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**AIR FORCE CAMBRIDGE RESEARCH LABORATORIES**

L. G. HANSCOM FIELD, BEDFORD, MASSACHUSETTS

**Wind and Temperature Profiles from  
Project Windy Acres**

**BOUNDARY LAYER BRANCH**

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METEOROLOGY LABORATORY PROJECT 7655

**AIR FORCE CAMBRIDGE RESEARCH LABORATORIES**

L. G. HANSCOM FIELD, BEDFORD, MASSACHUSETTS

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## Abstract

During an experimental program conducted in 1965 by the Boundary Layer Branch at AFCRL, data were collected in three continuous operations, each lasting approximately 12 hours. The data consist primarily of vertical profiles of wind, temperature and Richardson numbers in 15-min blocks covering periods from early evening to early morning.

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## Preface

During the summer of 1965, the Boundary Layer Branch (Meteorology Laboratory) at the Air Force Cambridge Research Laboratories conducted an experimental field program in micrometeorology. This program, nicknamed Project Windy Acres, was conducted in southwest Kansas at a site about 35 miles from the town of Liberal. Two years of intense preparation preceded these experiments; the preparation included search and selection of a suitable site, design and fabrication of a mobile computer-controlled system for fast sampling, recording and processing of outputs from various sensors, and development of many of the sensors used in the experiments.

The primary objective of Project Windy Acres was to obtain wind and temperature profiles in the first 32 m of the atmosphere as well as precise measurements of turbulent fluctuations in the wind with two newly developed three-component sonic anemometers, measurements which will be discussed in future publications.

The members of the Boundary Layer Branch who participated in Project Windy Acres are listed below:

Brown, Henry A.	Isumi, Yutaka	Newman, Jim T.
Dwyer, Joan	Kaimal, J. Chandran	Stevens, Major Donald W.
Haugen, Duane A.		Taylor, Lt. Colonel John H.

Other members of the Meteorology Laboratory who contributed to this program are:

Barad, Morton L.	Elliott, William P.	McLeod, Donald W.
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## Wind and Temperature Profiles from Project Windy Acres

### 1. INTRODUCTION

During the summer of 1965, members of the Boundary Layer Branch initiated a new experimental program, "Project Windy Acres", to investigate turbulent transfer processes in the lower atmosphere. The experiments were conducted in southwestern Kansas where the terrain approximates an ideal flat plain. The instrumentation ranged from conventional cup anemometers to newly designed three-component sonic anemometers. Data handling, processing and recording were accomplished by means of a computer controlled data-acquisition system (Kaimal, Haugen and Newman, 1966) housed in a mobile van. This system, called the MMOS (Mobile Micrometeorological Observation System), handled data from all sensors in the field. Internal calibrations and checks incorporated in the system allowed continuous, unattended operation of the system for long experiments.

As part of the experiments in 1965, profile data were collected from three continuous operations, each lasting approximately 12 hours. This report presents the processed results from these three operations. Much of the data were obtained during the night when thermal stratification was stable. Since data for stable conditions are not plentiful in meteorological literature, it is hoped that these will prove useful for studies of wind and temperature profiles. Brief descriptions of

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the site, the instrumentation, and the data editing procedures, are provided in the following sections.

## 2. DESCRIPTION OF THE SITE

The site selected for the experiments is a square mile of extremely flat land. Portions of the plot are being used by AFCRL under a long-term lease agreement with the owners. The installations at the site include a main station at the center and four remote stations as shown in Figure 1. Since the prevailing wind direction is southerly during the summer, the booms and instruments on the tower are oriented for a southerly exposure. Under the present agreement, normal farming operations are continued throughout the year. The southern and northern halves of the plot are alternately planted with wheat from year to year. Hence during the summer, when experiments are generally conducted, the half which was planted will be covered with wheat stubble, 6- to 8-inches high, while the other half will be fallow and therefore barren. During our experiments in 1965, the southern half

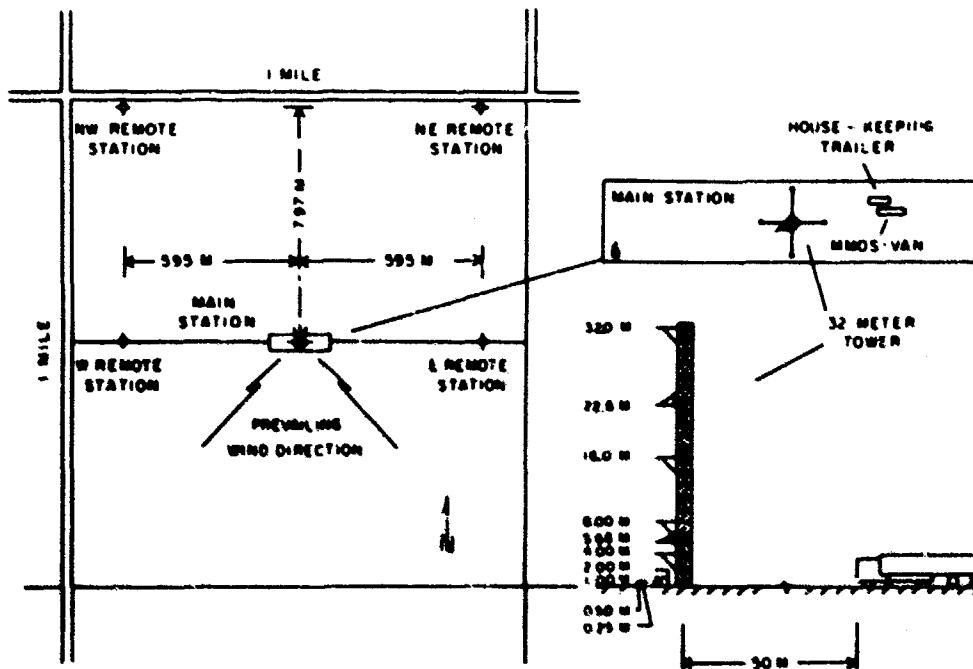


Figure 1. Plot Plan of the Experiment Site

of the plot had wheat stubble. Runs were made only when the wind direction was between WSW and ESE, so that the fetch for the main station (see Figure 1) was at least half a mile of wheat stubble. The immediate area around the tower, about 20 ft diameter, was barren due to trenching for underground conduits. Views of the exposure looking south and north are shown in Figures 2 and 3.

The main station has a 32-m tower at the center of the square-mile plot. Sensor cables from the terminal boards at different tower levels and the remote sites, are brought underground to a housekeeping trailer parked about 50 m east of the tower. The housekeeping trailer serves the dual function of storage space for the cable ends, as well as living area for project personnel. The MMCS van is installed next to the housekeeping trailer as shown in Figure 1. The sensor cables are connected to appropriate input terminals of the data-acquisition system. Power for operating the site is brought in through underground cables from the NE corner of the plot. Figure 4 shows a photograph of the main station with its tower, trailer and van.

For our experiment, the tower at the main station was instrumented at levels 0.25, 0.5, 1.0, 2.0, 4.0, 5.66, 8.0, 16.0, 22.63 and 32 m. Levels 5.66 and 22.63 m (the geometric means between 4 and 8 m and between 16 and 32 m, respectively) were assigned to fast-response sensors not used during the runs presented in this report.

The remote stations, W, E, NW and NE (see Figure 1), each measured wind speed, wind direction and ambient temperature at a height of 2 m. It should be noted that when the wind direction deviated from true south, either the W or the E remote station had a shorter fetch of wheat stubble.

### 3. WIND SPEED AND TEMPERATURE SENSORS

The wind sensor used for obtaining wind-speed and wind-direction data was a new type developed for the Boundary Layer Branch by Control Equipment Corporation. Light weight cups and direction vanes drive coaxial shafts; the cups drive the inner shaft, and the vane drives the outer shaft. The shafts turn magnetic coded discs which produce electric responses in cores as they rotate past them. Each rotation of the speed disc generates 360 output pulses. These pulses are counted to obtain wind speed, and are also used to determine wind direction. For the wind direction, pulses are counted during the time required for a special magnetic spot on the speed disc to rotate from a fixed core on the shell to a core attached to the direction shaft. The resolution of the direction measurement is  $\pm 0.5$  deg. The rate at which direction is sampled varies directly with the cup rotation, and is therefore a function of wind speed. Both speed and direction counts are

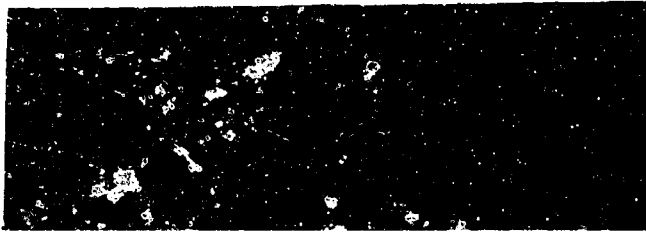


Figure 2. View from Main Tower Facing South,  
Showing Wheat stubble to a Distance of 0.5 Mile



Figure 3. View from Main Tower Facing North,  
Showing Land Under Fallow



Figure 4. The Main Station with its 32-m Tower,  
Housekeeping Trailer and MMOS Van

converted to analog voltages before being applied to inputs of the data-acquisition system.

One of the anemometers was calibrated in the low-speed wind tunnel at the National Bureau of Standards. It showed a starting speed of approximately  $40 \text{ cm sec}^{-1}$ , and a highly linear relationship between wind speed and pulse count. The distance constant for wind speed is approximately 2 m per revolution. All other anemometers were compared against the calibrated "standard" under a wide range of wind speeds at the field site in Kansas. In all cases, agreement is within  $\pm 5 \text{ cm sec}^{-1}$  for 10-min mean samples.

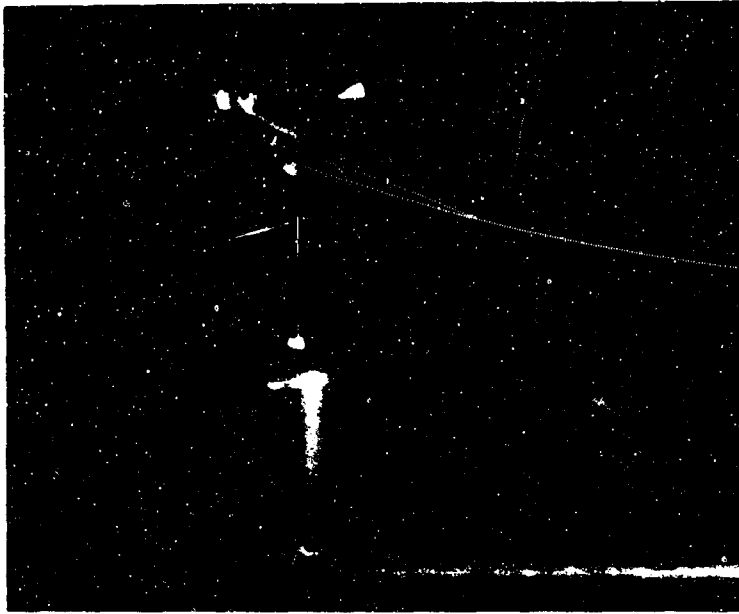
Temperature gradients were measured with a high resolution system using shielded and aspirated platinum-resistance elements (Stevens, 1967). The sensors were dual-wound, glass-encapsulated elements in a bridge circuit. The two windings in each glass tube were used in diagonal arms of the bridge to improve output sensitivity and linearity. The potential accuracy of the system is  $\pm 0.01 \text{ C}$  for temperature difference and  $\pm 0.05 \text{ C}$  for temperature measurements. The wiring design (since modified) for Project Windy Acres was not fully compensated for temperature effects in the cable, and this resulted in a slight degradation in accuracy. For the temperature difference measurement, the maximum degradation is estimated to be approximately  $\pm 3$  percent of the observed temperature difference. In the temperature measurement, it is less than  $\pm 0.3 \text{ C}$ .

The accuracy in the data-acquisition system is higher than the individual accuracy of any of the sensors. The system maintains an accuracy better than 0.1 percent of full scale which, translated into meteorological units, corresponds to  $3.5 \text{ cm sec}^{-1}$  for wind speed,  $0.36 \text{ deg}$  for wind direction,  $0.01 \text{ C}$  for temperature difference and  $0.05 \text{ C}$  for temperature.

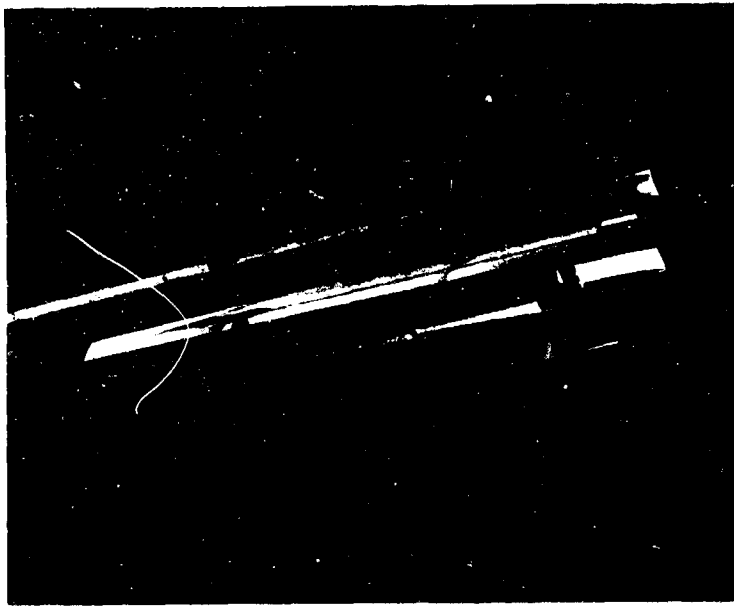
Photographs of a wind sensor and temperature sensor are shown in Figures 5 and 6. The close-up view of the tower in Figure 7 shows the relative orientation of the instrument booms during operation. (The two sonic anemometers at 5.66 and 22.63 m were not operated during the periods covered in this report.)

#### 4. DATA EDITING AND PRESENTATION OF RESULTS

The collected data represent 15-min averages of simultaneous (within 0.05 sec) scans of all sensors once per second. Runs are numbered as 1, 2, 3, 4, 5 and 6 and the letters following the run numbers denote successive 15-min periods. The letters "I" and "O" are not used to avoid confusion with the numbers "one" and "zero." Run numbers change at midnight from 1 to 2, 3 to 4 and 5 to 6. The time shown at the top of each listing is the time at the end of that particular 15-min period. The runs and their date-time information are listed in Table 1.



**Figure 5. Wind Speed and Direction Sensor**



**Figure 6. Temperature Sensor in Aspirated Shield**



Figure 7. Close-up of 32-m Tower Showing the Cup Anemometers, Temperature Shields and Sonic Anemometers

Table 1. Runs for Which Data are Presented

Run No.	Periods	Start (CST)	End (CST)	Date
1	A-L	2135	0005	12/13 Aug 1965
2	A-LL	0005	0850	13 Aug 1965
3	A-J	2200	0000	13 Aug 1965
4	A-LL	0000	0845	14 Aug 1965
5	A-T	1950	0005	14/15 Aug 1965
6	A-JJ	0005	0820	15 Aug 1965

Some of the measurements made in the field are not listed in this report. Data from the remote stations are not shown since they were intended primarily for checking the horizontal homogeneity of the site. Not all remote measurements were useful for this purpose. The NW and NE stations had different fetch; also, the remote direction vanes had orientation offsets. The wind speed and temperature readings at the W and E stations on the average agreed with the main station readings, within the accuracy of the sensors.

The temperature differences ( $\Delta T$ ) are converted to approximate potential temperature differences ( $\Delta\theta$ ) through the relationship

$$\Delta\theta = \Delta T + \Gamma\Delta Z$$

where  $\Gamma$  is the adiabatic lapse rate and  $\Delta Z$  is the appropriate height difference.

The potential temperature profiles were obtained by algebraically adding the derived  $\Delta\theta$  values to the observed ambient temperature at 2 m. Values thus obtained are not strictly potential temperature, but they are adequate for showing progressive changes in the profile.

It should be noted here that a fixed correction of -0.04 C has been applied to the  $\Delta\theta$  value between 1.0 and 2.0 m. Before this correction was made, a constant offset of 0.04 C was observed in all the potential temperature profiles as though a zero shift had occurred in the sensor. The correction smoothed the potential temperature as well as the Richardson number profiles, for all the 15-min periods.

Richardson numbers were computed using the logarithmic interpolation formula

$$R_1 = \frac{g(\Delta\theta)Z \ln(Z_1/Z_2)}{\theta(\Delta U)^2}$$

where

$$\theta = \bar{T}$$

$$\bar{T} = T_1 + \Delta T \frac{Z_2 \ln(Z_2/Z_1) - \Delta Z}{\Delta Z \ln(Z_2/Z_1)}$$

$$Z = (Z_1/Z_2)^{1/2}$$

and  $Z_1$  and  $Z_2$  are the heights of the bottom and top of the layer under consideration. Table 2 shows the layers for which Richardson numbers were computed.

Table 2. Heights of Bottom, Top and Geometrical Mean of Layers for Which Richardson Numbers were Computed

$Z_1$ (m)	$Z_2$ (m)	Z (m)
0.25	0.5	0.354
0.25	1.0	0.5
0.5	1.0	0.767
0.5	2.0	1.0
1.0	2.0	1.414
1.0	4.0	2.0
2.0	4.0	2.83
2.0	8.0	4.0
4.0	8.0	5.66
4.0	16.0	8.0
8.0	16.0	11.31
8.0	32.0	16.0
16.0	32.0	22.63

Tabulated data for all the runs listed in Table 1 are presented in Table 3. A separate page is devoted to every 15-min period. The first half of each page lists data for wind speeds, wind directions and temperatures, consisting of values of the mean, standard deviation (denoted by 'sigma'), skewness and kurtosis. The second half lists wind speed gradients, potential temperature gradients, potential temperatures and Richardson numbers.

Units are indicated for each parameter except for skewness and kurtosis which are in hundredths; that is, skewness of  $-48 = -0.48$ , and kurtosis of  $296 = 2.96$ .

Missing data are indicated by dashed lines. In editing the data, it was found that a timing error in the system program occasionally affected skewness and kurtosis computations. These skewness and kurtosis values were eliminated in the editing process. Richardson numbers are shown missing during a few light wind conditions when the wind speeds were too low to obtain reliable values.

##### 5. DISCUSSION OF DATA

All the data presented in Table 3 have been plotted and examined for possible discrepancies. In general, the profiles appear to be very good. Typical plots for stable, neutral and unstable lapse rates are shown in Figures 8, 9 and 10.



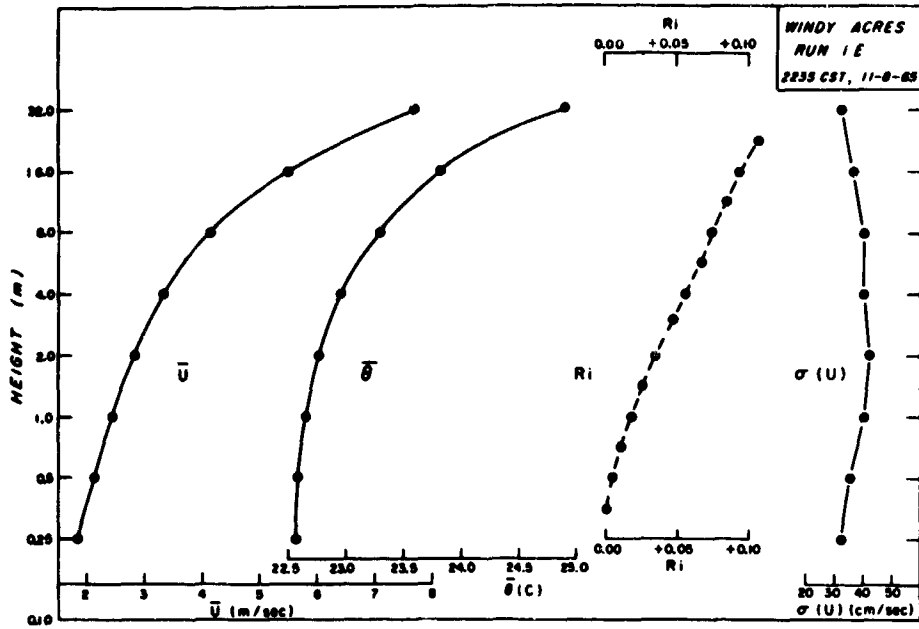


Figure 8. Typical Profiles for Stable Lapse Rate

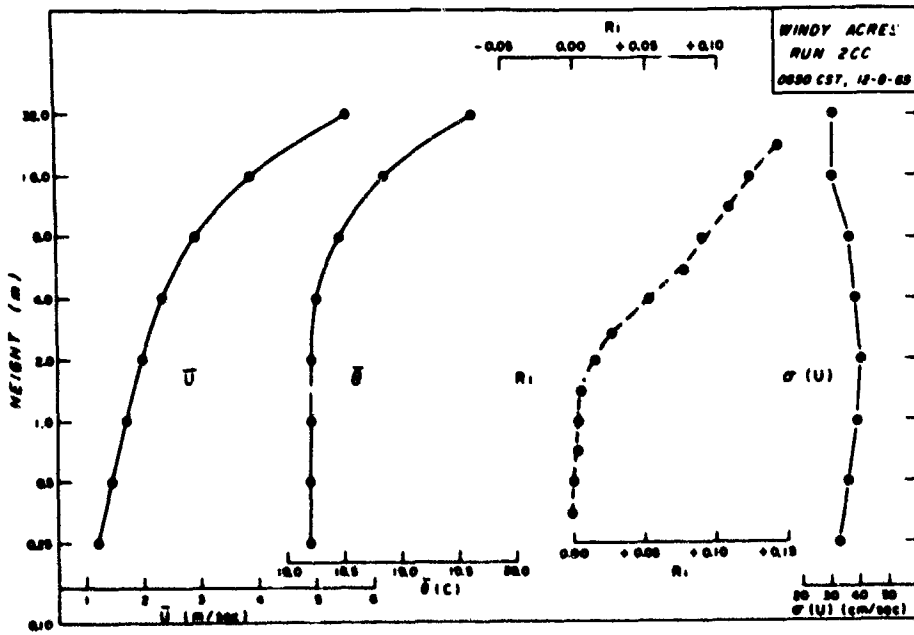


Figure 9. Typical Profile for Neutral Lapse Rate

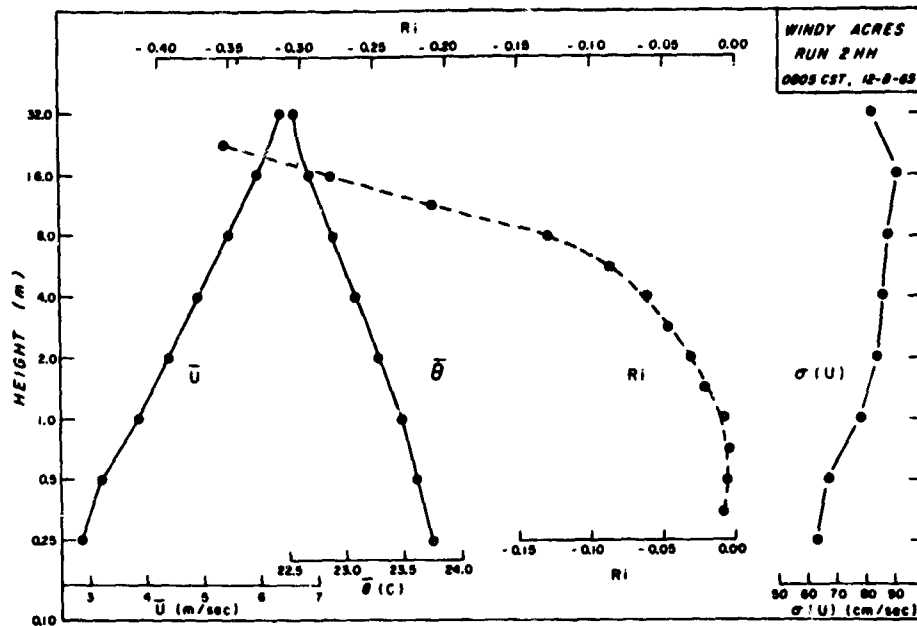


Figure 10. Typical Profile for Unstable Lapse Rate

Departures from expected behavior have been observed in some of the wind profiles. One in particular is the overestimate in the 0.25-m wind speed under unstable conditions (see Figure 10). This departure at 0.25 m must be partly due to the effect of the relatively bare ground 15 to 20 ft around the tower at the main station. It is also found that under unstable conditions and wind speeds above 5 m sec<sup>-1</sup> (for example, Runs 4JJ to 4LL), the 4.0-m level reads about 1 percent too low. The reason for this is not known.

Under stable conditions, the wind speed at 0.25 m shows an underestimate when the mean wind speed at that level dropped below 1 m sec<sup>-1</sup>. Examples of this are found in Runs 4P to 4EE, and Runs 6A to 6R. The underestimate is attributed to a slightly higher starting-speed for the anemometer at 0.25 m. The erratic wind profiles in Runs 4X to 4DD correspond to very low wind speeds at all levels below 4 m.

The potential temperature profiles appear smooth under all stability conditions; the Richardson number profiles are reasonably smooth and show appreciable kinks only when wind speeds are too low to be reliable.

The roughness length  $Z_0$  for these data is determined from the expression

$$U_s = \frac{u^*}{k} \ln \frac{Z}{Z_0}$$

where  $U_z$  = wind speed at height  $Z$   
 $u^*$  = friction velocity  
 $k$  = von Karman's constant .

Considering the four levels,  $Z = 0.5, 1.0, 2.0,$  and  $4.0$  m.

$$\frac{U_4 + U_2 - U_1 - U_{0.5}}{U_4 + U_2 + U_1 + U_{0.5}} = \frac{\ln 16}{\ln 4 - 4 \ln Z_0} .$$

The ratio on the left is plotted in Figure 11 as a function of stability ratio, S. R. where

$$\text{S. R.} = \frac{\theta_4 - \theta_{0.5}}{(U_2)^2} .$$

From Figure 11, the velocity ratio appears to be approximately 0.142 at S. R. = 0. This corresponds to a  $Z_0$  of 1.07 cm.

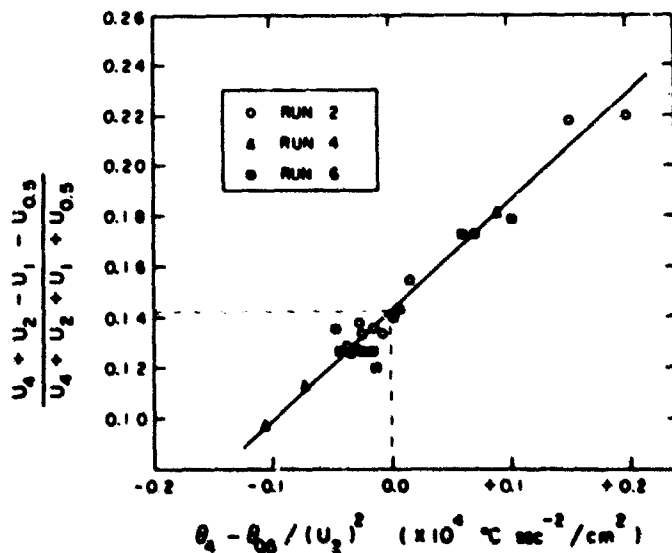


Figure 11. Wind Speed Ratio Plotted as a Function of Stability Ratio

### Acknowledgments

The members of the Boundary Layer Branch are indebted to Dr. Morton L. Barad for his advice, suggestions and help in planning and executing the field program. Mr. Ray Silva of the Logistics Support Branch of AFCRL helped in the selection and leasing of the experimental site; Messrs John Burns and Robert Hurley of the same Branch were responsible for engineering details of the site preparation.

Table 3. Profile Data for Runs 1 to 6.

	Z(1)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	231	44	-24	262
	0.50	261	44	-14	276
	1.0	302	50	-19	288
	2.0	344	55	-8	286
	4.0	395	53	-2	282
	8.0	483	52	-16	277
	16.0	598	51	19	330
	32.0	762	44	-5	173
WIND DIRECTION (0.1 DEG)	2	1695	72	0	245
	32	2331	33	-2	279
TEMPERATURE (0.01C)	2	2400	0	-32	220

Z(1)	A-SPEED	Δ-TIME	T-META	R1	Z(1)
0.25	30	3	2467	.002686	0.25
0.50	71	11	2470	.004977	0.50
0.71	41	6	2476	.007675	0.71
1.00	63	20	2478	.013241	1.00
1.41	42	12	2490	.021940	1.41
2.00	93	28	2490	.029521	2.00
2.83	51	14	2506	.039661	2.83
4.00	139	46	2506	.043389	4.00
5.66	68	30	2536	.049915	5.66
8.00	203	70	2536	.061851	8.00
11.31	115	40	2576	.077849	11.31
16.00	299	107	2576	.087005	16.00
22.83	184	67	2603	.101866	22.83
32.00					32.00

WINDY ACRES RUN NO. 1A

11 AUG 68 2138 C87

Table 3 (Continued)

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WINDY ACRES RUN NO. 10					
11 AUG 68 2150 CST					
WIND SPEED (CM/SEC)	0.25	239	40	-32	262
	0.50	266	41	-28	264
	1.0	312	47	-16	242
	2.0	358	48	-22	264
	4.0	408	53	-16	290
	6.0	491	53	-19	247
	10.0	609	55	-27	337
	32.0	606	44	11	174
WIND DIRECTION (0.1 DEG)	2	2003	70	-3	362
	32	2336	20	-16	340
TEMPERATURE (0.01C)	2	2467	6	-12	220
Z(M)	0.25	3	2444		0.25
	0.50	11	2447		0.35
	0.71	6	2459		0.50
	1.00	20	2467		0.71
	1.41	12	2467		1.00
	2.00	27	2482		1.41
	2.83	15	2510		2.00
	4.00	43	2550		2.83
	5.66	28	2618		4.00
	8.00	68			5.66
	11.31	40			8.00
	16.00	104			11.31
	32.00	69			16.00
					32.00
Z(M)	0.25	0.02679			0.25
	0.50	-0.04711			0.35
	0.71	-0.06670			0.50
	1.00	-0.11270			0.71
	1.41	-0.16303			1.00
	2.00	-0.26737			1.41
	2.83	-0.38715			2.00
	4.00	-0.44336			2.83
	5.66	-0.52413			4.00
	8.00	-0.61337			5.66
	11.31	-0.74005			8.00
	16.00	-0.9191			11.31
	32.00	-0.90109			16.00
					32.00
Z(M)	0.25	2444			0.25
	0.50	2447			0.35
	0.71	2459			0.50
	1.00	2467			0.71
	1.41	2467			1.00
	2.00	2482			1.41
	2.83	2510			2.00
	4.00	2550			2.83
	5.66	2618			4.00
	8.00				5.66
	11.31				8.00
	16.00				11.31
	32.00				16.00
Z(M)	0.25	0.02679			0.25
	0.50	-0.04711			0.35
	0.71	-0.06670			0.50
	1.00	-0.11270			0.71
	1.41	-0.16303			1.00
	2.00	-0.26737			1.41
	2.83	-0.38715			2.00
	4.00	-0.44336			2.83
	5.66	-0.52413			4.00
	8.00	-0.61337			5.66
	11.31	-0.74005			8.00
	16.00	-0.9191			11.31
	32.00	-0.90109			16.00
					32.00

11 AUG 65 2205 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 1C

	Z(M)	MEAN	S.D.MA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	200	37	-41	312
	0.50	225	38	-37	309
	1.0	264	44	-54	317
	2.0	307	48	-45	309
	4.0	355	52	-13	278
	8.0	430	50	-16	286
	16.0	545	49	-23	284
	32.0	726	48	-29	231
WIND DIRECTION (0.1 DEG)	2	2010	71	-1	297
	32	2335	27	-37	141
TEMPERATURE (0.01C)	2	2406	30	8	191

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	25	3	2382	.003861	0.25
0.35	64	11	2365	.006143	0.35
0.50	39	6		.008508	0.50
0.71	62	21	2393	.014296	0.71
1.00	43	13		.022740	1.41
1.41	91	31	2406	.034233	2.00
2.00	48	18		.050511	2.83
2.83	123	47	2424	.056775	2.83
4.00	75	29		.066613	4.00
5.66	190	67	245	.067768	5.66
8.00	115	36		.074166	8.00
11.31	256	104	2491	.069534	11.31
16.00	181	66		.103613	16.00
22.63			2557		22.63
32.00					32.00

Table 3 (Continued)

MINDY ACRES RUN NO. 1D 11 AUG 65 2220 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	177	32	-45	292
	0.50	201	35	-42	310
	1.0	235	39	-51	258
	2.0	271	42	-36	282
	4.0	320	41	-18	221
	8.0	400	38	-13	230
	16.0	514	34	-12	275
32.0	720	37	-12	255	
WIND DIRECTION (0.1 DEG)	2	2114	75	2	259
	32	2416	35	0	277
TEMPERATURE (0.01C)	2	2333	13	-1	214
Z(M)	4-SPEED	4-THETA	T-META	RI	Z(M)
0.25	24	2	2310	-002614	0.25
0.35	56	10	2312	-006816	0.35
0.50	34	6	2320	-011221	0.50
0.71	70	21	2320	-019652	0.71
1.00	36	13	2333	-032524	1.00
2.00	95	31	2351	-039333	1.41
2.63	49	18	2363	-048589	2.00
4.00	129	50	2420	-055043	2.63
5.66	80	32	2508	-064758	4.00
8.00	194	77		-074873	5.66
11.31	114	45		-089574	8.00
16.00	320	125		-089163	11.31
22.63	206	60		-097325	16.00
32.00					22.63
					32.00



Table 3 (Continued)

11 AUG 65 2235 CST

WINDY ACRES RUN NO. 1E

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	184	32	-22	264
	0.50	212	35	-30	266
	1.0	245	40	-28	257
	2.0	283	42	-29	268
	4.0	333	40	-35	327
	6.0	414	40	-3	264
	16.0	541	36	11	314
	32.0	769	32	39	-----
WIND DIRECTION (G.1 DEG)	2	2102	67	-21	302
	32	2436	16	-3	310
TEMPERATURE (0.01C)	2	2278	19	36	228

Z(M)	A-SPEED	A-TETA	TETA	RI	Z(M)
0.25	28	1	2257	.001036	0.25
0.50	61	9	2258	-.005557	0.35
0.71	33	6	2266	-.011933	0.50
1.00	71	20	2278	.018226	0.71
1.41	38	12	2296	-.026994	1.00
2.00	68	30	2330	-.035579	1.41
2.83	50	14	2363	-.046752	2.00
4.00	131	52	2491	-.055611	2.83
5.66	81	34		-.067239	4.00
8.00	208	67		-.073713	5.66
11.31	127	53		-.085145	8.00
16.00	355	161		-.093410	11.31
22.63	228	108		-.107363	16.00
32.00					22.63
					32.00

WINDY ACRES RUN NO. 1F

Table 3 (Continued)

11 AUG 65 2250 CST

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	167	31	-15	293
	0.50	190	33	-15	277
	1.0	222	34	-24	282
	2.0	262	37	-37	335
	4.0	308	38	-26	275
	8.0	387	39	-33	289
	16.0	509	40	-16	306
32.0	733	40	-25	256	
WIND DIRECTION (0.1 DEG)	2	2106	66	0	320
	32	2450	24	----	----
TEMPERATURE (0.01C)	2	2229	17	-54	198

Z(M)	A-SPEED	A-TMETA	TMETA	R1	Z(M)
0.25	23	1	2208	.001535	0.25
0.35	55	6	2209	.006084	0.35
0.50	32	7	2216	.011123	0.50
0.71	72	20	2229	.017754	0.71
1.00	40	13	2247	.026437	1.00
1.41	66	31	2283	.038559	1.41
2.00	86	16	2336	.055329	2.00
2.83	46	54	2452	.063529	2.83
4.00	125	36		.074964	4.00
5.66	79	69		.080882	5.66
8.00	201	53		.092414	8.00
11.31	122	169		.103366	11.31
16.00	346	116		.119642	16.00
22.63	224				22.63
32.00					32.00

11 AUG 68 2309 CST

Table 3 (Continue)

WINDY ACRES RUN NO. 16

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	135	25	-64	261
	0.50	157	27	-61	365
	1.0	165	31	-64	343
	2.0	224	31	-48	317
	4.0	271	33	-16	254
	8.0	356	30	3	306
	16.0	484	26	6	271
	32.0	704	24	17	----
WIND DIRECTION (0.1 DEG)	2	2074	68	4	307
	32	2432	20	17	303
TEMPERATURE (0.01C)	2	2156	23	66	234

Z(M)	A-SPEED	A-TMETH	TMETH	RI	Z(M)
0.25	22	0	2133	.000000	0.25
0.50	50	9	2133	-.004306	0.35
0.71	24	9		-.018728	0.50
1.00	87	23	2142	-.023637	0.71
1.41	39	14		.030024	1.00
2.00	86	37	2156	-.046132	1.41
2.83	47	23		.067882	2.00
4.00	132	63	2179	-.068729	2.83
5.64	85	42		.075714	4.00
8.00	213	106	2221	-.085950	5.64
11.31	128	64		.101569	8.00
16.00	348	160	2285	-.109035	11.31
22.63	220	116		.124245	16.00
32.00			2401		22.63
					32.00

Table 3 (Continued)

	Z(1)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	143	27	-45	276
	0.50	167	26	-47	295
	1.0	194	31	-22	258
	2.0	231	32	-26	262
	4.0	276	32	-18	299
	6.0	356	32	5	293
	16.0	480	29	26	303
	32.0	712	21	14	---
WIND DIRECTION (0.1 DEG)	2	2039	20	7	323
	32	2421	20	-11	276
TEMPERATURE (0.01C)	2	21.6	7	48	256

Z(1)	A-SPEED	A-TMELA	TMETA	R1	Z(1)
0.25	24	0	2096	-000000	0.25
0.35	51	6	2096	-007103	0.35
0.50	27	6	2104	-017323	0.50
0.71	64	20	2116	-022556	0.71
1.00	37	12	2136	-026630	1.00
2.00	82	32	2175	-043946	1.41
2.83	45	20	2234	-064482	2.00
4.00	125	59	2369	-069671	2.83
5.06	80	39		-079490	4.00
6.00	204	98		-086771	4.00
11.31	124	59		-099937	5.66
16.00	356	194		-112435	6.00
22.63	232	135		-130202	11.31
32.00					16.00
					22.63
					32.00

RAMBY ACRES RUN NO. 1M

11 AUG 65 2320 CST

11 AUG 65 2335 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 1J

	ZIMI	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	136	25	-16	264
	0.50	156	25	-28	268
	1.0	183	28	-41	303
	2.0	217	29	-36	300
	4.0	266	31	-4	280
	8.0	346	38	0	259
	16.0	462	27	-1	253
	32.0	682	23	-33	----
WIND DIRECTION (0.1 DEG)	2	2063	65	-5	293
	32	2424	21	-30	311
TEMPERATURE (0.01C)	2	2089	10	28	213

ZIMI	4-SPEED	4-THETA	THETA	RI	ZIMI
0.25	22	0	2067	.000000	0.25
0.35	47	8	2067	-.008374	0.35
0.50	25	8	2075	-.020831	0.50
0.71	59	22	2089	-.029223	0.71
1.00	34	14	2110	-.039592	1.00
1.41	34	14	2149	-.046959	1.41
2.00	83	35	2207	-.057155	2.00
2.83	49	21	2330	-.068565	2.83
4.00	126	60		-.079560	4.00
5.66	80	39		-.093123	5.66
8.00	196	97		-.112363	8.00
11.31	116	56		-.117896	11.31
16.00	336	181		-.132073	16.00
22.63	220	123			22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1K

11 AUG 65 2350 CST

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	126	23	-30	233
	0.50	146	23	-35	293
	1.0	172	27	-24	313
	2.0	206	27	-37	314
	4.0	251	29	-21	263
	8.0	327	28	-5	294
	16.0	449	25	9	306
32.0	666	21	-17	-----	
WIND DIRECTION (0.1 DEG)	2	2094	64	4	244
	32	2444	20	-22	275
TEMPERATURE (0.01C)	2	2052	10	59	333

Z(M)	A-SPEED	A-THETA	TTHETA	R1	Z(M)
0.25	20	-1	2031	-.002040	0.25
0.35	46	7	2030	-.007657	0.35
0.50	26	8	2038	-.019374	0.50
0.71	60	22	2052	-.028291	0.71
1.00	34	14	2073	-.039643	1.00
1.41	79	35	2114	-.051900	1.41
2.00	45	21	2171	-.067854	2.00
2.83	121	62	2293	-.078299	2.83
3.66	76	41		-.092789	3.66
4.00	198	98		-.092306	4.00
5.66	122	57		-.099951	5.66
8.00	339	179		-.114679	8.00
11.31	217	122		-.134813	11.31
16.00					16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1L		12 AUG 65 0005 CST						
	ZIM)	MEAN	SIGMA	SKENNESS	KURTOSIS			
WIND SPEED (CM/SEC)	0.25	110	21	-28	262			
	0.50	128	22	4	294			
	1.0	152	24	-52	301			
	2.0	185	26	-34	324			
	4.0	232	25	-21	320			
	8.0	312	24	-11	294			
	16.0	432	19	-16	275			
	32.0	655	25	23	---			
WIND DIRECTION (0-1 DEG)	2	2095	69	3	264			
	32	2485	19	-28	382			
TEMPERATURE (0-01C)	?	2001	17	7	196			

ZIM)	4-SPEED	4-TMETHA	TMETHA	RI	ZIM)
0.25	16	-1	1979	-.002519	0.25
0.50	42	7	1976	-.009202	0.35
0.71	24	6	1986	-.022779	0.50
1.00	57	23	2001	.032831	0.71
1.41	33	15	2024	.045167	1.00
2.00	80	38	2066	.055043	1.41
2.83	47	23	2131	.068241	2.00
4.00	127	65	2279	.074640	2.83
5.66	80	42		.085926	4.00
8.00	200	107		.098974	5.66
11.31	120	65		.117985	8.00
16.00	343	213		.133420	11.31
22.63	223	148		.154996	16.00
32.00					22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2A

12 AUG 65 0020 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	75	19	-32	182
	0.50	95	19	-23	294
	1.0	114	22	-26	273
	2.0	147	21	-36	289
	4.0	197	20	-28	284
	8.0	278	19	-16	331
	16.0	414	17	-8	302
	32.0	658	23	-8	----
WIND DIRECTION (0.1 DEG)	2	2118	71	31	261
	32	2522	32	----	----
TEMPERATURE (0.01C)	2	1033	19	13	181

Z(M)	4-SPEED	4-TMETH	TMETH	R1	Z(M)
0.25	20	-2	1904	-.004111	0.25
0.50	39	6	1902	.012229	0.50
0.71	18	10		.049854	0.71
1.00	52	31	1912	.053300	1.00
1.41	33	21		.043289	1.41
2.00	83	54	1933	.072826	2.00
2.83	50	33		.086701	2.83
4.00	131	93	1966	.100848	4.00
6.00	81	60		.119938	6.00
8.00	217	154	2026	.121063	8.00
11.31	136	94		.128947	11.31
16.00	390	263	2120	.134263	16.00
22.63	244	189	2289	.147830	22.63
32.00					32.00



Table 3 (Continued)

12 AUG 65 0035 CST

WINDY ACRES RUN NO. 70

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	77	22	7	459
	0.50	98	20	-99	403
	1.0	120	22	-73	335
	2.0	159	23	-72	353
	4.0	217	26	-63	303
	8.0	309	31	-38	263
	16.0	440	30	-16	289
	32.0	661	30	-23	-----
WIND DIRECTION (0.1 DEG)	2	2157	68	34	308
	32	2545	42	-----	-----
TEMPERATURE (0.01C)	2	1916	15	108	320

Z(M)	A-SPEED	A-TWETA	TMETA	R1	Z(M)
0.25	21	0	1673	.000000	0.25
0.50	43	14	1673	-.017623	0.35
0.75	22	14	1687	-.047609	0.50
1.00	81	43	1916	-.053765	0.75
1.41	39	29	1916	-.062718	1.00
2.00	97	76	1963	-.075075	1.41
2.83	56	47	2046	-.091796	2.00
4.00	190	130	2147	-.107176	2.83
5.66	82	83	2277	-.128565	4.00
8.00	223	184		-.158898	5.66
11.31	131	101		-.153835	8.00
16.00	392	231		-.137433	11.31
21.63	221	130		-.136592	16.00
38.00					21.63
					38.00

12 AUG 65 0050 CST

Table 3 (Continued)

WINDY ACES SUM NO. 2C

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS	
WIND SPEED (CM/SEC)	0.25	128	24	-44	292	
	0.50	150	25	-57	373	
	1.0	176	28	-76	473	
	2.0	211	30	-60	396	
	4.0	264	30	-27	304	
	8.0	351	31	-32	282	
	16.0	479	30	-21	324	
	32.0	679	33	-52	160	
	WIND DIRECTION (0.1 DEG)	2	2152	75	-4	273
		32	2518	35	83	-----
TEMPERATURE (0.01C)	2	1999	21	-32	164	

Z(M)	A-SPEED	A-TMETH	TMETH	RI	Z(M)
0.25	22	2	1968	.003389	0.25
0.50	48	13	1970	-0.13088	0.50
0.71	26	11		-0.28696	0.71
1.00	61	20	1981	-0.36149	1.00
1.41	35	16		-0.68168	1.41
2.00	88	48	1999	-0.57459	2.00
2.83	53	30		-0.69983	2.83
4.00	140	56	2029	-0.83121	4.00
5.46	87	138		-1.00288	5.46
8.00	215	80	2087	-1.10313	8.00
11.31	126	160		-1.27501	11.31
16.00	328	180	2167	-1.33294	16.00
22.63	200	100		-1.30158	22.63
32.00			2267		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2D		12 AUG 65 0105 CST					
	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS		
<b>WIND SPEED (CM/SEC)</b>							
	0.25	143	27	-52	323		
	0.50	164	27	-28	303		
	1.0	194	31	-55	350		
	2.0	232	32	-44	284		
	4.0	281	31	-23	259		
	6.0	356	33	-33	279		
	16.0	484	35	-3	295		
	32.0	686	32	21	133		
<b>WIND DIRECTION (0.1 DEG)</b>							
	2	2126	72	-11	346		
	32	2491	26	11	348		
<b>TEMPERATURE (0.01C)</b>							
	2	2023	6	-14	200		
Z(M)	A-SPEED	A-TIME	T-META	R1	Z(M)		
0.25	21	3	1995	-005571	0.25		
0.35	51	13	1996	-011564	0.35		
0.50	30	10		-018211	0.50		
0.71	68	25	2008	-025055	0.71		
1.00	36	15		-034036	1.00		
1.41	67	39	2023	-047730	1.41		
2.00	49	24		-065464	2.00		
2.83	126	66	2047	-076937	2.83		
4.00	77	42		-092679	4.00		
5.66	203	106	2039	-095051	5.66		
8.00	126	64		-105269	8.00		
11.31	326	157	2153	-107584	11.31		
16.00	202	93	2246	-118734	16.00		
22.63					22.63		
32.00					32.00		

Table 3 (Continued)

WINDY ACRES RUN NO. 2E

12 AUG 65 0120 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	180	37	-30	294
	0.50	206	28	-57	317
	1.0	242	45	-48	305
	2.0	280	46	-36	290
	4.0	327	43	-53	316
	8.0	410	48	-55	363
WIND DIRECTION (D.G. DEG)	16.0	526	47	-50	336
	32.0	717	47	-36	213
TEMPERATURE (0.01C)	2	2163	22	-9	299
	32	2191	31	3	394
	2	2039	10	53	295

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	26	3	2014	.003634	0.25
0.35	62	12	2017	-.007231	0.35
0.50	36	9	2026	.011375	0.50
0.71	74	22	2039	-.016608	0.71
1.00	38	13	2057	.029483	1.00
1.41	65	31	2094	-.039727	1.41
2.00	47	18	2225	.053343	2.00
2.83	130	55		-.06210	2.83
4.00	63	37		.070251	4.00
5.66	199	69		-.063049	5.66
8.00	116	52		.100936	8.00
11.31	307	131		-.102507	11.31
16.00	191	79		.112866	16.00
22.63					22.63
32.00					32.00

12 AUG 65 0135 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2F

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS	
WIND SPEED (CM/SEC)	0.25	194	42	-43	310	
	0.50	224	45	-42	305	
	1.0	264	48	-51	298	
	2.0	307	49	-35	283	
	4.0	354	50	-6	262	
	6.0	431	44	-16	265	
	16.0	550	45	6	297	
	32.0	726	43	18	248	
	WIND DIRECTION (0.1 DEG)	2	2209	73	9	279
		32	2530	38	124	----
TEMPERATURE (0.01C)	2	2061	6	12	365	

Z(M)	A-SPEED	A-THETA	T-THETA	RI	Z(M)
0.25	30	3	2039	.002725	0.25
0.35	70	11	2042	.003195	0.35
0.50	40	8	2050	.009183	0.50
0.71	83	19	2061	.012763	0.71
1.00	43	11	2076	.019467	1.00
1.41	90	26	2105	.029698	1.41
2.00	47	15	2148	.044420	2.00
2.63	124	44	2220	.052915	2.63
4.00	77	29		.063945	4.00
5.66	196	72		.069238	5.66
8.00	119	43		.079297	8.00
11.31	295	115		.097452	11.31
16.00	176	72		.121157	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 26

12 AUG 65 0150 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	167	34	-56	335
	0.50	192	35	-36	302
	1.00	224	44	-50	293
	2.00	262	46	-46	287
	4.00	304	47	-26	238
	8.00	372	50	-17	247
	16.00	475	49	-19	260
32.00	647	60	-23	235	
WIND DIRECTION (0.1 DEG)	2	2087	76	1	265
	32	2481	38	61	-----
TEMPERATURE (0.01C)	2	2046	10	-24	192

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	25	4	2022	.005237	0.25
0.35	57	13	2026	.009264	0.35
0.50	32	9	2035	.014392	0.50
0.71	70	20	2046	.018899	0.71
1.00	36	11	2063	.024938	1.00
1.41	80	28	2092	.040499	1.41
2.00	42	17	2130	.063073	2.00
2.83	110	46	2190	.070331	2.83
4.00	66	29		.082029	4.00
5.66	171	67		.084692	5.66
8.00	103	38		.093569	8.00
11.31	275	96		.095641	11.31
16.00	172	60		.105903	16.00
22.63					22.63
32.00					32.00

12 AUG 65 0205 CST

Table 3 (Continued)

WINBY ACRES RUN NO. 24

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	176	37	-14	233
	0.50	199	39	-15	276
	1.00	233	45	-11	253
	2.00	271	46	-14	263
	4.00	323	45	-9	245
	8.00	396	48	-19	274
	16.00	503	46	0	245
32.00	661	52	12	254	
WIND DIRECTION (0.1 DEG)	2	2150	61	16	297
	32	2515	44	28	417
TEMPERATURE (0.01C)	2	2031	9	10	239
Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	23	4	2003	-006195	0.25
0.50	57	14	2007	-009983	0.35
0.71	34	10		-014171	0.50
1.00	72	24	2017	-021449	0.71
1.41	38	14		-031758	1.00
2.00	90	33	2031	-037732	1.41
2.83	52	19		-046010	2.00
4.00	125	52	2050	-061591	2.83
5.66	73	33		-081023	4.00
8.00	160	75	2083	-085585	5.66
11.31	107	42		-095873	8.00
16.00	265	97	2125	-101978	11.31
22.63	158	55		-114965	16.00
32.00			2160		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2J

12 AUG 65 0220 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	171	30	-24	278
	0.50	196	34	-23	292
	1.00	233	36	-22	262
	2.00	273	38	-22	278
	4.00	322	40	-34	288
	8.00	399	43	-9	278
	16.00	507	42	-11	336
WIND DIRECTION (0.1 DEG)	32.00	676	38	-19	144
	2	2197	72	1	322
TEMPERATURE (0.01C)	32	2556	36	115	----
	2	2021	10	22	248

Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	25	4	1998	.005243	0.25
0.35	62	12	2002	.002234	0.35
0.71	37	8	2010	.009575	0.50
1.00	77	19	2021	.014851	0.71
1.41	40	11	2039	.022526	1.00
2.00	69	29	2072	.033918	1.41
2.83	49	18	2116	.048106	2.00
4.00	126	51	2177	.059473	2.83
5.66	77	33		.072851	4.00
8.00	185	77		.083209	5.66
11.31	108	44		.098620	8.00
16.00	277	105		.101052	11.31
22.63	169	61		.111470	16.00
32.00					22.63
					32.00



12 AUG 65 0235 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2K

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	144	28	-23	269
	0.50	171	26	-21	274
	1.0	199	31	-18	254
	2.0	237	32	-32	287
	4.0	283	33	-18	243
	8.0	360	35	-27	293
	16.0	475	32	-16	327
32.0	640	33	-9	-----	
WIND DIRECTION (0.1 DEG)	2	2230	69	-2	307
	32	2595	27	122	553
TEMPERATURE (0.01C)	2	1972	16	12	248

Z(M)	A-SPEED	A-THETA	T-META	RI	Z(M)
0.25	27	3	1946	-003375	0.25
0.50	55	12	1949	-009209	0.50
0.71	28	9		-018648	0.71
1.00	66	23	1958	-024511	1.00
1.41	38	14		-031823	1.41
2.00	84	35	1972	-046031	2.00
2.83	46	21		-065113	2.83
4.00	123	60	1993	-073532	4.00
5.66	77	39		-086223	5.66
8.00	192	90	2032	-090412	8.00
11.31	115	51		-100941	11.31
16.00	280	119	2063	-112205	16.00
22.63	165	68		-130468	22.63
32.00			2151		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2L

12 AUG 65 0250 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	137	27	-49	214
	0.50	160	29	-39	309
	1.0	167	33	-33	273
	2.0	227	33	-44	334
	4.0	274	34	-45	333
	6.0	359	32	-19	323
	16.0	479	27	-8	272
	32.0	660	25	-21	----
WIND DIRECTION (0.1 DEG)	2	2266	66	2	309
	32	2625	23	-30	316
TEMPERATURE (0.01C)	2	1925	13	0	210

Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	23	3	1901	-.004659	0.25
0.35	50	11	1904	-.010231	0.35
0.50	27	6	1912	-.018041	0.50
0.71	67	21	1925	-.021752	0.71
1.00	40	13	1948	-.026711	1.00
1.41	67	36	1969	-.04205	1.41
2.00	47	23	2049	-.068420	2.00
2.83	132	64	2130	-.066207	2.83
4.00	85	41		-.074496	4.00
5.66	205	101		-.089116	5.66
8.00	120	60		-.109206	8.00
11.31	301	141		-.115160	11.31
16.00	161	61		-.129267	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

12 AUG 65 0305 CST

WINDY ACRES RUN NO. 2M

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	125	24	-28	114
	0.50	148	25	-33	263
	1.0	179	27	-8	270
	2.0	216	29	-15	271
	4.0	268	30	-33	307
	8.0	354	31	-32	306
	16.0	483	29	8	304
32.0	674	31	-14	---	
WIND DIRECTION (0.1 DEG)	2	2302	66	5	336
	32	2686	29	0	246
TEMPERATURE (0.01C)	2	1893	6	-16	177

Z(M)	A-SPEED	A-TIME	THETA	RI	Z(M)
0.25	23	2	1868	-.003108	0.25
0.35	54	10	1870	-.007983	0.35
0.50	31	6		-.013702	0.50
0.71	66	23	1878	-.023153	0.71
1.00	37	15		-.036063	1.00
1.41	69	40	1893	-.048985	1.41
2.00	52	25		-.060819	2.00
2.83	136	69	1918	-.067348	2.83
4.00	86	44		-.078174	4.00
5.66	215	112	1962	-.089917	5.66
8.00	129	68		-.107181	8.00
11.31	320	187	2030	-.113520	11.31
16.00	191	89		-.127834	16.00
22.67			2119		22.67
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 24

12 AUG 65 0320 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	148	30	-31	284
	0.50	173	31	-19	277
	1.0	203	36	-44	310
	2.0	241	38	-31	308
	4.0	293	34	-9	287
	8.0	374	35	-27	260
	16.0	492	33	16	287
	32.0	680	33	3	-----
WIND DIRECTION (0.1 DEG)	2	2347	89	5	312
	32	2697	21	102	-----
TEMPERATURE (0.01C)	2	1897	6	-81	320

Z(M)	A-SPEED	A-TMETA	TMETA	R1	Z(M)
0.25	25	3	1871	.003949	0.25
0.50	55	12	1874	.00232	0.50
0.71	30	9		.018488	0.90
1.00	48	23	1883	.023149	0.71
1.41	38	14		.031904	1.00
2.00	60	26	1897	.041349	1.41
2.83	62	22		.053817	2.00
4.00	133	61	1919	.064102	2.83
5.66	81	39		.078114	4.00
8.00	199	97	1988	.090926	5.66
11.31	118	56		.102294	8.00
16.00	316	144	2016	.106816	11.31
22.83	188	86		.116826	16.00
32.00			2102		22.83
					32.00

12 AUG 65 0335 CST

Table 3 (Continued)

WIND ACROSS RUN NO. 3P

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	145	33	-31	284
	0.50	170	34	-32	287
	1.0	202	37	-16	277
	2.0	244	38	-15	268
	4.0	291	39	-12	253
	8.0	368	41	12	301
WIND DIRECTION (0-1 DEG)	16.0	486	38	36	480
	32.0	673	35	18	---
TEMPERATURE (0-0.1C)	2	2372	68	-1	309
	32	2709	24	-46	270
	2	1888	4	-15	228

Z (M)	W-SPEED	W-DIRECT	W-META	Ri	Z (M)
0.25	25	3	1864	.003949	0.25
0.50	27	12	1867	.008598	0.35
0.71	32	9		.014469	0.50
1.00	74	21	1876	.017853	0.71
1.41	42	12		.022392	1.00
2.00	64	32	1888	.037597	1.41
2.82	37	20		.059572	2.00
4.00	124	56	1908	.067728	2.82
5.36	77	36		.079826	4.00
8.50	195	69	1944	.088931	5.36
11.71	118	53		.099929	8.50
16.00	305	132	1997	.105181	11.71
22.87	187	179		.118347	16.00
32.00			2026		22.87
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 20

12 AUG 65 0350 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	135	33	-35	330
	0.50	160	35	-39	306
	1.00	191	36	-30	266
	2.00	226	36	-17	279
	4.00	274	37	-25	259
	8.00	345	39	-45	278
	16.00	451	33	-15	292
	32.00	646	34	-1	----
WIND DIRECTION (D.G.)	?	2398	79	1	295
	32	2719	30	-33	350
TEMPERATURE (D.G.)	?	1675	10	-15	216

Z(M)	A-SPEED	4-TMETA	TMETA	R1	Z(M)
0.25	25	4	1851	-005268	0.25
0.50	56	13	1855	-009655	0.50
0.71	31	9		-015425	0.71
1.00	68	20	1864	-020145	1.00
1.41	37	11		-026458	1.41
2.00	63	30	1875	-040545	2.00
2.83	46	19		-059110	2.83
4.00	117	51	1894	-069320	4.00
5.64	71	32		-083502	5.64
8.00	177	77	1926	-091352	8.00
11.31	106	45		-105224	11.31
16.00	303	120	1971	-096969	16.00
22.63	197	75		-101335	22.63
32.00			2046		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2R		12 AUG 65 0405 CST					
	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS		
WIND SPEED (CM/SEC)							
	0.25	117	27	-31	313		
	0.50	139	26	-32	287		
	1.0	161	31	-56	306		
	2.0	200	34	-52	296		
	4.0	245	34	-39	305		
	8.0	318	34	-31	299		
	16.0	428	34	-17	285		
	32.0	624	34	0	----		
WIND DIRECTION (0.1 DEG)							
	2	239C	72	0	302		
	32	2734	26	-16	410		
TEMPERATURE (0.01C)							
	2	1847	13	-34	210		
Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)		
0.25	22	3	1821	.005108	0.25		
0.35	44	12	1824	-.014454	0.35		
0.50	22	9		-.030660	0.50		
0.71	61	23	1833	-.028818	0.71		
1.00	39	14		.030343	1.00		
1.41	84	16	1847	.047547	1.41		
2.00	45	22		-.071563	2.00		
2.83	118	56	1869	-.077567	2.83		
4.00	73	36		-.086933	4.00		
5.66	183	68	1905	-.097730	5.66		
8.00	110	52		.112976	8.00		
11.31	366	1.00	1957	-.110957	11.31		
16.00	196	68	2045	-.120143	16.00		
22.63					22.63		
32.00					32.00		

Table 3 (Continued)

WINDY ACRES RUN NO. 25

12 AUG 65 0420 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
	0.25	93	19	-24	257
	0.50	113	19	-34	301
	1.0	139	24	-43	332
	2.0	177	24	-21	302
	4.0	225	25	-33	296
	8.0	305	25	-3	289
	16.0	423	24	4	306
	32.0	611	32	-37	----
WIND DIRECTION (0.1 DEG)	2	2344	64	13	266
	32	2717	21	-53	537
TEMPERATURE (0.01C)	2	1768	17	85	222

Z(M)	4-SPEED	4-THETA	THETA	RI	Z(M)
0.25	20	3	1755	.006191	0.25
0.35	46	14	1756	-.015462	0.35
0.50	26	11		-.026887	0.50
0.71	64	30	1769	-.034221	0.71
1.00	36	19		-.043466	1.00
1.41	86	51	1768	-.064385	1.41
2.00	48	32		-.091681	2.00
2.83	128	84	1820	-.095813	2.83
4.00	198	52		-.107109	4.00
5.66	118	64	1872	-.110166	5.66
8.00	306	154		-.120941	8.00
11.31	168	90	1936	-.122154	11.31
16.00			2026	-.135645	16.00
22.63					22.63
32.00					32.00



Table 3 (Continued)

WINDY ACRES RUN NO. 2T

12 AUG 65 0435 CST

	Z (M)	MEAN	SIGMA	SKENNESS	KURTOSIS
	0.25	107	20	-51	----
	0.50	128	21	-74	375
	1.0	153	25	-64	360
	2.0	169	25	-25	315
	4.0	236	26	-28	313
	8.0	321	26	3	229
	16.0	444	25	-4	308
	32.0	641	26	-13	----
WIND DIRECTION (10.1 DEG)	2	2276	60	1	292
	32	2695	20	124	495
TEMPERATURE (10.01C)	2	1765	5	61	373

Z (M)	4-SPEED	4-TMETHA	TMETHA	RI	Z (M)
0.25	21	3	1734	.005624	0.25
0.35	46	13	1737	.014369	0.35
0.50	25	10		.026456	0.50
0.71	61	28	1747	.035164	0.71
1.00	36	18		.045916	1.00
1.41	38	49	1765	.066465	1.41
2.00	63	31		.092711	2.00
2.83	47	67	1796	.093164	2.83
4.00	132	56		.102253	4.00
5.66	95	129	1852	.111076	5.66
8.00	208	73		.127027	8.00
11.31	123	175	1925	.126963	11.31
16.00	320	102		.137961	16.00
22.63	197		2027		22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 20

12 AUG 65 0450 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	90	17	-39	----
	0.50	115	18	-46	310
	1.0	137	19	-42	330
	2.0	174	21	-29	347
	4.0	224	21	-6	254
	8.0	312	21	24	242
	16.0	440	20	12	325
32.0	606	25	-162	600	
WIND DIRECTION (0.1 DEG)	2	2241	59	-4	323
	32	2553	25	-27	240
TEMPERATURE (0.01C)	2	1732	10	71	315

Z (M)	A-SPEED	A-THETA	THETA	RI	Z (M)
0.25	25	3	1698	.003974	0.25
0.35	47	14	1701	.014839	0.35
0.50	22	11	1712	.037633	0.50
0.71	59	31	1712	.041690	0.71
1.00	37	20	1732	.048355	1.00
2.00	67	54	1766	.066740	1.41
2.63	50	34	1766	.089943	2.00
4.00	138	100	1832	.098082	2.63
5.66	88	66	1919	.112530	4.00
8.00	216	153	2016	.122228	5.66
11.31	128	87		.139850	8.00
16.00	294	186		.159939	11.31
22.63	166	99		.186635	16.00
32.00					22.63
					32.00

12 AUG 65 0505 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2V

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
	0.25	93	16	-24	----
	0.50	116	16	-33	300
	1.0	141	22	-33	295
	2.0	178	21	-33	324
	4.0	235	20	-15	286
	8.0	332	19	6	313
	16.0	462	16	-52	371
	32.0	601	24	-16	192
WIND DIRECTION (0.1 DEG)	2	2216	55	7	272
	32	2655	25	-20	286
TEMPERATURE (0.01C)	2	1710	10	38	220

Z (M)	A-SPEED	A-TMETHA	TMETHA	RI	Z (M)
0.25	23	2	1675	.003130	0.25
0.35	46	14	1677	-.014237	0.35
0.50	25	12		-.031616	0.50
0.71	62	33	1689	-.040220	0.71
1.00	37	21		-.050812	1.00
1.41	94	61	1710	-.064623	1.41
2.00	57	40		-.081475	2.00
2.83	154	122	1750	-.096115	2.83
4.00	97	82		-.115098	4.00
5.66	227	163	1632	-.132356	5.66
8.00	130	101		-.157356	8.00
11.31	269	178	1933	-.182862	11.31
16.00	139	77		-.209237	16.00
22.63			2010		22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2*		12 AUG 65 0520 CST			
	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	98	17	-29	----
	0.50	120	17	-50	334
	1.0	143	20	-46	337
	2.0	182	20	-22	292
	4.0	241	22	5	303
	8.0	342	21	-16	363
WIND DIRECTION (0.1 DEG)	16.0	466	19	-38	348
	32.0	613	26	1	----
	2	2260	64	17	282
TEMPERATURE (0.01C)	32	2669	30	19	----
	2	1708	12	-77	238

Z (M)	4-SPEED	4-THETA	THETA	RI	Z (M)
0.25	22	3	1672	-.005132	0.25
0.35	45	15	1675	-.017340	0.35
0.50	23	12	1687	-.037592	0.50
0.71	62	33	1708	-.040222	0.71
1.00	39	21	1748	-.045737	1.00
1.41	98	61	1830	-.059459	1.41
2.00	59	40	1860	-.076048	2.00
2.83	160	122	1860	-.089048	2.83
4.00	101	82	1830	-.106169	4.00
5.66	225	165	1933	-.136198	5.66
8.00	124	103	2007	-.176383	8.00
11.31	271	177		-.179177	11.31
16.00	147	74		-.179804	16.00
22.63					22.63
32.00					32.00

12 AUG 65 0535 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2X

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	95	17	-32	315
	0.50	117	17	-36	317
	1.0	142	18	-31	302
	2.0	184	18	-19	269
	4.0	246	17	5	395
	8.0	350	18	-11	382
	16.0	454	19	-59	-----
32.0	599	26	-44	-----	
WIND DIRECTION (0.1 DEG)	2	2260	77	-11	279
	32	2664	32	34	275
TEMPERATURE (0.01C)	2	1685	9	-16	208

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	22	3	1642	.005140	0.25
0.35	47	17	1645	-.018054	0.35
0.50	25	14	1659	-.037155	0.50
0.71	67	40	1685	-.041787	0.71
1.00	42	26	1735	-.048867	1.00
1.41	104	76	1840	-.065822	1.41
2.00	62	50	1937	-.086137	2.00
2.83	166	155	2006	-.086137	2.83
4.00	104	105		-.105114	4.00
5.66	208	202		-.128219	5.66
8.00	104	97		-.174031	8.00
11.31	249	166		-.236085	11.31
16.00	145	69		-.199026	16.00
22.63				-.172305	22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2Y		12 AUG 65 0550 CST					
	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS		
WIND SPEED (CM/SEC)	0.25	92	18	-33	298		
	0.50	113	18	-42	316		
	1.0	136	19	-21	260		
	2.0	177	18	-16	298		
	4.0	240	19	-19	339		
	8.0	343	19	-22	336		
	16.0	458	23	-37	315		
32.0	627	27	-16	-----			
WIND DIRECTION (0.1 DEG)	2	2253	59	8	184		
	32	2685	33	67	232		
TEMPERATURE (0.01C)	2	1688	8	-18	211		
Z (M)	A-SPEED	A-TMETH	TMETH	R1	Z (M)		
0.25	21	4	1642	.007519	0.25		
0.35	44	19	1646	.023021	0.35		
0.50	23	15		.047037	0.50		
0.71	64	42	1661	.046082	0.71		
1.00	41	27		.053248	1.00		
1.41	104	82	1683	.071004	1.41		
2.00	63	55		.091748	2.00		
2.83	166	162	1743	.109834	2.83		
4.00	103	107		.133169	4.00		
5.66	218	191	1850	.149797	5.66		
8.00	115	84		.167188	8.00		
11.31	284	161	1934	.148349	11.31		
16.00	169	77		.141540	16.00		
22.63			2011		22.63		
32.00					32.00		

12 AUG 65 0605 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 22

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	106	19	-13	---
	0.50	126	20	-32	302
	1.0	152	22	-27	278
	2.0	190	21	-4	279
	4.0	247	23	-23	315
	8.0	339	23	-9	221
	16.0	484	20	-34	315
	32.0	664	19	-9	---
WIND DIRECTION (0.1 DEG)	2	2269	61	0	307
	32	2696	15	136	406
TEMPERATURE (0.01C)	2	1689	5	4	229

Z (M)	A-SPEED	A-TMETA	TMETA	RI	Z (M)
0.25	22	3	1654	-.005132	0.25
0.35	46	15	1657	-.016625	0.35
0.50	24	12	1669	-.034545	0.50
0.71	62	32	1689	-.039029	0.71
1.00	38	20	1726	-.045911	1.00
1.41	95	57	1800	-.059167	1.41
2.00	57	37	1906	-.075423	2.00
2.83	149	111	2015	-.093506	2.83
4.00	92	74	1600	-.115578	4.00
5.66	237	160	1906	-.119540	5.66
8.00	145	106	1906	-.132878	8.00
11.31	345	215	1906	-.134322	11.31
16.00	200	109	2015	-.143113	16.00
22.63					22.63
32.00					32.00

12 AUG 65 0620 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2AA

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	66	21	22	---
	0.50	110	19	20	296
	1.0	131	23	-37	310
	2.0	164	24	-49	372
	4.0	213	27	14	269
	6.0	296	26	-13	237
	32.0	313	33	-46	324
WIND DIRECTION (0.1 DEG)	2	2254	66	7	313
	32	2672	29	26	200
TEMPERATURE (0.01C)	2	1705	5	-32	361

Z(M)	U-SPEED	U-TMETHA	TMETHA	RI	Z(M)
0.25	24	3	1676	.004312	0.25
0.35	45	13	1679	.015042	0.35
0.50	21	10	1689	.037574	0.50
0.71	54	26	1689	.041776	0.71
1.00	33	16	1705	.046671	1.00
1.41	33	16	1705	.061276	1.41
2.00	52	44	1733	.07207	2.00
2.83	49	28	1733	.091234	2.83
4.00	132	65	1790	.109390	4.00
5.66	63	37	1790	.120406	5.66
8.00	212	145	1878	.139471	8.00
11.31	129	86	1878	.141456	11.31
15.00	317	191	1961	.152215	15.00
22.63	186	103	1961		22.63
32.00					32.00



Table 3 (Continued)

12 AUG 65 0835 CST

WINDY ACRES RUN NO. 208

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	64	16	-77	---
	0.50	106	16	-75	361
	1.0	126	19	-39	301
	2.0	158	21	-31	273
	4.0	203	23	6	291
	8.0	279	22	-8	388
	16.0	369	21	-22	285
	32.0	565	26	-16	269
WIND DIRECTION (0.1 DEG)	2	2227	63	-8	219
	32	2633	22	-82	---
TEMPERATURE (0.01C)	2	1733	17	37	276

Z (M)	A-SPEED	A-TMETH	TMETA	RI	Z (M)
0.25	22	0	1717	.000000	0.25
0.35	42	7	1717	-.009286	0.35
0.50	20	7	1724	-.028954	0.50
0.71	52	16	1733	-.027693	0.71
1.00	32	9	1755	-.029083	1.00
1.41	77	31	1805	-.048914	1.41
2.00	45	22	1755	-.071865	2.00
2.83	72	72	1805	-.091907	2.83
4.00	121	90	1874	-.114375	4.00
5.46	76	50	1987	-.128346	5.46
8.00	186	119	1874	-.150376	8.00
11.31	110	66	1874	-.147414	11.31
16.00	286	182	1874	-.157699	16.00
22.83	176	93	1987		22.83
32.00					32.00

Table 3 (Continued)

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
	0.25	122	33	-02	207
	0.50	148	36	-05	293
	1.00	173	39	-32	280
	2.00	198	40	-53	283
	4.00	233	38	-47	274
	8.00	282	38	-25	273
	16.00	389	30	-15	299
	32.00	556	30	-6	271
WIND DIRECTION (0.1 DEG)	2	2218	68	2	279
	32	2632	28	-16	374
TEMPERATURE (0.01C)	2	1822	30	23	168
Z(M)	A-SPEED	A-TMETH	TMETH	RI	Z(M)
0.25	24	-1	1821	-.001830	0.25
0.50	48	0	1820	.000000	0.50
0.71	24	1		.002861	0.71
1.00	57	2	1821	.003449	1.00
1.61	26	1		.004204	1.61
2.00	63	3	1822	.018101	2.00
2.83	35	5		.028922	2.83
4.00	94	25	1827	.052787	4.00
5.66	59	20		.075768	5.66
8.00	156	59	1847	.096352	8.00
11.21	97	39		.109209	11.21
16.00	264	115	1888	.122758	16.00
22.63	167	76		.143306	22.63
32.00			1962		32.00

12 AUG 65 0705 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 200

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	176	34	-21	234
	0.50	203	37	-16	257
	1.0	240	41	-17	281
	2.0	275	41	-21	271
	4.0	304	41	2	292
	8.0	346	41	-8	268
	16.0	422	41	-6	323
	32.0	557	39	17	292
WIND DIRECTION (0.1 DEG)	2	226	76	7	305
	32	2663	39	16	264
TEMPERATURE (0.01C)	2	1940	34	-8	184

Z(M)	A-SPEED	A-TMETHA	THETA	RI	Z(M)
0.25	27	-3	1947	-.003375	0.25
0.35	64	-3	1944	-.001699	0.35
0.50	37	0	1944	-.000000	0.50
0.71	72	-4	1944	-.003583	0.71
1.00	35	-4	1940	-.010726	1.00
1.41	64	-6	1940	-.013610	1.41
2.00	28	-7	1938	-.015625	2.00
2.63	73	-1	1938	-.003485	2.63
4.00	44	1	1939	-.006787	4.00
5.66	118	10	1939	-.026691	5.66
8.00	74	9	1946	-.043191	8.00
11.31	209	48	1946	-.081611	11.31
16.00	135	39	1987	-.112374	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2EE

12 AUG 65 0720 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	218	47	-58	314
	0.50	249	51	-45	282
	1.0	297	54	-43	273
	2.0	336	58	-44	277
	4.0	379	64	-45	280
	8.0	422	61	-32	293
	16.0	472	62	-15	259
32.0	553	58	-18	262	
WIND DIRECTION (0.1 DEG)	2	2288	82	7	297
	32	2652	54	-8	328
TEMPERATURE (0.01C)	2	2046	26	-22	187

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	31	-6	2062	--005105	0.25
0.35	39	-7	2056	--002594	0.35
0.50	48	-1	2055	--000708	0.50
0.71	89	-10	2046	--005842	0.71
1.00	41	-9	2039	--017523	1.00
1.41	82	-16	2031	--022031	1.41
2.00	41	-7	2025	--027266	2.00
2.83	84	-15	2032	--038377	2.83
4.00	43	-8		--058675	4.00
5.66	93	-14		--059980	5.66
8.00	50	-6		--062890	8.00
11.31	131	1		--004317	11.31
16.00	81	7		--055913	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2FF 12 AUG 65 0735 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	272	59	-34	306
	0.50	310	67	-29	284
	1.0	366	75	-17	249
	2.0	419	80	-12	236
	4.0	468	77	0	258
	8.0	516	80	32	248
	16.0	561	85	29	239
32.0	628	75	16	266	
WIND DIRECTION (0.1 DEG)	2	2349	75	-11	311
	32	2673	53	39	371
TEMPERATURE (0.01C)	2	2136	26	-13	167
Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	36	-6	2161	-.004514	0.25
0.50	94	-9	2153	-.002347	0.50
0.71	56	-1		-.000519	0.71
1.00	109	-15	2152	-.005825	1.00
1.41	53	-14		-.016260	1.41
2.00	102	-24	2138	-.021291	2.00
2.83	49	-10		-.027187	2.83
4.00	97	-20	2128	-.039254	4.00
5.66	48	-10		-.056684	5.66
8.00	93	-20	2118	-.085438	8.00
11.31	45	-10		-.129033	11.31
16.00	112	-15	2108	-.086385	16.00
22.63	67	-5		-.058221	22.63
32.00			2103		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 266

12 AUG 65 0750 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	256	61	-39	275
	0.50	293	66	-33	281
	1.0	346	78	-47	279
	2.0	397	86	-51	285
	4.0	438	85	-32	266
	8.0	477	87	-32	252
WIND DIRECTION (0.1 DEG)	16.0	521	83	-19	242
	32.0	567	66	-34	313
WIND DIRECTION (0.1 DEG)	2	2371	96	0	262
	32	2714	62	6	331
TEMPERATURE (0.01C)	2	2225	30	56	264
Z (M)	A-SPEED	A-THETA	THETA	RI	Z (M)
0.25	37	-12	2261	-0.007121	0.25
0.35	90	-16	2249	-0.005107	0.35
0.50	53	-6		-0.003472	0.50
0.71	104	-24	2243	-0.010206	0.71
1.00	51	-18		-0.022510	1.00
1.41	92	-33	2225	-0.035862	1.41
2.00	41	-15		-0.058082	2.00
2.83	60	-27	2210	-0.077691	2.83
4.00	39	-12		-0.102756	4.00
5.66	83	-26	2193	-0.139075	5.66
8.00	44	-14		-0.186452	8.00
11.31	90	-25	2184	-0.227555	11.31
16.00	46	-11		-0.271061	16.00
22.63			2173		22.63
32.00					32.00

12 AUG 65 0805 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2MM

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	284	63	-24	275
	0.50	321	67	-16	268
	1.0	365	76	-23	265
	2.0	440	84	-17	253
	4.0	491	86	11	249
	8.0	546	88	15	252
	16.0	577	91	1	288
	32.0	639	82	-16	303
WIND DIRECTION (0.1 DEG)	2	2357	103	-8	338
	32	2689	63	21	345
TEMPERATURE (0.01C)	2	2328	16	12	225

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	37	-14	2375	-.008277	0.25
0.35	101	-27	2361	-.006061	0.35
0.50	64	-13		-.005140	0.50
0.71	119	-33	2348	-.010680	0.71
1.00	55	-20		-.021430	1.00
1.41	106	-39	2328	-.031635	1.41
2.00	51	-19		-.047386	2.00
2.83	106	-38	2309	-.062080	2.83
4.00	55	-19		-.081542	4.00
5.66	106	-40	2290	-.130784	5.66
8.00	51	-21		-.206779	8.00
11.31	93	-33	2269	-.280479	11.31
16.00	42	-12		-.353696	16.00
22.63			2257		22.63
32.00					32.00

12 AUG 65 0820 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2JJ

	Z (M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	309	65	-26	295
	0.50	352	70	-17	276
	1.0	409	79	-13	257
	2.0	465	88	-15	292
	4.0	519	87	-16	255
	8.0	575	82	-36	297
WIND DIRECTION (0.1 DEGI)	16.0	626	75	-38	284
	32.0	664	77	-16	304
TEMPERATURE (0.01C)	2	2343	103	-17	287
	32	2662	67	35	429
	2	2376	19	-45	208

Z (M)	A-SPEED	A-TMETA	TMETA	RI	Z (M)
0.25	44	-9	2427	-003754	0.25
0.35	101	-32	2418	-007172	0.35
0.50	57	-23	2395	-011445	0.50
0.71	113	-42	2376	-015048	0.71
1.00	56	-19	2352	-019607	1.00
1.41	110	-43	2331	-032545	1.41
2.00	54	-24	2308	-053310	2.00
2.83	110	-45	2295	-068165	2.83
4.00	56	-21		-088812	4.00
5.66	107	-44		-140992	5.66
8.00	51	-23		-229448	8.00
11.31	89	-36		-333657	11.31
16.00	38	-13		-467478	16.00
22.63					22.63
32.00					32.00



12 AUG 65 0835 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 2KK

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	304	61	-16	265
	0.50	346	67	-19	273
	1.0	403	80	-19	270
	2.0	460	81	-5	271
	4.0	509	78	13	262
	8.0	566	76	7	254
	16.0	603	67	14	262
	32.0	646	64	-1	271
WIND DIRECTION (0.1 DEG)	2	2385	104	23	276
	32	2732	71	-12	315
TEMPERATURE (0.01C)	2	2420	15	19	222

Z(M)	A-SPEED	A-THETA	THETA	A1	Z(M)
0.25	42	-16	2490	-0.07313	0.25
0.35	99	-43	2474	-0.10012	0.35
0.50	57	-27	2447	-0.13412	0.50
0.71	114	-54	2420	-0.16960	0.71
1.00	57	-27	2393	-0.26850	1.00
1.41	106	-54	2372	-0.43946	1.41
2.00	49	-37	2347	-0.72732	2.00
2.87	106	-48	2329	-0.78189	2.87
4.00	57	-21	2306	-0.83678	4.00
5.66	94	-46	2283	-1.190734	5.66
8.00	37	-25	2260	-1.473206	8.00
11.31	-0	-43	2237	-1.92638	11.31
16.00	43	-16	2214	-2.482638	16.00
22.63				-3.048892	22.63
32.00				-3.615144	32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2LL

	Z (M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	304	61	-4	259
	0.50	345	65	3	279
	1.0	400	71	8	226
	2.0	456	77	-1	246
	4.0	502	77	-4	249
	8.0	546	77	7	240
	16.0	581	70	-13	263
32.0	616	71	-15	229	
WIND DIRECTION (0.1 DEG)	2	2473	115	-1	261
	32	2762	73	10	281
TEMPERATURE (0.01C)	2	2469	18	----	604

Z (M)	A-SPEED	A-TMETHA	TMETHA	RI	Z (M)
0.25	41	-31	2557	-.014641	0.25
0.50	96	-36	2526	-.014334	0.50
0.71	55	-27		-.014379	0.50
1.00	111	-57	2499	-.021096	0.71
1.41	56	-30		-.030856	1.00
2.00	102	-61	2469	-.053527	1.41
2.83	46	-31		-.094606	2.00
4.00	90	-53	2438	-.119974	2.83
5.66	44	-22		-.146895	4.00
8.00	79	-49	2416	-.287236	5.66
11.31	35	-27		-.570315	8.00
16.00	70	-45	2369	-.672404	11.31
22.63	35	-18		-.760985	16.00
32.00			2371		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3A

12 AUG 65 2300 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	193	30	-9	293
	0.50	214	32	-21	247
	1.0	248	38	-20	243
	2.0	283	33	2	204
	4.0	331	36	-5	215
	8.0	411	38	-9	279
	16.0	531	36	6	319
	32.0	731	31	31	310
WIND DIRECTION (0.1 DEG)	2	1306	63	-5	338
	32	1378	23	19	----
TEMPERATURE (0.01C)	2	2363	16	6	164

Z(M)	4-SPEED	4-TMETHA	TMETHA	RI	Z(M)
0.25	21	2	2344	.003666	0.25
0.50	52	6	2346	-.008777	0.50
0.71	31	6	2322	.010112	0.71
1.00	69	17	2322	-.016356	1.00
1.41	38	11	2363	.024673	1.41
2.00	84	30	2363	-.037145	2.00
2.83	44	19	2382	.053393	2.83
4.00	128	50	2382	-.058650	4.00
5.64	80	31	2413	.062670	5.64
8.00	200	81	2413	-.074024	8.00
11.31	120	50	2463	.089724	11.31
16.00	320	137	2463	-.097400	16.00
22.63	200	87	2550	.112141	22.63
32.00					32.00

14 AUG 65 2215 CST

Table 3 (Continued)

SIMBY ACRES RUN NO. 36

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	170	32	-48	293
	0.50	193	34	-39	289
	1.0	220	39	-44	299
	2.0	233	39	-42	294
	4.0	304	38	-33	313
	8.0	381	38	-34	275
	16.0	500	35	-4	264
32.0	717	30	3	221	
WIND DIRECTION (0-1 DEG)	2	1324	60	-10	318
	32	1412	20	21	----
TEMPERATURE (0.01C)	2	2311	20	-30	194

Z(M)	A-SPEED	A-TMETH	TMETH	R1	Z(M)
0.25	23	1	2294	.001528	0.25
0.35	50	6	2295	.008504	0.35
0.50	27	5		.011128	0.50
1.00	60	16	2300	.020394	0.71
1.41	33	11		.032774	1.00
2.00	84	30	2311	.039003	1.41
2.83	51	19		.042379	2.00
4.00	128	53	2330	.059301	2.83
5.86	77	34		.074321	4.00
8.00	196	88	2364	.082672	5.86
11.21	114	54		.098693	8.00
16.00	356	167	2418.	.104022	11.21
22.63	217	113		.123653	16.00
32.00			2531		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3C

12 AUG 65 2230 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	159	26	-32	297
	0.50	162	26	-21	265
	1.0	206	30	-32	279
	2.0	241	32	-24	293
	4.0	291	33	2	236
	6.0	376	32	-6	255
	16.0	512	28	-10	314
	32.0	732	26	-14	284
WIND DIRECTION (0.1 DEG)	2	1325	60	0	250
	32	1456	20	17	282
TEMPERATURE (0.01C)	2	2246	11	-56	272

Z(M)	A-SPEED	A-TMETH	TMETH	RI	Z(M)
0.25	23	1	2229	.001535	0.25
0.35	47	6	2230	.006245	0.35
0.50	24	5	2235	.014112	0.50
0.71	59	16	2246	.021136	0.71
1.00	35	11	2267	.029199	1.00
1.41	65	32	2309	.040718	1.41
2.00	50	21	2362	.054601	2.00
2.63	137	63	2514	.061655	2.63
4.00	87	42		.072058	4.00
5.66	221	115		.086346	5.66
8.00	134	73		.105376	8.00
11.31	354	205		.119568	11.31
16.00	22C	132		.140679	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3D

12 AUG 65 2245 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	121	20	-61	164
	0.50	141	22	-54	332
	1.0	161	25	-33	293
	2.0	195	26	-27	297
	4.0	46	24	-9	267
	6.0	327	25	6	291
	16.0	471	22	16	304
	32.0	604	17	-21	----
WIND DIRECTION (0.1 DEG)	2	133	60	-9	587
	32	149	23	46	314
TEMPERATURE (0.01C)	2	2162	19	36	257

Z(M)	Δ-SPEED	Δ-THETA	THETA	R1	Z(M)
0.25	20	1	2160	.002030	0.25
0.35	40	6	2161	-.006642	0.35
0.50	20	5		.020370	0.50
0.71	54	21	2166	-.033194	0.71
1.00	34	16		.045107	1.00
1.41	65	43	2162	-.054630	1.41
2.00	51	27		.067615	2.00
2.83	132	78	2209	-.082380	2.83
4.00	81	51		.161124	4.00
5.66	225	135	2260	-.097942	5.66
8.00	144	64		.109152	8.00
11.31	357	237	2344	-.136076	11.31
16.00	213	153		.174356	16.00
22.63			2497		22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3E

12 AUG 68 2300 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	111	17	-7	----
	0.50	129	17	-33	287
	1.0	150	20	-24	290
	2.0	183	21	-15	293
	4.0	238	21	-20	309
	8.0	337	21	30	274
	16.0	493	20	6	244
	32.0	688	21	13	----
WIND DIRECTION (0.1 DEG)	2	1318	59	-22	275
	32	1524	21	14	239
TEMPERATURE (0.01C)	2	2109	19	62	255

Z(M)	A-SPEED	A-TMETH	TMETH	RI	Z(M)
0.25	18	0	2086	.000000	0.25
0.35	39	6	2086	-.009117	0.35
0.50	21	6		-.022232	0.50
0.71	54	23	2092	.036447	0.71
1.00	33	17		.051003	1.00
1.41	68	51	2109	-.060815	1.41
2.00	66	34		-.073361	2.00
2.83	55	102	2143	-.079304	2.83
4.00	154	68		-.090432	4.00
5.66	99	186	2211	-.106309	5.66
8.07	255	120		-.128121	8.00
11.31	156	270	2331	-.160524	11.31
16.00	351	150		.204051	16.00
22.63	195		2481		22.63
32.00					32.00

12 AUG 68 2315 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 3F

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	118	21	-18	213
	0.50	135	21	-24	290
	1.00	156	24	-10	253
	2.00	189	25	-21	278
	4.00	239	25	-24	291
	8.00	334	25	14	280
	16.00	495	20	90	368
32.00	694	14	30	-----	

WIND DIRECTION (0.1 DEG)

2	1308	54	6	223
32	1514	15	14	256

TEMPERATURE (0.01C)

2	2067	10	-69	291
---	------	----	-----	-----

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	17	0	2045	.000000	0.25
0.35	40	6	2045	.008676	0.35
0.50	23	6		.018556	0.50
0.71	54	22	2051	-.034912	0.71
1.00	31	16		.054475	1.00
1.41	81	48	2067	-.067656	1.41
2.00	50	32		-.083691	2.00
2.83	145	97	2099	-.085200	2.83
4.00	95	65		-.094021	4.00
5.66	256	199	2104	.111753	5.66
8.00	161	134		.134499	8.00
11.31	360	291	2298	-.164657	11.31
16.00	199	157		-.205276	16.00
22.63			2455		22.63
32.00					32.00



12 AUG 65 2330 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 36

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	75	15	10	----
	0.50	92	13	-46	325
	1.0	112	15	10	297
	2.0	145	16	-12	269
	4.0	201	17	-13	269
	8.0	300	18	-31	262
	32.0	677	27	27	194
			34	-16	----
WIND DIRECTION (0.1 DEG)	2	1394	82	-26	230
	32	1566	36	-11	180
TEMPERATURE (0.01C)	2	2006	16	73	226

Z (M)	A-SPEED	A-TMEYA	TMEYA	R1	Z (M)
0.25	17	0	1972	.000000	0.25
0.50	37	9	1972	.015248	0.35
0.71	20	9		.036913	0.50
1.00	53	34	1981	.056136	0.71
1.41	33	25		.075260	1.00
2.00	89	67	2006	.078360	1.41
2.83	56	42		.087733	2.00
4.00	155	123	2048	.094691	2.83
5.66	99	81		.108042	4.00
8.00	265	227	2129	.119144	5.66
11.31	166	146		.137981	8.00
16.00	377	298	2275	.153913	11.31
22.63	211	152		.176929	16.00
32.00			2427		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3M

12 AUG 65 2345 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	64	15	----	748
	0.50	85	9	-15	276
	1.0	103	12	-15	282
	2.0	137	12	-3	347
	4.0	193	14	4	298
	8.0	293	16	0	275
	16.0	447	19	-55	285
32.0	692	24	13	154	
WIND DIRECTION (0.1 DEG)	2	1436	76	-57	216
	32	1625	19	-29	----
TEMPERATURE (0.01C)	2	1951	23	-13	138

Z(M)	A-SPEED	A-TMETH	TMETH	R1	Z(M)
0.25	21	-1	1907	-.001859	0.25
0.35	39	12	1906	-.016341	0.35
0.50	16	13		-.065959	0.50
0.71	52	45	1919	-.077338	0.71
1.00	34	32		-.090955	1.00
1.41	90	64	1951	-.096266	1.41
2.00	56	52		-.108805	2.00
2.83	156	147	2003	-.111875	2.83
4.00	100	95		-.124353	4.00
5.86	254	237	2096	-.138560	5.86
8.00	154	142		-.156106	8.00
11.31	399	303	2240	-.139845	11.31
16.00	245	161		-.139141	16.00
22.63			2401		22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3J 13 AUG 65 0000 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	24	29	-84	195
	0.50	92	14	-37	324
	1.0	110	17	-15	270
	2.0	144	17	-34	320
	4.0	205	18	-25	315
	8.0	312	17	-2	312
	16.0	473	25	33	219
	32.0	712	33	24	----
WIND DIRECTION (0.1 DEG)	2	1464	75	16	233
	32	1623	20	42	----
TEMPERATURE (0.01C)	2	1912	6	-45	238

Z (M)	A-SPEED	A-THETA	THETA	R1	Z (M)
0.25	68	-3	1872	-.000533	0.25
0.50	66	10	1869	-.003146	0.50
0.71	18	13		-.066044	0.71
1.00	52	43	1862	-.073998	1.00
1.41	34	30		-.085379	1.41
2.00	95	82	1912	-.084452	2.00
2.83	61	52		-.091822	2.83
4.00	166	156	1964	-.103796	4.00
5.66	107	106		-.121326	5.66
8.00	266	250	2070	-.128600	8.00
11.31	161	144		-.144970	11.31
16.00	400	298	2214	-.136995	16.00
22.63	239	154		-.139999	22.63
32.00			2368		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4A

13 AUG 65 0015 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	93	29	----	482
	0.50	117	17	-57	386
	1.0	136	20	-26	299
	2.0	170	21	-29	274
	4.0	227	23	-11	265
	8.0	324	24	13	275
WIND DIRECTION (0.1 DEG)	16.0	490	22	82	443
	32.0	766	22	55	----
TEMPERATURE (0.01C)	2	1520	60	-12	329
	32	1647	14	-36	439
	2	1936	9	-2	203

Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	24	-2	1910	-.022848	0.25
0.35	45	6	1908	.009181	0.35
0.50	21	10	1916	-.037281	0.50
0.71	53	30	1936	-.049644	0.71
1.00	32	20	1973	-.064180	1.00
1.41	69	55	2046	-.084496	1.41
2.00	57	35	2100	-.070741	2.00
2.83	154	108	2351	-.094448	2.83
4.00	97	73		-.101703	4.00
5.86	263	207		-.110633	5.86
8.00	168	134		-.127026	8.00
11.31	444	305		-.113675	11.31
16.00	276	171		-.114991	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

13 AUG 65 0030 CST

WINDY ACRES RUN NO. 48

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	90	17	-34	----
	0.50	108	17	-26	269
	1.0	125	19	-36	262
	2.0	155	20	-28	305
	4.0	209	24	-16	301
	8.0	294	26	3	289
	16.0	431	26	-7	275
	32.0	702	30	20	293
WIND DIRECTION (0-1 DEG)	2	1509	61	12	300
	32	1657	22	-6	334
TEMPERATURE (0-01C)	2	1941	11	73	286

Z (M)	A-SPEED	A-TMETA	TMETA	R1	Z (M)
0.25	16	-1	1909	-.002531	0.25
0.35	35	11	1908	-.020873	0.35
0.50	17	12	1920	-.068257	0.50
0.71	47	33	1941	-.069435	0.71
1.00	30	21	1973	-.076679	1.00
1.41	84	53	2036	-.069768	1.41
2.00	54	32	2132	-.072060	2.00
2.83	139	95	2271	-.091196	2.83
4.00	85	63		-.114325	4.00
5.66	222	159		-.119386	5.66
8.00	137	96		-.133750	8.00
11.31	408	235		-.104093	11.31
16.00	271	139		-.098563	16.00
22.83					22.83
32.00					32.00

Table 3 (Continued)

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	102	19	-28	----
	0.50	122	18	-25	288
	1.0	141	22	-23	269
	2.0	174	21	-49	405
	4.0	224	22	-27	333
	8.0	310	24	7	335
	16.0	439	28	34	297
	32.0	689	31	19	311
WIND DIRECTION (0.1 DEG)	2	1490	59	-18	261
	32	1643	24	-20	309
TEMPERATURE (0.01C)	2	1919	21	-0	173

Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	20	-1	1890	-.002050	0.25
0.50	36	9	1889	-.013765	0.50
0.71	19	10	1899	-.045565	0.71
1.00	52	30	1899	-.051604	1.00
1.41	33	20	1919	-.060397	1.41
2.00	63	54	1953	-.072859	2.00
2.83	50	34	1953	-.083368	2.83
4.00	126	95	2014	-.093336	4.00
5.66	86	61	2104	-.108214	5.66
8.00	215	151	2104	-.120984	8.00
11.31	129	90	2104	-.141546	11.31
16.00	379	216	2104	-.111006	16.00
22.03	290	126	2230	-.103132	22.03
32.00					32.00

13 AUG 65 0100 CST

Table 3 (Continued)

WINDY ACROSS SUN NO. 48

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
	0.25	126	23	-41	---
	0.50	146	25	-49	359
	1.0	166	28	-83	356
	2.0	203	29	-50	325
	4.0	252	29	-85	347
	6.0	336	29	-27	345
	16.0	470	30	-49	375
	32.0	726	39	-58	234
WIND DIRECTION (0-1 DEG)	2	1491	62	3	309
	32	1641	26	-25	166
TEMPERATURE (0-01C)	2	1893	7	45	341

Z(M)	A-SPEED	A-TMETHA	TMETHA	R1	Z(M)
0.25	22	-2	1870	-.003397	0.25
0.50	42	7	1666	-.002338	0.50
0.71	20	9	1677	.037040	0.71
1.00	95	25	1677	.036470	1.00
1.41	35	16	1693	.042990	1.41
2.00	84	42	1693	.053382	2.00
2.83	49	26	1919	.071232	2.83
4.00	133	79	1919	.062997	4.00
5.84	84	53	1972	.096682	5.84
8.00	218	142	1972	.110813	8.00
11.31	134	89	2061	.129912	11.31
16.00	392	216	2061	.103913	16.00
22.63	256	127	2188	.099640	22.63
32.00					32.00

Table 3 (Continued)

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WINDY ACRES RUN NO. 4E					
13 AUG 65 0115 CST					
WIND SPEED (CM/SEC)	0.25	157	33	-36	266
	0.50	179	34	-33	291
	1.0	207	41	-49	327
	2.0	239	45	-79	372
	4.0	290	43	-53	306
	8.0	370	42	-46	324
	16.0	501	39	-10	316
	32.0	748	40	-19	---
WIND DIRECTION (0-1 DEG)	2	159	84	-20	312
	32	1896	27	-16	367
TEMPERATURE (0.01C)	2	1924	31	40	151
Z(M)	0.25	22	1904	RI	Z(M)
	0.50	50	1903		0.25
	0.71	26			0.35
	1.00	60	1912		0.50
	1.41	32			0.71
	2.00	83	1924		1.00
	2.83	51			1.41
	4.00	131	1943		2.00
	5.86	60			2.83
	8.00	211	1964		4.00
	11.31	131			5.86
	16.00	378	2051		8.00
	22.83	247			11.31
	32.00		2154		16.00
					22.83
					32.00



Table 3 (Continued)

13 AUG 65 0130 CST

WINDY ACTS RUN NO. 4F

	Z(1)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	157	30	-73	288
	0.50	181	31	-69	359
	1.0	209	36	-56	362
	2.0	248	37	-37	321
	4.0	297	36	-30	250
	6.0	370	39	-4	248
	16.0	467	39	-12	339
	32.0	729	31	1	199
WIND DIRECTION (0-1 DEG)	2	1659	66	-3	311
	32	1702	28	-6	262
TEMPERATURE (0-0.1C)	2	1960	12	-53	209

Z(1)	A-SPEED	A-THETA	THETA	RI	Z(1)
0.25	24	1	1940	.001424	0.25
0.35	52	9	1941	.007728	0.35
0.50	28	6	1949	.016795	0.50
0.71	67	19	1949	.019655	0.71
1.00	39	11	1960	.023745	1.00
1.41	88	30	1979	.035964	1.41
2.00	86	19	2010	.051942	2.00
2.83	122	50	2056	.062324	2.83
4.00	173	31	2138	.076301	4.00
5.66	190	77		.079049	5.66
8.00	117	46		.086033	8.00
11.31	359	128		.073459	11.31
16.00	242	82		.073167	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 46

13 AUG 65 0145 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	140	25	-36	----
	0.50	160	26	-37	312
	1.0	186	28	-34	364
	2.0	222	30	-24	307
	4.0	270	34	-30	315
	8.0	343	34	-4	311
WIND DIRECTION (0.1 DEG)	16.0	464	30	-10	297
	32.0	701	30	-14	110
TEMPERATURE (0.01C)	2	1651	63	-10	326
	32	1744	27	-1	----
	2	1918	13	8	195

Z(M)	A-SPEED	A-TMETH	TMETH	R1	Z(M)
0.25	20	1	1894	-.002050	0.25
0.35	46	10	1895	-.010991	0.35
0.50	26	9		-.021664	0.50
0.71	62	23	1904	-.027820	0.71
1.00	36	14		-.035823	1.00
1.41	84	33	1918	-.043462	1.41
2.00	48	19		-.05207	2.00
2.83	124	57	1937	-.068665	2.83
4.00	76	36		-.086404	4.00
5.66	194	92	1975	-.090685	5.66
8.00	118	54		-.101705	8.00
11.31	355	144	2029	-.084567	11.31
16.00	237	90		-.083629	16.00
22.63			2119		22.63
32.00					32.00

13 AUG 65 0200 CST

Table 3 (Continued)

WINBY ACRES RUN NO. 4H

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	132	22	-47	-----
	0.50	153	24	-44	287
	1.0	179	26	-19	283
	2.0	211	29	-10	285
	4.0	261	29	-1	273
	8.0	339	30	-15	306
	16.0	465	31	-15	284
32.0	706	32	14	236	
WIND DIRECTION (0.1 DEG)	2	1685	64	10	343
	32	1785	25	5	-----
TEMPERATURE (0.01C)	2	1893	7	91	297

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	21	0	1869	.000000	0.25
0.50	47	9	1869	-.009485	0.35
0.71	26	9	1878	-.021917	0.50
1.00	58	24	1878	-.033206	0.71
1.41	32	15	1893	-.046213	1.00
2.00	82	40	1893	-.055349	1.41
2.63	50	25	1916	-.065782	2.00
4.00	128	68	1961	-.077149	2.63
5.66	78	43	1961	-.092875	4.00
8.00	204	107	2025	-.095426	5.66
11.31	126	64	2025	-.105749	8.00
16.00	367	160	2121	-.087952	11.31
22.63	241	96		-.086476	16.00
32.00					22.63
					32.00

13 AUG 65 0215 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 4J

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	140	26	-31	136
	0.50	164	26	-36	323
	1.0	192	31	-50	326
	2.0	226	32	-22	263
	4.0	276	34	-35	265
	6.0	357	38	-21	266
	16.0	487	35	16	334
32.0	735	35	5	----	
WIND DIRECTION (0.1 DEG)	2	1681	67	-12	326
	32	1761	22	16	----
TEMPERATURE (0.01C)	2	1698	6	-41	300

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	24	1	1875	.001424	0.25
0.35	52	10	1876	.008606	0.35
0.50	28	9		0.50	0.50
0.71	64	22	1885	.018893	0.71
1.00	36	13		1.00	1.00
1.41	64	35	1898	.033007	1.41
2.00	48	22		2.00	2.00
2.83	129	62	1920	.046146	2.83
4.00	81	40		4.00	4.00
5.66	211	105	1960	.062805	5.66
8.00	130	85		8.00	8.00
11.31	378	164	2025	.080113	11.31
16.00	248	99		16.00	16.00
22.63			2124	.100896	22.63
32.00				.084976	32.00
				.084210	

13 AUG 65 0830 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 4K

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	123	23	-20	---
	0.50	143	24	-37	553
	1.0	168	27	-18	308
	2.0	203	27	-25	300
	4.0	252	28	-9	296
	8.0	337	26	6	293
	16.0	462	25	4	290
	32.0	701	28	-11	150
WIND DIRECTION (0.1 DEG)	2	1649	63	-9	324
	32	1788	31	---	---
TEMPERATURE (0.01C)	2	1861	19	-33	189

Z (M)	A-SPEED	A-TMETH	TMETH	R1	Z (M)
0.25	20	1	1834	-002060	0.25
0.50	45	11	1835	-012661	0.50
0.71	28	10	1845	-026368	0.50
1.00	60	26	1845	-033856	0.71
1.41	35	16	1861	-043035	1.00
2.00	84	40	1861	-052804	1.41
2.83	49	24	1865	-058828	2.00
4.00	134	70	1865	-072541	2.83
5.64	65	46	1931	-083753	4.00
8.00	210	117	1931	-096558	5.64
11.31	128	71	2002	-119306	8.00
16.00	364	178	2109	-099531	11.31
22.63	239	107		-096060	16.00
32.00					22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4L

13 AUG 65 0245 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	97	16	-33	----
	0.50	114	16	-46	269
	1.0	135	20	-22	260
	2.0	167	21	-21	293
	4.0	217	21	-20	270
	8.0	302	23	-27	302
	16.0	428	26	-31	326
32.0	673	32	-24	296	
WIND DIRECTION (0.1 DEG)	2	1709	65	3	344
	32	1833	24	6	----
TEMPERATURE (0.01C)	2	1813	13	-85	197

Z(M)	A-SPEED	A-TMETH	TMETH	RI	Z(M)
0.25	17	1	1760	-.02581	0.25
0.35	36	13	1761	-.021018	0.35
0.50	21	12	1793	-.04926	0.50
0.71	53	32	1793	-.052182	0.71
1.00	32	20	1813	-.084464	1.00
1.41	62	52	1813	-.072146	1.41
2.00	90	32	1845	-.084421	2.00
2.83	135	90	1845	-.092004	2.83
4.00	85	56	1993	-.108723	4.00
5.66	211	137	1993	-.114423	5.66
8.00	126	79	1982	-.130756	8.00
11.31	371	186	2091	-.101266	11.31
16.00	245	109		-.098122	16.00
22.63					22.63
32.00					32.00

13 AUG 65 0300 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 4M

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	79	17	-33	---
	0.50	97	16	-32	281
	1.0	118	19	-41	311
	2.0	132	19	-24	283
	4.0	203	20	-16	294
	8.0	287	22	-10	289
	16.0	418	25	-18	285
	32.0	669	28	26	307
WIND DIRECTION (0.1 DEG)	2	1767	68	5	279
	32	1874	27	21	256
TEMPERATURE (0.01C)	2	1778	10	63	241

Z(M)	W-SPEED	W-META	R1	Z(M)
0.25	19	1740	.004576	0.25
0.50	40	1742	-.021918	0.50
0.71	21	1755	-.048734	0.71
1.00	55	1778	.055627	1.00
1.41	34	1778	.065753	1.41
2.00	85	1815	.077562	2.00
2.83	51	1815	.093925	2.83
4.00	135	1879	.103349	4.00
5.64	84	1959	.119564	5.64
8.00	215	2074	.115938	8.00
11.31	131		.122594	11.31
16.00	382		.099143	16.00
22.63	251		.095661	22.63
32.00				32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4N

13 AUG 65 0315 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	66	21	21	---
	0.50	106	16	-35	339
	1.0	127	22	-34	264
	2.0	161	23	-32	275
	4.0	214	24	-22	306
	6.0	301	25	-1	292
	16.0	432	24	6	279
	32.0	674	24	7	339
WIND DIRECTION (0.1 DEG)	2	1767	77	-3	236
	32	1866	19	-23	282
TEMPERATURE (0.01C)	2	1771	6	44	256

Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	20	3	1733	-.006200	0.25
0.50	41	16	1736	-.022261	0.50
0.71	21	13		-.048743	0.50
1.00	55	35	1749	-.054095	0.71
1.41	34	22		-.062908	1.00
2.00	67	59	1771	-.072820	1.41
2.63	53	37		-.086991	2.00
4.00	140	103	1808	-.098021	2.63
5.66	67	66		-.114966	4.00
8.00	218	151	1874	-.118262	5.66
11.31	131	85		-.130266	8.00
16.00	374	202	1959	-.107146	11.31
22.63	243	117	2076	-.103657	16.00
32.00					22.63
					32.00



13 AUG 65 0330 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 4P

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	54	22	52	317
	0.50	78	15	-64	306
	1.0	97	16	-76	380
	2.0	132	18	-46	328
	4.0	190	17	-47	356
	8.0	277	21	-94	471
WIND DIRECTION (0-1 DEG)	16.0	397	25	-98	479
	32.0	626	34	-65	335
TEMPERATURE (0-01C)	2	1886	56	-5	305
	32	1928	24	-31	315
	2	1740	9	79	342

Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	24	4	1688	-005750	0.25
0.35	43	21	1692	-026601	0.35
0.50	19	17	1709	-077983	0.50
0.71	54	46	1709	-077055	0.71
1.00	35	31	1740	-083792	1.00
1.41	93	79	1740	-085410	1.41
2.00	58	48	1768	-094316	2.00
2.83	145	122	1768	-108306	2.83
4.00	87	74	1862	-128971	4.00
5.66	207	195	1862	-134720	5.66
8.00	120	81	1943	-148010	8.00
11.31	349	186	2048	-113384	11.31
16.00	229	105		-105030	16.00
22.43					22.43
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 40

13 AUG 65 0345 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	53	21	90	352
	0.50	60	13	-49	342
	1.0	98	15	-58	327
	2.0	135	16	-28	316
	4.0	190	17	-43	354
	6.0	278	21	-43	314
	10.0	406	26	-26	349
	32.0	647	30	-3	286
WIND DIRECTION (0.1 DEG)	2	1667	57	-28	287
	32	1950	22	9	----
TEMPERATURE (0.01C)	2	1733	6	-13	208

Z (M)	A-SPEED	A-TMETA	TMETA	R1	Z (M)
0.25	27	5	1676	-008879	0.25
0.50	46	24	1681	-026875	0.50
0.71	19	19	1700	-087192	0.71
1.00	55	52	1733	-080493	1.00
1.41	36	33	1785	-084284	1.41
2.00	91	65	1666	-308999	2.00
3.03	55	52	1933	-113645	3.03
4.00	143	133	2055	-121398	4.00
5.64	88	81	1666	-137974	5.64
8.00	216	166	1933	-134082	8.00
11.31	128	87	2055	-139684	11.31
16.00	369	189	2055	-103041	16.00
22.63	241	102	2055	-092095	22.63
32.00					32.00

Table 3 (Continued)

WINDY ACROSS RUN NO. 48

13 AUG 69 0400 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	71	21	69	264
	0.50	93	15	-41	322
	1.0	114	20	-38	311
	2.0	149	20	-41	335
	4.0	203	21	-21	264
	8.0	393	22	-39	351
	16.0	427	30	21	329
	32.0	692	26	21	308
WIND DIRECTION (D.G. DEG)	2	1927	77	-3	297
	32	1961	21	-28	-----
TEMPERATURE (D.G. C)	2	1739	6	-61	221

Z(M)	A-SPEED	A-TMETH	TMETH	R1	Z(M)
0.25	22	5	1663	.00554	0.25
0.50	43	22	1688	.027869	0.50
0.90	21	17		.063846	0.71
0.71	96	47	1708	.070170	1.00
1.00	36	30		.081061	1.41
1.41	89	76	1735	.08737	2.00
2.00	54	46		.10294	2.83
4.00	144	122	1781	.109834	4.00
8.00	90	76		.123953	8.66
8.66	224	167	1657	.133348	8.00
11.31	134	91		.087444	11.31
16.00	399	209	1948	.086106	16.00
22.63	265	118	2066		22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 48

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	27	30	-68	188
	0.50	52	31	40	203
	1.0	69	31	33	276
	2.	105	27	-4	215
	4.	156	25	0	224
	8.0	233	30	-6	216
	16.0	352	35	2	243
	32.0	619	37	37	234

WIND DIRECTION (0.1 DEG)

2	1818
32	1959

TEMPERATURE (0.01C)

2	1680
20	66

Z(M)	A-SPEED	A-TIME	TIME	AI	Z(M)
0.25	25	7	1622	.00293	0.25
0.50	42	26	1629	.037255	0.50
0.71	17	21		.120593	0.71
1.00	53	51	1650	.085169	1.00
1.41	36	30		.076748	1.41
2.00	87	77	1680	.063324	2.00
2.83	51	47		.119660	2.83
4.00	128	119	1727	.135855	4.00
5.66	77	72		.160837	5.66
8.00	196	161	1789	.196380	8.00
11.31	119	89		.163705	11.31
16.00	386	221	1888	.110287	16.00
22.63	267	132		.097261	22.63
32.00			2020		32.00

13 AUG 65 0-30 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 41

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	6	9	-286	---
	0.50	42	16	116	361
	1.0	84	27	131	335
	2.0	109	18	85	321
	4.0	162	21	53	275
	6.0	233	25	45	298
	16.0	344	31	21	254
	32.0	608	41	34	175
WIND DIRECTION (0.1 DEG)	2	1614	40	5	312
	32	1951	24	-75	449
TEMPERATURE (0.01C)	2	1676	11	-3	191

Z(M)	A-SPEED	A-THETA	THETA	K1	Z(M)
0.25	39	20	1564	.010935	0.25
0.35	56	61	1564	-.042617	0.35
0.50	19	41	1625	-.166711	0.50
0.71	64	92	1676	-.105440	0.71
1.00	45	51	1676	-.063562	1.00
1.41	98	112	1737	-.143623	1.41
2.00	53	61	1604	-.109268	2.00
2.83	124	126	1737	-.143623	2.83
4.00	71	67	1604	-.175661	4.00
5.66	182	137	1674	-.194363	5.66
8.00	111	70	1674	-.149622	8.00
11.31	375	197	2001	-.104197	11.31
16.00	264	127	2001	-.045771	16.00
22.53					22.53
32.00					32.00

Table 3 (Continued)

HINDY ACRES RUN NO. 4U

13 AUG 65 0845 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	18	201
	0.50	39	5	-10	340
	1.0	57	10	74	439
	2.0	97	10	0	212
	4.0	159	12	24	254
	8.0	244	15	3	260
	16.0	364	18	19	339
	32.0	631	26	20	286
WIND DIRECTION (0.1 DEG)	2	1935	39	-24	-----
	32	1975	20	-30	-----
TEMPERATURE (0.01C)	2	1632	9	82	292

Z (M)	A-SPEED	A-THETA	T-META	R1	Z (M)
0.25	36	19	1519	.012209	0.25
0.35	54	59	1528	-.047630	0.35
0.50	18	40	1578	-.205463	0.50
0.71	58	94	1632	-.131377	0.71
1.00	40	54	1707	-.112155	1.00
1.41	102	129	1766	-.116344	1.41
2.00	62	75	1865	-.129380	2.00
2.83	147	164	2024	-.142058	2.83
4.00	95	69	1796	-.162905	4.00
5.66	205	178	1865	-.156107	5.66
8.00	120	69	1865	-.162971	8.00
11.31	387	228	139	-.113168	11.31
16.00	267	139	2024	-.102416	16.00
22.63					22.63
32.00					32.00

13 AUG 65 0500 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 4V

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC.)	0.25	3	0	-3	289
	0.50	44	6	-44	467
	1.00	63	6	44	260
	2.00	102	11	46	-----
	4.00	162	15	79	253
	8.00	251	18	109	366
	16.00	376	15	33	271
	32.00	643	20	34	279
WIND DIRECTION (0.1 DEG)	2	1933	88	51	189
	32	1984	12	-31	-----
TEMPERATURE (0.01C)	2	1560	34	-19	171
Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	41	15	1454	.007449	0.25
0.35	60	54	1469	-.035394	0.35
0.50	19	39	1508	-.140228	0.50
0.71	58	91	1560	-.127498	0.71
1.00	39	52		-.113689	1.00
1.41	99	129		-.123801	1.41
2.00	60	77		-.142181	2.00
2.83	149	178	1637	-.150402	2.83
4.00	89	101		-.168994	4.00
5.66	214	205	1738	-.167403	5.66
8.00	125	104		-.175608	8.00
11.31	392	257	1842	-.124523	11.31
16.00	267	153	1995	-.112667	16.00
22.63					22.63
32.00					32.00

WINDY ACRES RUN NO. 4M

Table 3 (Continued)

13 AUG 65 0515 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	78	250
	0.50	54	7	-68	392
	1.0	72	10	-42	340
	2.0	107	13	-19	324
	4.0	154	19	-63	276
	8.0	216	24	-74	270
	16.0	341	19	-85	381
	32.0	631	23	-8	270
WIND DIRECTION (0.1 DEG)	2	1659	42	-35	251
	32	1985	19	58	288
TEMPERATURE (0.01C)	2	1527	11	-87	227

Z(M)	A-SPEED	A-TMETH	TMETH	R1	Z(M)
0.25	51	14	1428	.004497	0.25
0.50	59	51	1442	-.025289	0.35
0.71	16	37	1479	-.190708	0.50
1.00	53	85	1479	-.142771	0.71
1.41	35	48	1527	-.130672	1.00
2.00	62	108	1527	-.151297	1.41
2.83	47	60	1587	-.160820	2.00
4.00	111	144	1587	-.218650	2.83
5.46	64	84	1671	-.272359	4.00
8.00	187	192	1671	-.205742	5.46
11.31	123	108	1779	-.188976	8.00
16.00	413	286	1779	-.125051	11.31
22.63	290	178	1957	-.125051	16.00
32.00				-.111494	22.63
					32.00



13 AUG 65 0530 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 41

	Z(M)	MEAN	SIGMA	SKENLESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	51	213
	0.50	45	16	-16	212
	1.0	46	34	-2	152
	2.0	98	23	-52	210
	4.0	164	25	-27	162
	6.0	263	18	72	271
	10.0	400	17	-5	269
	32.0	722	32	31	191
WIND DIRECTION (0.1 DEG)	2	1638	163	-19	179
	32	1956	22	87	261
TEMPERATURE (0.01C)	2	1493	16	120	358

Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	42	3	1413	-001421	0.25
0.50	43	32	1416	.040913	0.50
0.71	1	29		----	0.71
1.00	93	77	1445	-129471	1.00
1.41	92	48		-059269	1.41
2.00	116	130	1493	-068008	2.00
2.83	66	82		-128413	2.83
4.00	165	205	1575	-141498	4.00
5.66	199	123		-166613	5.66
8.00	244	253	1698	-159099	8.00
11.31	145	130		-163460	11.31
16.00	459	326	1628	-115198	16.00
22.63	314	196		-104507	22.63
32.00			2024		32.00

Table 3 (Continued)

	Z(M)	MEAN	STDEV	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC.)	0.25	3	0	67	230
	0.50	39	21	-21	175
	1.00	5	0	-752	---
	2.00	72	36	72	237
	4.00	133	19	40	191
	8.00	212	14	66	348
	16.00	357	16	-44	375
32.00	671	22	-44	351	
WIND DIRECTION (0-1 DEG)	2	1666	257	-51	178
	32	1911	18	12	252
TEMPERATURE (0-01C)	?	1485	7	-43	226

Z(M)	A-SPEED	A-TMETH	TMETA	RI	Z(M)
0.25	36	4	1417	.002579	0.25
0.50	2	30	1421	---	0.50
0.71	-34	26	1447	.037542	0.50
1.00	33	64	1465	.272612	0.71
1.41	67	36	1545	.028266	1.00
2.00	128	96	1633	.056417	2.00
2.83	61	60	1776	.107501	2.83
4.00	140	148	2005	.142107	4.00
5.66	79	86	174108	.167520	5.66
8.00	224	233	1633	.174108	8.00
11.31	145	145	1776	.162677	11.31
16.00	459	372	1776	.131620	16.00
22.83	314	227	2005	.121172	22.83
32.00					32.00

13 AUG 65 0900 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 42

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	18	110
	0.50	9	10	-146	341
	1.0	5	0	-54	502
	2.0	6	6	-543	---
	4.0	107	10	-22	282
	6.0	183	12	18	301
	16.0	323	15	-23	265
	32.0	622	22	6	257
WIND DIRECTION (0-1 DEG)	2	2016	114	---	736
	32	1897	18	10	216
TEMPERATURE (0-0.1C)	2	1514	9	9	206

Z(M)	U-SPEED	U-TMETHA	THETA	RI	Z(M)
0.25	6	2	1462	-046332	0.25
0.35	2	23	1464	---	0.35
0.50	-4	21	---	---	0.50
0.71	-3	50	1485	---	0.71
1.00	1	29	---	---	1.00
1.41	1	72	1514	---	1.41
2.00	102	43	---	---	2.00
2.83	101	109	1557	-065224	2.83
4.00	177	66	---	---	4.00
5.66	78	172	1623	-065465	5.66
8.00	216	106	---	---	8.00
11.31	140	335	1729	-151964	11.31
16.00	439	229	---	---	16.00
22.63	299	---	---	---	22.63
32.00	---	---	1958	-135034	32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 44A

13 AUG 65 0615 CST

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	-238	----
	0.50	42	31	29	120
	1.0	32	40	-61	167
	2.0	65	54	11	120
	4.0	128	28	-60	198
	8.0	178	20	-29	221
	16.0	276	18	18	272
	32.0	566	23	-7	----
WIND DIRECTION (0.1 DEG)	2	1507	261	-24	113
	32	1862	27	-11	195
TEMPERATURE (0.01C)	2	1516	17	-74	275

Z(M)	A-SPEED	A-TMETH	TMETA	RI	Z(M)
0.25	39	13	1451	.007136	0.25
0.50	28	36	1464	.101051	0.35
0.71	-10	23		.363866	0.50
1.00	23	52	1487	.463758	0.71
1.41	33	29		.068614	1.00
2.00	96	74	1516	.075669	1.41
2.83	63	45		.075529	2.00
4.00	113	103	1551	.151766	2.83
5.66	50	58		.308544	4.00
8.00	148	158	1619	.270732	5.66
11.31	98	100		.276176	8.00
16.00	368	299	1719	.148349	11.31
22.63	290	199		.124855	16.00
32.00			1918		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 408

13 AUG 65 0630 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	9	14	-245	744
	0.50	64	8	-22	266
	1.0	79	12	8	211
	2.0	114	14	14	221
	4.0	169	11	18	251
	8.0	247	16	-20	249
	16.0	341	33	-43	207
	32.0	563	46	-65	----
WIND DIRECTION (0.1 DEG)	2	1329	104	-31	198
	32	1791	16	17	273
TEMPERATURE (0.01C)	2	1468	7	-16	279

Z (M)	6-SPEED	6-THETA	T-META	Q1	Z (M)
0.25	55	6	1411	.001657	0.25
0.50	70	21	1417	.010133	0.35
0.71	15	15		.111475	0.50
1.00	50	51	1432	.096403	0.71
1.41	35	36		.098188	1.00
2.00	90	103	1468	.119990	1.41
2.83	58	67		.147732	2.00
4.00	133	162	1535	.172404	2.83
5.66	73	95		.202704	4.00
8.00	172	186	1630	.266863	5.66
11.31	94	101		.303062	8.00
16.00	336	299	1731	.197745	11.31
22.63	242	198		.178325	16.00
32.00			1929		22.63
					32.00

Table 3 (Continued)

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WINDY ACRES RUN NO. 4CC					
WIND SPEED (CM/SEC)	0.25	6	11	-336	---
	0.50	43	10	-47	265
	1.0	39	26	10	179
	2.0	74	19	20	366
	4.0	122	21	-32	251
	6.0	205	28	-17	244
	10.0	332	32	5	212
	32.0	577	35	10	197
WIND DIRECTION (0-1 DEG)	2	1656	192	-73	275
	32	1819	27	-73	336
TEMPERATURE (0-01C)	2	1546	32	-21	177

Z(M)	W-SPEED	W-META	RI	Z(M)
0.25	37	-5	-.003041	0.25
0.50	33	4	-.008651	0.50
0.71	-4	6	-.937255	0.71
1.00	31	29	-.142177	1.00
1.41	35	20	-.054387	1.41
2.00	63	55	-.075165	2.00
2.83	48	35	-.101111	2.83
4.00	131	107	-.117195	4.00
5.98	63	72	-.138863	5.98
8.00	210	189	-.160637	8.00
11.31	127	117	-.192117	11.31
16.00	372	290	-.161106	16.00
22.63	245	182	-.159761	22.63
32.00				32.00

Table 3 (Continued)

WINDY ACROSS RUN NO. 488

13 AUG 68 0700 CST

	Z(1)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	20	111
	0.50	40	9	-89	287
	1.0	10	19	-309	---
	2.0	78	9	-60	384
	4.0	117	10	-48	288
	6.0	172	9	47	320
	10.0	289	10	-19	345
	32.0	587	22	-14	---
WIND DIRECTION (0-1 DEG)	2	1832	191	54	243
	32	1893	24	138	386
TEMPERATURE (0-0.1C)	2	1893	6	-21	250

Z(1)	A-SPEED	A-TWETA	TMETA	R1	Z(1)
0.25	37	-5	1865	-.003038	0.25
0.50	7	5	1860	-.239855	0.35
0.71	-30	10	1860	-.019484	0.50
1.00	38	33	1870	-.126721	0.71
1.41	69	23	1893	-.018105	1.00
2.00	107	54	1824	-.048338	1.41
2.73	42	31	1672	-.119790	2.00
4.59	97	79	1672	-.157853	2.83
9.84	95	48	1737	-.210411	4.00
6.00	149	133	1978	-.178873	5.86
11.31	113	85	1737	-.176272	6.00
18.00	369	306	1737	-.153892	11.31
23.63	272	221	1978	-.157345	18.00
33.00					23.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4EE

13 AUG 65 0715 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
<b>WIND SPEED (CM/SEC)</b>					
	0.25	51	45	-24	140
	0.50	85	27	-78	261
	1.0	91	29	-75	273
	2.0	110	26	-79	294
	4.0	144	19	-61	339
	6.0	190	15	-104	411
	16.0	291	16	-51	261
	32.0	483	43	18	140
<b>WIND DIRECTION (0.1 DEG)</b>					
	2	1321	59	31	292
	32	1772	60	62	232
<b>TEMPERATURE (0.01C)</b>					
	2	1620	34	37	176

Z(M)	4-META	1-META	MI	Z(M)
0.25	-3	1626	-.002152	0.25
0.50	-9	1623	-.013207	0.50
0.71	-6	1617	-.276800	0.71
1.00	-3	1620	-.022537	1.00
1.41	3	1634	-.027603	1.41
2.00	17	1672	-.056845	2.00
2.63	14	1634	-.060435	2.63
4.00	52	1672	-.123221	4.00
5.66	38	1755	-.166709	5.66
6.00	121	1927	-.209798	6.00
11.31	83	1755	-.259711	11.31
16.00	255	1927	-.235935	16.00
22.63	172		-.246016	22.63
32.00				32.00



Table 3 (Continued)

RINDY ACRES RUN NO. 4FF

13 AUG 65 0730 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	145	33	-70	220
	0.50	165	34	-91	420
	1.0	181	43	-73	346
	2.0	201	47	-58	336
	4.0	219	44	-78	348
	8.0	243	43	-71	333
	16.0	290	45	-23	296
	32.0	423	65	80	300
WIND DIRECTION (0.1 DEG)	2	1516	148	-15	241
	32	1682	59	-49	422
TEMPERATURE (0.01C)	2	1876	104	-3	187

Z(M)	A-SPEED	A-META	IMETA	RI	Z(M)
0.25	20	-10	1915	-.025346	0.25
0.35	36	-20	1905	-.035691	0.35
0.50	16	-10		-.004254	0.50
0.71	36	-29	1895	-.104154	0.71
1.00	20	-19		-.156347	1.00
1.41	38	-33	1876	-.212836	1.41
2.00	18	-14		-.284613	2.00
2.83	42	-26	1852	-.274677	2.83
4.00	24	-12		-.274576	4.00
5.66	71	-12	1850	-.068740	5.66
8.00	47	0		-.000000	8.00
11.31	160	69	1850	.158576	11.31
16.00	133	69		.205411	16.00
22.63			1919		22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 466

13 AUG 65 0745 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	201	43	-49	266
	0.50	225	45	-72	350
	1.0	262	51	-40	297
	2.0	295	55	-42	307
	4.0	320	61	-30	313
	8.0	344	57	-27	286
	16.0	362	50	-20	282
32.0	381	52	-12	266	
WIND DIRECTION (0.1 DEG)	2	1637	103	-32	373
	32	1728	95	-14	294
TEMPERATURE (0.01C)	2	2098	39	50	264

Z (M)	A-SPEED	A-TMETHA	TMETHA	RI	Z (M)
0.25	28	-19	2155	-019765	0.25
0.35	61	-31	2136	-019223	0.35
0.50	33	-12	2124	-017981	0.50
0.71	66	-38	2098	-040292	0.71
1.00	33	-26	2078	-077985	1.00
1.41	58	-46	2065	-126393	1.41
2.00	25	-20	2052	-209212	2.00
2.83	49	-33	2049	-254239	2.83
4.00	24	-13	2049	-255274	4.00
5.66	42	-26	2049	-545577	5.66
8.00	16	-13	2049	-----	8.00
11.31	37	-16	2049	-----	11.31
16.00	19	-3	2049	-----	16.00
22.63				-----	22.63
32.00				-----	32.00

Table 3 (Continued)

13 AUG 65 0800 CST

WINDY ACRES RUN NO. 4MM

	ZIM1	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	262	57	-46	322
	0.50	296	61	-46	339
	1.0	350	76	-17	291
	2.0	398	85	-11	265
	4.0	436	83	-6	263
	8.0	470	86	13	231
	16.0	509	87	19	259
	32.0	549	75	-10	208
WIND DIRECTION (0.1 DEG)	2	1807	96	17	321
	32	1843	61	-12	414
TEMPERATURE (0.01C)	2	2229	37	11	191

ZIM1	A-SPEED	A-TMETHA	TMETHA	RI	ZIM1
0.25	34	-15	2280	--010535	0.25
0.50	68	-26	2265	--008307	0.50
0.71	54	-13		--007244	0.71
1.00	102	-36	2252	--015911	1.00
1.41	46	-23		--032463	1.41
2.00	86	-42	2229	--052257	2.00
2.63	36	-19		--085642	2.63
4.00	72	-33	2210	--117229	4.00
5.66	34	-14		--157740	5.66
8.00	73	-29	2196	--200545	8.00
11.31	39	-15		--257026	11.31
16.00	79	-22	2181	--259999	16.00
22.63	40	-7		--229129	22.63
32.00			2174		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4JJ 13 AUG 65 0815 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	305	59	-6	302
	0.50	344	64	-14	309
	1.0	406	67	-1	280
	2.0	461	74	20	290
	4.0	508	78	32	290
	8.0	562	76	31	271
	16.0	599	72	29	271
32.0	638	76	10	235	
WIND DIRECTION (0.1 DEG)	2	1810	95	7	298
	32	1824	58	-----	-----
TEMPERATURE (0.01C)	2	2321	21	35	321

Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	39	-11	2376	--005852	0.25
0.35	101	-33	2365	--007409	0.35
0.50	62	-22		--009289	0.50
0.71	117	-44	2343	--014233	0.71
1.41	55	-22		--023577	1.00
2.00	102	-45	2321	--039682	1.41
2.83	47	-23		--067564	2.00
4.00	101	-42	2298	--075599	2.83
5.66	54	-19		--084621	4.00
6.00	91	-40	2279	--177519	5.66
11.31	37	-21		--398714	6.00
16.00	76	-26	2258	--330976	11.31
22.63	39	-5		--170960	16.00
32.00			2253		22.63
					32.00

Table 3 (Continued)

13 AUG 65 0630 CST

NIMBY ACRES RUN NO. 4KK

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	342	64	-22	296
	0.50	365	71	-26	292
	1.0	443	83	-5	263
	2.0	500	81	-6	266
	4.0	553	81	14	292
	8.0	613	86	20	288
	16.0	670	69	34	259
	32.0	727	76	28	262
WIND DIRECTION (0.1 DEG)	2	1751	90	-9	299
	32	1602	53	6	643
TEMPERATURE (0.01C)	2	2367	31	-5	235

Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	43	-16	2448	-.006986	0.25
0.50	101	-39	2432	-.006736	0.50
0.71	56	-23		-.011049	0.71
1.00	115	-45	2409	-.015562	1.00
1.41	57	-22		-.021903	1.41
2.00	110	-46	2337	-.034801	2.00
2.83	53	-24		-.055319	2.83
4.00	113	-44	2363	-.063133	4.00
5.66	60	-20		-.071995	5.66
8.00	117	-44	2343	-.117877	8.00
11.31	57	-24		-.191599	11.31
16.00	114	-20	2319	-.112895	16.00
22.63	57	4		-.063883	22.63
32.00			2323		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4LL

13 AUG 65 0845 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	362	73	-14	270
	0.50	406	75	-15	257
	1.0	474	65	2	266
	2.0	542	92	2	273
	4.0	597	90	11	252
	8.0	667	82	27	274
	16.0	717	71	-20	261
WIND DIRECTION (0.1 DEG)	32.0	756	71	-5	249
	2	1762	98	-36	321
TEMPERATURE (0.01C)	32	1813	56	-15	311
	2	2445	18	10	204

Z(M)	A-SPEED	A-TMETH	TMETH	R1	Z(M)
0.25	46	-29	2529	-.011039	0.25
0.35	112	-54	2500	-.009813	0.35
0.50	66	-25		-.009254	0.50
1.00	134	-55	2475	-.013979	0.71
1.41	68	-30		-.020943	1.00
2.00	123	-64	2445	-.038654	1.41
2.83	55	-34		-.072645	2.00
4.00	125	-59	2411	-.069069	2.83
5.66	70	-25		-.066017	4.00
8.00	120	-49	2386	-.124602	5.66
11.31	50	-24		-.248841	8.00
16.00	91	-13	2362	-.114980	11.31
22.43	41	11		-.339018	16.00
32.00			2373		22.43
					32.00

13 AUG 65 1950 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 5A

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	128	18	-23	---
	0.50	145	20	-41	312
	1.0	170	22	-55	340
	2.0	203	24	-44	309
	4.0	260	26	2	271
	8.0	347	23	-27	248
	16.0	486	19	5	361
	32.0	609	29	-33	152
WIND DIRECTION (0.1 DEG)	2	1417	55	-20	190
	32	1517	16	-11	281
TEMPERATURE (0.01C)	2	2429	34	28	222

Z(M)	A-SPEED	A-TMETH	TMETH	R1	Z(M)
0.25	17	3	2393	.006393	0.25
0.50	42	12	2396	.015556	0.50
0.71	25	9		.023287	0.71
1.00	58	33	2405	.044847	1.00
1.41	33	24		.071237	1.41
2.00	90	59	2429	.066545	2.00
2.83	57	35		.069573	2.83
4.00	144	93	2464	.081825	4.00
5.66	87	56		.098822	5.66
8.00	206	130	2522	.111565	8.00
11.31	119	72		.130650	11.31
16.00	282	142	2594	.150344	16.00
22.63	143	70		.175777	22.63
32.00			2664		32.00

Table 3 (Continued)

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WINDY ACRES RUN NO. 58					
13 AUG 65 2005 CST					
WIND SPEED (CM/SEC)	0.25	134	26	-95	150
	0.50	154	28	-92	404
	1.0	182	32	-92	403
	2.0	215	34	-84	375
	4.0	272	36	-71	344
	8.0	369	43	-52	286
	16.0	500	56	-14	279
	32.0	658	86	9	278
WIND DIRECTION (0-1 DEG)	2	1349	76	-14	299
	32	1472	43	69	361
TEMPERATURE (0.01C)	2	2332	22	102	275

Z (M)	A-SPEED	A-TMETA	TMETA	RI	Z (M)
0.25	20	3	2294	-006083	0.25
0.35	48	14	2297	-013942	0.35
0.50	26	11		-022764	0.50
0.71	61	35	2308	-033143	0.71
1.00	33	24		-071471	1.00
1.41	90	61	2332	-069023	1.41
2.00	57	37		-073788	2.00
2.83	154	105	2369	-081018	2.83
4.00	97	68		-093483	4.00
5.66	226	163	2437	-114479	5.66
8.00	131	95		-142613	8.00
11.31	289	179	2532	-156085	11.31
16.00	158	84		-173097	16.00
22.63			2616		22.63
32.00					32.00



13 AUG 65 2020 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 5C

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	165	30	-15	229
	0.50	209	33	-27	297
	1.0	241	40	-36	317
	2.0	260	42	-23	308
	4.0	337	43	-33	315
	6.0	421	42	-19	261
	16.0	549	40	-12	257
	32.0	727	37	-16	----
WIND DIRECTION (0.1 DEG)	2	1416	66	0	320
	32	1497	19	24	----
TEMPERATURE (0.01C)	2	2330	24	35	152

Z(M)	6-SPEED	6-TMETH	TMETA	RI	Z(M)
0.25	24	3	2301	.004224	0.25
0.35	55	13	2304	-.009508	0.35
0.50	32	10	2314	-.015636	0.50
0.71	71	26	2330	-.023655	0.71
1.00	39	16	2356	-.034113	1.00
1.41	96	42	2400	-.041777	1.41
2.00	57	26	2466	-.051664	2.00
2.83	141	70	2566	-.064482	2.83
4.00	64	44		-.080732	4.00
5.66	212	112		-.091117	5.66
8.00	126	68		-.107259	8.00
11.31	306	166		-.126308	11.31
16.00	178	98		-.159415	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 50		13 AUG 65 2035 CST					
	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS		
WIND SPEED (CM/SEC)	0.25	165	33	-47	328		
	0.50	208	35	-57	362		
	1.0	238	40	-33	296		
	2.0	276	42	-39	263		
	4.0	328	41	-31	300		
	8.0	412	41	-16	314		
	16.0	540	37	-19	299		
	32.0	747	27	-18	----		
WIND DIRECTION (0-1 DEG)	2	1401	68	-26	320		
	32	1496	15	15	408		
TEMPERATURE (0-0.1C)	2	2281	32	-13	133		

Z(M)	A-SPEED	A-TIME	T-META	R1	Z(M)
0.25	23	3	2255	-.004607	0.25
0.50	53	11	2258	-.008996	0.35
0.71	30	8		-.014439	0.50
1.00	68	23	2266	-.022850	0.71
1.41	38	15		-.033740	1.00
2.00	90	38	2281	-.043079	1.41
2.83	52	23		-.055221	2.00
4.00	136	62	2304	-.061501	2.83
5.68	84	39		-.071890	4.00
8.00	212	100	2343	-.081917	5.68
11.21	128	61		-.096415	8.00
16.00	335	163	2404	-.108149	11.21
22.63	207	102		-.122942	16.00
32.00			2506		22.63
					32.00

Table 3 (Continued)

13 AUG 68 2050 CST

WINDY ACRES RUN NO. 54

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	145	24	-52	274
	0.50	162	26	-46	313
	1.0	166	29	-34	285
	2.0	220	30	-16	276
	4.0	272	30	-20	287
	8.0	360	28	-2	311
	16.0	495	23	45	422
	32.0	707	16	-6	----
WIND DIRECTION (0-365)	2	1413	56	-13	299
	32	1669	14	-6	----
TEMPERATURE (0-01C)	2	2176	20	51	235

Z(M)	A-SPEED	A-TMETA	TMETA	R1	Z(M)
0.25	17	1	2147	.002811	0.25
0.50	53	10	2149	-.012472	0.50
1.0	26	9	2157	-.021709	1.00
2.0	58	21	2176	.038376	1.41
4.0	32	19	2203	-.060485	2.00
8.0	64	46	2232	-.065052	2.83
16.0	128	37	2257	-.072312	4.00
32.0	256	77	2455	-.084014	5.66
	512	50		-.095306	8.00
	1024	129		-.112556	11.31
	2048	79		-.125302	16.00
	4096	206		-.146225	22.53
	8192	127			32.00

Table 3 (Continued)

	Z(1)	MEAN	SIGMA	SKEWNESS	KURTOSIS
13 AUG 65 2105 CST					
WIND SPEED (CM/SEC)	0.25	130	21	-40	----
	0.50	144	22	-51	304
	1.0	169	25	-20	286
	2.0	203	27	-25	311
	4.0	260	29	-35	284
	8.0	353	25	-14	265
	16.0	496	25	-3	275
	32.0	717	32	-14	-----
WIND DIRECTION (0.1 DEGS)	2	1340	64	-16	325
	32	1490	22	29	257
TEMPERATURE (0.01C)	2	2103	31	-27	171

Z(1)	A-SPEED	A*THETA	THETA	AI	Z(1)
0.25	14	2	2073	-0.08330	0.25
0.50	39	10	2075	-0.15198	0.50
0.71	75	8	2083	-0.20924	0.71
1.00	99	26	2103	-0.37174	1.00
1.41	34	20	2137	-0.56542	1.41
2.00	91	54	2147	-0.68232	2.00
2.83	57	34	2197	-0.68336	2.83
4.00	150	94	2424	-0.77062	4.00
5.66	91	60		-0.80453	5.66
8.00	236	156		-1.03079	8.00
11.31	143	96		-1.22093	11.31
16.00	364	227		-1.25662	16.00
22.67	221	131		-1.36966	22.67
32.00					32.00

13 AUG 65 2120 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 56

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	136	26	-51	252
	0.50	153	27	-54	304
	1.0	176	31	-53	305
	2.0	215	34	-42	299
	4.0	272	32	-26	301
	8.0	370	32	-12	269
	16.0	537	30	22	266
32.0	765	29	-1	-----	
WIND DIRECTION (0.1 DEG)	2	1328	57	-7	297
	32	1484	16	0	-----
TEMPERATURE (0.01C)	2	2050	10	-7	227

Z(M)	4-SPEED	4-THETA	THETA	RI	Z(M)
0.25	17	1	2019	.002824	0.25
0.35	40	11	2020	.015922	0.35
0.50	23	10		.030961	0.50
0.71	62	30	2030	.036137	0.71
1.00	39	20		.043050	1.00
1.41	96	56	2050	.056225	1.41
2.00	57	36		.072453	2.00
2.83	155	105	2066	.080743	2.83
4.00	98	63		.093424	4.00
5.66	265	205	2155	.107508	5.66
8.00	167	136		.126906	8.00
11.31	395	293	2291	.137746	11.31
16.00	228	157		.156814	16.00
22.63			2448		22.63
32.00					32.00

Table 3 (Continued)

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
13 AUG 65 2135 CST					
WINDY ACRES RUN NO. 5H					
WIND SPEED (CM/SEC)	0.25	127	24	-43	174
	0.50	143	24	-21	258
	1.0	167	26	-39	273
	2.0	200	30	-29	291
	4.0	255	31	-20	260
	6.0	351	31	-3	272
	16.0	512	26	16	271
	32.0	739	25	15	----
WIND DIRECTION (0-1 DEG)	2	1358	67	-14	303
	32	1494	23	0	197
TEMPERATURE (0.01C)	2	2027	18	36	166

Z (M)	4-SPEED	4-THETA	THETA	PI	λ (M)
0.25	16	1	1998	.003169	0.25
0.35	40	10	1999	.014467	0.35
0.50	24	9		.025607	0.50
0.71	57	28	2008	.039935	0.71
1.00	33	19		.057165	1.00
1.41	68	53	2027	.063379	1.41
2.00	55	34		.073587	2.00
2.83	151	100	2061	.081098	2.83
4.00	96	66		.093608	4.00
5.66	257	189	2127	.105508	5.66
8.00	161	123		.123638	8.00
11.31	386	286	2250	.140472	11.31
16.00	227	165		.166040	16.00
22.63			2415		22.63
32.00					32.00

13 AUG 65 2150 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 5J

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
MIND SPEED (CM/SEC)	0.25	61	37	46	200
	0.50	91	19	-77	299
	1.0	113	20	-91	347
	2.0	142	21	-83	324
	4.0	202	19	-67	346
	8.0	296	18	-44	349
	16.0	457	15	-29	327
	32.0	672	19	-8	----
MIND DIRECTION (0.1 DEG)	2	1443	54	33	333
	32	1526	15	-1	273
TEMPERATURE (0.01C)	2	1946	35	17	170

Z (M)	A-SPEED	A-THETA	THETA	R1	Z (M)
0.25	30	3	1893	.002738	0.25
0.35	52	19	1896	-.016341	0.35
0.50	22	16		-.054364	0.50
0.71	54	50	1912	-.079702	0.71
1.00	32	34		-.109119	1.00
1.41	69	63	1946	-.097295	1.41
2.00	57	49		-.096985	2.00
2.83	151	134	1995	-.108895	2.83
4.00	94	85		-.125978	4.00
5.66	255	220	2080	-.124947	5.66
8.00	161	135		-.135887	8.00
11.31	376	282	2215	-.146716	11.31
16.00	215	147		-.165151	16.00
22.63			2362		22.63
32.00					32.00

13 AUG 65 2205 CST

Table 3 (Continued)

MINDY ACRES RUN NO. 5K

	Z (M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	44	38	6	113
	0.50	91	10	-43	353
	1.0	113	12	-7	---
	2.0	151	13	-27	313
	4.0	221	15	-12	177
	6.0	337	15	-26	---
	16.0	488	17	-31	295
32.0	708	22	-21	195	
WIND DIRECTION (0.1 DEG)	2	1437	40	-20	337
	32	1550	19	-25	273
TEMPERATURE (0.01C)	2	1874	8	69	328

Z (M)	4-SPEED	4-THETA	THETA	RT	Z (M)
0.25	47	3	1605	-.001119	0.25
0.35	69	24	1808	-.011758	0.35
0.50	22	21		-.071563	0.50
0.71	60	66	1629	-.085449	0.71
1.41	38	45		-.102684	1.00
2.00	108	117	1874	-.093337	1.41
2.63	70	72		-.096636	2.00
4.00	186	197	1946	-.105631	2.63
5.66	116	125		-.121765	4.00
8.00	267	258	2071	-.133771	5.66
11.31	151	133	2204	-.152244	8.00
16.00	371	259		-.136515	11.31
22.63	220	126	2330	-.135300	16.00
32.00					22.63
					32.00



Table 3 (Continued)

WINDY ACRES RUN NO. 5L

13 AUG 65 2220 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	105	20	-49	---
	0.50	120	20	-49	330
	1.0	145	22	-46	320
	2.0	181	25	-64	346
	4.0	245	24	-59	378
	8.0	358	21	-48	357
	32.0	740	23	-12	274
		27	6	185	
WIND DIRECTION (0-1 DEG)	2	1452	56	-36	265
	32	1568	16	-5	306
TEMPERATURE (0-01C)	2	1877	13	46	236
Z(M)	A-SPEED	A-TMETH	TMETH	RI	Z(M)
0.25	15	C	1830	.000000	0.25
0.35	40	16	1830	.023310	0.35
0.50	25	16		.042193	0.50
0.71	61	47	1846	.058848	0.71
1.00	36	31		.078790	1.00
2.00	100	88	1877	.081866	1.41
2.83	64	57		.091537	2.00
4.00	177	162	1934	.095983	2.83
5.66	113	105		.107870	4.00
8.00	273	242	2039	.120109	5.66
11.31	160	137		.139818	8.00
16.00	382	264	2176	.153305	11.31
22.63	222	127		.154053	16.00
32.00			2303		22.63
					32.00

13 AUG 65 2235 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 5H

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	149	28	-82	292
	0.50	166	29	-54	282
	1.0	198	33	-76	368
	2.0	234	34	-45	316
	4.0	289	36	-41	299
	8.0	382	35	-13	320
	16.0	529	36	9	306
32.0	748	38	50	----	
WIND DIRECTION (0.1 DEG)	2	1521	84	-15	241
	32	1599	37	-63	293
TEMPERATURE (0.01C)	2	1951	29	-1	172

Z(M)	U-SPEED	U-THETA	THETA	RI	Z(M)
0.25	19	2	1918	.004544	0.25
0.35	49	15	1920	-.014518	0.35
0.50	30	13	1933	-.023736	0.50
0.71	66	31	1933	-.033066	0.71
1.00	36	18	1951	-.045623	1.00
1.41	91	48	1951	-.053621	1.41
2.00	54	30	1981	-.065103	2.00
2.83	91	91	1981	-.077035	2.83
4.00	148	91	2042	-.082449	4.00
5.66	93	61	2042	-.101481	5.66
8.00	240	158	2139	-.117356	8.00
11.31	147	97	2139	-.122755	11.31
16.00	366	223	2265	-.136840	16.00
22.63	219	126			22.63
32.00					32.00

13 AUG 65 2250 CS:

Table 3 (Continued)

WINDY ACRES RUN NO. 5N

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	137	22	-50	----
	0.50	154	23	-47	305
	1.0	162	26	-36	306
	2.0	214	27	-10	267
	4.0	266	28	-9	285
	8.0	351	J1	12	304
	16.0	480	J1	-21	325
	32.0	685	38	-5	----
WIND DIRECTION (0.1 DEG)	2	1563	62	-9	327
	32	1650	27	-5	338
TEMPERATURE (0.01C)	2	1979	10	27	240

Z (M)	A-SPEED	A-THETA	THETA	R1	Z (M)
0.25	17	3	1944	.006515	0.25
0.35	45	15	1947	-.017198	0.35
0.50	28	12		-.025131	0.50
0.71	60	32	1959	-.041260	0.71
1.41	32	20		-.064102	1.41
2.00	64	49	1979	-.064422	2.00
2.83	52	29		-.070336	2.83
4.00	137	77	2006	-.078021	4.00
5.66	65	46		-.087025	5.66
8.00	214	121	2056	-.097734	8.00
11.31	129	73		-.114664	11.31
16.00	334	178	2129	-.117712	16.00
22.63	205	105		-.130236	22.63
32.00			2234		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5P

13 AUG 65 2305 CST

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	128	22	-9	----
	0.50	146	21	-24	272
	1.0	170	25	-15	266
	2.0	203	25	-3	330
	4.0	236	26	-19	255
	8.0	339	26	-13	313
	16.0	470	26	-1	306
32.0	697	27	60	----	
WIND DIRECTION (0.1 DEG)	2	1629	63	9	327
	32	1673	23	40	369
TEMPERATURE (0.01C)	2	1937	20	-29	184
Z(M)	U-SPEED	A-THETA	THETA	R1	Z(M)
0.25	18	3	1904	-007607	0.25
0.35	42	14	1907	-016450	0.35
0.50	24	11	1918	.031398	0.50
0.71	57	30	1918	.042021	0.71
1.00	33	19	1937	-.057341	1.00
1.41	66	48	1966	-.060292	1.41
2.00	53	29	1966	-.067806	2.00
2.63	136	79	2016	-.079257	2.63
4.00	83	50	2016	-.095205	4.00
5.66	214	122	2086	-.098680	5.66
8.00	131	72	2086	-.109337	8.00
11.31	356	194	2210	-.111783	11.31
16.00	227	122		-.123544	16.00
22.63					22.63
32.00					32.00

13 AUG 65 2320 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 50

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	114	18	-48	----
	0.50	130	19	-55	324
	1.0	151	21	-67	364
	2.0	164	23	-39	314
	4.0	236	23	-18	298
	8.0	322	26	-22	283
	16.0	437	34	73	255
32.0	568	68	15	159	
WIND DIRECTION (0.1 DEG)	2	1423	166	17	187
	32	1564	115	46	172
TEMPERATURE (0.01C)	2	1833	41	9	155

Z (M)	4-SPEED	4-TMETHA	TMETHA	R1	Z (M)
0.25	16	3	1804	.009658	0.25
0.50	37	11	1807	-.018746	0.35
0.71	21	6	1815	.029930	0.50
1.00	54	26	1833	-.041591	0.71
1.41	33	18	1865	-.054518	1.00
2.00	85	50	1922	-.064515	1.41
2.83	52	32	2007	-.077999	2.00
4.00	138	89	2120	-.087011	2.83
5.66	86	57		-.101430	4.00
8.00	201	142		-.130590	5.66
11.31	115	85		-.168759	8.00
16.00	266	198		-.207298	11.31
22.63	151	113		-.259364	16.00
32.00					22.63
					32.00

WINDY ACRES RUN NO. 5R  
 Table 3 (Continued)  
 13 AUG 65 2335 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	103	24	-29	---
	0.50	120	26	-25	280
	1.0	142	27	-33	256
	2.0	176	31	-33	272
	4.0	230	28	-38	278
	8.0	328	33	-11	212
	16.0	473	21	-14	184
	32.0	643	35	97	---
WIND DIRECTION (0.1 DEG)	2	1618	63	9	363
	32	1690	36	101	332
TEMPERATURE (0.01C)	2	1799	20	-72	227

Z (M)	A-SPEED	A-TMETA	TMETA	RI	Z (M)
0.25	17	1	1766	-002851	0.25
0.35	39	13	1767	-011964	0.35
0.50	22	12		-040958	0.50
0.71	56	32	1779	-047659	0.71
1.00	34	20		-057133	1.00
1.41	88	56	1799	-067489	1.41
2.00	54	36		-081457	2.00
2.83	152	109	1835	-087903	2.83
4.00	98	73		-100109	4.00
5.66	243	198	1908	-124867	5.66
8.00	145	125		-150061	8.00
11.31	315	224	2033	-167221	11.31
16.00	170	99		-179165	16.00
22.63			2132		22.63
32.00					32.00

13 AUG 68 2350 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 55

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	27	28	-50	154
	0.50	66	13	16	320
	1.0	86	14	43	397
	2.0	117	14	-12	243
	4.0	171	13	-26	316
	6.0	256	20	-19	238
	10.0	599	36	21	186
32.0	666	33	57	----	
WIND DIRECTION (0.1 DEG)	2	1476	85	16	196
	32	1719	11	36	311
TEMPERATURE (0.01C)	2	1698	34	-23	172

Z(M)	0-SPED	0-TMETA	TMETA	R1	Z(M)
0.25	39	5	1639	-.002727	0.25
0.50	59	24	1644	-.016174	0.50
0.71	20	19	1644	-.078786	0.71
1.00	51	54	1663	-.097336	1.00
1.41	31	35	1698	-.120719	1.41
2.00	85	61	1754	-.117933	2.00
2.83	54	56	1844	-.127104	2.83
4.0	139	146	1844	-.141175	4.00
5.66	85	90	1975	-.164466	5.66
6.00	226	221	2157	-.158296	6.00
11.31	143	131		-.168508	11.31
18.00	410	313		-.137969	18.00
22.63	267	162		-.133579	22.63
32.00					32.00

Table 3 (Continued)

WIND SPEED RUN NO. 51

14 AUG 65 0005 CST

	Z (MI)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	72	179
	0.50	45	7	-19	255
	1.0	83	10	-10	243
	2.0	97	10	-5	-----
	4.0	161	12	-7	236
	8.0	260	15	28	239
	16.0	378	17	19	253
32.0	632	20	3	-----	
WIND DIRECTION (0.1 DEG)	2	1475	66	-141	539
	37	1728	12	-125	559
TEMPERATURE (0.01C)	2	1637	6	32	161

Z (MI)	W-SPEED	W-TIME	W-TIME	W-TIME	W-TIME
0.25	42	6	1560	-003773	0.25
0.35	60	37	1588	-024170	0.35
0.50	16	29		-148634	0.50
0.71	52	59	1597	-119911	0.71
1.00	34	40		-114940	1.00
1.41	96	109	1637	-106470	1.41
2.00	84	69		-111700	2.00
4.00	163	193	1704	-135662	4.00
5.66	99	124		-167208	5.66
8.00	217	230	1630	-162133	8.00
11.31	118	104		-200436	11.31
16.00	372	287	1936	-193631	16.00
22.81	254	181		-146989	22.81
32.00			2117		32.00



14 AUG 65 0020 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 6A

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	72	153
	0.50	38	7	-31	305
	1.0	52	10	4	331
	2.0	67	10	14	275
	4.0	146	9	17	335
	8.0	235	11	-12	297
	32.0	358	16	-17	320
		630	17	-33	----
WIND DIRECTION (0.1 DEG)	2	1616	93	-18	150
	32	1767	12	8	270
TEMPERATURE (0.01C)	2	1696	7	-105	458

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	35	16	1562	-010663	0.25
0.35	49	49	1576	-047981	0.35
0.50	14	33		-279854	0.50
0.71	49	78	1611	-152579	0.71
1.00	35	45		-121954	1.00
1.41	94	67	1656	-118844	1.41
2.00	59	67		-127547	2.00
2.83	148	170	1723	-145134	2.83
4.00	89	103		-171824	4.00
5.66	212	200	1826	-165943	5.66
8.00	123	97		-168862	8.00
11.31	395	287	1923	-136457	11.31
16.00	272	190		-134588	16.00
22.63			2113		22.63
32.00					32.00

NINDY ACRES RUN NO. 68

Table 3 (Continued)

14 AUG 65 0035 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	13	108
	0.50	55	5	9	289
	1.0	79	6	14	308
	2.0	115	7	21	266
	4.0	174	7	-6	377
	8.0	258	8	10	317
	16.0	394	14	-13	335
	32.0	680	14	13	-----
WIND DIRECTION (0.1 DEG)	2	1598	36	31	280
	32	1768	13	-----	-----
TEMPERATURE (0.01C)	2	1634	24	23	159

Z(M)	A-SPEED	A-TIME	THETA	R1	Z(M)
0.25	52	21	1522	-.006467	0.25
0.35	76	61	1543	-.024857	0.35
0.50	24	40	1583	-.113552	0.50
0.71	60	91	1634	-.118332	0.71
1.00	36	51	1702	-.130756	1.00
2.00	95	119	187	-.123729	1.41
2.83	59	68	1905	-.129546	2.00
4.00	143	153	2122	-.140071	2.83
5.66	84	85		-.159349	4.00
8.00	220	203		-.156508	5.66
11.31	136	116		-.168183	8.00
16.00	422	335		-.139595	11.31
22.63	286	217		-.139048	16.00
32.00					22.63
					32.00

14 AUG 65 0050 CST

Table 3 (Continued)

MINDY ACRES RUN NO. 6C

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
	0.25	3	0	98	230
	0.50	59	6	-78	416
	1.00	81	6	3	354
	2.00	117	7	-38	338
	4.00	178	8	-15	273
	8.00	270	10	-6	286
	16.00	410	13	-33	451
	32.00	671	11	-22	-----
	2	1556	51	124	471
	32	1764	10	109	439
	2	1593	8	-35	271
Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	56	19	1480	.005053	0.25
0.35	78	59	1499	-.022859	0.35
0.50	22	40		-.13727	0.50
0.71	58	94	1539	-.131553	0.71
1.00	36	54		-.138650	1.00
1.41	97	132	1593	-.131809	1.41
2.00	61	78		-.139183	2.00
2.83	153	174	1671	-.138289	2.83
4.00	92	96		-.150161	4.00
5.66	232	213	1767	-.147795	5.66
8.00	140	117		-.157476	8.00
11.31	401	331	1884	-.152870	11.31
16.00	261	214		-.164780	16.00
22.63			2098		22.63
32.00					32.00

WIND SPEED (CM/SEC)

WIND DIRECTION (0-1 DEG)

TEMPERATURE (0-01C)

Table 3 (Continued)

WINDY ACRES RUN NO. 60		14 AUG 65 0105 CST					
	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS		
WIND SPEED (CM/SEC)							
	0.25	33	33	-59	197		
	0.50	70	21	-73	320		
	1.00	90	26	-110	412		
	2.00	126	28	-116	414		
	4.00	183	32	-87	336		
	8.00	268	41	-4	199		
	16.00	393	46	-15	222		
	32.00	629	66	26	270		
WIND DIRECTION (0.1 DEG)							
	2	1444	137	-66	235		
	32	1703	60	105	275		
TEMPERATURE (0.01C)							
	2	1545	26	18	150		
Z (M)							
	0.25						
	0.35						
	0.50						
	0.71						
	1.00						
	1.41						
	2.00						
	2.83						
	4.00						
	5.66						
	8.00						
	11.31						
	16.00						
	22.63						
	32.00						
	A-SPEED						
	37						
	57						
	20						
	56						
	36						
	93						
	57						
	142						
	85						
	210						
	125						
	361						
	236						
	A-THEIA						
	10						
	35						
	25						
	72						
	47						
	115						
	68						
	164						
	96						
	209						
	113						
	295						
	182						
	THETA						
	1463						
	1473						
	1498						
	1545						
	1613						
	1709						
	1822						
	2004						
	RI						
	-006097						
	-025421						
	-104277						
	-108238						
	-120864						
	-125146						
	-139224						
	-152696						
	-176264						
	-177365						
	-191180						
	-166570						
	-171871						
	Z (M)						
	0.25						
	0.35						
	0.50						
	0.71						
	1.00						
	1.41						
	2.00						
	2.83						
	4.00						
	5.66						
	8.00						
	11.31						
	16.00						
	22.63						
	32.00						

14 AUG 65 0120 CST

Table 3 (Continued)

WINBY ACRES RUN NO. 6E

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS	
WIND SPEED (CM/SEC)	0.25	77	14	-11	----	
	0.50	91	14	-19	259	
	1.0	111	16	-18	242	
	2.0	142	16	9	253	
	4.0	195	16	1	303	
	6.0	288	20	-33	348	
	16.0	414	31	49	302	
	32.0	622	43	38	211	
	WIND DIRECTION (0.1 DEG)	2	1312	118	5	185
		32	1659	34	-15	249
TEMPERATURE (0.01C)	2	1517	29	-62	194	

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	14	1	1474	.004244	0.25
0.35	34	15	1475	-.030621	0.35
0.50	20	14	1489	-.058407	0.50
0.71	51	42	1489	-.075189	0.71
1.00	31	28	1517	-.097188	1.00
1.41	64	78	1517	-.104159	1.41
2.00	53	50	1567	-.118562	2.00
2.83	146	145	1567	-.127885	2.83
4.00	93	95	1662	-.145944	4.00
5.66	219	247	1662	-.192890	5.66
8.00	126	152	1814	-.253317	8.00
11.31	334	331	1814	-.221147	11.31
16.00	334	331	1814	-.221147	16.00
22.63	208	179	1993	-.217684	22.63
32.00					32.00

Table 3 (Continued)

		14 AUG 65 0135 CST				
		Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
<b>WINDY ACRES RUN NO. 6F</b>						
<b>WIND SPEED (CM/SEC)</b>						
	0.25	54	19	126	458	
	0.50	72	12	-14	311	
	1.0	89	14	-26	287	
	2.0	122	15	-15	214	
	4.0	178	17	-2	264	
	8.0	284	20	14	248	
	16.0	462	22	61	368	
	32.0	686	18	30	----	
<b>WIND DIRECTION (0.1 DEG)</b>						
	2	1477	53	46	400	
	32	1696	8	52	561	
<b>TEMPERATURE (0.01C)</b>						
	2	1493	8	-16	228	
<b>WIND SPEED (CM/SEC)</b>						
Z(M)	0.25	18	-1	1445	RI	Z(M)
	0.50	35	15	1444		0.25
	0.71	17	16	1460		0.35
	1.00	50	49	1493		0.50
	1.41	33	33	1545		0.71
	2.00	89	85	1650		1.00
	2.83	56	52	1864		1.41
	4.00	162	157	2069		2.00
	5.66	106	105			2.83
	8.00	284	319			4.00
	11.31	178	214			5.66
	16.00	402	419			8.00
	22.83	224	205			11.31
	32.00					16.00
						22.83
						32.00

14 AUG 65 0150 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 66

	Z (M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	59	38	23	160
	0.50	87	25	-66	247
	1.0	106	27	-58	231
	2.0	142	31	-57	228
	4.0	199	36	-77	297
	8.0	301	42	-83	306
	16.0	475	51	-97	293
32.0	694	48	-93	207	
WIND DIRECTION (0.1 DEG)	2	1511	76	-57	306
	32	1686	21	-16	366
TEMPERATURE (0.01C)	2	1498	25	71	198

Z (M)	A-SPEED	A-TMETA	THETA	RI	Z (M)
0.25	28	1	1447	.001060	0.25
0.35	47	19	1448	.020314	0.35
0.50	19	18	1466	.083275	0.50
0.71	55	50	1466	.076026	0.71
1.00	38	32	1498	.082404	1.00
1.41	93	61	1547	.086308	1.41
2.00	57	49	1547	.100523	2.00
2.83	159	142	1640	.105672	2.83
4.00	102	93	1640	.118856	4.00
5.66	276	288	1635	.141579	5.66
8.00	174	195	2046	.170399	8.00
11.31	393	406		.195763	11.31
16.00	219	211		.231163	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WINDY ACRES RUN NO. 6M					
14 AUG 65 0205 CST					
WIND SPEED (CM/SEC)	0.25	41	35	-38	181
	0.50	72	21	-70	286
	1.0	91	23	-66	284
	2.0	118	28	-56	259
	4.0	166	33	-53	237
	8.0	243	35	-52	250
	16.0	381	34	-113	386
	32.0	626	31	7	-----
WIND DIRECTION (0.1 DEG)	2	1429	78	-9	172
	32	1686	31	62	252
TEMPERATURE (0.01C)	2	1518	12	44	181

Z (M)	A-SPEED	A-TMETH	THETA	RI	Z (M)
0.25	31	6	1485	-005210	0.25
0.35	50	24	1471	-022855	0.35
0.50	19	16	1489	-083210	0.50
0.71	46	47	1489	-104778	0.71
1.00	27	29	1518	-132667	1.00
1.41	75	71	1518	-118949	1.41
2.00	48	42	1560	-121435	2.00
2.83	125	115	1560	-138450	2.83
4.00	77	73	1633	-163704	4.00
5.66	215	207	1633	-167905	5.66
8.00	133	134	1767	-186420	8.00
11.31	383	319	1767	-182285	11.31
16.00	245	185	1952	-162401	16.00
22.63					22.63
32.00					32.00



Table 3 (Continued)

WINDY ACRES RUN NO. 6J		14 AUG 65 0220 CST					
	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS		
<b>WIND SPEED (CM/SEC)</b>							
	0.25	22	25	-70	163		
	0.90	67	9	9	297		
	1.0	92	11	10	288		
	2.0	129	12	42	261		
	4.0	191	9	26	268		
	8.0	255	15	-16	232		
	16.0	356	23	-44	286		
	32.0	601	20	10	279		
<b>WIND DIRECTION (0.1 DEG)</b>							
	2	1390	76	48	200		
	32	1699	22	43	288		
<b>TEMPERATURE (0.01C)</b>							
	2	1471	23	32	200		
Z(M)	U-SPEED	U-TANG	THETA	RI	Z(M)		
0.25	45	9	1382	-003718	0.25		
0.90	70	37	1391	-017868	0.35		
0.71	25	28		-074956	0.50		
1.00	62	80	1419	-098377	0.71		
1.41	37	52		-126928	1.00		
2.00	90	145	1471	-139539	1.41		
2.83	62	93		-161272	2.00		
4.00	126	191	1564	-226317	2.83		
5.00	64	98		-317919	4.00		
6.00	167	184	1662	-247462	5.00		
11.31	103	86		-216751	6.00		
16.00	349	237	1748	-147842	11.31		
22.63	243	191		-134921	16.00		
32.00			1899		22.63		
					32.00		

14 AUG 65 0235 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 64

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	56	15	---	768
	0.50	73	7	-32	296
	1.0	96	6	-23	303
	2.0	133	9	-11	333
	4.0	197	9	15	285
	8.0	264	9	-12	314
WIND DIRECTION (0.1 DEG)	16.0	348	14	-34	306
	32.0	577	21	16	---
TEMPERATURE (0.01C)	2	1292	35	-15	305
	32	1678	16	2	286
	2	1423	7	-120	454

Z(M)	W-SPEED	W-META	W-META	R1	Z(M)
0.25	17	7	1347	.020301	0.25
0.35	40	30	1354	-.044428	0.35
0.50	23	23	1377	-.072845	0.50
0.71	60	60	1423	-.090739	0.71
1.00	37	46	1522	-.112450	1.00
2.00	101	145	1639	-.134284	1.41
4.00	64	99	1711	-.161365	2.00
8.00	131	216	1809	-.237023	2.83
16.00	191	189	1869	-.366704	4.00
32.00	313	230	1711	-.311326	5.86
	720	156	1809	-.270412	8.00
				-.175489	11.31
				-.159146	16.00
					22.63
					32.00

14 AUG 65 0250 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 6L

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	54	20	----	465
	0.50	77	9	-46	263
	1.0	97	14	41	325
	2.0	123	13	6	----
	4.0	178	14	38	221
	8.0	248	15	-15	202
	16.0	332	13	66	361
32.0	511	29	-1	----	
WIND DIRECTION (0.1 DEG)	2	1095	54	-29	292
	32	1630	29	13	----
TEMPERATURE (0.01C)	2	1393	8	37	239
Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	21	-8	1345	-.015208	0.25
0.35	40	17	1337	-0.025185	0.35
0.50	19	25		-116094	0.50
0.71	48	56	1362	-115169	0.71
1.00	29	31		-123466	1.00
1.41	64	122	1393	-163484	1.41
2.00	55	91		-201060	2.00
2.63	125	195	1484	-235384	2.63
4.00	70	104		-282774	4.00
5.66	154	205	1568	-324970	5.66
8.00	64	101		-360065	8.00
11.31	263	241	1669	-260842	11.31
16.00	179	240		-231052	16.00
22.63			1829		22.63
32.00					32.00

Table 3 (Continued)

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)					
	0.25	7	15	-353	----
	0.50	47	16	-56	260
	1.0	66	20	-47	215
	2.0	103	19	-65	241
	4.0	171	24	-39	189
	6.0	263	33	-26	164
	16.0	315	36	12	192
	32.0	315	38	18	130
WIND DIRECTION (0.1 DEG)					
	2	1386	138	75	233
	32	1701	17	12	221
TEMPERATURE (0.01C)					
	2	1416	11	-14	151

Z (M)	A-SPEED	A-THETA	THETA	R1	Z (M)
0.25	40	J	1334	-001572	0.25
0.35	59	34	1317	-023152	0.35
0.50	19	31	1368	-143946	0.50
0.71	56	79	1368	-119307	0.71
1.00	37	48	1416	-117381	1.00
2.00	105	130	1416	-111448	1.41
2.83	68	62	1498	-118461	2.00
4.00	160	160	1596	-132551	2.83
5.66	92	98	1596	-154203	4.00
6.00	217	208	1706	-165972	5.66
11.31	125	110	1706	-166841	6.00
16.00	346	290	1866	-181113	11.31
22.63	221	160	1866	-194620	16.00
32.00					22.63
					32.00

14 AUG 65 0320 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 6N

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	69	17	86	414
	0.50	85	16	24	238
	1.00	106	17	-11	257
	2.00	142	20	2	219
	4.00	206	24	-10	205
	8.00	311	28	7	203
WIND DIRECTION (0.1 DEG)	16.00	435	31	-37	246
	32.00	652	26	20	---
TEMPERATURE (0.01C)	2	1443	43	1	264
	32	1702	16	-15	275
	2	1378	14	-37	202

Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	16	0	1321	-000000	0.25
0.35	37	19	1321	-032921	0.35
0.50	21	19	1340	-072269	0.50
0.71	57	57	1340	-083174	0.71
1.00	36	36	1378	-098276	1.00
1.41	100	103	1443	-097502	1.41
2.00	84	85	1570	-106182	2.00
2.83	169	192	1690	-126865	2.83
4.00	105	127	1855	-153621	4.00
5.66	229	247	1955	-177166	5.66
8.00	124	120	207274	-207274	8.00
11.31	341	285	1690	-183432	11.31
16.00	217	185	1855	-185195	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6P 14 AUG 65 0335 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
<b>WIND SPEED (CM/SEC)</b>					
	0.25	3	0	56	706
	0.50	58	6	-15	320
	1.00	79	6	6	287
	2.00	115	10	-6	---
	4.00	178	12	-57	261
	8.00	262	14	-50	298
	16.00	379	20	-30	297
	32.00	619	16	26	---
<b>WIND DIRECTION (0.1 DEG)</b>					
	2	1452	52	-65	240
	32	1739	20	51	307
<b>TEMPERATURE (0.01C)</b>					
	2	1331	12	21	233

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	55	6	1254	-.002223	0.25
0.35	76	35	1262	-.018403	0.35
0.50	21	27		-.102899	0.50
0.71	57	69	1289	.100864	0.71
1.00	36	42		.108805	1.00
1.41	99	122	1331	.117996	1.41
2.00	63	80		.135050	2.00
2.83	147	193	1411	.168825	2.83
4.00	84	113		.213869	4.00
5.66	201	225	1524	.209814	5.66
8.00	117	112		.217676	8.00
11.31	357	275	1636	.161776	11.31
16.00	240	163		.149848	16.00
22.63			1799		22.63
32.00					32.00

14 AUG 68 0350 CST

Table 3 (Continued)

MINBY ACRES RUN NO. 60

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	4	----
	0.50	61	10	-30	301
	1.0	63	12	1	217
	2.0	120	13	33	267
	4.0	164	15	7	282
	8.0	264	16	37	322
	16.0	426	22	3	252
	32.0	653	25	-2	----
WIND DIRECTION (0.1 DEG)	2	1575	105	20	244
	32	1612	35	10	135
TEMPERATURE (0.01C)	2	1295	6	16	209

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	58	4	1216	-.001000	0.25
0.35	60	32	1220	-.011901	0.35
0.50	22	26	1246	-.097373	0.50
0.71	59	75	1246	.102466	0.71
1.00	37	47	1295	.115420	1.00
1.41	101	125	1295	.116315	1.41
2.00	64	76	1373	.127756	2.00
2.83	164	195	1373	.137210	2.83
4.00	100	117	1490	.156442	4.00
5.66	242	229	1490	.147497	5.66
8.00	142	112	1602	.147951	8.00
11.31	369	274	1602	.151055	11.31
16.00	227	162	1764	.151055	16.00
22.63				.166674	22.63
32.00					32.00

14 AUG 85 0405 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 6R

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	15	24	-172	450
	0.50	61	15	-111	420
	1.0	82	19	-158	630
	2.0	118	22	-125	436
	4.0	171	28	-95	369
	8.0	230	36	-108	381
	16.0	416	44	-122	362
32.0	690	73	-97	254	
WIND DIRECTION (0.1 DEG)	2	1949	133	4	218
	32	1913	26	25	229
TEMPERATURE (0.01C)	2	1284	19	43	160

Z(M)	A-SPEED	A-TMETHA	TMETHA	R1	Z(M)
0.25	46	2	1219	-000795	0.25
0.35	67	25	1221	-013256	0.35
0.50	21	23	1244	-087768	0.50
0.71	57	63	1244	-092239	0.71
1.00	36	40	1284	-103792	1.00
1.41	89	94	1338	-112737	1.41
2.00	53	54	1338	-129079	2.00
2.83	142	134	1418	-125979	2.83
4.00	89	80	1535	-135307	4.00
5.66	245	197	1730	-124033	5.66
8.00	156	117	1535	-126367	8.00
11.31	430	312	1730	-129877	11.31
16.00	274	195	1730	-137933	16.00
22.63					22.63
32.00					32.00



Table 3 (Continued)

WINDY ACRES RUN NO. 65

14 AUG 65 0420 CST

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	137	32	-53	169
	0.50	158	32	-35	276
	1.0	191	36	-28	282
	2.0	231	38	-20	270
	4.0	284	40	-31	329
	8.0	363	39	-15	245
	32.0	546	38	-12	311
		846	40	13	225
WIND DIRECTION (0.1 DEG)	2	1923	76	-26	287
	32	1976	29	-37	104
TEMPERATURE (0.01C)	2	1390	64	-43	173

Z (M)	A-SPEED	A-TMETHA	TMETHA	RI	Z (M)
0.25	21	1	1360	.001695	0.25
0.35	54	14	1361	.011375	0.35
0.50	33	13	1374	.019997	0.50
0.71	73	29	1390	.025778	0.71
1.00	40	16	1421	.033491	1.00
1.41	93	47	1486	.051441	1.41
2.00	53	31	1597	.073861	2.00
2.83	152	96	1809	.078542	2.83
4.00	99	65		.085618	4.00
5.66	262	176		.096662	5.66
8.00	163	111		.111299	8.00
11.31	463	323		.113002	11.31
16.00	300	212		.124783	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6T

14 AUG 65 0435 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	127	24	-49	----
	0.50	146	25	-43	330
	1.0	178	31	-23	301
	2.0	214	32	-30	298
	4.0	267	34	-4	320
	8.0	352	31	-37	327
	16.0	497	34	-25	273
32.0	735	40	-14	----	
WIND DIRECTION (D.I. DEG)	2	2021	74	9	284
	32	2059	22	10	278
TEMPERATURE (O.OIC)	2	1463	7	-88	304

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25	21	4	1452	-007572	0.25
0.35	51	15	1456	-013618	0.35
0.50	30	11	1467	-020407	0.50
0.71	66	27	1467	-029266	0.71
1.00	36	16	1463	-041214	1.00
1.41	89	40	1463	-047657	1.41
2.00	53	24	1507	-057005	2.00
2.63	138	72	1555	-071271	2.63
4.00	65	48	1555	-086537	4.00
5.60	220	130	1637	-101058	5.60
8.00	135	82	1637	-119645	8.00
11.31	383	234	1789	-119577	11.31
16.00	248	152		-130889	16.00
22.63					22.63
32.00					32.00

14 AUG 65 0450 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 6U

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
	0.25	109	21	-35	----
	0.50	127	21	-25	265
	1.0	154	27	-11	285
	2.0	189	25	-6	283
	4.0	242	25	13	257
	6.0	329	25	7	308
	16.0	465	20	-1	313
	32.0	665	29	-9	----
WIND DIRECTION (0.1 DEG)	2	1913	69	-14	208
	32	2007	22	-28	----
TEMPERATURE (0.01C)	2	1444	17	51	227

Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	16	3	1414	-007740	0.25
0.35	45	13	1417	-015180	0.35
0.50	27	10	1427	-022938	0.50
0.71	62	27	1427	-033208	0.71
1.00	35	17	1444	-046390	1.00
1.41	86	48	1475	-058566	1.41
2.00	53	31	1475	-073722	2.00
2.83	140	88	1532	-084724	2.83
4.00	87	57	1621	-100454	4.00
5.64	223	146	1763	-110548	5.64
6.00	136	89		-126041	6.00
11.31	356	231		-136745	11.31
16.00	20	142		-155500	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

14 AUG 65 0505 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)					
	0.25	106	22	-51	---
	0.50	124	23	-50	305
	1.0	146	28	-59	313
	2.0	184	27	-44	328
	4.0	239	28	-33	333
	8.0	328	23	4	228
	16.0	474	22	-26	313
	32.0	716	39	-8	---
WIND DIRECTION (0.1 DEG)					
	2	1625	96	7	221
	32	2023	48	63	240
TEMPERATURE (0.01C)					
	2	1412	15	-72	350

Z(M)	W-SPEED	4-TIME	THETA	R1	Z(M)
0.25	16	3	1380	-.007751	0.25
0.50	40	14	1303	-.020717	0.35
0.71	22	11		-.038045	0.50
1.00	60	29	1394	-.038131	0.71
1.41	38	16		-.041716	1.00
2.00	93	51	1412	-.05468-	1.41
2.83	55	32		-.070717	2.00
4.00	144	94	1444	-.085626	2.83
5.66	89	62		-.104513	4.00
8.00	235	165	1506	-.112576	5.66
11.31	146	103		-.128659	8.00
16.00	388	245	1609	-.148947	11.31
22.63	242	142		-.173669	16.00
32.00			1801		22.63
					32.00

14 AUG 65 0520 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 68

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	105	19	-43	----
	0.50	124	20	-38	289
	1.0	145	24	-28	269
	2.0	182	26	-28	312
	4.0	236	26	-1	296
	8.0	330	25	24	292
	16.0	478	18	-17	335
32.0	701	18	46	----	
WIND DIRECTION (0.1 DEG)	2	1850	67	10	311
	32	1981	36	16	206
TEMPERATURE (0.01C)	2	1378	6	97	396

Z(M)	W-SPEED	W-META	W-META	R1	Z(M)
0.25	19	1	1351	-.002315	0.25
0.50	40	11	1352	-.016293	0.50
0.71	21	10	1362	-.037998	0.71
1.00	58	26	1378	-.036626	1.00
1.41	37	16		-.039159	1.41
2.00	91	48		-.054893	2.00
2.83	54	32		-.073474	2.83
4.00	148	96	1410	-.082860	4.00
5.66	94	64		-.096823	5.66
8.00	242	171	1474	-.110134	8.00
11.31	148	107		-.130202	11.31
16.00	371	306	1561	-.167945	16.00
22.63	223	201		-.214260	22.63
32.00			1782		32.00

Table 3 (Continued)

WINDY ACROSS RUN NO. 01

14 AUG 65 0535 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	138	27	-20	----
	0.50	160	30	-21	299
	1.0	188	33	-10	243
	2.0	225	32	-14	250
	4.0	279	32	-18	261
	8.0	373	29	5	263
	16.0	536	27	88	329
32.0	737	20	95	----	
WIND DIRECTION (0.1 DEG)	2	1810	58	6	311
	32	1985	19	-40	----
TEMPERATURE (0.1 DEG)	2	1303	16	-22	185

Z(M)	W-SPEED	A-T-META	T-META	R1	Z(M)
0.25	22	1	1361	-.001726	0.25
0.50	50	9	1362	-.008527	0.50
0.71	28	8		-.017094	0.71
1.00	85	21	1370	-.023548	1.00
1.41	37	13		-.031808	1.41
2.00	91	40	1383	-.045738	2.00
2.83	54	27		-.061989	2.83
4.00	140	85	1415	-.073387	4.00
5.98	94	58		-.087755	5.98
8.00	257	179	1468	-.102204	8.00
11.31	163	121		-.121378	11.31
16.00	384	350	1589	-.198123	16.00
22.83	201	229		-.300251	22.83
32.00			1616		32.00

14 AUG 65 0550 CST

Table 3 (Continued)

HINDY ACRES RUN NO.

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	143	29	-26	219
	0.50	165	31	-16	281
	1.0	194	33	-29	271
	2.0	231	35	-17	294
	4.0	267	33	-17	288
	8.0	380	33	-11	365
WIND DIRECTION (0.1 DEG)	16.0	544	22	-4	292
	32.0	763	22	-63	-----
TEMPERATURE (0.01C)	2	1831	64	17	321
	32	1991	26	50	-----
	2	1383	6	9	207

Z(M)	A-SPEED	A-THETA	THETA	R1	Z(M)
0.25	22	0	1366	.000000	0.25
0.35	51	7	1366	.006373	0.35
0.50	29	7	1373	.013943	0.50
0.71	66	17	1363	.018487	0.71
1.00	37	10	1405	.024467	1.00
1.41	93	32	1453	.035036	1.41
2.00	56	22	1564	.048970	2.00
2.83	149	70	1615	.059647	2.83
4.00	93	48	1615	.074223	4.00
5.66	257	159	1453	.096839	5.66
8.00	164	111	1564	.116071	8.00
11.31	383	362	1564	.151138	11.31
16.00	219	251	1615	.185138	16.00
22.63				.277343	22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 62		14 AUG 65 0605 CST						
	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS			
<b>WIND SPEED (CM/SEC)</b>								
	0.25	138	32	-43	231			
	0.50	160	34	-46	317			
	1.00	190	39	-13	266			
	2.00	225	40	-28	278			
	4.00	271	42	-25	258			
	8.00	354	46	6	282			
	16.00	490	55	7	215			
	32.00	733	57	-7	122			
<b>WIND DIRECTION (0.1 DEG)</b>								
	2	1823	75	19	330			
	32	1925	27	29	213			
<b>TEMPERATURE (0.01C)</b>								
	2	1402	8	-73	341			

Z (M)	Δ-SPEED	Δ-THETA	THETA	R1	Z (M)
0.25	22	1	1384	.001726	0.25
0.50	52	9	1385	-.007878	0.35
0.71	30	8		-.014878	0.50
1.00	65	17	1393	-.019049	0.71
1.41	35	9		-.024591	1.00
2.00	81	27	1402	-.038946	1.41
2.83	46	16		-.056922	2.00
4.00	129	54	1420	-.061367	2.83
5.66	63	36		-.069868	4.00
8.00	219	109	1456	-.063805	5.66
11.31	136	73		-.105332	8.00
16.00	379	294	1529	-.153756	11.31
22.63	243	221		-.198695	16.00
32.00			1750		22.63
					32.00



Table 3 (Continued)

WINDY ACRES RUN NO. 6AA		14 AUG 65 0620 CST				
	Z (M)	MEAN	SIGMA	SKENNESS	KURTOSIS	
WIND SPEED (CM/SEC)	0.25	115	24	-34	----	
	0.50	134	25	-31	301	
	1.0	157	29	-37	328	
	2.0	188	31	-77	393	
	4.0	229	33	-30	287	
	8.0	308	34	-3	246	
	16.0	438	35	-7	238	
	32.0	686	36	16	----	
WIND DIRECTION (0.1 DEG)	2	1794	72	29	305	
	32	1902	16	-12	275	
TEMPERATURE (0.01C)	2	1406	19	89	285	

Z (M)	4-SPEED	4-THETA	T-THETA	R1	Z (M)
0.25	19	1	1387	.002315	0.25
0.35	42	9	1388	.012077	0.35
0.50	23	8	1396	.025312	0.50
0.71	54	18	1406	.029219	0.71
1.00	31	10	1424	.034826	1.00
1.41	31	10	1459	.051111	1.41
2.00	72	28	1710	.071843	2.00
2.83	41	18		.071843	2.83
4.00	120	53		.069596	4.00
5.66	79	35		.074972	5.66
8.00	209	101		.087301	8.00
11.31	130	66		.104228	11.31
16.00	378	251		.132070	16.00
22.63	248	185		.159822	22.63
32.00					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 698

14 AUG 65 0635 CST

	Z(M)	MEAN	SIGMA	SKENNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	117	23	-29	----
	0.50	135	24	-27	292
	1.0	159	27	-50	316
	2.0	187	31	-22	269
	4.0	230	30	-31	275
	8.0	298	31	0	277
	16.0	428	28	-13	309
32.0	676	27	27	----	
WIND DIRECTION (0.1 DEG)	2	1854	64	15	323
	32	1943	23	36	323
TEMPERATURE (0.01C)	2	.1460	23	15	133
Z(M)	A-SPEED	A-TMETHA	TMETHA	RI	Z(M)
0.25	16	0	1470	-.000000	0.25
0.35	42	6	1470	-.008029	0.35
0.50	24	6	1470	-.017388	0.50
0.71	52	10	1476	-.017459	0.71
1.00	28	4	1460	-.017029	1.00
2.00	71	15	1460	-.028066	1.41
2.83	43	11	1491	-.039706	2.00
4.00	111	39	1491	-.059717	2.83
5.66	68	26	1519	-.080774	4.00
8.00	198	91	1519	-.087455	5.66
11.31	130	63	1562	-.092889	8.00
16.00	378	245	1562	-.128662	11.31
22.63	248	182	1764	-.156930	16.00
32.00					22.63
					32.00

14 AUG 65 0650 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 6CC

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	138	30	-41	258
	0.50	161	32	-40	320
	1.0	182	36	-25	271
	2.0	211	37	-19	277
	4.0	247	37	-23	243
	8.0	311	41	-22	284
	16.0	423	35	8	308
	32.0	650	27	23	-----
WIND DIRECTION (0.1 DEG)	2	1840	76	14	313
	32	1931	25	56	322
TEMPERATURE (0.01C)	2	1559	29	22	195

Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	23	-3	1561	-.004716	0.25
0.35	44	-1	1556	-.001214	0.35
0.50	21	2	1560	-.007546	0.50
0.71	50	1	1559	-.001681	0.71
1.00	29	-1	1561	-.003956	1.00
1.41	65	1	1575	-.002227	1.41
2.00	36	2	1561	-.010271	2.00
2.63	100	16	1575	-.030117	2.63
4.00	64	14	1613	-.045494	4.00
5.66	176	52	1757	-.063147	5.66
8.00	112	38	1613	-.080568	8.00
11.31	339	162	1757	-.118762	11.31
16.00	227	144		-.148150	16.00
22.63					22.63
32.00					32.00

Table 3 (Continued)

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)					
	0.25	176	39	-25	284
	0.50	200	44	-23	297
	1.0	228	46	-37	262
	2.0	256	48	-38	289
	4.0	289	47	-33	330
	8.0	332	46	-8	242
	16.0	408	47	15	282
	32.0	573	51	53	232
WIND DIRECTION (0.1 DEG)					
	2	1803	73	9	326
	32	1886	45	-7	266
TEMPERATURE (0.01C)					
	2	1687	38	-3	189

Z (M)	A-SPEED	A-TMETHA	TMETHA	RI	Z (M)
0.25	24	-5	1697	-.007186	0.25
0.35	52	-5	1692	-.004330	0.35
0.50	28	0	1692	.000000	0.50
0.71	56	-5	1692	-.007471	0.71
1.00	28	-5	1667	-.021130	1.00
1.41	61	-9	1667	-.022670	1.41
2.00	33	-4	1663	-.024344	2.00
2.83	76	-4	1663	-.012983	2.83
4.00	43	0	1673	.000000	4.00
5.86	119	10	1673	.026474	5.86
8.00	176	10	1693	-.075898	8.00
11.31	241	67	1693	-.086394	11.31
16.00	165	57	1750	.110873	16.00
22.63					22.63
32.00					32.00

14 AUG 65 0720 CST

Table 3 (Continued)

WINDY ACRES RUN NO. 05E

	Z (M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	214	46	-14	296
	0.50	250	48	-12	308
	1.0	279	55	-4	267
	2.0	317	58	2	291
	4.0	352	61	-10	310
	8.0	392	61	-5	259
	16.0	450	54	-10	281
	32.0	546	46	16	224
WIND DIRECTION (0.1 DEG)	2	1768	83	14	284
	32	1836	46	-18	286
TEMPERATURE (0.01C)	2	1793	26	41	183

Z (M)	A-SPEED	A-TMETHA	T-META	RI	Z (M)
0.25	26	-8	1813	-.009759	0.25
0.35	65	-9	1805	-.004970	0.35
0.50	39	-1		-.001063	0.50
0.71	77	-12	1804	-.009449	0.71
1.00	38	-11		-.025146	1.00
1.41	73	-20	1793	-.035052	1.41
2.00	35	-9		-.048526	2.00
2.83	75	-17	1784	-.056472	2.83
4.00	40	-8		-.066069	4.00
5.66	98	-14	1776	-.054489	5.66
8.00	58	-6		-.047147	8.00
11.31	154	8	1770	-.025213	11.31
16.00	96	14		-.080299	16.00
22.63			1784		22.63
32.00					32.00

Table 3 (Continued)

14 AUG 65 0735 CST

WINDY ACRES RUN NO. 6FF

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	225	46	-24	251
	0.50	257	50	-34	265
	1.0	307	58	-6	243
	2.0	348	63	-5	261
	4.0	378	64	-6	275
	8.0	418	66	-5	268
	16.0	459	60	-28	282
	32.0	541	60	-5	252
WIND DIRECTION (0.1 DEG)	2	1877	93	0	310
	32	1926	99	-25	246
TEMPERATURE (0.01C)	2	1895	32	-7	168

Z(M)	A-SPEED	A-TMETHA	TMETHA	MI	Z(M)
0.25	32	-9	1924	-.007221	0.25
0.35	82	-12	1915	-.004148	0.35
0.50	50	-3	1912	-.001971	0.50
1.00	91	-20	1895	-.011235	0.71
1.41	41	-17	1884	-.033266	1.00
2.00	71	-28	1874	-.051692	1.41
2.83	30	-11	1863	-.080446	2.00
4.00	70	-21	1861	-.079806	2.83
5.66	40	-10	1874	-.082307	4.00
8.00	81	-21	1863	-.119252	5.66
11.31	41	-11	1863	-.172416	8.00
16.00	123	-13	1861	-.064040	11.31
22.83	62	-2	1861	-.015676	16.00
32.00					22.83
					32.00

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Table 3 (Continued)

WINBY ACRES RUN NO. 666

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	241	50	-7	263
	0.50	274	53	14	266
	1.0	321	62	9	258
	2.0	370	67	11	261
	4.0	411	66	39	301
	8.0	445	66	5	269
	16.0	473	63	32	284
32.0	508	63	-2	285	
WIND DIRECTION (0.1 DEG)	2	1993	97	-7	208
	32	2040	79	-17	273
TEMPERATURE (0.01C)	2	2011	30	-13	155

Z(M)	4-SPEED	4-TMETA	TMETA	K1	Z(M)
0.25	33	-12	2049	-0.09017	0.25
0.50	60	-18	2037	-0.06510	0.50
0.71	47	-6		-0.04447	0.71
1.00	96	-26	2031	-0.13071	1.00
1.41	49	-20		-0.27291	1.41
2.00	90	-35	2011	-0.40056	2.00
2.83	41	-15		-0.56507	2.83
4.00	75	-26	1996	-0.65741	4.00
5.66	34	-11		-1.24837	5.66
8.00	62	-21	1985	-2.02762	8.00
11.31	28	-10		-3.34796	11.31
16.00	63	-15	1975	-2.80607	16.00
22.63	35	-5		-2.14320	22.63
32.00			1970		32.00

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Table 3 (Continued)

WINDY ACRES RUN NO. 6MM

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	233	52	-44	325
	0.50	265	56	-38	304
	1.0	309	64	-33	281
	2.0	351	69	-26	286
	4.0	389	72	-15	272
	8.0	424	69	-24	277
WIND DIRECTION (0-1 DEG)	16.0	465	70	-16	290
	32.0	500	75	-20	226
TEMPERATURE (0-1C)	2	2022	97	16	322
	32	2043	70	36	418
TEMPERATURE (0-01C)	2	2105	55	-724	----

Z(M)	A-SPEED	A-TMETA	TMETA	RI	Z(M)
0.25	32	-13	2156	--010353	0.25
0.50	76	-28	2143	--011164	0.50
0.71	44	-15		--012642	0.71
1.00	86	-36	2128	--023725	1.00
1.41	42	-23		--042561	1.41
2.00	60	-41	2105	--059200	2.00
2.83	36	-16		--061473	2.83
3.86	73	-33	2087	--114520	4.00
5.00	35	-15		--160159	5.00
6.00	76	-34	2072	--217858	6.00
11.31	41	-19		--265847	11.31
16.00	78	-31	2053.	--397449	16.00
22.63	35	-12		--513073	22.63
32.00			2041		32.00



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Table 3 (Continued)

WINDY ACRES RUN NO. 0JJ

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	232	57	-31	232
	0.50	287	64	-28	284
	1.0	335	73	-19	283
	2.0	388	81	2	293
	4.0	428	81	-1	299
	8.0	460	84	-22	302
	16.0	485	77	-27	266
32.0	534	79	-17	274	
WIND DIRECTION (0.1 DEG)	3	2075	103	30	287
	32	2094	75	-7	271
TEMPERATURE (0.01C)	2	2176	21	58	248
Z(M)	W-SPEED	W-TMETH	TMETH	RI	Z(M)
0.25	35	-15	2240	-0.00955	0.25
0.50	63	-40	2225	-0.013362	0.50
0.71	48	-25		-0.017659	0.71
1.00	101	-49	2200	-0.022124	1.00
1.41	53	-24		-0.027834	1.41
2.00	93	-47	2176	-0.050100	2.00
2.83	40	-23		-0.093740	2.83
4.00	72	-37	2153	-0.131686	4.00
5.66	32	-14		-0.170417	5.66
8.00	57	-32	2139	-0.363668	8.00
11.31	25	-16		-0.752098	11.31
16.00	74	-33	2121	-0.445273	16.00
22.83	49	-17		-0.326478	22.83
32.00			2106		32.00

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13. ABSTRACT <b>During an experimental program conducted in 1965 by the Boundary Layer Branch at AFCLR, data were collected in three continuous operations, each lasting approximately 12 hours. The data consist primarily of vertical profiles of wind, temperature and Richardson numbers in 15-min blocks covering periods from early evening to early morning.</b>		

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