012.2	1015.4	1017.7	1019.0	1019.7	1020.5	1020.9	1021.0	1021.0	1021.0	1021.0	1021.0
1900	279	1005.0	1007.5	1009.4	1008.8	1012.0	1014.5	1017.8	1017.8	1018.6	1020.4	1020.9	1021.0	1021.0	1021.0	1021.0	1021.0
2200	279	1006.0	1009.5	1010.1	1011.3	1013.6	1016.4	1019.4	1020.2	1020.8	1021.4	1021.9	1022.0	1022.0	1022.0	1022.0	1022.0



TABLE 5. CAPE KENNEDY VAPOR PRESSURE

HOUR	NUM OBS	ABS MIN	0.135	1,000	2.220	VAPOR PRESSURE (MT/SQ M/100)					95.000	97.720	99.000	99.865	ABS MAX
						5.000	15.900	50.000	84.100	95.000					
JANUARY															
0100	341	3.0		4.7	5.1	6.5	9.2	15.1	20.1	22.3	23.6	24.2	24.7	24.7	24.7
0400	341	3.3		4.6	5.0	6.1	8.9	14.7	19.4	22.2	23.3	24.1	24.6	24.7	24.7
0700	341	3.3		3.8	4.4	5.7	8.5	14.3	19.0	21.7	22.4	23.4	24.0	24.1	24.1
1000	341	2.4		3.9	4.6	5.5	9.7	15.7	21.4	23.6	24.9	25.3	25.6	25.7	25.7
1300	342	2.4		3.3	4.7	6.2	9.9	16.2	21.9	24.0	24.7	25.9	26.5	26.6	26.6
1600	341	2.6		3.6	4.6	5.9	9.6	15.7	21.5	23.5	24.4	24.9	25.5	25.6	25.6
1900	341	3.0		4.6	5.1	6.2	9.5	15.4	20.7	22.9	23.8	24.4	24.8	24.9	24.9
2200	341	3.3		4.6	5.1	6.3	8.9	15.1	20.3	22.7	24.0	24.5	24.8	24.9	24.9
FEBRUARY															
0100	310	2.8		4.3	4.9	6.3	8.8	14.7	20.6	23.1	23.8	24.4	24.8	24.9	24.9
0400	310	3.2		3.5	4.6	5.9	8.4	14.5	20.4	22.2	23.2	23.7	24.7	24.9	24.9
0700	310	2.7		3.6	4.4	5.9	8.2	14.7	20.2	21.9	22.7	23.4	24.6	24.7	24.7
1000	310	3.0		3.3	4.1	5.6	8.5	15.6	21.6	24.1	25.0	25.9	27.2	27.4	27.4
1300	310	2.6		2.6	4.7	6.7	8.5	13.9	19.8	21.8	23.2	24.9	26.5	26.7	26.7
1600	310	3.0		3.2	4.0	5.6	8.9	15.2	21.3	24.4	25.1	25.8	26.7	26.8	26.8
1900	310	3.2		3.7	4.9	6.3	9.3	15.4	21.3	23.7	24.3	25.1	28.9	29.5	29.5
2200	310	3.2		4.1	4.9	6.4	8.8	14.9	21.4	23.8	24.6	25.0	25.7	25.8	25.8
MARCH															
0100	341	4.6		5.7	6.3	7.4	10.1	16.4	21.3	23.6	24.7	25.2	25.6	25.7	25.7
0400	341	2.3		3.6	4.9	5.9	7.9	14.9	19.0	21.3	22.5	23.8	26.3	26.7	26.7
0700	341	3.0		3.9	5.3	6.4	7.9	15.2	18.9	23.3	24.4	23.6	26.7	27.2	27.2
1000	341	3.0		4.2	3.6	4.6	8.0	16.5	21.9	24.0	25.0	26.5	28.1	28.3	28.3
1300	341	3.3		4.7	5.6	6.7	9.5	16.4	22.4	24.6	25.5	26.5	27.8	28.0	28.0
1600	340	3.6		4.8	5.6	6.5	9.8	16.5	22.3	24.4	25.5	26.2	30.1	30.7	30.7
1900	341	3.5		4.8	5.7	7.2	10.4	17.2	22.3	24.0	24.8	25.2	25.6	25.7	25.7
2200	341	5.2		5.5	6.4	7.0	10.2	17.0	21.6	24.4	25.2	25.5	26.5	26.6	26.6
APRIL															
0100	316	6.0		9.3	8.5	9.7	13.9	18.4	22.5	24.7	24.1	25.4	27.1	27.4	27.4
0400	316	6.8		7.7	8.8	9.7	14.1	18.8	22.7	23.2	26.0	25.4	26.9	27.2	27.2
0700	315	8.2		9.5	10.5	12.0	15.0	20.1	24.1	25.8	26.5	27.0	27.4	27.5	27.5
1000	315	8.6		9.1	10.5	11.6	14.8	20.2	24.2	26.1	27.1	27.9	28.6	28.7	28.7
1300	315	6.6		7.9	9.2	10.0	13.9	18.3	23.6	24.1	25.3	26.7	27.8	28.0	28.0
1600	315	8.5		9.6	10.2	12.0	14.8	20.2	24.5	26.5	27.5	28.2	30.3	30.7	30.7
1900	315	8.5		9.3	10.3	11.4	14.7	20.5	24.1	25.7	26.7	27.4	27.4	27.5	27.5
2200	315	8.5		9.5	10.3	11.3	14.7	20.5	24.1	25.4	26.0	26.7	27.4	27.5	27.5

\* For period of record.



TABLE 5. (Continued)

HOUR	NUM ORS	ARS MIN	0.135	1.000	2.280	VAPOR PRESSURE (NT/SQ FT/100)										ABS MAX
						5.000	15.000	50.000	84.100	95.000	97.720	99.000	99.865			
MAY																
0100	310	9.5		12.4	13.5	14.1	16.9	22.3	25.3	27.8	27.2	28.8	29.4	29.5		
0400	310	11.6		13.0	14.1	15.2	18.2	23.3	25.8	27.5	27.9	28.4	28.8	28.9		
0700	310	12.5		14.0	15.6	17.0	20.2	24.5	27.7	29.2	29.7	30.1	31.5	31.7		
1000	310	9.1		12.6	13.3	15.5	18.5	23.3	24.9	27.5	28.7	28.0	31.4	32.0		
1300	310	10.0		12.9	13.7	16.2	18.9	24.5	27.3	28.9	29.8	30.8	31.5	31.6		
1600	310	11.2		11.5	14.1	15.7	19.6	24.3	27.5	29.1	29.6	29.9	30.8	31.0		
1900	310	9.8		13.3	14.9	16.9	19.6	24.3	27.3	29.8	29.5	30.0	30.6	30.7		
2200	310	12.0		13.3	14.9	16.2	19.5	24.0	27.3	28.8	29.4	29.7	29.9	30.0		
JUNE																
0100	270	15.0		18.5	20.0	20.9	23.7	26.5	28.5	29.9	30.6	31.1	32.9	33.2		
0400	270	13.8		18.4	18.9	21.4	23.0	25.8	27.6	29.9	30.8	31.3	32.0	32.0		
0700	270	18.3		18.4	21.1	22.5	25.9	27.6	29.6	32.1	31.7	33.3	34.8	35.0		
1000	270	16.4		18.4	21.0	22.5	25.4	28.2	29.9	31.1	31.9	32.6	33.9	34.1		
1300	270	16.9		18.2	21.4	21.6	25.3	28.1	29.7	31.0	31.6	34.1	35.1	35.3		
1600	269	16.9		18.2	20.6	22.6	24.2	28.1	29.8	31.0	31.8	32.4	35.8	36.4		
1900	270	16.7		18.4	19.6	21.8	24.2	27.4	30.2	30.5	31.3	31.0	33.6	34.0		
2200	270	16.7		18.4	18.9	21.6	23.5	26.2	29.2	29.7	31.5	32.1	34.0	34.4		
JULY																
0100	279	20.0		22.4	23.0	23.7	25.9	27.5	29.6	30.9	31.9	32.3	33.7	34.0		
0400	279	20.7		21.9	22.4	23.1	25.1	27.8	29.8	31.2	30.9	30.8	32.5	32.8		
0700	279	25.7		26.1	26.9	27.5	28.8	30.4	32.2	33.3	33.6	33.8	33.9	34.0		
1000	279	24.2		25.2	25.8	26.4	28.2	30.0	31.7	32.9	33.3	34.3	35.0	35.0		
1300	278	23.2		24.5	25.6	26.2	27.8	30.0	31.9	33.2	33.7	35.1	36.2	36.4		
1600	278	23.9		24.4	25.4	26.0	27.9	30.0	31.8	33.3	34.1	34.6	35.9	36.2		
1900	278	22.4		23.2	24.7	25.8	27.6	29.6	31.3	32.4	33.0	33.3	33.9	34.0		
2200	278	21.5		23.9	25.5	26.0	26.8	29.2	30.8	32.0	32.8	33.3	33.9	34.0		
AUGUST																
0100	278	21.7		22.8	24.0	25.0	26.5	28.9	30.7	32.0	32.2	32.6	33.7	33.9		
0400	278	21.5		22.6	23.3	24.1	25.7	28.5	30.4	31.6	32.0	32.3	33.7	34.0		
0700	279	23.0		24.3	25.9	26.7	28.5	30.5	32.0	32.5	32.7	33.6	34.7	34.9		
1000	279	23.5		24.7	25.5	26.7	28.4	30.4	32.0	33.2	33.6	33.9	34.9	35.0		
1300	279	23.7		24.2	25.1	26.2	27.7	30.2	32.1	33.2	33.7	34.0	34.9	35.0		
1600	279	21.4		23.0	24.2	25.6	27.6	29.3	31.1	31.6	32.3	33.0	34.8	35.0		
1900	279	22.0		25.3	25.8	26.3	27.6	29.6	31.9	32.5	32.8	33.7	33.9	34.0		
2200	279	21.5		22.6	24.5	25.5	27.3	29.3	31.6	32.0	32.2	32.6	33.8	34.0		

TABLE 5. (Concluded)

MONTH	HOUR	NUM CRS	ABS MIN	VAPOR PRESSURE (MT/SQ M/100) PERCENTILE										ABS MAX	
				0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000		99.865
SEPTEMBER	0100	270	14.1	18.6	19.4	22.6	25.2	27.9	29.1	30.9	32.0	32.9	33.8	34.0	
	0400	270	18.0	19.5	20.7	22.6	25.8	27.7	29.7	31.4	32.1	32.8	33.0	33.1	
	0700	270	20.0	20.3	22.1	23.9	26.2	28.5	30.8	32.1	32.7	33.1	33.8	34.0	
	1000	270	18.9	20.3	21.7	23.9	26.4	29.2	32.0	33.1	33.7	34.0	34.7	34.8	
	1300	269	18.7	20.4	21.5	23.7	26.0	29.2	31.9	33.0	33.6	34.0	36.2	36.6	
	1600	270	17.6	19.7	22.0	23.4	26.0	28.8	31.7	32.8	33.3	33.9	34.8	35.0	
	1900	270	14.5	15.7	21.8	23.3	24.8	27.5	30.4	30.9	31.6	31.6	33.6	34.0	
	2200	270	13.5	20.8	21.6	22.3	25.1	27.7	30.4	30.7	31.9	33.1	33.8	34.0	
	OCTOBER	0100	279	10.0	10.4	11.8	13.9	17.8	23.6	28.4	30.5	31.5	32.4	33.7	34.0
		0400	279	9.5	10.4	11.4	13.3	17.5	23.1	28.1	30.2	30.7	31.5	32.7	32.9
0700		279	9.2	9.9	11.8	13.3	17.6	23.3	28.2	30.0	30.6	31.7	33.6	34.0	
1000		278	7.0	11.0	12.1	13.2	17.0	24.2	28.1	30.4	31.6	31.0	35.6	36.4	
1300		279	7.0	9.6	10.6	11.6	17.6	23.8	28.1	30.3	29.7	32.8	33.9	34.1	
1600		279	7.0	9.9	10.4	12.9	17.7	24.1	27.9	30.7	31.8	31.2	32.7	33.0	
1900		279	9.2	10.7	12.2	13.5	17.5	23.8	28.8	30.7	31.6	32.3	32.8	32.9	
2200		279	9.3	10.7	12.4	13.7	17.8	23.6	28.5	30.7	31.7	32.4	32.8	32.9	
NOVEMBER		0100	282	4.8	5.1	6.2	7.4	12.0	18.4	23.2	25.6	27.0	27.8	30.1	30.5
		0400	282	4.1	4.9	5.8	7.6	11.9	18.2	22.9	25.5	26.6	27.6	28.4	28.5
	0700	282	3.5	4.6	5.6	7.8	11.5	18.0	22.9	25.2	26.1	26.8	29.1	29.5	
	1000	282	3.9	4.7	6.7	8.3	12.9	19.4	24.7	26.6	27.9	28.7	28.7	28.7	
	1300	282	3.5	5.4	6.2	8.6	12.7	19.0	24.1	26.8	27.9	29.5	29.6	29.7	
	1600	282	3.0	4.7	5.8	7.6	12.6	18.8	24.2	26.5	27.7	29.6	30.4	30.6	
	1900	282	4.6	5.8	6.8	8.1	12.2	18.7	23.5	26.2	27.5	29.1	30.3	30.6	
	2200	282	3.8	5.5	6.4	7.5	11.9	18.5	23.3	26.2	27.1	27.7	27.9	28.0	
	DECEMBER	0100	335	3.2	3.9	4.7	5.9	8.9	15.6	20.8	23.0	24.2	25.1	25.7	25.8
		0400	335	3.0	3.9	4.7	5.5	8.9	15.2	20.3	22.9	23.8	24.2	25.5	25.7
0700		336	2.7	3.6	4.2	5.6	8.6	14.8	20.0	23.1	23.8	24.2	25.4	25.7	
1000		336	2.0	3.2	2.4	5.6	8.9	15.9	21.7	24.1	24.9	24.5	27.8	28.3	
1300		336	2.7	3.6	4.8	6.0	9.2	16.4	22.3	25.0	26.1	26.6	26.8	26.8	
1600		336	2.5	4.0	4.8	6.0	9.3	16.3	22.3	25.2	26.1	26.5	26.7	26.7	
1900		335	3.6	4.3	5.1	6.4	9.3	16.2	22.1	24.7	25.4	26.0	26.6	26.6	
2200		335	3.5	4.3	5.0	6.2	8.7	15.9	21.5	23.9	24.9	25.4	26.3	26.5	

// \*END

TABLE 6. CAPE KENNEDY MIXING RATIO

HOUR	NUM OBS	ABS MIN	MIXING RATIO (G/KG)										ABS* MAX
			0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000	
JANUARY													
0100	341	1.9	2.9	3.2	4.1	5.6	9.4	12.5	13.9	14.6	14.9	15.6	15.7
0400	341	2.0	2.8	3.1	3.8	5.5	9.1	12.1	14.0	14.5	14.9	15.5	15.7
0700	341	2.0	2.4	2.8	3.5	5.2	8.9	11.8	13.7	14.3	14.5	15.0	15.1
1000	341	1.7	2.5	2.9	3.5	5.9	9.9	13.3	14.7	15.4	15.6	16.5	16.8
1300	341	1.4	1.4	1.5	3.2	4.9	8.7	13.0	14.3	13.9	14.6	16.5	16.8
1600	341	1.6	2.2	2.9	3.6	5.8	9.9	13.4	14.7	15.1	15.5	16.0	16.1
1900	341	1.9	2.8	3.3	4.0	5.8	9.6	12.9	14.3	14.8	15.1	15.6	15.7
2200	341	1.9	2.9	3.1	3.8	5.4	9.4	12.7	14.3	14.9	15.2	15.6	15.7
FEBRUARY													
0100	310	1.7	2.9	3.2	3.7	5.4	9.2	12.9	14.4	15.0	15.4	15.7	15.8
0400	310	1.9	2.9	2.9	3.7	5.2	9.1	12.7	13.9	14.4	14.9	15.5	15.6
0700	310	1.6	2.1	2.5	3.6	5.0	9.0	12.6	13.7	14.0	14.5	15.4	15.6
1000	310	1.8	2.0	2.4	3.5	5.4	9.7	13.4	15.1	15.7	16.2	17.0	17.2
1300	310	1.6	1.9	2.4	3.2	5.3	9.4	13.2	14.8	15.5	16.0	16.7	16.8
1600	310	1.8	2.0	2.5	3.5	5.4	9.5	13.5	15.2	15.7	15.9	16.7	16.9
1900	309	2.0	2.3	2.8	3.9	5.8	9.6	13.3	15.0	15.4	15.7	18.4	18.9
2200	310	1.9	2.5	3.0	4.0	5.4	9.3	13.4	15.0	15.5	15.9	16.1	16.2
MARCH													
0100	341	2.8	3.5	3.9	4.7	6.1	10.1	13.4	14.9	15.5	15.9	16.1	16.2
0400	341	1.4	3.1	2.7	3.3	5.9	8.9	12.2	13.6	14.2	15.0	16.8	17.1
0700	341	1.8	2.3	3.1	3.6	4.6	8.9	12.3	13.4	15.3	14.8	16.8	17.2
1000	341	1.9	2.6	3.0	3.8	5.8	10.4	14.1	15.7	16.4	16.9	17.7	17.9
1300	341	2.0	3.0	3.4	4.1	5.7	10.1	13.9	15.5	16.0	16.7	17.6	17.8
1600	340	2.5	3.0	3.4	4.0	5.9	10.2	13.8	15.4	16.1	16.5	19.1	19.5
1900	341	2.2	2.9	3.5	4.4	6.3	10.7	13.8	15.2	15.7	16.0	16.2	16.3
2200	341	3.2	3.4	3.9	4.3	6.3	10.5	13.5	15.2	15.8	16.1	16.7	16.9
APRIL													
0100	316	3.7	5.5	5.0	5.6	8.9	12.3	14.4	15.7	15.3	16.1	17.2	17.4
0400	316	4.1	5.4	6.0	5.6	8.0	11.4	14.6	14.8	16.4	16.1	17.1	17.3
0700	316	5.0	5.7	6.6	7.3	9.2	12.7	15.3	16.3	16.7	16.9	17.3	17.4
1000	315	5.2	5.6	6.4	7.1	9.2	12.6	15.1	16.5	17.1	17.5	18.1	18.2
1300	315	4.1	4.6	5.2	5.6	8.8	12.3	15.2	15.3	16.0	16.8	17.5	17.7
1600	314	5.2	5.9	6.4	7.3	9.2	12.7	15.4	16.7	17.2	17.5	19.3	19.6
1900	315	5.2	5.7	6.3	7.0	9.1	12.8	15.2	16.2	16.7	17.2	17.3	17.4
2200	315	5.2	5.6	6.2	6.9	9.1	12.9	15.2	16.0	16.4	16.8	17.3	17.4

\* For period of record.

TABLE 6. (Continued)

MONTH	HOUR	NUM OBS	ABS MIN	MIXING RATIO (G/KG) PERCENTILE										ABS MAX	
				0.135	1.000	2.280	5.000	15.000	50.000	84.100	95.000	97.720	99.000		99.865
MAY	0100	310	5.9	8.1	8.8	9.3	10.8	13.9	15.7	17.2	16.8	17.7	19.4	18.6	
	0400	311	7.2	8.0	8.5	9.3	11.2	14.7	16.3	17.2	17.6	17.9	18.3	18.4	
	0700	310	7.7	8.7	9.5	10.7	12.5	15.4	17.4	18.4	18.7	19.0	19.9	20.1	
	1000	310	5.6	7.1	7.8	9.0	10.7	14.5	16.6	16.8	17.5	19.0	19.9	20.2	
	1300	310	6.2	7.1	7.8	9.9	10.7	14.5	16.3	17.5	18.2	19.0	19.8	20.0	
	1600	310	6.9	7.3	8.9	10.0	12.1	15.3	17.5	18.4	18.8	19.1	19.6	19.7	
	1900	310	6.1	8.0	8.3	9.6	11.5	14.6	16.2	18.0	18.5	18.1	19.3	19.5	
	2200	310	7.5	8.1	9.2	10.2	12.1	15.1	17.1	18.2	18.8	19.0	19.0	19.0	
	JUNE	0100	270	9.3	11.1	12.3	13.1	14.6	17.1	18.1	19.2	18.8	19.5	20.9	21.2
		0400	270	8.6	10.7	12.1	12.6	14.0	16.5	17.3	19.1	18.8	19.6	20.2	20.3
0700		270	11.3	11.7	13.2	14.6	16.5	18.2	19.7	20.5	20.8	21.7	22.1	22.2	
1000		270	10.1	11.1	13.6	14.7	16.1	17.7	19.3	20.3	20.7	21.0	21.5	21.6	
1300		270	10.5	11.2	13.1	14.4	16.3	17.8	19.5	20.3	20.8	21.8	22.3	22.4	
1600		269	10.5	12.0	13.0	14.6	16.0	17.8	19.4	20.3	20.7	21.3	23.0	23.3	
1900		270	10.4	11.5	12.8	14.2	15.8	17.6	19.0	19.8	20.1	20.3	21.3	21.5	
2200		270	10.4	11.4	12.7	14.1	15.6	17.4	18.7	19.5	19.9	20.5	21.6	21.8	
JULY		0100	279	12.5	14.1	14.4	14.8	16.2	17.9	18.9	19.3	20.4	20.1	21.3	21.5
		0400	279	12.9	13.9	14.1	14.5	15.7	17.3	19.1	19.5	19.3	19.7	20.6	20.8
	0700	279	16.1	16.3	16.8	17.3	18.2	19.4	20.4	20.8	21.4	21.5	21.5	21.5	
	1000	279	15.2	15.8	16.2	16.7	17.6	18.8	20.0	20.7	21.1	21.7	22.1	22.2	
	1300	276	14.6	15.4	16.0	16.5	17.4	18.8	20.2	20.9	21.3	21.6	22.9	23.2	
	1600	277	14.9	15.3	15.9	16.3	17.5	18.8	20.2	21.1	21.4	21.6	22.9	23.1	
	1900	278	14.0	14.5	15.6	16.2	17.3	18.6	19.7	20.5	20.7	21.0	21.5	21.6	
	2200	278	13.5	15.0	15.8	16.2	16.8	18.5	19.6	20.2	20.5	20.8	21.4	21.5	
	AUGUST	0100	278	13.6	14.3	15.0	15.6	16.7	18.0	19.4	20.1	20.3	20.6	21.4	21.6
		0400	278	13.4	13.5	13.9	14.7	16.1	17.5	19.1	19.9	19.7	20.1	21.3	21.5
0700		278	14.4	15.2	16.5	16.8	17.9	19.3	20.1	20.6	20.9	21.2	21.9	22.1	
1000		279	14.6	15.4	16.0	16.7	17.7	19.2	20.2	21.0	21.3	21.7	22.1	22.2	
1300		279	15.0	15.1	15.8	16.4	17.6	18.8	20.3	21.0	21.3	21.7	22.2	22.3	
1600		279	13.3	14.4	15.1	15.8	16.9	18.4	19.7	20.6	20.4	21.4	22.1	22.3	
1900		279	13.8	15.8	16.1	16.6	17.5	18.8	19.7	20.1	21.0	21.4	21.5	21.6	
2200		279	13.5	14.1	15.3	16.0	17.1	18.5	19.6	20.2	20.3	20.8	21.5	21.6	

TABLE 6. (Concluded)

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	MIXING RATIO (G/GST PERCENTILE							ABS MAX			
							15.900	50.000	84.100	95.000	97.720	99.000	99.865				
SEPTEMBER																	
0100	270	8.7		12.3	12.7	14.2	15.5	17.4	18.8	19.5	19.9	21.2	21.4	21.5	21.5	21.5	21.5
0400	270	11.2		11.8	12.6	13.5	15.0	16.8	18.0	19.2	19.5	20.7	20.8	20.9	20.9	20.9	20.9
0700	270	12.5		12.8	13.9	14.9	16.4	17.9	19.2	20.2	20.5	20.9	21.5	21.5	21.5	21.5	21.5
1000	270	11.7		13.0	13.6	14.9	16.7	18.6	20.1	21.0	21.5	21.7	21.9	22.0	22.0	22.0	22.0
1300	269	11.7		12.7	13.6	14.8	16.5	18.5	20.1	21.0	21.3	21.6	23.0	23.0	23.0	23.0	23.0
1600	270	11.0		12.4	13.8	14.0	15.8	17.7	19.7	20.0	21.2	20.9	22.1	22.3	22.3	22.3	22.3
1900	270	9.1		12.7	13.8	14.6	16.1	17.1	18.6	19.5	20.1	19.9	21.2	21.5	21.5	21.5	21.5
2200	270	8.4		13.3	13.7	14.1	15.5	17.3	18.7	19.5	20.0	21.2	21.4	21.5	21.5	21.5	21.5
OCTOBER																	
0100	279	6.1		6.5	7.3	8.6	11.0	14.8	18.0	19.5	20.1	20.8	21.5	21.5	21.5	21.5	21.5
0400	279	5.9		6.2	6.9	8.2	10.8	14.6	17.7	19.2	19.6	20.2	20.8	21.0	21.0	21.0	21.0
0700	279	5.7		6.1	7.3	8.3	11.1	14.7	17.8	19.1	19.6	20.3	21.5	21.7	21.7	21.7	21.7
1000	278	4.3		6.5	7.2	8.1	11.0	14.6	17.9	19.5	18.9	19.9	22.8	23.3	23.3	23.3	23.3
1300	279	4.4		6.7	7.3	8.0	11.3	15.5	18.4	19.9	20.3	21.3	21.6	21.7	21.7	21.7	21.7
1600	279	4.3		5.5	6.0	7.8	9.8	14.7	17.7	19.6	19.0	20.0	20.8	21.0	21.0	21.0	21.0
1900	279	5.6		6.5	7.3	8.3	11.0	14.9	18.2	19.6	20.2	20.7	20.9	21.0	21.0	21.0	21.0
2200	279	5.7		6.5	7.7	8.5	10.9	14.8	18.1	19.6	20.3	20.8	20.9	21.0	21.0	21.0	21.0
NOVEMBER																	
0100	282	2.9		3.3	3.8	4.6	7.4	11.3	14.6	16.1	17.1	17.6	19.2	19.5	19.5	19.5	19.5
0400	282	2.6		3.0	3.4	4.5	7.3	11.2	14.3	16.0	16.6	17.4	18.0	18.1	18.1	18.1	18.1
0700	282	2.1		2.7	3.7	4.6	7.1	11.2	14.1	15.8	16.3	16.9	18.3	18.6	18.6	18.6	18.6
1000	282	2.3		2.7	3.9	5.1	8.0	12.0	15.4	16.7	17.5	18.1	18.1	18.2	18.2	18.2	18.2
1300	282	2.1		3.0	3.6	5.1	7.8	11.7	15.2	16.8	17.6	18.6	18.7	18.8	18.8	18.8	18.8
1600	282	1.9		2.6	2.1	3.8	6.9	10.3	14.3	15.7	16.4	18.3	19.2	19.4	19.4	19.4	19.4
1900	282	2.8		3.6	4.1	4.9	7.6	11.5	15.0	16.2	17.4	18.4	19.2	19.4	19.4	19.4	19.4
2200	283	2.3		3.2	3.9	4.6	7.3	11.4	14.7	16.2	17.1	17.5	17.6	17.7	17.7	17.7	17.7
DECEMBER																	
0100	335	2.0		2.3	2.9	3.7	5.5	9.8	13.0	14.5	15.1	15.5	16.2	16.3	16.3	16.3	16.3
0400	335	1.9		2.4	2.8	3.4	5.4	9.4	12.7	14.4	14.9	15.4	16.0	16.2	16.2	16.2	16.2
0700	336	1.6		2.1	2.5	3.4	5.3	9.1	12.5	14.4	14.9	15.4	16.1	16.2	16.2	16.2	16.2
1000	336	1.2		1.9	1.3	3.4	5.4	9.7	13.0	14.3	14.9	15.9	17.4	17.7	17.7	17.7	17.7
1300	336	1.6		2.3	2.9	3.7	5.6	10.1	13.9	15.7	16.1	16.4	16.9	17.0	17.0	17.0	17.0
1600	336	1.5		2.6	2.9	3.7	5.7	10.1	13.9	15.7	16.1	16.3	16.8	16.9	16.9	16.9	16.9
1900	335	2.2		2.6	3.4	4.0	5.7	10.0	13.7	15.3	15.6	16.0	16.6	16.7	16.7	16.7	16.7
2200	335	2.1		2.6	3.1	3.8	5.3	9.9	13.3	15.0	15.4	15.6	16.6	16.8	16.8	16.8	16.8

// \*END

TABLE 7. CAPE KENNEDY DENSITY

HOUR	NUM ORS	ARS MIN	DENSITY (G/CC M) PERCENTILE							97.720	99.000	99.865	ABS* MAX
			0.135	1.000	2.280	5.000	15.900	50.000	84.100				
JANUARY													
0100	341	1179.0	1187.5	1192.0	1196.8	1207.0	1225.6	1258.6	1241.7	1290.9	1294.3	1306.1	1308.0
0400	341	1175.0	1187.7	1190.0	1196.0	1209.3	1227.0	1250.8	1292.1	1295.9	1303.2	1315.0	1318.0
0700	341	1184.0	1187.9	1190.6	1198.3	1212.1	1230.4	1261.9	1287.7	1295.8	1303.7	1316.0	1318.0
1000	341	1180.0	1183.5	1187.3	1190.0	1196.8	1213.7	1240.6	1265.2	1282.1	1289.7	1299.4	1301.0
1300	341	1162.0	1166.0	1168.9	1173.7	1184.9	1204.2	1238.5	1251.5	1266.3	1272.0	1282.3	1284.0
1600	341	1155.0	1166.0	1168.6	1168.9	1173.7	1206.9	1225.2	1245.9	1248.1	1255.1	1275.7	1279.0
1900	341	1175.0	1181.9	1188.2	1193.4	1201.3	1221.2	1247.0	1265.9	1282.1	1289.1	1298.5	1300.0
2200	341	1184.0	1187.3	1190.7	1195.6	1205.1	1225.2	1256.5	1282.5	1293.9	1299.5	1307.7	1309.0
FEBRUARY													
0100	310	1170.0	1184.3	1187.7	1192.2	1201.1	1223.4	1256.8	1282.2	1289.6	1295.8	1300.3	1301.0
0400	310	1184.0	1187.3	1190.8	1194.0	1203.6	1224.7	1259.9	1281.6	1290.7	1298.0	1304.0	1305.0
0700	310	1184.0	1189.8	1192.2	1195.8	1205.3	1226.4	1265.5	1286.1	1294.9	1304.3	1308.3	1309.0
1000	310	1172.0	1176.2	1178.7	1182.3	1190.9	1210.2	1238.4	1263.6	1278.0	1284.8	1293.6	1295.0
1300	310	1154.0	1155.9	1165.2	1171.4	1180.4	1202.5	1228.3	1248.3	1257.9	1270.2	1274.3	1275.0
1600	310	1152.0	1158.4	1166.3	1172.0	1180.9	1203.9	1227.2	1245.3	1252.8	1261.0	1266.1	1267.0
1900	310	1162.0	1173.7	1183.0	1185.7	1195.1	1216.3	1244.3	1263.6	1270.6	1277.7	1286.6	1288.0
2200	310	1175.0	1182.2	1185.4	1189.1	1198.3	1221.2	1253.9	1276.7	1283.0	1286.7	1294.7	1296.0
MARCH													
0100	341	1171.0	1180.9	1185.8	1190.4	1197.5	1217.4	1246.3	1261.9	1271.4	1279.3	1298.9	1302.0
0400	341	1171.0	1179.3	1184.6	1190.6	1199.2	1219.1	1254.0	1267.1	1273.5	1277.7	1283.1	1284.0
0700	341	1166.0	1176.9	1183.4	1190.8	1199.0	1221.1	1254.1	1269.8	1277.1	1283.6	1301.2	1308.0
1000	341	1166.0	1168.7	1172.8	1177.5	1184.8	1201.5	1226.2	1246.1	1253.9	1262.5	1275.0	1277.0
1300	341	1154.0	1154.0	1158.9	1166.1	1176.4	1195.5	1219.4	1236.2	1244.5	1251.0	1257.0	1258.0
1600	341	1147.0	1149.1	1154.7	1160.5	1172.6	1194.4	1211.9	1222.9	1228.6	1236.7	1251.6	1254.0
1900	341	1167.0	1170.1	1174.4	1182.2	1191.9	1209.7	1231.0	1248.1	1254.0	1264.1	1267.4	1268.0
2200	341	1168.0	1175.0	1183.8	1189.7	1195.8	1213.5	1242.7	1258.9	1277.1	1287.7	1292.2	1293.0
APRIL													
0100	316	1166.0	1177.8	1182.1	1183.2	1188.1	1199.7	1216.3	1234.5	1243.8	1250.2	1253.4	1254.0
0400	316	1167.0	1176.8	1179.8	1183.1	1189.3	1202.0	1219.4	1237.5	1245.2	1251.5	1256.2	1257.0
0700	315	1172.0	1176.7	1178.4	1181.8	1188.0	1200.4	1216.6	1230.5	1233.7	1245.2	1256.2	1258.0
1000	315	1160.0	1165.2	1166.8	1168.6	1174.4	1184.4	1198.7	1211.4	1217.1	1221.5	1234.0	1236.0
1300	315	1143.0	1150.7	1153.3	1157.3	1166.8	1180.2	1195.2	1206.4	1214.6	1217.2	1230.8	1233.0
1600	315	1141.0	1144.5	1148.8	1157.1	1168.3	1182.1	1196.4	1206.2	1212.3	1217.6	1227.4	1229.0
1900	315	1159.0	1160.2	1165.4	1172.6	1182.0	1193.2	1207.9	1219.0	1223.2	1231.3	1236.2	1237.0
2200	315	1170.0	1173.1	1176.1	1180.0	1186.7	1197.9	1213.5	1231.3	1238.4	1245.6	1251.1	1252.0

\* For period of record.

TABLE 7. (Continued)

MONTH	HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	DENSITY (G/CC M)				95.000	97.720	99.000	99.865	ABS MAX
								15.900	50.000	84.100	95.000					
MAY	0100	309	1168.0	1170.9	1172.3	1174.2	1179.8	1187.6	1200.1	1211.2	1220.9	1228.5	1254.8	1259.0		
	0400	310	1168.0	1171.7	1173.3	1176.3	1181.4	1189.9	1205.5	1220.7	1227.6	1231.6	1240.6	1242.0		
	0700	310	1163.0	1167.4	1168.1	1169.7	1174.3	1183.3	1195.9	1207.0	1211.0	1214.8	1217.5	1218.0		
	1000	310	1149.0	1153.4	1155.5	1158.1	1162.6	1171.7	1181.7	1189.3	1194.0	1197.0	1199.5	1200.0		
	1300	310	1138.0	1144.4	1147.0	1150.9	1158.0	1168.1	1179.3	1187.2	1191.6	1195.4	1203.7	1205.0		
	1600	310	1135.0	1146.4	1150.9	1154.7	1160.7	1170.5	1181.4	1188.9	1192.3	1195.4	1201.1	1202.0		
	1900	310	1149.0	1158.5	1162.9	1165.7	1170.3	1179.9	1190.6	1197.0	1200.0	1203.0	1203.8	1204.0		
	2200	310	1164.0	1167.7	1168.9	1171.3	1176.4	1185.9	1196.5	1206.9	1214.8	1220.9	1226.1	1227.0		
	JUNE	0100	270	1159.0	1160.6	1163.0	1165.7	1170.8	1179.6	1187.0	1192.4	1196.2	1202.3	1210.7	1212.0	
		0400	269	1162.0	1162.5	1164.4	1167.1	1173.6	1180.9	1190.0	1195.9	1198.4	1200.2	1222.5	1226.0	
0700		270	1156.0	1156.7	1158.5	1160.8	1165.7	1173.2	1179.8	1185.3	1188.1	1191.1	1193.6	1194.0		
1000		270	1145.0	1145.8	1147.8	1150.3	1155.0	1162.5	1170.0	1175.9	1179.2	1183.8	1187.4	1188.0		
1300		270	1134.0	1138.3	1141.9	1145.4	1150.6	1159.3	1168.9	1175.9	1180.4	1183.6	1190.8	1192.0		
1600		270	1130.0	1135.8	1141.0	1145.8	1153.3	1162.8	1172.3	1181.6	1185.7	1191.9	1198.9	1200.0		
1900		270	1141.0	1150.5	1154.8	1157.9	1162.7	1171.2	1179.6	1185.0	1188.0	1193.2	1194.7	1195.0		
2200		270	1159.0	1159.0	1161.5	1164.2	1168.9	1178.1	1185.4	1189.9	1193.7	1198.4	1205.8	1207.0		
JULY		0100	279	1157.0	1161.1	1164.4	1166.6	1170.3	1176.7	1186.7	1192.6	1195.0	1196.9	1199.5	1200.0	
		0400	278	1161.0	1163.4	1165.3	1167.6	1172.1	1178.6	1188.7	1195.8	1197.8	1199.7	1206.0	1207.0	
	0700	279	1157.0	1159.0	1161.1	1163.1	1166.3	1171.3	1177.4	1182.0	1184.8	1189.1	1189.8	1190.0		
	1000	279	1145.0	1145.2	1147.0	1149.1	1152.6	1159.1	1164.7	1169.6	1172.9	1175.2	1177.6	1178.0		
	1300	278	1133.0	1134.2	1140.4	1143.3	1144.5	1153.8	1158.3	1169.7	1175.9	1182.3	1186.3	1187.0		
	1600	278	1140.0	1144.0	1145.6	1147.1	1150.9	1158.3	1168.3	1180.6	1187.6	1192.2	1194.6	1195.0		
	1900	278	1148.0	1152.6	1155.7	1157.9	1161.5	1168.2	1176.6	1183.7	1187.2	1190.1	1191.7	1192.0		
	2200	278	1157.0	1159.0	1161.4	1163.7	1168.5	1175.4	1185.1	1189.5	1191.1	1192.9	1192.9	1193.0		
	AUGUST	0100	278	1162.0	1162.4	1163.5	1165.4	1170.5	1177.8	1185.0	1189.9	1191.8	1195.7	1199.4	1200.0	
		0400	278	1163.0	1163.0	1164.7	1166.3	1170.8	1179.5	1187.6	1192.1	1194.8	1197.1	1203.0	1204.0	
0700		279	1159.0	1160.2	1162.0	1163.4	1167.9	1174.2	1179.8	1183.4	1185.5	1189.7	1195.1	1196.0		
1000		279	1143.0	1144.5	1146.0	1148.6	1152.7	1158.9	1164.1	1170.0	1173.6	1180.7	1182.6	1183.0		
1300		279	1132.0	1134.2	1136.5	1139.7	1146.5	1150.9	1156.0	1166.3	1173.2	1175.5	1179.3	1180.0		
1600		279	1135.0	1141.2	1143.2	1146.3	1151.6	1158.2	1167.7	1178.2	1182.1	1188.5	1191.5	1192.0		
1900		279	1146.0	1150.5	1155.2	1157.9	1162.4	1168.2	1174.5	1180.6	1182.5	1184.8	1186.7	1187.0		
2200	279	1155.0	1158.2	1162.1	1164.8	1168.3	1174.9	1181.2	1185.9	1188.4	1192.7	1195.5	1196.0			

TABLE 7. (Concluded)

HOUR	NUM ORS	ABS MIN	0.135	1.000	2.280	5.000	DENSITY (G/GU M)					95.000	97.720	99.000	99.865	ABS MAX	
							15.900	50.000	84.100	95.000	97.720						99.000
SEPTEMBER																	
0100	270	1160.0		1160.8	1162.1	1163.6	1167.1	1174.4	1181.9	1188.8	1194.5	1199.7	1203.4	1204.6	1205.0	1205.0	
0400	270	1160.0		1161.5	1163.5	1165.1	1169.0	1176.7	1184.7	1193.5	1196.3	1202.7	1204.6	1205.0	1205.0	1205.0	
0700	270	1159.0		1160.3	1162.7	1164.0	1168.1	1175.7	1181.8	1188.7	1192.5	1195.6	1198.5	1199.0	1199.0	1199.0	
1000	270	1145.0		1148.9	1151.0	1152.0	1155.0	1160.1	1167.3	1173.6	1177.6	1185.5	1189.3	1190.0	1190.0	1190.0	
1300	270	1137.0		1140.5	1143.5	1145.8	1150.7	1156.4	1164.8	1172.9	1175.1	1182.5	1186.3	1187.0	1187.0	1187.0	
1600	270	1136.0		1141.2	1148.2	1149.5	1153.1	1159.2	1168.0	1176.5	1181.7	1186.5	1190.3	1191.0	1191.0	1191.0	
1900	270	1154.0		1156.5	1158.0	1160.0	1163.9	1169.9	1176.9	1180.9	1185.8	1188.8	1190.7	1190.7	1191.0	1191.0	
2200	270	1160.0		1160.5	1162.0	1163.5	1167.0	1174.1	1181.2	1187.2	1192.2	1195.6	1203.7	1203.7	1205.0	1205.0	
OCTOBER																	
0100	279	1153.0		1157.9	1162.9	1166.1	1171.6	1182.3	1206.3	1217.9	1223.7	1236.7	1245.6	1247.0	1247.0	1247.0	
0400	279	1154.0		1161.0	1163.0	1165.9	1172.5	1183.1	1208.4	1224.4	1227.9	1240.1	1246.0	1247.0	1247.0	1247.0	
0700	278	1152.0		1161.1	1163.3	1166.4	1173.0	1185.3	1207.1	1223.1	1229.8	1237.1	1246.5	1248.0	1248.0	1248.0	
1000	278	1141.0		1150.9	1149.6	1147.3	1159.7	1168.2	1187.2	1193.6	1197.3	1213.9	1224.3	1226.0	1226.0	1226.0	
1300	279	1142.0		1144.2	1147.4	1149.9	1155.3	1166.3	1182.9	1195.4	1202.1	1209.3	1215.1	1216.0	1216.0	1216.0	
1600	279	1145.0		1145.8	1148.5	1151.7	1158.2	1169.1	1184.1	1197.1	1202.1	1211.6	1214.5	1215.0	1215.0	1215.0	
1900	279	1155.0		1156.5	1158.8	1161.6	1168.2	1178.9	1196.2	1213.3	1220.3	1229.8	1242.0	1244.0	1244.0	1244.0	
2200	279	1158.0		1158.5	1161.4	1164.5	1170.9	1182.1	1203.4	1218.2	1223.7	1231.0	1244.8	1247.0	1247.0	1247.0	
NOVEMBER																	
0100	282	1164.0		1179.0	1180.1	1182.5	1188.9	1205.2	1233.4	1257.3	1270.4	1280.7	1285.2	1286.0	1286.0	1286.0	
0400	282	1161.0		1179.4	1181.1	1184.4	1190.7	1207.3	1235.3	1259.5	1267.6	1274.5	1284.4	1286.0	1286.0	1286.0	
0700	282	1164.0		1179.6	1181.6	1185.4	1192.7	1209.3	1237.5	1263.0	1276.6	1283.0	1283.8	1284.0	1284.0	1284.0	
1000	282	1161.0		1167.2	1169.3	1172.9	1177.6	1190.7	1213.1	1233.9	1241.9	1268.3	1276.7	1278.0	1278.0	1278.0	
1300	282	1154.0		1155.7	1159.8	1163.6	1170.6	1184.2	1205.1	1225.1	1237.5	1249.8	1262.0	1264.0	1264.0	1264.0	
1600	282	1151.0		1154.7	1159.7	1166.1	1172.5	1188.6	1208.6	1223.9	1233.8	1245.2	1260.6	1263.0	1263.0	1263.0	
1900	282	1166.0		1171.1	1175.7	1180.1	1186.9	1202.0	1225.1	1247.8	1264.2	1279.1	1287.6	1289.0	1289.0	1289.0	
2200	282	1174.0		1176.5	1179.5	1181.8	1188.1	1205.1	1234.6	1259.6	1269.1	1282.7	1294.2	1296.0	1296.0	1296.0	
DECEMBER																	
0100	335	1173.0		1185.1	1189.2	1197.8	1201.1	1221.6	1259.6	1280.7	1290.0	1298.0	1310.1	1312.0	1312.0	1312.0	
0400	335	1177.0		1184.5	1186.9	1193.5	1203.8	1225.1	1262.7	1278.9	1297.5	1308.8	1322.8	1325.0	1325.0	1325.0	
0700	336	1177.0		1186.0	1189.8	1194.1	1205.7	1225.6	1263.3	1282.4	1297.5	1314.2	1325.2	1327.0	1327.0	1327.0	
1000	336	1172.0		1175.8	1179.9	1183.2	1190.6	1208.9	1235.5	1263.1	1275.3	1280.1	1302.5	1306.0	1306.0	1306.0	
1300	336	1158.0		1158.0	1165.0	1174.2	1180.5	1191.7	1224.4	1233.9	1255.0	1284.4	1289.0	1289.0	1289.0	1289.0	
1600	336	1156.0		1166.7	1173.1	1177.7	1178.6	1202.9	1223.4	1235.6	1239.8	1258.6	1281.4	1285.0	1285.0	1285.0	
1900	335	1173.0		1180.3	1184.3	1189.3	1196.6	1217.1	1248.6	1267.2	1282.8	1290.3	1297.8	1299.0	1299.0	1299.0	
2200	335	1176.0		1183.0	1187.1	1191.2	1200.0	1219.9	1257.2	1279.3	1291.2	1298.0	1305.7	1307.0	1307.0	1307.0	

\*END



TABLE 8. CAPE KENNEDY ENTHALPY

HOUR	NUM OBS	ABS MIN	ENTHALPY (JOULES/G)										ABS MAX
			0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000	
JANUARY													
0100	341	20.2	23.7	25.7	28.7	35.9	51.1	61.4	66.2	68.5	69.4	71.5	71.8
0400	341	18.3	23.9	25.0	27.7	35.4	49.9	59.5	66.0	68.2	69.2	71.1	71.4
0700	341	18.3	21.4	22.9	27.1	34.6	49.2	58.3	64.5	66.5	67.7	69.1	69.3
1000	341	21.5	24.1	26.8	31.5	41.2	54.8	65.4	70.2	71.6	72.4	73.1	73.2
1300	341	23.3	26.8	28.9	33.2	42.9	56.7	68.0	71.7	73.4	74.3	78.1	78.7
1600	341	24.2	28.0	31.3	33.9	43.2	55.2	67.6	71.3	72.5	73.6	74.4	74.5
1900	341	21.2	25.0	27.6	31.3	35.1	52.3	63.0	67.9	69.3	70.6	71.1	71.1
2200	341	20.8	23.1	25.2	28.7	36.6	50.9	62.3	66.8	68.8	69.8	71.2	71.4
FEBRUARY													
0100	310	21.0	23.1	25.4	28.3	35.6	50.4	62.6	67.4	69.4	70.8	72.4	72.6
0400	310	20.4	22.2	25.4	28.1	34.7	50.3	61.4	65.7	67.2	68.4	70.4	70.7
0700	310	18.5	18.6	19.9	26.5	30.5	49.8	59.2	60.6	64.2	63.2	69.2	70.1
1000	310	22.5	24.5	27.2	30.9	40.0	54.9	67.4	71.2	72.8	74.7	77.0	77.4
1300	310	25.0	27.3	30.6	33.6	42.1	55.9	68.0	72.8	74.9	76.4	78.0	78.2
1600	310	28.1	29.5	31.6	34.0	42.1	55.2	67.9	72.4	74.4	76.4	78.0	78.2
1900	309	25.0	26.9	29.0	32.5	39.6	52.8	64.8	69.8	71.6	72.9	80.1	81.2
2200	310	23.3	25.0	26.5	29.3	36.6	50.9	64.4	69.9	71.7	72.6	73.1	73.2
MARCH													
0100	341	22.9	25.4	31.4	33.8	39.4	53.5	63.8	68.7	70.7	71.7	74.3	74.7
0400	341	24.2	27.1	29.4	32.1	37.6	52.6	63.1	67.9	69.3	71.1	75.3	76.0
0700	341	21.0	24.9	27.3	29.8	34.0	50.3	59.9	65.5	68.6	67.1	75.7	77.0
1000	341	24.8	30.9	32.3	35.7	43.7	58.1	68.6	73.5	75.6	78.0	78.9	79.1
1300	341	28.6	33.8	35.3	38.1	45.1	58.8	70.1	75.0	77.0	78.5	81.0	81.4
1600	341	31.3	35.4	36.8	38.9	45.0	58.0	69.4	74.0	75.8	77.1	82.8	83.7
1900	341	27.9	32.3	33.9	36.3	42.7	56.5	66.3	70.6	72.5	73.7	74.0	74.1
2200	341	24.8	28.3	30.0	34.2	41.2	53.1	64.9	69.8	72.0	73.9	75.0	75.1
APRIL													
0100	216	37.5	41.1	43.0	46.9	54.5	64.7	72.0	74.6	76.0	77.1	77.4	77.4
0400	316	36.9	39.6	40.1	43.9	50.9	61.2	69.1	72.0	73.6	74.9	76.7	77.0
0700	315	37.3	41.9	43.1	46.5	52.9	62.8	70.6	73.7	74.8	75.9	77.0	77.2
1000	315	40.7	45.5	48.1	50.3	56.9	66.4	73.7	76.6	78.5	80.3	82.1	82.4
1300	315	41.3	45.1	47.2	51.1	57.6	67.7	75.3	78.7	80.1	81.0	82.1	82.2
1600	315	42.3	46.1	48.2	51.6	57.4	66.7	74.4	78.4	80.5	82.4	83.9	84.1
1900	315	39.8	43.3	45.0	47.8	54.6	65.0	71.2	74.7	76.2	77.1	78.0	78.0
2200	315	37.7	40.5	42.0	45.4	53.2	64.0	70.6	73.1	74.5	75.4	77.0	77.2

\* For period of record.

TABLE 8. (Continued)

MONTH	HOUR	NUM ORS	ARS VIN	ENTHALPY (Joules/g)										ABS MAX		
				0.135	1.000	2.280	5.000	15.500	50.000	84.100	95.000	97.720	99.000		99.865	
MAY	0100	310	36.7		45.8	48.3	49.8	59.4	69.0	72.2	74.1	77.5	76.8	79.7	80.1	
	0400	310	44.6	45.3	49.6	51.3	58.9	68.7	74.2	74.2	76.9	78.2	79.3	79.5	79.5	
	0700	310	48.2	50.3	55.1	57.6	72.1	74.5	74.5	80.9	82.7	82.1	82.7	85.7	86.2	
	1000	310	47.3	54.6	57.7	61.3	74.5	80.0	80.0	82.3	85.0	85.4	86.9	88.4	89.9	
	1300	310	49.2	54.6	57.6	62.3	87.0	74.3	81.3	84.1	84.9	86.7	86.7	86.7	86.6	
	1600	310	52.1	54.3	57.4	61.4	74.3	80.5	80.5	82.1	82.8	82.1	82.8	84.3	84.5	
	1900	310	48.6	52.3	56.5	59.7	72.3	78.5	78.5	82.1	82.8	82.1	82.8	84.3	84.5	
	2200	310	47.6	49.7	52.3	56.1	71.3	77.3	77.3	80.3	82.3	81.5	82.3	82.6	82.6	
	JUNE	0100	270	52.8	61.3	64.7	67.3	71.9	76.4	80.8	82.0	83.6	84.8	86.0	88.5	88.5
		0400	270	48.0	60.1	61.7	63.4	66.0	71.9	74.5	82.4	83.9	81.3	83.9	85.3	85.6
0700		270	62.4	64.6	65.8	71.1	75.4	80.1	84.5	87.3	90.7	88.2	90.7	92.4	92.7	
1000		270	52.8	65.1	71.3	73.5	77.2	82.2	86.4	88.7	91.9	90.4	91.9	92.2	92.2	
1300		270	65.1	65.7	69.9	72.1	77.8	82.8	87.8	90.1	93.4	91.9	93.4	95.3	95.6	
1600		270	64.1	66.9	69.9	72.3	76.2	81.7	86.6	89.9	92.4	91.2	92.4	97.3	98.1	
1900		270	60.9	63.7	67.4	70.4	74.3	78.8	83.9	86.2	88.0	87.3	88.0	90.0	90.4	
2200		270	57.8	62.6	65.5	68.6	72.9	77.2	82.0	84.6	88.0	86.1	88.0	90.0	90.4	
JULY		0100	270	61.1	64.9	70.5	69.5	72.5	79.3	81.2	82.6	84.3	84.3	85.8	88.8	89.3
		0400	270	62.4	65.7	67.1	69.5	73.3	78.7	82.9	84.9	85.8	85.8	86.5	87.0	87.0
	0700	270	72.4	74.3	75.7	77.8	80.0	83.5	86.9	89.4	89.3	89.3	89.9	91.0	91.2	
	1000	270	76.4	78.3	78.9	80.1	82.3	86.0	89.1	91.6	92.6	92.6	93.7	94.6	94.7	
	1300	270	75.1	75.7	76.9	79.2	82.8	86.7	90.5	92.6	93.7	93.7	95.6	97.0	97.2	
	1600	270	70.5	71.3	72.8	76.3	80.8	86.0	89.3	92.1	94.2	93.3	94.2	95.4	95.6	
	1900	270	68.4	70.2	73.6	74.8	78.0	82.9	86.1	88.2	89.9	89.3	89.9	90.8	91.0	
	2200	270	64.0	71.3	72.5	73.5	75.7	80.4	84.6	86.7	89.1	87.8	89.1	89.6	89.7	
	AUGUST	0100	270	65.5	68.2	64.0	71.4	74.8	79.2	83.3	85.7	86.6	86.6	87.5	88.7	88.9
		0400	270	66.3	66.3	68.0	69.4	73.4	75.1	82.5	84.5	85.4	85.4	86.9	89.3	89.3
0700		270	67.4	71.4	73.6	75.5	78.6	82.5	85.7	87.3	87.9	87.9	89.9	90.2	90.2	
1000		270	74.3	75.9	77.5	79.5	82.2	86.2	89.3	91.6	92.6	92.6	93.3	93.3	93.3	
1300		270	74.3	75.2	77.5	79.4	82.6	85.9	90.2	92.2	93.7	93.7	95.5	95.5	95.6	
1600		270	70.5	71.8	74.7	76.7	80.8	85.9	90.8	92.7	94.5	91.5	92.7	94.5	94.7	
1900		270	68.9	72.8	74.2	75.6	78.8	83.0	86.4	89.4	91.3	89.4	90.6	91.3	91.4	
2200		270	65.3	68.9	71.2	73.1	76.9	81.0	84.5	86.1	88.4	87.3	88.4	90.3	90.6	

TABLE 8. (Concluded)

MONTH	HOUR	NUM ORS	ABS MIN	0.135	1.000	2.280	ENTHALPY (JOULES/G)					95.000	97.720	99.000	99.865	ABS MAX	
							5.000	15.900	50.000	84.100	95.000						
SEPTEMBER	0100	270	54.4		60.8	63.0	68.6	71.1	78.6	80.4	84.1	85.9	87.3	87.3	85.6	89.9	
	0400	270	59.0		61.8	64.3	67.0	72.3	77.5	82.2	84.7	86.2	87.3	87.3	88.0	88.1	
	0700	270	63.4		63.9	68.0	70.7	74.5	79.4	83.4	86.0	87.6	88.9	88.9	89.4	89.5	
	1000	270	64.9		68.2	71.2	74.6	79.4	84.2	88.6	90.7	92.0	93.0	93.0	93.4	93.5	
	1300	269	65.9		67.0	71.3	75.4	79.5	84.5	89.1	91.3	92.4	93.9	92.4	93.3	96.6	
	1600	270	62.8		68.2	71.4	74.3	78.3	83.1	88.2	90.1	90.9	92.4	92.4	93.3	93.5	
	1900	270	56.7		63.9	69.0	72.3	75.6	80.2	82.5	83.4	85.4	87.3	87.3	89.9	90.4	
	2200	270	54.2		64.3	69.2	70.4	73.7	78.2	83.2	83.6	85.4	87.9	86.7	89.3	89.7	
	OCTOBER	0100	279	40.5		42.3	47.2	50.6	57.3	70.5	79.5	83.9	86.4	88.8	88.8	90.2	90.4
		0400	270	39.8		41.6	44.5	48.9	56.7	69.7	78.6	83.1	84.2	84.9	84.9	87.8	89.3
0700		270	39.8		40.6	45.0	49.1	57.6	70.1	78.6	82.4	84.1	85.8	85.8	89.7	90.4	
1000		279	41.9		47.2	51.8	54.5	63.9	75.6	83.6	88.2	89.3	91.6	90.7	96.5	97.2	
1300		270	43.0		49.6	52.4	55.0	63.9	76.3	84.8	88.2	89.4	90.7	92.6	92.6	92.9	
1600		270	45.5		48.7	51.2	55.8	62.9	75.5	83.2	87.1	88.7	89.9	90.7	90.7	90.8	
1900		279	41.1		44.7	47.5	51.4	60.0	71.8	81.0	84.8	86.7	88.5	88.5	88.7	88.7	
2200		279	40.2		44.7	47.6	50.6	58.3	71.2	79.9	84.7	86.7	88.5	88.5	88.7	89.7	
NOVEMBER		0100	281	26.7		28.6	30.7	33.4	44.8	59.0	68.6	73.5	75.5	76.6	76.6	81.5	82.2
		0400	282	27.1		27.9	30.3	33.0	43.8	58.5	68.1	73.1	75.1	76.6	78.0	78.0	78.2
	0700	282	24.8		24.8	26.5	31.8	38.0	54.1	65.2	70.6	69.2	72.0	78.7	78.7	79.7	
	1000	282	26.9		29.5	34.1	39.7	51.2	64.2	73.3	76.7	78.9	80.6	81.3	81.4	81.4	
	1300	282	29.0		35.6	37.3	41.8	52.5	64.8	73.8	78.7	80.8	82.4	84.0	84.0	84.3	
	1600	282	28.3		34.1	37.0	41.3	51.7	63.7	72.9	78.2	80.1	82.6	82.6	84.8	85.1	
	1900	282	26.9		28.9	32.4	36.6	47.4	60.2	69.9	74.6	76.6	79.0	82.0	82.0	82.4	
	2200	282	25.2		28.0	31.0	33.9	44.3	59.8	69.5	74.0	75.7	76.6	77.3	77.3	77.4	
	DECEMBER	0100	335	20.2		23.0	25.7	29.2	35.5	52.7	63.5	67.8	69.9	71.1	73.8	73.8	74.3
		0400	335	17.1		19.3	17.5	23.1	31.8	47.9	58.9	64.3	67.7	66.3	72.1	72.1	73.0
0700		336	17.1		17.1	22.2	23.2	32.2	48.9	59.4	64.2	67.5	66.3	72.3	72.3	73.2	
1000		336	19.8		21.9	27.7	32.7	41.2	56.9	67.8	73.0	74.7	76.1	78.1	78.5	78.5	
1300		336	23.5		29.4	31.8	36.9	43.2	58.6	69.3	74.9	76.5	77.9	78.7	78.9	78.9	
1600		336	25.0		30.1	32.6	36.8	43.0	57.6	68.5	74.5	75.8	76.4	78.2	78.2	79.5	
1900		335	22.9		25.5	28.9	31.0	38.3	54.3	65.5	70.6	72.7	73.5	74.2	74.2	74.3	
2200		335	22.1		23.5	25.6	29.2	35.8	53.0	64.2	69.3	70.7	71.7	73.5	73.5	74.9	

\*FIND

TABLE 9. VANDENBERG AIR FORCE BASE TEMPERATURE

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.500	5.000	TEMPERATURE (C)							95.000	97.500	99.000	99.505	ABS* MAX	
							15.000	50.000	64.100	65.000	67.500	72.0	92.000						
JANUARY																			
0100	372	0.6		1.1	2.3	3.0	4.9	6.3	11.0	13.6	14.3	15.3	15.8	16.1					16.1
0400	372	-0.6		0.7	1.3	2.2	4.4	2.1	11.6	12.3	13.6	15.6	16.1	16.1					16.1
0700	372	-1.1		-0.6	0.2	1.3	7.7	7.7	11.6	12.0	13.6	15.6	16.1	16.1					16.1
1000	372			0.2	0.2	7.0	9.4	12.1	15.3	17.0	18.7	20.6	20.6	20.6					20.6
1300	372	1.7		3.3	3.0	10.5	12.2	14.7	15.6	22.0	23.0	24.1	25.0	25.0					25.0
1600	372	3.9		3.6	3.6	10.2	11.4	13.5	15.7	20.2	21.4	22.4	23.0	23.0					23.0
1900	372	1.7		3.4	3.1	5.8	7.7	10.5	12.9	14.7	15.9	16.9	17.8	17.8					17.8
2200	372	1.7		2.2	2.9	6.2	5.0	9.7	12.2	14.2	14.7	15.9	17.8	17.8					17.8
FEBRUARY																			
0100	339	1.7		2.6	3.7	4.6	6.0	9.0	11.7	13.6	14.1	16.0	16.0	16.0					16.0
0400	339	0.0		1.7	2.2	4.1	5.3	8.1	11.2	13.0	13.6	14.6	15.6	15.6					15.6
0700	339	-0.6		1.0	1.7	3.0	4.6	7.7	11.0	12.8	13.6	14.6	15.6	15.6					15.6
1000	339	5.0		7.0	8.3	9.1	10.5	13.0	15.6	17.7	18.7	20.5	21.6	21.6					21.6
1300	339	8.9		9.4	9.9	11.0	12.5	14.6	17.9	20.8	21.7	22.9	23.8	24.4					24.4
1600	339	3.9		9.3	10.0	10.6	11.6	13.5	15.8	18.1	19.1	19.8	20.8	21.1					21.1
1900	339	5.0		6.2	7.2	7.9	9.1	10.5	12.5	13.9	14.7	16.0	17.5	17.8					17.8
2200	339	0.6		3.9	4.4	5.5	7.0	9.6	12.0	13.7	14.6	16.0	18.6	19.4					19.4
MARCH																			
0100	372	2.2		3.5	4.0	5.2	6.7	9.2	11.0	13.2	14.9	16.1	17.2	17.8					17.8
0400	372	2.2		2.8	3.2	3.8	5.7	8.7	10.5	12.4	14.0	15.0	16.1	16.7					16.7
0700	372	1.7		2.3	3.2	4.1	5.8	8.7	10.8	12.7	13.7	15.2	15.5	15.6					15.6
1000	372	6.7		7.9	8.4	9.6	10.9	13.0	16.9	20.1	21.5	22.8	24.7	25.0					25.0
1300	372	7.8		9.4	10.2	11.0	12.5	14.3	17.4	20.6	22.5	23.5	25.6	26.1					26.1
1600	372	6.1		8.7	9.7	10.4	11.5	13.1	15.5	18.4	22.0	22.7	24.2	24.4					24.4
1900	372	5.6		6.8	7.7	8.4	9.3	10.8	12.0	14.0	15.2	18.2	20.3	20.6					20.6
2200	372	3.9		4.5	5.5	6.4	7.7	9.8	11.4	13.4	15.6	16.7	18.9	19.4					19.4
APRIL																			
0100	360	2.2		4.9	5.3	5.7	7.2	9.3	11.3	13.4	15.4	17.4	19.7	20.0					20.0
0400	360	2.2		3.3	4.1	5.0	6.5	9.0	11.2	13.0	16.0	18.5	20.0	20.6					20.6
0700	360	5.0		5.5	5.7	6.2	7.8	9.8	12.3	14.4	16.5	18.7	21.6	21.7					21.7
1000	360	6.7		7.7	8.6	9.9	11.3	13.5	17.1	22.2	24.3	26.9	29.4	30.0					30.0
1300	360	8.9		9.4	10.3	11.0	12.6	14.5	17.3	20.7	23.8	26.7	30.8	32.2					32.2
1600	360	8.9		9.5	10.0	10.8	11.9	13.4	15.9	18.9	22.1	23.4	24.9	25.0					25.0
1900	360	6.7		7.6	8.2	8.8	9.7	10.8	12.6	15.0	16.5	18.3	20.6	21.7					21.7
2200	360	5.0		6.0	6.3	7.2	8.5	10.0	11.3	14.1	16.4	18.2	20.5	22.2					22.2

\* For period of record.

TABLE 9. (Continued)

HOUR	NUM OBS	ABS MIN	TEMPERATURE (C)										ABS MAX		
			0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000		99.865	
MAY	0100	372	5.6	6.1	6.6	7.7	8.8	10.0	11.7	12.5	13.0	14.0	18.0	18.9	
	0400	372	5.0	5.4	5.9	7.0	8.3	9.7	11.4	12.0	12.8	14.0	18.0	18.9	
	0700	372	6.7	7.4	7.9	8.6	9.4	10.9	12.5	14.7	16.1	18.6	21.8	22.8	
	1000	372	9.4	10.2	10.5	11.0	12.2	13.8	16.3	19.1	21.4	24.8	32.2	33.3	
	1300	372	10.6	11.5	11.9	12.6	13.3	14.8	16.8	19.1	20.8	25.3	28.9	28.9	
	1600	372	10.0	10.5	11.2	11.7	12.6	13.8	15.7	17.5	19.2	21.3	26.1	27.8	
	1900	372	8.9	8.9	9.3	9.8	10.5	11.5	13.0	14.4	15.5	16.4	22.3	25.0	
	2200	372	6.7	7.2	8.2	8.8	9.5	10.7	11.9	12.9	13.6	14.4	16.9	18.9	
	JUNE	0100	360	6.7	7.2	8.6	9.1	9.9	11.2	12.9	14.3	14.9	15.9	18.6	21.1
		0400	360	6.1	6.2	7.5	8.3	9.5	10.8	12.7	14.0	14.5	14.8	15.6	15.6
0700		360	8.9	9.0	9.4	9.8	10.4	11.7	13.6	15.1	15.7	16.0	20.8	22.8	
1000		360	10.0	10.7	11.2	11.7	12.8	14.8	16.9	18.9	20.3	21.1	23.4	23.9	
1300		360	11.1	12.4	12.8	13.5	14.3	16.0	17.8	19.0	20.3	21.7	23.7	23.9	
1600		360	11.1	11.8	12.8	12.8	13.7	15.2	17.0	18.4	19.4	20.4	23.1	23.3	
1900		360	10.0	10.4	10.8	11.1	11.7	12.9	14.5	15.8	16.6	17.2	19.7	20.0	
2200		360	7.2	9.0	9.8	9.9	10.6	11.7	13.4	14.6	15.2	15.7	16.1	16.1	
JULY		0100	372	8.3	8.7	9.5	9.9	10.8	12.0	13.3	14.5	15.1	16.2	17.2	17.8
		0400	372	7.2	7.8	8.7	9.4	10.4	11.6	13.0	13.9	14.5	15.4	17.2	18.3
	0700	372	8.9	9.0	9.6	10.0	10.8	12.1	13.6	15.5	16.4	18.7	22.9	26.1	
	1000	372	10.0	11.2	11.8	12.2	13.2	15.5	17.1	20.2	21.9	22.4	23.9	24.4	
	1300	372	11.7	13.0	13.8	14.4	15.5	16.9	18.8	20.7	22.4	23.6	26.7	27.8	
	1600	372	12.2	12.7	13.2	13.7	14.5	15.8	17.9	20.1	21.4	23.6	26.7	29.4	
	1900	372	10.0	10.6	11.2	11.6	12.2	13.6	14.9	16.3	18.6	19.4	23.9	25.6	
	2200	372	9.4	10.0	10.3	10.6	11.4	12.5	13.8	14.9	16.1	18.1	22.2	25.0	
	AUGUST	0100	360	9.4	9.8	10.3	10.5	11.5	12.8	14.0	14.9	15.3	16.3	20.5	21.1
		0400	360	8.3	8.4	9.8	10.3	11.2	12.4	13.6	14.6	15.0	16.8	21.9	24.4
0700		360	10.0	10.0	10.3	10.7	11.5	12.8	14.2	15.7	16.7	18.5	23.9	28.9	
1000		360	11.1	11.9	12.5	13.0	13.9	16.1	19.1	21.5	22.3	23.6	32.5	35.6	
1300		360	13.9	14.2	14.7	15.3	16.2	20.0	21.4	21.4	23.0	24.6	27.8	29.4	
1600		360	12.2	13.3	14.0	14.3	15.1	16.8	18.5	20.9	22.5	22.9	24.7	25.0	
1900		360	11.7	11.8	12.0	12.3	12.9	14.1	15.5	16.8	17.7	19.6	22.0	22.2	
2200		360	10.6	10.6	11.0	11.4	12.1	13.3	14.5	15.3	15.9	17.4	19.4	19.4	

TABLE 9. (Concluded)

MONTH	NUM ORS	ABS MIN	TEMPERATURE (C)							ABS MAX		
			0.135	1.000	2.280	5.000	15.000	50.000	84.100		95.000	97.720
SEPTEMBER												
0100	360	8.3	9.7	9.7	11.2	13.0	14.7	15.4	17.9	18.6	21.4	21.7
0400	360	6.8	7.7	9.2	10.9	12.8	14.6	15.9	16.9	18.6	20.6	21.1
0700	360	7.8	9.1	10.4	11.3	13.1	15.0	17.4	18.9	20.2	23.0	23.3
1000	360	10.6	11.7	12.8	14.0	16.7	21.1	25.6	29.4	31.3	34.1	34.4
1300	360	12.8	14.2	14.6	15.0	18.0	21.2	25.8	28.3	30.0	34.8	35.0
1600	360	12.8	16.0	14.2	14.6	16.3	19.6	22.5	25.6	29.6	30.3	30.6
1900	360	11.1	11.8	12.2	12.9	14.3	16.1	18.0	19.9	20.6	21.4	21.7
2200	360	9.4	10.5	11.0	11.9	13.5	15.2	16.9	17.7	18.5	20.8	21.7
OCTOBER												
0100	360	3.9	6.2	6.8	8.3	10.3	12.9	15.1	16.9	20.6	22.6	22.8
0400	360	3.9	5.9	6.7	7.9	9.9	12.4	14.7	18.0	19.1	22.5	22.8
0700	360	3.9	6.0	7.3	8.4	10.0	12.5	15.2	19.2	21.4	24.1	24.4
1000	360	10.6	11.6	12.0	12.8	14.4	17.4	23.0	30.9	32.8	33.6	33.9
1300	360	12.8	13.1	13.9	14.6	16.0	18.0	22.6	30.5	32.9	35.6	35.7
1600	360	12.2	12.5	12.9	13.6	14.7	16.4	20.0	26.8	28.3	31.1	32.2
1900	360	8.9	9.8	10.4	10.8	12.2	13.8	15.7	20.0	21.3	22.7	22.8
2200	360	5.0	7.4	8.5	9.5	11.1	13.2	15.4	19.6	21.4	23.6	23.9
NOVEMBER												
0100	360	2.8	3.1	4.5	5.6	7.9	11.2	14.1	17.1	18.5	20.6	21.1
0400	360	0.6	2.4	3.9	4.7	7.4	10.5	13.6	17.1	17.9	19.7	20.0
0700	360	1.7	2.1	3.8	4.4	7.1	10.3	13.3	17.1	17.9	21.1	21.8
1000	360	8.3	9.3	10.3	11.0	12.4	15.1	19.1	23.8	25.2	29.7	30.6
1300	360	10.6	11.5	12.2	12.8	14.2	16.8	20.5	25.5	26.3	28.0	28.9
1600	360	9.4	10.5	11.2	12.1	13.1	15.2	17.5	22.3	23.5	24.7	25.0
1900	360	5.0	6.5	7.2	8.2	10.3	12.6	14.6	17.2	17.8	20.3	21.1
2200	360	2.2	3.8	4.6	6.7	8.9	11.8	14.2	17.4	18.0	18.8	18.9
DECEMBER												
0100	360	-2.2	1.2	2.5	3.3	5.2	8.5	11.9	15.1	15.2	16.9	17.2
0400	360	-0.6	0.7	1.2	2.0	4.4	7.8	11.2	14.0	14.9	16.6	16.7
0700	360	-1.1	-0.2	0.8	1.9	3.9	7.5	10.8	14.1	14.2	18.8	20.0
1000	360	4.4	6.2	6.8	7.9	9.4	12.4	15.5	17.5	19.1	21.0	21.1
1300	360	6.1	7.6	9.7	10.8	12.2	14.8	18.6	21.9	22.9	26.6	26.7
1600	360	6.7	7.6	8.6	9.8	11.3	13.5	16.5	19.8	19.7	22.5	23.9
1900	360	2.2	4.0	4.7	5.9	7.7	10.3	12.7	15.2	16.6	18.6	18.9
2200	360	-1.7	1.7	3.0	4.2	6.3	9.1	12.3	15.8	15.9	18.0	18.3

TABLE 10. VANDENBERG AIR FORCE BASE DEW POINT TEMPERATURE

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	DEW POINT TEMPERATURE (C)					95.000	97.720	99.000	99.865	ABS* MAX
						5.000	15.900	50.000	84.100	95.000					
JANUARY															
0100	372	-14.4		-8.1	-5.0	-3.2	-0.8	4.3	9.2	11.7	13.2	13.9	14.2	14.4	14.4
0400	372	-15.6		-8.3	-6.3	-4.4	-1.7	3.6	8.9	11.7	12.7	13.8	14.4	14.4	14.4
0700	372	-12.2		-9.4	-6.9	-5.5	-2.3	2.5	8.7	11.2	12.2	12.9	13.8	14.4	14.4
1000	372	-9.4		-7.8	-6.0	-4.2	-1.0	4.9	9.5	12.3	13.0	14.0	15.3	15.6	15.6
1300	372	-7.8		-6.4	-4.9	-2.8	0.6	5.8	10.3	12.9	13.8	15.0	16.1	16.1	16.1
1600	372	-6.7		-5.5	-3.3	-1.5	1.8	6.9	10.6	13.2	14.0	14.7	15.6	16.1	16.1
1900	372	-5.6		-3.3	-2.7	-1.5	1.2	6.1	9.9	12.2	13.7	14.2	14.7	15.0	15.0
2200	372	-11.1		-7.8	-4.9	-2.2	0.2	5.3	9.7	11.9	13.5	13.8	13.9	13.9	13.9
FEBRUARY															
0100	339	-7.8		-5.6	-4.3	-2.5	0.9	5.7	9.4	11.7	12.3	13.0	14.4	14.4	15.0
0400	339	-7.2		-6.3	-4.8	-2.6	0.2	4.9	8.9	11.3	11.9	12.8	13.9	14.4	14.4
0700	339	-8.9		-7.3	-4.6	-3.3	-0.8	4.0	8.6	10.8	12.0	12.6	13.9	13.9	13.9
1000	339	-8.3		-7.2	-4.8	-2.8	0.8	6.5	10.1	12.4	13.4	14.3	15.3	15.3	15.3
1300	339	-10.6		-7.8	-4.7	-1.5	2.7	7.1	10.5	12.3	13.0	14.0	14.7	15.0	15.0
1600	339	-11.7		-3.3	-1.8	0.0	3.9	7.7	10.8	12.5	13.2	13.9	14.8	15.6	15.6
1900	339	-6.7		-2.4	-1.0	1.7	4.4	7.5	10.3	11.9	12.3	12.8	13.8	14.4	14.4
2200	339	-7.8		-3.4	-2.0	-1.1	2.6	6.6	9.7	11.8	12.4	12.4	13.8	14.4	14.4
MARCH															
0100	372	-6.1		-3.3	-2.4	-0.5	2.5	6.3	8.8	10.3	11.0	12.1	13.0	13.3	13.3
0400	372	-4.4		-3.3	-2.4	-0.6	1.7	5.6	8.5	9.7	10.7	11.1	12.8	12.8	12.8
0700	372	-5.0		-3.9	-2.4	-0.5	1.6	5.5	8.1	9.4	10.2	10.6	12.0	12.8	12.8
1000	372	-5.6		-3.2	-2.1	0.2	2.5	6.6	9.4	11.0	11.8	12.2	13.1	13.3	13.3
1300	372	-6.1		-4.0	-2.6	1.1	3.9	7.2	10.0	11.6	12.4	13.5	16.7	16.7	16.7
1600	372	-6.1		-3.3	-0.6	1.2	4.9	7.7	9.9	11.3	12.2	12.9	13.9	14.4	14.4
1900	372	-5.6		-1.6	0.6	2.8	5.0	7.6	9.4	10.7	11.5	12.2	13.1	13.9	13.9
2200	372	-4.4		-2.3	-1.2	1.2	4.0	7.1	9.3	10.4	11.3	12.4	13.4	13.9	13.9
APRIL															
0100	360	-3.3		-2.2	-0.5	1.3	4.1	6.9	9.1	10.4	10.9	11.7	12.7	13.3	13.3
0400	360	-5.0		-2.7	-1.2	0.7	3.3	6.7	9.0	10.2	10.8	11.7	12.5	12.8	12.8
0700	360	-4.4		-1.2	-0.5	1.8	3.9	7.0	9.1	10.3	10.9	11.8	12.5	12.8	12.8
1000	360	-2.2		-1.2	0.1	1.7	4.3	7.7	10.1	11.4	12.3	12.9	13.8	13.9	13.9
1300	360	-1.1		0.5	1.0	2.9	5.3	8.1	10.3	11.4	11.9	12.7	13.2	13.3	13.3
1600	360	-0.6		1.0	2.2	3.3	5.6	8.0	10.2	11.4	12.5	13.3	13.3	13.3	13.3
1900	360	-1.1		0.5	1.8	3.4	5.6	7.8	9.7	10.8	11.8	12.8	14.7	15.0	15.0
2200	360	-3.3		-0.7	1.7	2.8	4.9	7.5	9.5	10.8	11.5	12.5	13.0	13.0	13.0

\* For period of record.

TABLE 10. (Continued)

HOUR	NUM OBS	ARS MIN	DEW POINT TEMPERATURE (C)										ABS MAX
			0.1135	1.000	2.280	5.000	15.0900	50.0000	84.100	95.0000	97.720	99.0000	
MAY													
0100	372	1.1	2.7	4.1	5.0	6.3	8.2	10.1	11.3	11.8	12.1	12.7	12.8
0400	372	1.1	2.1	3.3	4.4	6.0	8.1	10.0	11.0	11.6	11.8	12.1	12.2
0700	372	1.1	2.0	3.0	5.0	6.3	8.6	10.4	11.5	11.9	12.3	12.8	13.3
1000	372	1.1	2.1	3.6	5.0	6.6	8.9	10.9	12.3	13.0	13.5	14.4	15.0
1300	372	2.8	3.9	4.8	5.5	7.1	9.0	11.1	12.4	13.0	13.8	14.7	15.7
1600	372	3.3	4.2	5.0	5.9	7.0	9.0	10.9	12.0	12.6	13.0	14.6	15.7
1900	372	3.3	3.8	4.8	5.8	7.0	8.9	10.6	11.6	12.1	12.4	13.2	13.3
2200	372	0.6	3.7	4.7	5.4	6.6	8.7	10.5	11.3	11.7	11.9	12.7	12.8
JUNE													
0100	360	3.3	5.0	6.3	7.0	8.1	9.7	11.5	12.6	13.3	13.6	14.7	15.6
0400	360	3.9	4.8	5.7	6.6	8.0	9.7	11.4	12.5	13.2	13.6	14.7	15.6
0700	360	5.6	6.5	7.0	7.5	8.6	10.1	11.7	12.9	13.5	14.0	14.7	15.0
1000	360	5.0	6.6	7.2	7.8	8.7	10.5	12.2	13.5	14.0	15.1	16.0	16.1
1300	360	5.6	6.9	7.5	8.1	9.1	10.7	12.4	13.7	14.3	14.6	16.0	16.1
1600	360	5.6	6.8	7.4	8.1	9.1	10.6	12.4	13.4	14.0	14.6	15.3	15.6
1900	360	6.1	6.5	7.0	7.6	8.7	10.4	11.9	12.9	13.4	14.0	15.0	15.6
2200	360	5.6	6.4	7.0	7.3	8.5	10.1	11.8	12.8	13.3	13.5	14.7	15.6
JULY													
0100	372	6.1	7.1	7.5	8.3	9.7	10.6	12.3	12.9	13.3	13.8	14.2	14.4
0400	372	5.6	6.3	7.5	8.2	9.3	10.5	12.0	12.8	13.2	13.6	13.8	13.9
0700	372	6.7	7.7	8.3	8.8	9.7	10.9	12.4	13.0	13.7	14.1	15.0	15.6
1000	372	6.1	8.3	8.7	9.1	10.3	11.5	12.9	14.1	14.6	15.1	16.4	17.2
1300	372	7.8	8.7	9.1	9.4	10.3	11.5	12.9	13.8	14.4	15.1	15.8	16.1
1600	372	3.3	8.4	9.1	9.4	10.4	11.4	12.7	13.6	13.9	15.1	15.5	15.6
1900	372	8.3	9.5	8.8	9.2	10.2	11.0	12.4	13.3	13.9	14.1	14.7	15.0
2200	372	1.1	7.4	8.0	8.9	9.8	10.9	12.3	13.0	13.5	13.9	13.9	13.9
AUGUST													
0100	360	6.1	7.2	8.2	9.1	10.3	11.5	12.5	13.3	13.5	13.9	14.8	15.0
0400	360	4.4	7.1	7.9	9.1	10.1	11.4	12.4	13.0	13.5	13.9	15.6	16.1
0700	360	5.0	8.3	9.2	9.7	10.3	11.5	12.6	13.3	13.6	14.0	15.3	16.1
1000	360	6.1	8.3	9.2	10.3	10.9	12.3	13.6	14.2	15.0	15.2	15.5	15.6
1300	360	6.7	8.7	9.7	9.7	10.8	12.1	13.3	14.2	14.9	15.3	16.1	16.7
1600	360	8.3	9.7	9.9	10.2	10.9	12.1	13.0	14.0	14.5	15.0	16.1	16.7
1900	360	5.6	9.2	9.6	10.1	10.8	11.9	13.0	13.6	14.1	14.4	15.6	16.1
2200	360	6.7	8.3	9.1	9.7	10.6	11.9	12.9	13.5	13.6	14.1	15.3	16.1



TABLE 10. (Concluded)

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	DEW POINT TEMPERATURE (C)					95.000	97.720	99.000	99.865	ABS MAX	
						5.000	15.900	50.000	84.100	95.000						
SEPTEMBER																
0100	360	-7.8		-1.6	0.6	5.5	8.8	11.4	12.9	14.1	14.6	14.7	15.6	16.1		
0400	360	-8.3		-3.2	-0.6	4.7	8.6	11.2	13.0	14.0	14.7	15.2	15.8	16.1		
0700	360	-8.3		-4.1	-0.8	5.0	9.2	11.3	12.9	14.0	14.7	15.2	16.1	17.2		
1000	360	-3.9		-1.3	0.7	4.4	9.9	12.2	13.9	15.1	15.7	16.2	17.1	18.0		
1300	360	-3.9		-1.0	1.7	6.5	10.0	12.1	13.9	15.0	15.8	16.4	18.0	18.0		
1600	360	-3.9		-0.7	2.5	8.1	10.3	12.0	13.8	14.8	15.2	15.8	16.7	17.2		
1900	360	-2.8		0.3	5.2	8.5	10.3	11.8	13.3	14.5	15.0	15.8	16.1	16.1		
2200	360	-2.2		-1.3	3.5	6.3	9.7	11.6	13.2	14.1	14.7	15.3	16.4	16.7		
OCTOBER																
0100	360	-6.1		-6.2	-2.6	-0.4	5.3	9.8	12.4	13.6	14.0	14.7	15.6	16.1		
0400	360	-9.4		-6.6	-4.3	-2.1	3.7	9.4	11.9	13.5	14.0	14.3	15.3	15.6		
0700	360	-9.4		-6.9	-5.6	-3.3	2.9	9.2	11.9	13.3	14.0	14.5	16.1	17.2		
1000	360	-8.9		-7.2	-4.5	-1.4	3.9	10.7	13.0	14.7	15.7	16.4	17.8	18.3		
1300	360	-6.7		-5.4	-3.0	-0.3	7.2	11.1	13.1	14.8	15.5	16.2	17.1	17.2		
1600	360	-3.3		-2.8	-0.5	2.6	8.8	11.3	13.1	14.4	15.0	15.3	16.0	16.1		
1900	360	-5.6		-3.2	-0.1	2.1	8.2	10.9	13.0	14.1	14.6	14.9	15.0	15.0		
2200	360	-3.3		-2.2	-0.5	1.3	6.1	10.5	12.6	13.9	14.4	14.7	15.0	15.0		
NOVEMBER																
0100	360	-10.6		-8.8	-4.9	-2.2	1.7	8.0	11.2	12.6	13.0	13.4	14.3	14.4		
0400	360	-15.0		-9.8	-6.2	-3.9	0.8	7.4	10.8	12.4	12.9	13.6	14.7	15.0		
0700	360	-13.9		-10.7	-8.3	-4.7	0.0	7.0	10.7	12.2	13.2	13.6	14.1	14.4		
1000	360	-11.1		-9.3	-5.4	-3.0	1.0	8.6	11.9	13.0	14.1	14.9	16.2	16.7		
1300	360	-11.7		-7.9	-6.5	-1.9	3.7	9.1	11.9	13.4	14.1	14.7	15.6	16.1		
1600	360	-7.8		-6.5	-2.9	1.2	5.5	10.2	12.2	13.4	14.1	14.7	15.5	15.6		
1900	360	-5.0		-3.7	-2.3	0.0	4.7	9.7	12.0	13.0	13.8	14.3	14.7	15.0		
2200	360	-7.8		-4.8	-2.8	-0.9	2.5	8.6	11.5	12.9	13.5	13.8	14.7	15.0		
DECEMBER																
0100	360	-13.9		-12.1	-6.4	-3.6	0.1	4.7	9.0	11.9	12.7	13.4	14.2	14.4		
0400	360	-16.1		-12.6	-6.5	-4.6	-1.0	3.9	8.8	11.4	12.7	13.5	14.2	14.4		
0700	360	-13.9		-11.1	-7.5	-5.3	-1.4	2.8	8.4	11.5	12.4	13.5	14.4	15.0		
1000	360	-13.6		-9.3	-7.7	-4.7	-0.8	4.8	9.6	12.2	13.3	14.1	15.0	15.6		
1300	360	-13.9		-7.5	-6.0	-3.0	0.9	6.4	10.3	12.7	14.2	15.1	16.0	16.1		
1600	360	-14.4		-7.1	-3.7	-1.7	2.3	7.5	11.0	12.5	13.2	14.1	15.3	15.6		
1900	360	-13.9		-9.6	-5.4	-2.6	1.5	6.9	10.3	12.1	13.1	13.5	14.7	15.0		
2200	360	-13.9		-10.4	-4.3	-3.0	0.8	5.3	9.7	12.0	13.0	13.6	14.5	15.0		

TABLE 11. VANDENBERG AIR FORCE BASE RELATIVE HUMIDITY

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.230	RELATIVE HUMIDITY (PERCENT)					90.000	99.865	ABS* MAX	
						5.000	15.000	50.000	84.100	95.000				97.420
<b>JANUARY</b>														
0100	372	20.0	28.4	32.8	40.8	56.0	80.3	92.9	96.2	98.4	99.4	100.0	100.0	
0400	372	19.0	24.9	31.8	43.3	56.1	79.2	92.9	96.1	98.2	99.3	100.0	100.0	
0700	372	23.0	26.7	32.9	40.0	55.0	77.8	92.5	96.1	98.4	99.1	100.0	100.0	
1000	372	19.0	22.7	29.0	36.7	53.8	63.8	85.0	92.9	96.0	98.5	99.6	100.0	
1300	372	17.0	18.1	20.8	23.1	33.2	55.5	77.5	90.4	93.9	96.5	99.6	100.0	
1600	372	17.0	19.4	22.1	27.9	41.9	66.5	82.6	91.0	95.7	98.8	99.8	100.0	
1900	372	21.0	29.2	32.8	41.2	58.0	79.8	92.0	99.9	99.0	99.3	100.0	100.0	
2200	372	27.0	29.1	30.3	42.8	56.3	81.6	92.8	96.1	98.5	99.4	100.0	100.0	
<b>FEBRUARY</b>														
0100	339	30.0	36.5	40.7	44.9	61.6	85.7	94.4	97.9	98.9	99.6	100.0	100.0	
0400	339	30.0	36.0	41.9	48.8	63.5	85.5	94.3	97.9	98.8	99.6	100.0	100.0	
0700	339	33.0	40.4	42.7	49.2	63.5	82.6	94.4	97.8	98.4	99.2	100.0	100.0	
1000	339	15.0	22.0	26.2	30.4	49.7	65.3	86.0	94.3	98.0	99.0	100.0	100.0	
1300	339	11.0	14.4	19.2	30.5	41.5	60.5	79.0	90.0	93.0	97.7	99.4	100.0	
1600	339	11.0	21.0	27.8	35.5	51.3	69.5	83.0	90.0	94.4	97.0	99.2	100.0	
1900	339	24.0	33.8	41.7	51.6	70.5	83.1	92.4	95.5	96.2	97.9	99.2	100.0	
2200	339	25.0	33.4	40.9	49.9	65.0	85.6	93.1	96.2	98.0	99.0	100.0	100.0	
<b>MARCH</b>														
0100	372	26.0	30.8	35.0	48.6	68.1	85.9	94.2	97.8	98.9	99.5	100.0	100.0	
0400	372	30.0	36.7	42.2	50.0	70.4	85.7	94.3	98.4	99.2	99.6	100.0	100.0	
0700	372	30.0	39.5	43.0	49.3	66.7	84.5	94.0	97.7	98.8	99.5	100.0	100.0	
1000	372	21.0	22.0	27.3	31.8	41.7	65.5	82.6	90.2	94.5	98.0	99.4	100.0	
1300	372	15.0	18.8	23.0	30.7	46.1	63.8	75.0	86.4	91.5	94.5	99.0	100.0	
1600	372	16.0	20.0	23.8	37.2	56.4	69.4	81.2	89.5	93.0	94.5	99.0	100.0	
1900	372	17.0	32.9	38.7	59.8	70.0	81.7	89.6	94.5	96.2	98.1	99.6	100.0	
2200	372	25.0	29.5	35.7	53.3	73.5	84.8	93.2	97.7	99.3	99.7	100.0	100.0	
<b>APRIL</b>														
0100	360	31.0	36.6	47.2	56.1	71.5	86.2	94.2	98.0	99.0	99.6	100.0	100.0	
0400	360	30.0	34.8	47.2	56.3	72.9	86.3	94.4	98.6	99.3	99.6	100.0	100.0	
0700	360	28.0	32.2	42.2	47.8	66.4	84.5	93.2	98.6	99.3	99.6	100.0	100.0	
1000	360	15.0	20.8	26.3	36.5	49.4	65.7	82.3	92.4	94.5	96.3	99.2	100.0	
1300	360	10.0	19.2	34.2	39.4	51.3	64.5	75.2	83.5	86.5	89.5	94.5	96.0	
1600	360	25.0	29.6	37.0	43.4	57.5	69.0	79.3	86.0	89.7	93.0	99.0	100.0	
1900	360	34.0	49.2	52.0	57.9	70.1	81.0	88.1	92.8	94.5	96.0	99.2	100.0	
2200	360	28.0	39.6	48.4	58.1	75.0	85.0	92.4	94.9	97.6	98.5	99.8	100.0	

\* For period of record.

TABLE 11. (Continued)

HOUR	NUM OBS	ABS MIN	RELATIVE HUMIDITY (PERCENT)										ABS MAX
			0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000	
<b>MAY</b>													
0100	372	32.0	47.8	70.0	74.4	80.8	87.9	96.0	98.8	99.5	99.7	100.0	100.0
0400	372	32.0	52.5	70.0	76.5	80.9	89.2	97.2	99.2	99.6	99.8	100.0	100.0
0700	372	31.0	42.9	55.0	62.6	73.2	85.0	94.7	98.6	99.4	99.7	100.0	100.0
1000	372	15.0	36.1	37.4	48.5	57.7	71.5	82.9	92.4	94.5	98.2	99.8	100.0
1300	372	21.0	34.2	43.5	51.5	59.5	67.3	77.5	83.3	87.0	91.7	96.5	97.0
1600	372	22.0	40.1	47.5	56.1	63.5	71.8	80.1	86.5	91.4	94.3	99.2	100.0
1900	372	25.0	48.7	62.4	68.8	74.3	81.7	89.9	95.2	98.6	99.3	100.0	100.0
2200	372	34.0	60.8	70.2	74.3	80.0	87.4	94.4	98.4	99.3	99.6	100.0	100.0
<b>JUNE</b>													
0100	360	31.0	71.7	75.5	78.5	83.4	91.5	96.3	99.0	99.6	99.8	100.0	100.0
0400	360	51.0	71.6	76.2	78.5	84.5	92.9	98.1	99.4	99.7	100.0	100.0	100.0
0700	360	54.0	61.6	70.4	73.8	79.9	90.0	97.8	99.0	99.6	99.8	100.0	100.0
1000	360	41.0	50.3	53.0	56.8	64.3	75.3	86.5	93.0	94.5	97.7	99.4	100.0
1300	360	40.0	51.0	54.0	56.0	62.4	70.8	79.6	85.8	91.3	93.3	96.8	96.0
1600	360	46.0	52.8	55.4	60.0	66.3	74.6	82.8	89.6	91.6	95.2	94.5	96.0
1900	360	53.0	63.9	68.3	72.0	76.3	83.4	91.5	95.2	97.9	98.7	99.9	100.0
2200	360	67.0	73.5	75.2	77.0	82.2	89.5	95.6	98.7	99.4	99.7	100.0	100.0
<b>JULY</b>													
0100	372	60.0	71.1	79.2	82.3	86.1	92.2	98.3	99.2	99.6	99.8	100.0	100.0
0400	372	58.0	77.5	81.3	84.4	87.0	93.1	98.1	99.4	99.8	99.9	100.0	100.0
0700	372	30.0	60.8	74.2	77.8	85.9	93.0	97.9	99.3	99.7	99.8	100.0	100.0
1000	372	43.0	46.7	53.6	60.7	66.8	79.5	89.6	91.0	96.0	96.3	96.9	97.0
1300	372	28.0	44.2	53.6	57.1	63.4	71.4	77.8	82.3	84.0	85.3	90.0	93.0
1600	372	19.0	46.7	52.6	59.8	66.9	74.9	81.0	86.0	88.5	91.8	93.0	93.0
1900	372	34.0	62.4	69.5	74.2	79.0	86.0	91.8	96.1	98.5	99.0	99.9	100.0
2200	372	21.0	66.7	77.2	80.9	84.9	90.3	95.9	96.8	99.5	99.8	100.0	100.0
<b>AUGUST</b>													
0100	360	44.0	56.4	77.0	81.2	86.1	92.1	97.8	99.2	99.6	99.8	100.0	100.0
0400	360	27.0	68.1	77.2	83.2	86.5	92.9	98.1	99.4	99.7	99.8	100.0	100.0
0700	360	22.0	56.8	74.1	79.4	84.9	92.7	97.9	99.3	99.6	99.8	100.0	100.0
1000	360	18.0	44.6	51.0	57.4	65.2	78.3	89.6	94.2	96.0	97.5	99.2	100.0
1300	360	28.0	40.4	46.5	54.0	61.0	69.7	75.5	81.6	85.2	87.4	93.5	96.0
1600	360	38.0	47.6	53.0	59.7	65.4	74.2	82.0	85.0	88.3	90.0	93.0	96.0
1900	360	39.0	57.4	68.1	72.2	80.0	86.3	92.9	96.0	98.0	98.8	99.9	100.0
2200	360	54.0	68.6	72.5	79.0	84.2	90.4	95.8	98.6	99.4	99.7	100.0	100.0

TABLE 11. (Concluded)

MONTH	HOUR	NUM OBS	ABS MIN	0-135	1,000	2-250	5-500	RELATIVE HUMIDITY (PERCENT)							ABS MAX
								15-300	30-500	50-600	60-700	70-800	80-900	90-1000	
SEPTEMBER	0100	360	15.0	28.0	34.4	60.0	70.2	80.2	86.8	90.2	90.6	90.8	100.0	100.0	
	0300	360	17.0	27.7	35.0	55.0	72.3	81.5	89.2	90.7	90.8	90.8	100.0	100.0	
	0500	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
	0700	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
	0900	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
	1100	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
	1300	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
	1500	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
	1700	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
	1900	360	19.0	26.8	35.1	53.0	70.9	80.0	88.2	90.7	90.8	90.8	100.0	100.0	
2200	360	22.0	28.6	41.0	63.2	80.1	89.5	91.9	93.3	99.1	99.6	100.0	100.0		
OCTOBER	0100	360	20.0	24.0	26.0	33.0	59.2	86.5	97.0	99.2	99.6	99.8	100.0	100.0	
	0400	360	19.0	25.7	26.6	29.2	54.3	86.4	97.2	99.3	99.6	99.8	100.0	100.0	
	0700	360	19.0	20.2	23.1	27.7	47.4	85.3	95.9	98.8	99.5	99.7	100.0	100.0	
	1000	360	11.0	11.0	11.5	15.4	29.2	65.3	85.7	94.6	98.7	99.0	100.0	100.0	
	1300	360	10.0	11.2	12.9	17.4	26.8	65.3	87.2	91.8	96.1	99.0	100.0	100.0	
	1600	360	14.0	15.0	19.0	23.9	51.1	72.4	84.8	90.9	94.4	96.4	100.0	100.0	
	1900	360	17.0	26.3	28.9	43.0	68.2	83.5	93.9	98.2	99.2	99.6	100.0	100.0	
	2200	360	15.0	26.5	30.2	38.4	61.3	86.5	94.7	98.8	99.5	99.7	100.0	100.0	
	NOVEMBER	0100	360	16.0	17.1	27.3	37.0	54.3	83.5	94.5	98.4	99.3	99.7	100.0	100.0
		0400	360	10.0	20.2	24.3	35.2	54.3	85.0	94.3	98.2	99.2	99.6	100.0	100.0
0700		360	12.0	15.6	23.9	31.4	53.7	83.8	94.5	98.5	99.4	99.7	100.0	100.0	
1000		360	9.0	10.8	14.8	20.0	36.2	65.0	85.0	92.0	95.8	98.2	100.0	100.0	
1300		360	8.0	10.2	12.2	20.7	38.2	59.6	76.2	86.4	91.6	94.1	96.0	96.0	
1600		360	11.0	13.6	18.3	30.0	52.7	71.6	83.5	91.4	94.4	96.2	100.0	100.0	
1900		360	19.0	26.8	32.1	43.8	62.8	83.0	92.1	96.9	98.5	99.3	100.0	100.0	
2200		360	19.0	25.8	30.3	37.5	58.4	83.5	93.4	98.0	99.1	99.6	100.0	100.0	
DECEMBER		0100	360	24.0	28.8	39.2	45.2	59.6	82.0	94.4	97.9	99.0	99.4	100.0	100.0
		0400	360	15.0	24.2	32.4	45.0	60.0	81.7	94.3	97.9	99.0	99.4	100.0	100.0
	0700	360	14.0	27.7	31.9	43.7	57.5	78.8	92.9	97.9	99.0	99.4	100.0	100.0	
	1000	360	14.0	20.7	24.6	30.6	38.7	60.3	86.0	94.3	96.0	97.7	100.0	100.0	
	1300	360	17.0	21.2	23.5	26.7	33.6	55.6	76.8	86.4	93.0	95.1	96.0	96.0	
	1600	360	18.0	21.2	23.5	31.1	43.0	67.2	83.4	91.5	94.5	97.6	99.2	100.0	
	1900	360	19.0	23.6	28.6	40.0	57.6	82.6	93.1	96.2	98.0	99.5	100.0	100.0	
	2200	360	21.0	26.8	32.6	45.0	59.1	82.0	93.5	97.7	98.8	99.3	100.0	100.0	

TABLE 12. VANDENBERG AIR FORCE BASE PRESSURE

HOUR	NUM OBS	ABS MIN	PRESSURE (NT/SQ M/100)							ABS MAX			
			0.135	1.000	2.280	5.000	15.900	50.000	84.100		95.000	97.720	99.000
JANUARY													
0100	372	990.2	992.8	995.2	997.3	1001.7	1006.1	1009.6	1011.9	1012.8	1013.2	1015.7	1017.3
0400	372	988.2	992.1	994.5	997.2	1001.4	1005.8	1009.5	1011.8	1012.3	1013.3	1015.1	1016.3
0700	372	989.5	992.6	995.4	997.2	1001.5	1006.0	1009.8	1012.0	1013.1	1013.7	1015.9	1016.6
1000	372	992.6	994.3	996.5	998.6	1002.7	1007.2	1010.9	1013.6	1014.5	1015.6	1017.4	1018.0
1300	372	990.9	994.1	995.4	997.2	1001.2	1005.8	1009.2	1011.7	1012.8	1013.9	1015.1	1015.2
1600	372	990.9	992.1	994.2	997.0	1000.7	1005.1	1008.8	1011.3	1012.3	1013.2	1014.6	1014.9
1900	372	989.4	992.6	994.6	997.0	1001.3	1005.6	1009.3	1011.3	1012.8	1013.2	1014.9	1015.6
2200	372	989.8	992.4	995.5	996.8	1001.9	1006.3	1010.0	1012.6	1013.6	1014.0	1016.1	1017.6
FEBRUARY													
0100	339	989.8	993.5	995.3	995.9	1000.5	1005.2	1009.0	1011.2	1012.4	1013.5	1014.3	1014.6
0400	339	989.2	992.4	994.3	996.0	1000.1	1004.7	1008.4	1010.7	1011.7	1013.2	1014.0	1014.2
0700	339	989.8	991.9	994.2	996.4	1000.7	1005.1	1008.9	1010.9	1011.7	1012.4	1014.9	1015.9
1000	339	990.9	992.8	995.3	997.4	1001.7	1006.1	1010.1	1012.0	1012.9	1013.9	1016.3	1018.0
1300	339	989.8	992.9	994.5	996.7	1000.4	1005.1	1008.9	1011.0	1012.0	1012.4	1016.0	1018.3
1600	339	985.8	993.0	994.0	996.0	999.7	1004.2	1008.0	1010.4	1011.0	1011.7	1014.4	1015.6
1900	339	986.8	993.2	994.3	996.3	1000.0	1004.8	1008.3	1010.6	1011.8	1012.2	1014.2	1014.9
2200	339	988.8	993.2	995.2	996.5	1000.8	1005.3	1009.0	1011.3	1012.6	1013.6	1014.6	1015.2
MARCH													
0100	372	990.9	993.9	995.2	997.8	1000.9	1004.5	1007.9	1009.8	1010.8	1011.8	1013.0	1013.2
0400	372	990.2	992.5	995.7	997.8	1000.1	1003.7	1007.1	1008.9	1009.7	1010.9	1011.8	1011.9
0700	372	989.8	993.7	995.9	998.3	1000.8	1004.5	1007.9	1009.6	1010.6	1011.5	1012.3	1012.5
1000	372	991.9	994.5	997.1	998.9	1001.7	1005.3	1008.8	1010.6	1011.3	1012.6	1013.2	1013.2
1300	372	991.2	993.2	996.2	998.3	1001.0	1004.5	1008.0	1010.0	1010.8	1011.9	1012.8	1012.9
1600	372	989.1	990.6	993.9	997.4	1000.2	1003.5	1007.0	1009.1	1009.9	1010.8	1012.0	1012.2
1900	372	989.8	992.8	994.8	997.6	1000.3	1003.7	1007.3	1009.4	1010.3	1010.9	1012.8	1012.9
2200	372	991.2	992.8	995.2	998.0	1001.0	1004.7	1007.9	1010.2	1011.0	1011.6	1013.2	1013.6
APRIL													
0100	360	990.9	995.2	995.9	997.4	999.9	1003.5	1006.2	1008.4	1009.1	1010.2	1012.2	1012.5
0400	360	989.5	994.3	995.3	996.7	999.1	1002.8	1005.4	1007.6	1008.3	1009.6	1011.3	1011.5
0700	360	990.9	994.8	996.1	997.5	999.9	1003.6	1006.2	1008.7	1009.4	1010.6	1011.9	1012.2
1000	360	991.9	995.8	996.3	998.3	1000.9	1004.3	1006.9	1009.5	1010.4	1010.9	1012.9	1013.2
1300	360	992.2	994.9	995.6	997.6	1000.3	1003.9	1006.6	1008.7	1009.7	1010.8	1012.4	1012.9
1600	360	992.9	993.9	995.3	996.6	999.5	1002.9	1005.6	1007.5	1009.0	1010.3	1010.5	1010.5
1900	360	992.6	994.0	995.6	996.9	999.3	1002.9	1005.7	1007.5	1008.8	1010.3	1010.7	1010.8
2200	360	993.9	995.2	996.3	997.8	1000.2	1003.9	1006.6	1008.5	1009.7	1010.7	1012.2	1012.5

\* For period of record.

TABLE 12. (Continued)

MONTH	HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	PRESSURE (MT/50 M/100) PERCENTILE					95.000	97.720	99.000	99.955	ABS MAX	
							5.000	15.000	50.000	75.000	90.000						
MAY	0100	372	991.9		995.1	996.9	998.0	999.9	1002.2	1003.1	1005.0	1007.4	1008.5	1009.8	1009.8	1009.8	
	0400	372	992.2		993.5	994.5	995.3	996.5	1001.0	1003.8	1005.8	1007.3	1007.9	1009.2	1009.2	1009.5	
	0700	372	991.9		993.5	995.5	997.8	1000.2	1003.0	1005.0	1007.0	1008.5	1009.0	1010.5	1010.5	1010.5	
	1000	372	993.2		994.0	995.1	996.0	1000.7	1002.3	1004.0	1006.0	1007.6	1008.5	1009.9	1010.5	1010.5	
	1300	372	993.9		995.0	997.3	998.6	1000.3	1002.7	1004.7	1006.7	1008.4	1009.4	1009.9	1010.5	1010.5	
	1600	372	993.9		995.3	996.3	997.6	998.5	1001.9	1004.6	1006.6	1008.2	1009.4	1009.9	1009.9	1009.9	
	1900	372	994.6		995.3	995.6	997.4	999.4	1001.9	1004.6	1006.6	1008.2	1009.4	1009.9	1009.9	1009.9	
	2200	372	995.3		995.6	997.3	998.3	1000.2	1002.6	1005.3	1007.3	1008.1	1008.6	1009.3	1009.5	1010.5	
	JUNE	0100	360	992.9		994.6	995.5	996.2	997.7	1000.2	1002.4	1003.8	1004.4	1005.2	1005.8	1006.1	1006.1
		0400	360	993.6		994.1	994.6	995.7	997.3	999.8	1001.8	1003.2	1004.1	1004.9	1005.2	1005.1	1005.1
0700		360	994.6		995.3	995.7	996.3	998.0	1000.6	1002.7	1003.9	1004.7	1005.2	1006.0	1006.1	1006.1	
1000		360	994.2		995.6	996.3	997.0	998.5	1001.1	1003.2	1004.6	1005.4	1005.9	1006.6	1006.8	1006.8	
1300		360	993.9		995.6	996.5	997.0	998.4	1001.1	1003.2	1004.6	1005.2	1005.9	1006.9	1007.1	1007.1	
1600		360	993.2		995.2	995.8	996.3	997.6	1000.4	1002.5	1003.8	1004.5	1005.0	1006.0	1006.1	1006.1	
1900		360	993.2		994.1	995.6	996.0	997.5	1000.2	1002.3	1003.5	1004.5	1005.1	1005.8	1005.8	1005.8	
2200		360	993.9		995.1	995.9	996.8	998.1	1000.7	1002.8	1004.1	1005.1	1005.8	1006.2	1006.2	1006.4	
JULY		0100	372	994.2		995.1	995.3	997.3	998.6	1000.5	1002.2	1003.2	1003.9	1004.5	1005.8	1006.1	1006.1
		0400	372	993.6		995.1	996.1	997.0	998.3	1000.2	1001.9	1003.0	1003.6	1003.8	1005.1	1005.4	1005.4
	0700	372	994.6		995.9	997.0	997.6	999.3	1001.2	1002.8	1003.9	1004.6	1005.1	1005.6	1006.1	1006.1	
	1000	372	994.9		996.6	997.5	998.6	999.7	1001.7	1003.5	1004.6	1005.3	1005.7	1005.9	1006.1	1006.1	
	1300	372	994.9		996.2	997.5	998.3	999.6	1001.5	1003.1	1004.3	1004.9	1005.3	1005.9	1006.1	1006.1	
	1600	372	993.6		995.4	996.8	997.6	998.8	1000.8	1002.4	1003.4	1004.2	1004.5	1005.6	1005.8	1005.8	
	1900	372	993.9		994.9	996.5	997.3	998.4	1000.4	1002.0	1002.9	1003.7	1004.2	1005.4	1005.4	1005.4	
	2200	372	994.6		995.8	997.3	997.9	999.1	1001.1	1002.7	1003.9	1004.4	1004.8	1007.2	1008.1	1008.1	
	AUGUST	0100	360	994.9		995.6	995.8	996.5	997.8	1000.0	1002.1	1003.2	1004.3	1004.8	1006.3	1006.4	1006.4
		0400	360	994.6		995.3	995.8	996.3	997.4	999.8	1001.8	1003.2	1003.7	1004.5	1006.1	1006.4	1006.4
0700		360	995.9		996.5	996.8	997.2	998.4	1000.7	1002.8	1004.1	1004.9	1005.5	1006.7	1006.8	1006.8	
1000		360	996.6		997.3	997.3	997.9	999.1	1001.4	1003.5	1004.9	1005.3	1006.2	1007.4	1007.5	1007.5	
1300		360	995.9		996.1	996.9	997.5	998.6	1000.8	1002.9	1004.4	1004.9	1005.7	1006.4	1006.5	1006.5	
1600		360	994.2		995.0	996.0	996.5	997.8	999.9	1001.9	1003.3	1004.1	1004.8	1005.6	1005.8	1005.8	
1900		360	993.9		995.5	995.9	996.3	997.3	999.5	1001.6	1003.0	1003.9	1004.7	1005.3	1005.4	1005.4	
2200		360	994.2		995.8	996.2	996.6	997.8	1000.2	1002.4	1003.7	1004.7	1005.4	1006.2	1006.4	1006.4	

TABLE 12. (Concluded)

MONTH	HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	PRESSURE (MT/SQ M/100)							ABS MAX
								PERCENTILE 15.900	50.000	84.100	95.000	97.720	99.000	99.865	
SEPTEMBER	0100	360	989.8	993.5	994.2	995.3	997.0	999.3	1001.8	1003.4	1004.1	1005.4	1005.8		
	0400	360	990.9	993.2	993.9	994.6	996.6	999.3	1001.5	1003.4	1004.4	1004.7	1005.8		
	0700	360	991.5	993.9	994.6	995.6	997.3	1000.1	1002.5	1004.7	1004.8	1005.7	1006.8		
	1000	360	992.6	994.2	995.3	996.3	998.0	1000.8	1003.1	1004.2	1005.3	1006.6	1006.8		
	1300	360	990.9	993.6	994.6	995.6	997.6	1000.3	1002.4	1003.3	1004.1	1005.2	1010.5		
	1600	360	989.5	992.9	994.2	994.9	996.6	999.3	1001.5	1002.4	1003.0	1003.8	1005.1		
	1900	360	989.2	993.3	994.0	995.3	996.6	999.2	1001.4	1002.5	1003.2	1003.8	1005.2		
	2200	360	989.5	993.6	994.2	995.6	997.3	999.8	1002.0	1003.2	1004.0	1004.4	1006.1		
	OCTOBER	0100	360	992.9	994.2	995.0	997.0	998.9	1001.8	1004.4	1005.9	1007.4	1008.3	1008.8	
		0400	360	992.9	993.8	994.6	996.2	998.5	1001.6	1003.9	1005.5	1006.7	1008.2	1008.5	
		0700	360	992.9	994.2	995.7	997.0	999.0	1002.3	1004.8	1006.3	1006.8	1008.6	1008.8	
		1000	360	992.2	995.5	996.4	997.4	1000.2	1003.0	1005.8	1007.2	1007.8	1008.5	1008.5	
1300		360	990.5	994.5	995.6	996.3	999.0	1001.9	1004.7	1006.0	1006.9	1007.4	1007.5		
1600		360	988.5	993.4	994.7	995.4	998.2	1001.2	1003.9	1005.2	1005.9	1006.5	1007.3		
1900		360	989.2	994.2	994.9	996.1	998.8	1001.7	1004.3	1005.7	1006.2	1006.8	1008.3		
2200		360	991.2	994.2	995.6	996.7	999.3	1002.3	1004.8	1006.0	1007.0	1007.5	1008.6		
NOVEMBER		0100	360	992.2	993.9	995.0	997.4	1000.4	1004.3	1007.4	1010.8	1011.3	1014.4	1014.9	
		0400	360	990.9	993.5	994.6	997.0	1000.1	1003.8	1007.1	1010.5	1011.5	1014.3	1014.6	
		0700	360	992.2	993.5	995.2	997.3	1000.5	1004.4	1007.7	1010.8	1011.6	1013.2	1016.3	
		1000	360	992.9	994.5	995.6	998.9	1001.4	1005.2	1008.7	1012.2	1012.6	1015.4	1016.9	
	1300	360	991.2	993.5	994.9	997.3	1000.1	1003.9	1007.3	1010.8	1011.4	1014.1	1015.6		
	1600	360	988.8	993.2	994.9	997.0	999.7	1003.3	1006.7	1008.8	1010.2	1010.9	1013.7		
	1900	360	989.8	993.5	995.3	997.6	1000.2	1003.8	1007.2	1010.8	1011.8	1014.2	1016.3		
	2200	360	991.9	994.1	995.9	998.0	1000.7	1004.5	1007.7	1011.1	1011.5	1014.6	1015.9		
	DECEMBER	0100	360	990.9	992.2	994.2	995.6	1000.4	1005.5	1008.9	1011.5	1012.8	1016.6	1017.3	
		0400	360	988.2	992.1	993.6	995.6	1000.3	1005.1	1008.7	1011.2	1012.4	1016.3	1016.6	
		0700	360	988.2	991.9	994.2	996.2	1000.4	1005.6	1008.9	1011.6	1012.5	1016.3	1016.6	
		1000	360	988.5	992.8	995.3	997.0	1001.8	1006.8	1010.2	1012.7	1012.8	1015.2	1018.3	
1300		360	985.1	991.8	994.2	995.3	999.9	1003.1	1008.7	1011.2	1012.4	1013.5	1014.8		
1600		360	987.1	991.8	993.3	995.3	999.4	1004.7	1008.4	1010.8	1011.8	1012.9	1014.9		
1900		360	988.8	993.2	993.9	995.7	1000.0	1005.0	1008.8	1011.3	1012.5	1013.2	1016.3		
2200		360	990.9	993.0	993.9	996.0	1000.7	1005.6	1009.1	1011.7	1013.1	1014.1	1016.6		

TABLE 13. VANDENBERG AIR FORCE BASE VAPOR PRESSURE

HOUR	NUM OSS	ABS MIN	0.125	1.000	2.250	5.000	10.000	15.000	VAPOR PRESSURE (MT/SQ M/100)				95.000	97.720	99.000	99.855	ABS MAX
									PERCENTILE								
JANUARY																	
0100	372	2.21	3.4	4.3	4.9	5.9	6.5	12.0	13.0	15.3	15.1	16.4	16.7	16.4	16.7	16.4	16.7
0200	372	3.9	3.4	4.0	4.3	4.9	7.9	11.5	13.0	14.9	15.0	16.6	16.1	16.6	16.1	16.6	16.6
0300	372	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0400	372	2.3	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0500	372	3.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0600	372	6.0	4.7	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0700	372	2.7	3.4	4.2	5.2	5.2	9.3	12.0	13.0	15.0	15.7	17.0	17.0	17.0	17.0	17.0	17.0
FEBRUARY																	
0100	339	3.5	4.0	4.4	5.0	5.0	9.2	12.0	14.0	14.5	15.4	16.7	17.4	16.7	17.4	16.7	17.4
0400	339	3.6	3.8	4.3	4.9	4.9	8.3	11.5	13.0	14.4	15.0	16.1	16.1	16.1	16.1	16.1	16.1
0700	339	5.2	3.5	4.3	4.3	5.0	8.2	11.5	13.0	14.5	14.9	16.0	16.0	16.0	16.0	16.0	16.0
1000	339	3.2	3.5	4.5	5.0	5.0	5.9	12.5	14.6	15.6	16.2	17.7	18.1	17.7	18.1	17.7	18.1
1300	339	2.9	3.4	3.9	5.5	5.5	10.3	12.9	14.5	15.5	16.1	17.1	17.4	17.1	17.4	17.1	17.4
1600	339	2.5	4.5	5.3	6.0	8.2	10.7	13.0	14.5	15.1	16.2	17.2	18.1	17.2	18.1	17.2	18.1
1900	339	3.4	4.9	5.6	6.9	8.5	10.7	12.5	14.0	14.5	14.9	15.6	16.7	15.6	16.7	15.6	16.7
2200	339	3.5	4.8	5.0	5.6	7.5	9.9	12.1	14.0	14.5	15.0	16.1	16.7	16.1	16.7	16.1	16.7
MARCH																	
0100	372	3.9	4.5	5.2	6.0	7.5	9.6	11.5	12.5	13.3	14.4	15.2	15.5	15.2	15.5	15.2	15.5
0400	372	4.4	4.8	5.2	6.0	7.0	9.2	11.1	12.4	12.9	13.5	14.9	15.0	14.9	15.0	14.9	15.0
0700	372	4.3	4.6	5.3	6.0	6.9	9.2	11.1	12.0	12.4	13.0	14.2	15.0	14.2	15.0	14.2	15.0
1000	372	4.2	4.8	5.4	6.2	7.4	9.9	12.0	13.0	13.9	14.5	15.3	15.7	15.3	15.7	15.3	15.7
1300	372	3.8	4.6	5.1	5.9	8.2	10.4	12.5	14.0	14.4	15.6	17.7	19.4	17.7	19.4	17.7	19.4
1600	372	4.0	4.8	6.0	6.3	8.8	10.7	12.4	13.5	14.4	15.0	16.2	16.7	16.2	16.7	16.2	16.7
1900	372	4.1	5.7	6.7	7.3	8.8	10.7	12.0	13.0	13.7	14.5	15.4	16.2	15.4	16.2	15.4	16.2
2200	372	4.5	5.2	5.7	6.3	8.2	10.3	12.0	12.9	13.4	14.6	15.5	16.1	15.5	16.1	15.5	16.1
APRIL																	
0100	360	4.8	5.2	6.0	6.7	8.3	10.0	11.6	12.9	13.4	14.1	15.1	15.6	15.1	15.6	15.1	15.6
0400	360	4.3	5.4	5.8	6.7	7.9	9.9	11.5	12.4	12.9	14.1	14.7	14.9	14.7	14.9	14.7	14.9
0700	360	4.5	5.5	6.0	7.0	8.2	10.3	11.6	12.4	13.4	14.4	14.7	15.1	14.7	15.1	14.7	15.1
1000	360	5.2	5.7	6.2	7.0	8.5	10.7	12.5	13.6	14.6	15.1	16.2	16.2	16.2	16.2	16.2	16.2
1300	360	6.0	6.3	6.5	7.3	9.2	11.1	12.6	13.7	14.4	15.2	15.8	16.0	15.8	16.0	15.8	16.0
1600	360	6.0	6.6	7.2	7.9	9.2	11.1	12.5	13.6	14.5	15.7	15.7	15.7	15.7	15.7	15.7	15.7
1900	360	5.7	6.4	7.0	7.9	9.2	10.7	12.0	13.0	13.9	15.1	17.1	17.4	17.1	17.4	17.1	17.4
2200	360	4.8	5.9	6.9	7.5	9.9	10.3	12.0	13.0	13.3	14.9	15.2	15.5	15.2	15.5	15.2	15.5

\* For period of record.



TABLE 13. (Continued)

	HOUR	NUM OBS	ABS MIN	VAPOR PRESSURE (INT/SQ M/100)							ABS MAX				
				0.135	1.000	2.280	5.000	15.900	50.000	84.100		95.000	97.720	99.000	99.865
MAY	0100	372	4.1	6.4	7.7	8.8	9.6	11.1	12.4	13.5	13.9	14.4	15.0	15.0	
	0400	372	6.2	7.1	7.7	8.5	9.6	11.1	12.4	13.4	13.9	13.9	14.5	14.5	
	0700	372	6.7	7.2	7.8	8.8	9.6	11.2	12.9	13.9	14.0	14.4	15.1	15.7	
	1000	372	6.7	7.1	8.1	8.8	10.0	11.6	13.4	14.5	15.1	15.7	18.2	18.6	
	1300	372	7.6	8.3	8.8	9.2	10.3	11.6	13.5	14.6	15.7	16.8	18.6	19.4	
	1600	372	7.9	8.4	8.8	9.5	10.3	11.6	13.4	14.4	15.0	15.1	17.2	18.1	
	1900	372	7.9	8.1	8.8	9.2	10.3	11.6	13.0	13.9	14.4	14.5	17.5	19.4	
	2200	372	6.5	8.0	8.5	9.2	10.0	11.5	12.9	13.5	13.9	14.0	15.0	15.0	
	JUNE	0100	360	8.0	8.8	9.6	10.0	11.1	12.0	13.9	15.0	15.6	15.7	17.1	18.1
		0400	360	7.1	8.7	9.2	9.9	10.7	12.0	13.4	14.5	15.6	15.8	17.1	18.0
0700		360	9.3	9.9	10.3	10.7	11.1	12.4	13.9	15.1	15.7	16.3	17.6	17.8	
1000		360	7.7	9.5	10.3	10.7	11.5	12.9	14.5	15.7	16.2	17.4	18.6	18.7	
1300		360	9.2	10.4	10.5	11.1	11.6	13.0	14.6	16.2	16.7	17.9	19.9	20.2	
1600		360	9.2	10.4	10.4	11.1	11.9	13.0	14.6	15.7	16.2	16.8	17.8	18.1	
1900		360	9.5	9.9	10.3	10.7	11.5	12.9	14.4	15.1	15.6	16.2	17.3	18.0	
2200		360	9.2	9.9	10.3	10.3	11.1	12.4	13.9	15.0	15.5	15.6	16.7	17.5	
JULY		0100	372	9.6	10.3	10.4	11.1	12.0	13.0	14.4	15.1	15.6	16.1	16.4	16.7
		0400	372	9.2	9.5	10.5	11.1	11.9	12.9	14.4	15.0	15.6	15.6	16.1	16.2
	0700	372	10.5	10.7	11.1	11.5	12.4	13.4	14.5	15.5	16.1	16.2	17.4	18.0	
	1000	372	9.6	11.2	11.5	12.0	12.9	14.0	15.1	16.3	16.9	17.5	20.1	20.3	
	1300	372	8.6	11.3	11.6	12.0	12.9	13.9	15.1	16.2	16.8	17.4	18.5	18.8	
	1600	372	8.1	11.6	11.8	12.0	12.9	13.6	15.1	15.7	16.3	17.3	18.1	18.2	
	1900	372	11.1	11.4	11.6	12.0	12.4	13.4	14.9	15.6	16.2	16.3	17.0	17.3	
	2200	372	6.8	10.7	11.1	11.5	12.4	13.4	14.5	15.5	15.6	16.1	16.2	16.2	
	AUGUST	0100	360	7.0	10.2	10.9	11.9	12.5	13.9	14.6	15.6	15.6	16.1	17.3	17.4
		0400	360	8.5	10.3	10.7	11.6	12.4	13.5	14.7	15.5	15.6	16.3	19.0	19.3
0700		360	9.1	11.1	11.9	12.4	12.9	13.9	15.0	15.6	16.1	16.2	17.7	18.7	
1000		360	9.8	11.2	12.0	12.6	13.4	14.6	15.7	16.7	17.4	17.6	19.5	20.7	
1300		360	10.1	11.6	12.4	12.5	13.4	14.5	15.6	16.8	17.4	18.1	19.7	20.2	
1600		360	11.2	12.2	12.4	12.6	13.4	14.4	15.6	16.2	16.8	17.9	19.1	19.5	
1900		360	9.3	12.0	12.0	12.4	13.0	14.0	15.1	15.7	16.2	16.7	18.0	18.6	
2200		360	8.4	11.1	11.6	12.0	12.9	14.0	15.1	15.7	16.1	16.2	17.8	18.8	

TABLE 13. (Concluded)

HOUR	NUM OBS	ABS MIN	VAPOR PRESSURE (NT/SQ M/100)										ABS MAX	
			0.135	1.000	2.280	5.000	15.000	50.000	84.100	95.000	97.720	99.000		99.865
SEPTEMBER														
0100	360	3.4		5.6	6.4	9.2	11.5	13.5	15.0	16.2	16.7	17.0	18.0	18.7
0400	360	3.3		4.9	6.0	8.6	11.5	13.4	15.1	16.1	16.8	17.4	18.3	19.4
0700	360	3.4		4.7	5.9	8.9	12.0	13.5	15.0	16.1	17.2	17.8	18.8	20.0
1000	360	4.6		5.6	6.8	8.5	12.6	14.5	16.2	17.4	18.2	19.0	20.3	22.3
1300	360	4.8		5.9	7.3	10.1	12.5	14.5	16.2	17.4	18.2	18.7	20.3	20.4
1600	360	4.8		6.0	7.6	11.2	12.9	14.5	16.2	17.4	17.6	18.3	18.7	18.8
1900	360	5.2		6.3	9.0	11.2	12.6	14.0	15.6	16.8	17.4	18.3	18.7	18.8
2200	360	5.3		5.6	8.0	9.6	12.0	13.9	15.6	16.2	16.8	17.5	19.0	19.4
OCTOBER														
0100	360	3.9		4.0	5.2	6.0	9.2	12.4	14.5	16.1	16.2	16.7	18.1	18.7
0400	360	3.1		3.8	4.5	5.3	8.2	12.0	14.3	15.6	16.1	16.7	17.6	18.0
0700	360	3.1		3.8	4.2	4.9	7.7	12.0	14.0	15.6	16.2	16.8	18.7	20.0
1000	360	3.4		3.6	4.5	5.7	8.2	13.0	15.5	16.8	18.0	19.0	20.9	21.6
1300	360	3.8		4.6	5.5	6.2	10.4	13.5	15.6	17.4	18.2	18.7	20.1	20.1
1600	360	4.9		5.2	6.2	7.5	11.6	13.5	15.6	16.8	17.4	17.6	18.7	18.8
1900	360	4.1		5.0	6.3	7.3	11.1	13.4	15.1	16.2	16.7	17.4	17.4	17.4
2200	360	2.8		5.3	6.1	6.8	9.7	12.9	15.0	16.1	16.7	16.8	17.3	17.4
NOVEMBER														
0100	360	2.8		3.1	4.3	5.2	7.0	11.1	13.4	15.0	15.4	15.6	16.7	16.7
0400	360	1.9		2.9	3.9	4.7	6.5	10.3	12.9	14.6	15.1	15.8	17.0	17.3
0700	360	2.2		2.8	3.3	4.4	6.2	10.3	12.9	14.4	15.5	15.8	16.4	16.7
1000	360	2.6		3.3	4.1	5.0	6.7	11.5	14.1	15.1	16.2	17.0	18.6	19.3
1300	360	2.7		3.5	4.0	5.6	8.2	11.7	14.1	15.7	16.2	16.9	18.1	18.7
1600	360	3.4		3.9	5.0	5.7	9.2	12.6	14.6	15.6	16.6	16.9	18.0	18.0
1900	360	4.3		4.7	5.2	5.2	8.5	12.0	14.3	15.6	16.1	16.7	17.1	17.4
2200	360	3.5		4.5	5.1	5.7	7.5	11.2	13.9	15.1	15.7	16.1	17.0	17.3
DECEMBER														
0100	360	2.1		2.5	4.3	4.7	6.2	8.5	11.6	13.9	15.3	15.7	16.5	16.8
0400	360	1.8		2.4	3.8	4.3	5.7	8.1	11.5	13.5	15.3	16.1	16.5	16.8
0700	360	2.1		2.7	3.5	4.1	5.5	7.5	11.1	13.9	15.5	16.1	16.8	17.4
1000	360	1.9		3.1	3.9	4.3	5.8	8.9	12.0	14.6	16.1	16.7	17.4	18.0
1300	360	2.2		3.6	3.9	4.8	6.6	9.7	12.9	15.0	16.8	17.3	18.0	18.6
1600	360	2.0		3.6	4.7	5.4	7.3	10.4	13.4	15.1	15.9	16.9	17.7	18.0
1900	360	2.1		3.1	4.2	5.2	6.9	10.0	12.8	14.5	15.5	16.3	17.1	17.4
2200	360	1.5		2.6	4.1	5.0	6.5	9.2	12.0	14.4	15.5	16.1	16.8	17.4

TABLE 14. VANDENBERG AIR FORCE BASE MIXING RATIO

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	MIXING RATIO (G/KG)								ABS* MAX
						PERCENTILE	5.000	15.900	50.000	84.100	95.000	97.720	99.000	
JANUARY														
0100	372	1.3	2.2	2.6	3.0	3.6	5.3	7.5	8.8	9.6	10.2	10.4	10.5	
0400	372	1.2	2.1	2.5	2.8	3.4	4.9	7.2	8.7	9.4	9.9	10.6	10.6	
0700	372	1.5	1.8	2.3	2.5	3.2	4.6	7.2	8.5	9.0	9.4	10.3	10.6	
1000	372	1.4	2.0	2.4	2.8	3.6	5.5	7.5	9.1	9.5	10.2	11.2	11.3	
1300	372	2.2	2.3	2.6	3.1	4.0	5.8	7.9	9.5	10.2	11.0	12.0	12.1	
1600	372	2.3	2.5	3.0	3.5	4.4	6.2	8.1	9.8	10.0	10.6	11.4	11.8	
1900	372	2.5	2.9	3.2	3.4	4.2	6.0	7.8	9.1	10.1	10.4	10.8	11.0	
2200	372	1.6	2.1	2.6	3.2	3.9	5.7	7.8	8.9	9.7	10.2	10.2	10.2	
FEBRUARY														
0100	339	2.2	2.5	2.7	3.1	4.2	5.8	7.5	8.8	9.1	9.6	10.5	10.9	
0400	339	2.2	2.3	2.7	3.0	3.9	5.5	7.2	8.4	9.1	9.4	10.1	10.5	
0700	339	2.0	2.2	2.7	3.0	3.7	5.1	7.2	8.2	9.1	9.3	10.1	10.2	
1000	339	2.0	2.1	2.8	3.1	4.1	6.2	7.8	9.1	9.8	10.2	11.2	11.3	
1300	339	1.8	2.1	2.4	3.5	4.7	6.5	8.1	9.2	9.8	10.2	10.8	10.9	
1600	339	1.6	2.6	3.3	3.7	5.1	6.7	8.2	9.2	9.6	10.2	11.3	11.4	
1900	339	1.9	2.8	3.5	4.3	5.3	6.7	7.9	8.8	9.1	9.4	10.1	10.4	
2200	339	2.2	3.0	3.1	3.4	4.7	6.2	7.6	8.7	9.1	9.4	10.1	10.5	
MARCH														
0100	372	2.7	2.8	3.2	3.7	4.7	6.0	7.2	7.8	8.4	8.8	9.5	9.7	
0400	372	2.7	3.0	3.3	3.7	4.3	5.8	7.0	7.8	8.1	8.5	9.4	9.5	
0700	372	2.7	2.9	3.3	3.7	4.3	5.8	6.9	7.5	7.8	8.1	8.9	9.4	
1000	372	2.6	3.0	3.4	3.9	4.6	6.2	7.5	8.2	8.7	8.9	9.7	9.9	
1300	372	2.4	2.9	3.2	4.1	5.2	6.5	7.8	8.8	9.1	9.6	11.2	12.3	
1600	372	2.4	3.0	2.8	4.2	5.5	6.7	7.8	8.5	9.1	9.5	10.2	10.5	
1900	372	2.5	3.6	4.2	4.7	5.6	6.7	7.5	8.1	8.6	9.1	9.7	10.1	
2200	372	2.8	3.2	3.5	4.2	5.1	6.4	7.5	8.1	8.4	9.1	9.8	10.0	
APRIL														
0100	360	3.0	3.2	3.7	4.2	5.2	6.2	7.3	8.1	8.3	8.8	9.5	9.8	
0400	360	2.7	3.4	3.6	4.1	4.9	6.2	7.2	7.8	8.2	8.8	9.3	9.4	
0700	360	2.8	3.4	3.7	4.3	5.1	6.4	7.3	7.8	8.4	8.9	9.3	9.5	
1000	360	3.2	3.6	3.9	4.3	5.3	6.7	7.8	8.6	9.2	9.5	10.2	10.2	
1300	360	3.7	4.0	4.1	4.7	5.7	7.0	7.9	8.6	9.1	9.5	10.0	10.2	
1600	360	3.7	4.2	4.5	5.0	5.8	7.0	7.8	8.5	9.3	9.9	9.9	9.9	
1900	360	3.6	4.0	4.4	4.9	5.8	6.7	7.6	8.2	8.7	9.5	10.8	11.0	
2200	360	3.0	3.7	4.4	4.7	5.6	6.5	7.5	8.2	8.8	9.4	9.8	9.8	

\* For period of record.

TABLE 14. (Continued)

	HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	MIXING RATIO (G/KG)					ABS MAX		
								PERCENTILE 15,900	50,000	84,100	95,000	97,720		99,000	99,865
MAY	0100	372	2.6	4.0	4.7	5.5	6.0	7.0	7.8	8.5	8.8	9.0	9.4	9.5	
	0400	372	3.9	4.4	4.8	5.3	6.0	7.0	7.8	8.5	8.7	8.8	9.1	9.1	
	0700	372	4.2	4.5	4.9	5.5	6.0	7.0	8.1	8.7	8.8	9.1	9.5	9.9	
	1000	372	4.2	4.5	5.1	5.5	6.2	7.2	8.4	9.1	9.6	9.9	11.5	11.7	
	1300	372	2.2	5.0	5.5	5.7	6.4	7.3	8.5	9.2	9.9	10.6	11.8	12.2	
	1600	372	5.0	5.3	5.5	6.0	6.4	7.3	8.4	9.1	9.4	9.5	11.5	12.8	
	1900	372	4.9	5.1	5.5	5.8	6.4	7.3	8.1	8.7	9.1	9.2	11.1	12.2	
	2200	372	4.0	5.1	5.3	5.8	6.2	7.2	8.1	8.5	8.8	8.8	9.4	9.4	
	JUNE	0100	360	5.0	5.5	6.0	6.3	7.0	7.6	8.8	9.5	9.8	9.9	10.9	11.5
		0400	360	4.4	5.5	5.7	6.2	6.8	7.6	8.5	9.2	9.8	10.0	10.8	11.4
0700		360	5.8	6.1	6.4	6.7	7.0	7.8	8.8	9.5	9.9	10.4	11.1	11.3	
1000		360	4.8	6.1	6.5	6.7	7.2	8.1	9.2	9.9	10.2	11.0	11.8	11.8	
1300		360	5.8	6.5	6.6	7.0	7.3	8.2	9.2	10.2	10.6	11.3	12.3	12.8	
1600		360	5.8	6.5	6.6	7.0	7.3	8.2	9.2	9.9	10.3	10.7	11.3	11.4	
1900		360	6.0	6.2	6.5	6.7	7.3	8.1	9.1	9.5	9.8	10.3	11.0	11.4	
2200		360	5.7	6.2	6.4	6.5	7.0	7.8	8.8	9.5	9.8	9.9	10.7	11.1	
JULY		0100	372	6.0	6.5	6.6	7.0	7.6	8.2	9.1	9.5	9.8	10.2	10.4	10.6
		0400	372	5.8	6.0	6.6	7.0	7.5	8.1	9.1	9.5	9.8	9.8	10.2	10.3
	0700	372	6.6	6.8	7.0	7.2	7.8	8.4	9.1	9.8	10.2	10.3	11.0	11.4	
	1000	372	6.0	7.0	7.2	7.5	8.1	8.8	9.5	10.3	10.9	11.0	12.8	12.8	
	1300	372	5.4	7.1	7.3	7.6	8.1	8.8	9.6	10.2	10.7	11.0	11.7	12.0	
	1600	372	5.1	7.3	7.4	7.6	8.1	8.6	9.5	9.9	10.6	11.0	11.5	11.5	
	1900	372	7.0	7.2	7.3	7.5	7.8	8.4	9.4	9.9	10.2	10.3	10.8	11.0	
	2200	372	4.3	6.7	7.0	7.3	7.8	8.4	9.2	9.8	9.9	10.2	10.2	10.3	
	AUGUST	0100	360	4.4	6.5	6.8	7.5	7.9	8.8	9.2	9.8	9.9	10.2	11.0	11.1
		0400	360	5.4	6.5	6.7	7.3	7.8	8.5	9.2	9.8	9.8	10.2	12.0	12.2
0700		360	5.7	7.1	7.5	7.8	8.1	8.8	9.5	9.8	10.1	10.2	11.2	11.9	
1000		360	6.1	7.2	7.7	8.0	8.4	9.2	9.9	10.6	11.0	11.0	12.3	13.1	
1300		360	6.3	7.3	7.8	7.9	8.4	9.2	9.9	10.5	11.0	11.4	12.5	12.8	
1600		360	7.1	7.8	7.9	7.9	8.5	9.1	9.9	10.3	10.6	11.2	12.1	12.4	
1900		360	5.9	7.6	7.6	7.8	8.2	8.8	9.5	9.9	10.2	10.6	11.4	11.8	
2200		360	5.3	7.0	7.3	7.6	8.2	8.8	9.5	9.9	10.1	10.2	11.3	11.9	

TABLE 14. (Concluded)

MONTH	HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	MIXING RATIO (G/KG)								ABS MAX
								PERCENTILE	15.900	50.000	84.100	95.000	97.720	99.000	99.865	
SEPTEMBER	0100	360	2.2	3.5	4.0	5.8	7.3	8.5	9.5	10.2	10.6	10.8	11.4	11.8		
	0400	360	2.1	3.1	3.8	5.4	7.2	8.5	9.6	10.2	10.6	11.0	11.6	11.8		
	0700	360	2.1	2.9	3.7	5.6	7.5	8.5	9.5	10.2	10.9	11.0	11.9	12.3		
	1000	360	2.8	3.5	4.2	5.3	7.8	9.1	10.2	11.1	11.5	11.9	12.5	12.6		
	1300	360	3.0	3.7	4.6	6.3	7.8	9.2	10.2	11.0	11.5	12.0	13.5	14.1		
	1600	360	3.0	3.9	4.8	7.0	8.1	9.1	10.3	11.0	11.2	11.9	12.9	13.0		
	1900	360	3.3	4.0	5.6	7.1	7.9	8.8	9.9	10.6	11.0	11.5	11.9	11.9		
	2200	360	3.3	3.5	5.0	6.0	7.6	8.8	9.8	10.3	10.7	11.1	12.1	12.3		
	OCTOBER	0100	360	2.4	2.5	3.3	3.7	5.7	7.8	9.2	10.1	10.2	10.6	11.4	11.8	
		0400	360	1.9	2.3	2.8	3.3	5.1	7.5	9.0	9.9	10.2	10.5	11.2	11.3	
		0700	360	1.9	2.3	2.6	3.0	4.8	7.5	8.8	9.8	10.2	10.7	11.8	12.6	
		1000	360	2.1	2.2	2.8	3.6	5.1	8.2	9.7	10.6	11.4	12.0	13.2	13.6	
1300		360	2.4	2.8	3.5	3.9	6.5	8.5	9.8	11.0	11.5	11.8	12.7	12.8		
1600		360	3.0	3.2	3.9	4.7	7.3	8.5	9.8	10.6	11.0	11.2	11.8	12.9		
1900		360	2.6	3.1	3.9	4.6	7.0	8.4	9.5	10.3	10.6	11.0	11.0	11.0		
2200		360	1.8	3.3	3.8	4.2	6.0	8.1	9.4	10.2	10.6	10.6	11.0	11.0		
NOVEMBER		0100	360	1.8	1.9	2.7	3.2	4.4	6.9	8.5	9.4	9.7	9.9	10.5	10.6	
		0400	360	1.2	1.8	2.4	2.9	4.1	6.5	8.1	9.2	9.6	9.9	10.7	10.9	
		0700	360	1.3	1.8	2.1	2.7	3.8	6.4	8.1	9.1	9.8	10.0	10.3	10.5	
		1000	360	1.6	2.0	2.6	3.1	4.2	7.2	8.8	9.5	10.3	10.7	11.8	12.3	
	1300	360	1.7	2.1	2.5	3.5	5.1	7.4	8.9	9.9	10.3	10.7	11.4	11.8		
	1600	360	2.1	2.4	3.2	4.2	5.8	7.9	9.1	9.9	10.5	10.7	11.4	11.4		
	1900	360	2.7	2.9	3.3	3.9	5.4	7.5	9.0	9.8	10.2	10.6	10.7	10.9		
	2200	360	2.2	2.8	3.2	3.6	4.7	7.0	8.7	9.5	9.9	10.2	10.7	10.9		
	DECEMBER	0100	360	1.3	1.5	2.6	2.9	3.9	5.3	7.3	8.7	9.7	9.9	10.4	10.7	
		0400	360	1.1	1.5	2.3	2.7	3.6	5.1	7.2	8.5	9.7	10.1	10.5	10.7	
		0700	360	1.3	1.7	2.2	2.6	3.4	4.7	7.0	8.7	9.7	10.1	10.6	11.1	
		1000	360	1.2	1.9	2.1	2.7	3.6	5.5	7.5	9.2	10.1	10.5	11.0	11.3	
1300		360	1.4	2.2	2.4	3.0	4.2	6.1	8.0	9.4	10.7	10.9	11.4	11.7		
1600		360	1.2	2.2	2.9	3.4	4.6	6.5	8.4	9.4	10.1	10.6	11.2	11.3		
1900		360	1.3	1.9	2.5	3.3	4.3	6.2	8.0	9.1	9.8	10.2	10.8	11.1		
2200		360	1.6	1.6	2.5	3.1	4.1	5.7	7.5	9.0	9.7	10.2	10.6	11.0		

TABLE 15. VANDENBERG AIR FORCE BASE DENSITY

HOUR	NUM OBS	ABS MIN	0.135	1.000	2.280	5.000	DENSITY (G/CM <sup>3</sup> ) PERCENTILE							ABS* MAX
							15.900	50.000	84.100	95.000	97.720	99.000	99.865	
JANUARY														
0100	372	1187.4	1197.5	1207.4	1213.3	1222.7	1238.6	1257.7	1269.3	1273.2	1276.2	1283.0	1285.3	
0400	372	1187.4	1197.5	1207.4	1213.6	1223.6	1240.8	1261.1	1272.2	1274.6	1278.9	1288.8	1290.7	
0700	372	1186.0	1201.0	1207.0	1214.2	1224.7	1244.3	1266.5	1277.3	1282.4	1287.0	1293.1	1293.3	
1000	372	1188.6	1192.1	1195.7	1199.1	1205.4	1225.1	1238.9	1251.1	1254.3	1259.1	1267.3	1272.0	
1300	372	1168.9	1172.9	1177.8	1182.8	1190.5	1211.3	1222.2	1231.9	1236.0	1239.0	1253.6	1262.7	
1600	372	1170.0	1177.0	1185.1	1189.5	1201.8	1216.5	1225.7	1232.6	1237.7	1241.7	1249.3	1252.9	
1900	372	1185.0	1192.6	1201.9	1208.3	1218.1	1229.1	1245.0	1254.5	1259.7	1263.5	1272.4	1276.5	
2200	372	1185.3	1196.3	1205.4	1211.9	1220.4	1234.8	1253.4	1264.9	1268.0	1272.8	1278.3	1279.9	
FEBRUARY														
0100	339	1194.6	1201.5	1205.2	1212.4	1221.7	1236.3	1250.4	1259.4	1266.6	1268.7	1273.2	1276.1	
0400	339	1196.5	1203.8	1207.6	1213.4	1222.9	1239.3	1254.6	1264.3	1268.9	1277.0	1280.1	1282.6	
0700	339	1197.6	1201.7	1204.1	1215.4	1224.7	1242.6	1257.8	1269.3	1275.1	1277.7	1282.5	1286.2	
1000	339	1175.4	1187.7	1194.7	1200.0	1208.0	1230.3	1230.7	1237.0	1241.3	1245.2	1254.4	1261.4	
1300	339	1165.9	1177.0	1181.1	1187.6	1198.3	1210.9	1220.7	1224.9	1227.5	1231.2	1240.0	1240.8	
1600	339	1184.5	1187.4	1192.6	1195.9	1205.7	1215.1	1222.5	1226.4	1229.5	1232.6	1238.6	1241.9	
1900	339	1192.8	1201.8	1203.7	1209.6	1218.7	1228.3	1236.4	1243.5	1246.7	1248.3	1255.7	1259.8	
2200	339	1193.1	1200.2	1206.7	1210.6	1220.9	1232.5	1247.6	1256.3	1262.1	1267.3	1275.2	1281.2	
MARCH														
0100	372	1193.4	1203.6	1207.8	1216.3	1224.8	1233.3	1246.8	1256.3	1262.0	1266.3	1269.4	1269.8	
0400	372	1200.1	1205.4	1211.5	1218.8	1226.2	1235.8	1251.7	1259.3	1266.2	1268.0	1270.5	1270.7	
0700	372	1202.5	1207.3	1213.2	1219.6	1225.4	1236.9	1251.8	1261.6	1265.3	1270.8	1272.8	1274.6	
1000	372	1169.3	1176.8	1183.9	1189.6	1203.4	1218.7	1227.6	1234.1	1237.9	1240.0	1244.7	1247.6	
1300	372	1166.6	1173.9	1177.7	1189.0	1198.4	1211.9	1220.5	1227.1	1229.2	1231.8	1235.4	1236.3	
1600	372	1162.7	1178.4	1180.9	1192.4	1205.4	1215.6	1223.2	1227.9	1230.4	1232.5	1241.0	1243.9	
1900	372	1182.0	1198.3	1205.0	1210.5	1218.5	1227.0	1234.1	1238.9	1242.1	1245.0	1247.5	1248.1	
2200	372	1188.3	1203.6	1208.1	1214.0	1221.4	1231.7	1241.7	1250.3	1254.2	1257.6	1265.6	1267.6	
APRIL														
0100	360	1184.0	1194.7	1202.5	1212.7	1221.0	1232.2	1242.8	1251.8	1255.8	1259.9	1263.5	1265.0	
0400	360	1193.6	1198.6	1199.9	1211.6	1221.4	1233.4	1245.4	1254.8	1258.6	1263.7	1267.2	1268.6	
0700	360	1174.7	1187.0	1199.8	1209.3	1217.4	1230.0	1240.7	1247.6	1250.4	1253.3	1257.8	1258.5	
1000	360	1146.0	1156.6	1169.6	1176.8	1190.9	1215.4	1225.2	1230.5	1233.3	1235.5	1243.3	1245.2	
1300	360	1139.4	1159.8	1172.8	1181.3	1196.7	1210.5	1219.6	1224.5	1227.4	1228.2	1231.4	1232.5	
1600	360	1165.5	1169.2	1177.1	1186.6	1200.9	1214.0	1221.7	1225.4	1226.8	1229.3	1231.5	1234.3	
1900	360	1181.9	1193.3	1199.3	1204.6	1214.8	1224.6	1231.5	1236.0	1238.1	1240.3	1242.3	1243.3	
2200	360	1190.3	1193.6	1198.7	1208.2	1219.0	1229.9	1238.9	1243.9	1247.7	1251.3	1254.3	1255.5	

\* For period of record.

TABLE 15. (Continued)

MONTH	HOUR	NUM ORS	ABS MIN	0.135	1.000	2.280	5.000	DENSITY (G/CC M)				95.000	97.720	99.000	99.865	ABS MAX
								15.900	50.000	84.100	95.000					
MAY	0100	372	1191.7		1202.6	1210.6	1213.8	1219.5	1227.0	1234.7	1242.3	1245.4	1248.8	1252.7	1253.8	
	0400	372	1190.4		1204.8	1211.7	1212.5	1220.5	1227.8	1237.0	1244.8	1247.9	1251.0	1254.6	1254.6	
	0700	372	1174.1		1185.2	1199.5	1207.2	1215.6	1224.4	1231.3	1236.2	1239.0	1242.5	1246.6	1247.8	
	1000	372	1134.6		1159.7	1179.7	1183.5	1202.6	1211.5	1220.1	1223.8	1226.6	1228.2	1231.3	1232.2	
	1300	372	1150.7		1159.1	1180.5	1187.6	1198.6	1207.6	1214.2	1218.7	1220.1	1223.3	1225.9	1226.8	
	1600	372	1155.0		1174.5	1186.4	1193.9	1202.4	1210.7	1216.7	1221.1	1224.2	1225.9	1227.8	1228.7	
	1900	372	1165.9		1195.5	1200.3	1205.8	1213.2	1220.1	1226.0	1230.3	1232.5	1233.5	1235.9	1237.6	
	2200	372	1191.4		1207.9	1210.3	1213.2	1218.7	1225.4	1232.0	1235.3	1238.3	1240.5	1247.2	1247.7	
	JUNE	0100	360	1175.9		1196.4	1200.9	1204.9	1210.3	1219.8	1225.7	1229.9	1233.3	1236.8	1242.8	1242.9
		0400	360	1195.0		1203.1	1202.5	1205.7	1210.9	1221.1	1226.7	1232.0	1236.4	1243.1	1247.5	1248.1
		0700	360	1169.5		1195.1	1199.3	1202.2	1207.6	1217.6	1224.3	1227.8	1230.4	1231.6	1233.0	1233.4
		1000	360	1162.6		1175.6	1173.6	1184.9	1194.9	1205.3	1214.9	1219.4	1221.6	1223.2	1224.2	1224.8
1300		360	1163.7		1170.7	1173.6	1184.1	1190.7	1200.4	1207.0	1212.1	1214.5	1215.7	1218.6	1219.2	
1600		360	1162.4		1173.3	1170.9	1186.6	1193.5	1203.1	1209.1	1214.0	1215.4	1216.4	1218.2	1218.7	
1900		360	1177.2		1189.1	1182.8	1197.5	1204.2	1212.0	1217.8	1221.6	1222.6	1224.2	1226.1	1226.2	
2200		360	1193.0		1197.2	1201.2	1203.8	1209.1	1218.2	1223.8	1227.5	1230.0	1230.9	1236.4	1240.6	
JULY		0100	372	1189.2		1196.8	1202.0	1204.3	1209.7	1215.6	1221.9	1226.1	1228.6	1229.4	1233.7	1233.8
		0400	372	1189.4		1202.6	1204.4	1206.7	1211.0	1217.4	1223.2	1227.2	1230.8	1235.1	1236.9	1237.0
		0700	372	1159.4		1191.0	1196.6	1201.0	1208.4	1215.9	1222.1	1226.3	1228.6	1229.6	1231.0	1232.0
		1000	372	1165.3		1173.1	1176.9	1180.7	1190.7	1202.6	1212.4	1218.4	1219.8	1220.9	1224.8	1226.1
	1300	372	1153.6		1165.1	1174.6	1180.4	1187.7	1196.1	1202.7	1208.2	1210.8	1212.3	1221.0	1221.4	
	1600	372	1147.6		1167.8	1176.2	1181.5	1190.5	1199.4	1206.9	1209.5	1211.9	1213.5	1215.7	1215.9	
	1900	372	1160.7		1183.3	1187.9	1196.0	1202.3	1208.9	1215.3	1218.4	1220.5	1221.8	1224.3	1224.7	
	2200	372	1164.9		1190.4	1199.4	1204.0	1208.0	1214.2	1219.7	1223.7	1226.8	1227.4	1229.0	1229.8	
	AUGUST	0100	360	1175.5		1193.1	1200.3	1202.5	1205.8	1211.9	1217.8	1222.0	1224.0	1225.3	1230.3	1232.6
		0400	360	1162.8		1192.7	1199.9	1203.6	1207.6	1213.4	1218.3	1222.3	1224.3	1226.3	1234.4	1239.4
		0700	360	1146.2		1187.0	1195.5	1199.1	1206.4	1213.4	1218.2	1222.1	1224.1	1226.5	1228.5	1228.7
		1000	360	1120.6		1163.7	1172.1	1175.8	1186.3	1198.8	1208.8	1214.0	1215.3	1216.3	1221.7	1223.6
1300		360	1142.1		1160.2	1167.5	1175.4	1182.2	1191.2	1198.4	1203.8	1205.4	1206.4	1208.6	1209.5	
1600		360	1161.0		1162.7	1167.8	1175.6	1187.0	1195.6	1201.6	1205.7	1208.2	1209.3	1213.3	1213.7	
1900		360	1170.0		1178.7	1188.2	1193.9	1199.9	1205.6	1210.8	1213.7	1215.2	1216.3	1218.6	1218.6	
2200		360	1178.5		1190.2	1197.9	1200.4	1204.1	1209.7	1215.1	1218.4	1219.8	1221.5	1225.5	1225.8	

TABLE 15. (Concluded)

HOUR	NUM ORS	ABS MIN	C.135	1.000	2.28C	5.000	DENSITY (G/CC M)					95.000	97.720	99.000	99.865	ABS MAX	
							15.900	50.000	84.100	95.000	97.720					99.000	99.865
SEPTEMBER																	
0100	360	1172.0		1179.7	1190.5	1195.1	1201.9	1210.2	1219.6	1226.0	1230.0	1232.5	1234.5	1235.0			
0400	360	1172.2		1184.0	1192.4	1196.1	1201.9	1211.2	1220.0	1228.6	1233.9	1239.6	1245.0	1246.1			
0700	360	1171.6		1175.1	1185.6	1192.3	1200.1	1211.2	1219.6	1223.8	1225.9	1229.0	1234.4	1235.5			
1000	360	1178.8		1140.4	1147.2	1156.9	1177.7	1196.1	1207.0	1213.4	1215.3	1216.7	1222.3	1225.8			
1300	360	1125.2		1145.3	1148.3	1155.8	1175.8	1190.2	1197.9	1202.8	1204.6	1207.2	1212.8	1213.6			
1600	360	1141.1		1147.8	1158.2	1170.5	1180.4	1193.5	1201.3	1205.6	1208.6	1209.8	1211.1	1211.2			
1900	360	1172.2		1179.4	1182.2	1188.6	1195.0	1204.3	1210.7	1213.5	1214.8	1216.6	1217.7	1217.8			
2200	360	1170.1		1183.2	1190.6	1193.9	1199.9	1208.9	1216.2	1220.8	1223.8	1224.8	1228.2	1229.3			
OCTOBER																	
0100	360	1170.7		1179.9	1191.7	1197.5	1203.3	1214.2	1226.3	1235.7	1242.1	1245.0	1252.7	1255.5			
0400	360	1173.8		1184.3	1193.0	1197.4	1204.7	1215.9	1228.1	1237.8	1244.2	1247.7	1253.7	1256.9			
0700	360	1166.9		1178.7	1185.7	1195.3	1203.2	1215.8	1228.1	1237.6	1241.4	1244.0	1253.7	1257.6			
1000	360	1134.8		1137.3	1146.9	1153.7	1173.8	1193.5	1208.8	1217.6	1220.9	1223.1	1226.9	1228.8			
1300	360	1123.1		1135.9	1145.4	1157.7	1171.5	1190.3	1201.8	1207.8	1210.8	1213.8	1219.2	1220.7			
1600	360	1134.5		1147.5	1158.4	1167.5	1182.7	1196.8	1206.7	1211.0	1215.6	1216.9	1220.4	1222.1			
1900	360	1175.3		1177.9	1184.0	1192.9	1199.6	1209.5	1218.1	1224.0	1227.6	1229.9	1236.5	1237.0			
2200	360	1170.0		1177.7	1187.2	1194.1	1202.4	1213.0	1222.8	1231.7	1234.5	1242.2	1249.4	1249.6			
NOVEMBER																	
0100	360	1180.1		1188.4	1196.5	1201.2	1209.0	1224.8	1241.9	1255.3	1260.5	1264.6	1268.4	1268.8			
0400	360	1183.2		1192.5	1194.2	1200.7	1211.3	1228.2	1245.8	1257.1	1261.3	1267.7	1275.4	1279.5			
0700	360	1181.4		1191.6	1198.3	1207.7	1211.4	1229.4	1247.1	1259.0	1264.2	1269.9	1274.3	1275.4			
1000	360	1146.5		1161.7	1171.8	1182.6	1192.6	1208.6	1221.5	1229.9	1234.1	1236.3	1241.9	1242.4			
1300	360	1151.4		1160.3	1167.8	1173.7	1185.4	1200.1	1211.5	1218.2	1222.2	1223.6	1226.6	1226.8			
1600	360	1170.3		1171.9	1175.9	1182.9	1194.9	1206.2	1215.2	1222.4	1227.2	1228.3	1232.2	1233.5			
1900	360	1182.3		1189.0	1193.9	1206.1	1206.8	1217.9	1229.6	1241.4	1245.8	1249.9	1258.8	1259.2			
2200	360	1189.6		1193.8	1196.3	1199.0	1209.2	1222.1	1235.7	1250.5	1256.0	1260.7	1270.6	1272.4			
DECEMBER																	
0100	360	1190.0		1198.4	1206.0	1210.4	1221.3	1239.0	1256.4	1269.5	1270.4	1279.1	1284.5	1286.3			
0400	360	1184.9		1200.4	1207.9	1212.4	1223.3	1241.2	1259.0	1271.1	1275.4	1282.8	1289.2	1289.5			
0700	360	1184.2		1198.8	1208.9	1214.0	1226.7	1245.0	1261.0	1276.3	1278.9	1284.4	1287.9	1288.1			
1000	360	1186.8		1198.3	1195.7	1201.1	1209.1	1223.4	1236.6	1245.0	1249.5	1251.1	1256.5	1260.9			
1300	360	1164.1		1171.2	1178.2	1183.6	1193.9	1210.4	1220.4	1229.3	1232.6	1237.0	1239.7	1241.8			
1600	360	1173.2		1184.2	1187.8	1193.5	1202.9	1215.7	1224.5	1231.7	1235.9	1241.1	1244.2	1245.2			
1900	360	1187.5		1193.8	1200.1	1207.1	1217.6	1229.5	1242.4	1253.3	1258.9	1261.2	1268.0	1272.0			
2200	360	1189.4		1197.2	1203.3	1207.8	1220.6	1236.6	1250.1	1261.8	1266.0	1275.4	1277.2	1279.1			



TABLE 16. VANDENBERG AIR FORCE BASE ENTHALPY

HOUR	NUM OBS	ABS MIN	ENTHALPY (Joules/G)										ABS*	
			0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000	99.865	MAX
<b>JANUARY</b>														
0100	372	25.6	26.3	28.3	29.6	32.8	39.6	47.5	52.8	55.3	58.9	59.7	59.9	
0400	372	23.4	25.8	27.4	28.0	31.3	38.4	46.8	52.1	54.9	58.0	61.0	61.0	
0700	372	22.0	24.0	25.0	26.5	30.3	37.3	46.7	51.5	53.6	55.2	60.3	60.9	
1000	372	23.7	30.8	32.7	34.3	37.5	43.7	50.6	55.0	57.3	58.9	63.5	64.0	
1300	372	29.6	34.7	36.9	38.5	42.4	48.3	54.1	57.6	61.0	64.1	68.0	68.6	
1600	372	33.5	34.7	36.9	39.0	42.5	47.7	52.7	57.3	59.9	61.0	64.4	65.8	
1900	372	28.0	31.1	32.1	33.8	37.4	43.6	49.3	54.4	58.0	59.0	60.6	60.7	
2200	372	27.6	28.3	29.2	30.7	34.4	41.9	48.8	53.5	56.4	58.4	59.6	60.0	
<b>FEBRUARY</b>														
0100	339	27.1	28.9	30.2	31.6	35.2	41.3	48.0	53.1	55.0	57.4	61.4	61.7	
0400	339	24.0	27.3	28.1	30.4	33.6	40.1	46.8	51.8	53.8	55.3	58.3	60.1	
0700	339	23.8	26.4	27.6	29.0	32.4	38.5	46.3	51.9	53.3	54.5	58.0	58.2	
1000	339	28.0	35.1	36.3	37.6	40.9	45.7	51.7	56.1	58.1	60.2	65.9	66.2	
1300	339	33.6	37.2	38.9	41.0	44.5	49.0	54.4	58.1	60.1	62.0	66.9	67.8	
1600	339	34.8	39.0	40.2	41.4	44.1	48.2	53.2	57.5	58.6	60.4	61.8	62.9	
1900	339	27.9	34.2	35.5	37.3	40.8	44.8	50.1	54.1	55.1	55.7	58.4	59.4	
2200	339	26.9	30.9	32.0	33.2	36.4	43.0	48.4	53.0	54.5	56.3	59.8	60.7	
<b>MARCH</b>														
0100	372	27.1	30.7	32.3	34.2	36.9	42.5	46.4	49.4	51.3	53.7	55.7	56.3	
0400	372	28.8	29.6	30.7	32.2	35.1	41.2	45.4	48.1	49.8	51.9	55.4	55.8	
0700	372	27.7	28.9	31.2	32.4	35.2	40.9	45.4	47.6	49.1	50.1	54.4	54.4	
1000	372	34.4	36.7	38.7	40.2	42.8	47.0	51.4	54.3	55.3	56.3	63.8	65.4	
1300	372	37.8	38.7	41.0	42.2	44.8	49.1	53.2	55.9	57.7	59.2	67.2	72.7	
1600	372	35.6	38.3	40.2	42.3	44.5	48.2	51.7	54.7	55.8	57.7	63.9	67.9	
1900	372	35.1	36.2	37.0	39.2	42.0	45.4	48.6	51.4	52.5	53.4	57.1	59.2	
2200	372	29.9	34.0	34.8	36.4	39.2	43.8	47.5	50.0	51.6	53.3	56.8	57.8	
<b>APRIL</b>														
0100	360	28.3	32.5	33.8	35.4	38.4	43.1	47.6	50.5	51.8	54.0	55.3	56.1	
0400	360	28.6	31.5	32.1	34.3	36.9	42.6	47.3	50.4	52.7	54.7	55.5	55.5	
0700	360	30.3	34.4	34.9	36.4	39.2	44.2	47.4	51.7	53.2	54.8	57.4	58.4	
1000	360	36.9	38.6	39.5	40.7	44.1	48.8	54.5	59.2	61.2	62.4	65.0	65.2	
1300	360	39.7	40.9	41.5	42.4	45.4	50.2	55.1	58.5	60.6	61.8	64.0	64.2	
1600	360	40.0	40.4	41.0	42.2	44.8	49.1	53.7	57.9	59.5	61.7	62.1	62.3	
1900	360	35.2	35.9	38.5	39.6	42.7	45.9	49.9	53.0	55.1	57.0	61.7	61.9	
2200	360	32.2	35.8	36.8	38.0	40.3	44.3	48.8	52.4	54.5	55.1	56.1	56.6	

\* For period of record.

TABLE 16. (Continued)

MONTH	HOUR	NUM OBS	ABS MIN	0.135	1,000	2,280	5,000	ENTHALPY (Joules/g)							ABS MAX	
								15,900	50,000	84,100	95,000	97,720	99,000	99,865		
MAY	0100	372	30.4		36.0	37.2	39.6	42.6	45.5	49.2	51.8	52.3	53.6	56.7	58.2	
	0400	372	33.4		35.8	36.9	38.3	41.4	45.0	49.0	51.0	51.8	52.7	54.2	54.9	
	0700	372	37.2		37.9	40.2	41.3	46.7	50.3	54.6	58.3	54.7	55.2	58.7	60.0	
	1000	372	41.1		42.1	43.4	44.7	46.4	50.3	55.9	59.2	61.1	64.2	72.4	78.1	
	1300	372	38.4		43.3	44.8	45.9	48.0	51.5	55.9	59.2	62.1	66.1	70.0	73.2	
	1600	372	41.9		42.5	44.1	45.2	47.2	50.3	54.5	57.3	59.4	60.0	65.7	68.7	
	1900	372	39.9		41.3	41.4	42.8	44.8	48.0	51.5	53.4	54.6	56.5	62.1	66.2	
	2200	372	38.0		38.4	40.2	41.4	43.6	46.7	50.2	51.8	52.8	53.8	55.3	55.6	
	JUNE	0100	360	38.5		39.5	42.1	43.1	45.7	48.3	52.9	55.8	57.3	58.1	61.2	63.2
		0400	360	37.0		38.3	39.7	41.9	45.0	48.0	52.3	54.6	56.6	58.2	60.6	62.3
0700		360	43.1		43.8	44.3	45.4	46.4	49.5	53.2	56.6	58.2	59.9	64.5	66.9	
1000		360	42.3		46.2	47.2	48.2	50.0	52.9	57.9	60.7	63.4	65.0	67.3	68.1	
1300		360	46.1		48.2	49.5	50.1	51.6	54.6	58.8	62.1	64.7	65.7	68.3	68.4	
1600		360	47.2		47.6	48.4	49.1	50.8	54.0	57.9	60.5	63.0	64.6	66.5	66.6	
1900		360	44.4		45.3	46.0	46.7	48.0	51.1	55.0	57.4	59.6	60.7	63.6	63.6	
2200		360	39.6		42.9	44.2	44.9	46.7	49.3	53.6	56.0	57.0	57.8	60.7	62.3	
JULY		0100	372	41.4		43.4	44.3	45.5	48.0	50.9	53.7	56.4	57.9	58.8	59.9	60.1
		0400	372	39.7		40.7	43.4	45.2	47.3	50.2	53.2	55.8	56.2	56.9	59.1	60.1
	0700	372	43.8		44.8	45.5	46.4	48.2	51.5	54.6	57.3	58.3	61.0	63.5	64.5	
	1000	372	46.3		47.7	48.7	50.2	52.2	55.8	59.3	63.1	66.1	67.2	69.3	70.5	
	1300	372	43.3		50.2	51.2	52.5	54.3	57.0	60.7	63.2	65.0	67.4	70.2	71.8	
	1600	372	49.1		49.6	50.4	51.6	53.2	56.0	59.2	62.2	64.2	66.8	68.6	68.8	
	1900	372	46.3		47.7	48.4	49.7	50.5	52.9	56.0	58.3	61.0	62.5	66.3	67.2	
	2200	372	44.9		45.5	46.0	47.6	49.2	51.6	54.6	57.0	58.3	58.9	60.5	61.2	
	AUGUST	0100	360	40.7		43.9	46.2	47.6	49.6	52.9	55.1	57.2	57.9	58.6	62.5	63.8
		0400	360	42.5		44.4	45.5	47.4	49.3	52.2	54.4	56.6	57.3	59.2	56.4	66.7
0700		360	46.3		47.3	47.7	48.3	50.2	52.9	55.8	57.8	59.4	59.6	64.7	67.0	
1000		360	49.5		50.7	51.8	52.3	54.0	57.2	61.5	64.2	66.4	69.0	70.8	71.3	
1300		360	51.6		53.2	53.6	54.5	56.2	59.0	62.7	65.4	67.0	68.3	69.5	69.7	
1600		360	50.9		51.5	51.9	52.2	53.1	54.8	60.8	64.0	65.6	68.2	70.3	70.6	
1900		360	49.3		49.3	50.1	50.6	52.2	54.6	57.3	59.5	60.7	63.1	63.9	66.7	
2200		360	44.3		46.9	48.1	48.0	50.9	53.6	56.4	58.0	58.8	60.1	64.7	64.8	

TABLE 16. (Concluded)

HOUR	NUM OBS	ABS MIN	ENTHALPY (JOULES/G)										ABS MAX
			0.135	1.000	2.280	5.000	15.900	50.000	84.100	95.000	97.720	99.000	
<b>SEPTEMBER</b>													
0100	360	39.5	41.1	41.9	43.2	47.7	52.4	56.4	59.2	61.0	62.3	65.4	65.7
0400	360	37.0	38.0	40.0	41.8	46.8	51.8	56.5	59.2	61.0	62.5	64.6	65.7
0700	360	42.0	43.3	44.2	45.5	48.6	52.2	56.4	59.4	61.8	62.9	64.8	66.3
1000	360	48.2	50.1	50.5	51.7	53.6	57.8	62.7	66.4	69.8	71.5	74.1	74.7
1300	360	51.1	52.0	53.0	53.7	55.5	59.2	63.4	67.2	69.7	71.8	76.2	76.4
1600	360	50.4	51.3	52.0	52.6	54.3	57.8	61.9	65.0	67.0	68.9	69.4	69.4
1900	360	46.6	47.0	48.8	49.4	51.6	54.6	58.5	61.6	63.0	64.5	65.8	65.9
2200	360	41.8	42.8	44.1	46.1	49.3	53.3	57.4	60.3	61.9	63.3	66.6	67.6
<b>OCTOBER</b>													
0100	360	30.8	35.5	38.0	39.6	44.3	50.1	55.1	57.6	59.6	60.4	63.6	63.9
0400	360	31.2	34.3	35.0	37.2	42.6	48.9	54.4	57.5	58.7	60.1	62.5	63.4
0700	360	30.4	32.2	35.6	37.9	42.5	49.0	54.3	57.3	59.3	60.3	64.4	67.3
1000	360	38.7	42.8	45.8	48.3	51.7	56.0	60.8	64.9	66.3	69.1	73.6	74.4
1300	360	41.5	46.4	49.4	51.2	53.7	58.0	64.5	66.3	67.4	70.1	72.2	72.7
1600	360	43.5	47.2	48.9	50.6	52.8	56.4	60.6	63.7	64.8	65.7	66.7	66.9
1900	360	35.3	38.7	42.5	45.4	48.9	52.5	57.0	60.2	61.1	62.0	63.5	64.0
2200	360	33.5	37.5	39.9	41.8	45.9	51.5	55.8	59.1	60.4	61.4	64.5	66.2
<b>NOVEMBER</b>													
0100	360	27.9	30.9	32.0	34.1	38.0	45.6	52.5	55.8	57.1	58.7	60.1	60.6
0400	360	26.9	29.3	30.4	33.2	36.1	44.6	51.6	55.3	57.8	58.8	60.4	61.2
0700	360	27.4	28.8	29.8	31.6	35.2	43.7	51.2	55.0	57.2	58.9	59.4	59.5
1000	360	35.3	36.8	38.5	41.4	44.2	51.5	56.8	60.3	62.2	63.7	65.6	65.7
1300	360	36.0	39.9	42.1	44.8	48.1	53.3	58.6	62.1	63.0	64.7	65.6	65.8
1600	360	36.8	39.9	42.9	44.8	47.6	52.9	57.1	60.2	61.6	62.9	64.0	64.1
1900	360	31.9	33.9	36.1	38.6	42.8	49.5	54.3	57.8	58.8	60.5	61.9	62.3
2200	360	29.4	31.8	33.4	35.9	40.1	47.3	53.4	56.4	58.5	58.8	60.7	61.0
<b>DECEMBER</b>													
0100	360	19.6	29.2	27.4	29.9	33.4	40.2	47.4	53.6	56.4	57.5	59.9	61.1
0400	360	21.9	24.9	25.6	28.2	32.0	38.6	46.6	52.1	56.4	58.1	61.0	61.8
0700	360	20.7	24.0	25.6	27.3	31.2	37.6	45.6	52.3	56.4	58.0	60.7	62.8
1000	360	25.3	30.7	32.5	34.9	38.2	44.8	50.9	55.7	58.8	60.2	62.2	63.2
1300	360	28.6	31.9	35.8	39.0	42.6	49.4	54.5	59.9	61.2	64.2	65.0	65.1
1600	360	27.7	31.1	35.9	38.8	42.5	48.6	53.6	57.6	59.0	60.9	64.0	64.6
1900	360	23.4	27.4	31.9	33.5	37.3	44.0	50.4	54.2	57.4	59.4	62.4	62.7
2200	360	19.8	27.4	28.3	31.3	35.0	41.3	48.5	53.6	57.0	58.5	61.0	62.1

## REFERENCES

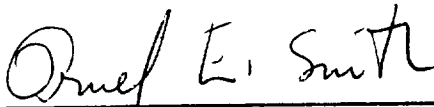
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DISTRIBUTIONS OF EIGHT METEOROLOGICAL VARIABLES AT  
CAPE KENNEDY, FLORIDA AND VANDENBERG  
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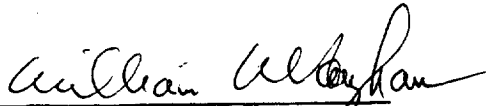
By M. E. Graves, R. L. King, and S. Clark Brown

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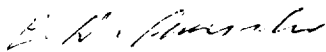
This document has also been reviewed and approved for technical accuracy.



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