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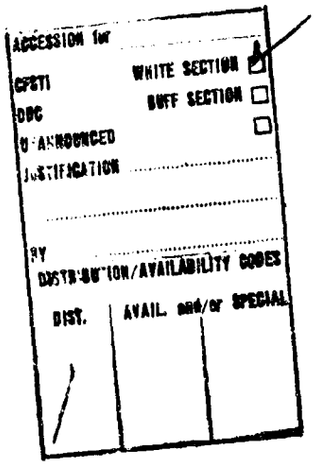
AIR FORCE CAMBRIDGE RESEARCH LABORATORIES
L. G. HANSCOM FIELD, BEDFORD, MASSACHUSETTS

Wind and Temperature Profiles from Project Windy Acres

BOUNDARY LAYER BRANCH

OFFICE OF AEROSPACE RESEARCH
United States Air Force



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METEOROLOGY LABORATORY PROJECT 7655

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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.	Izumi, 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.

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

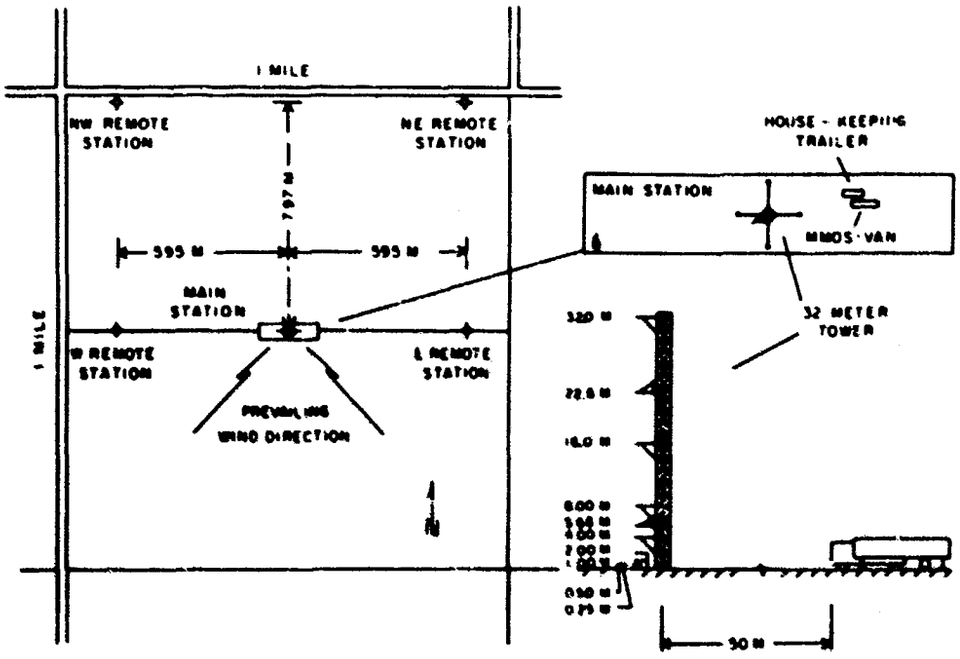

Figure 1. Plot Plan of the Experiment Site

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 ± 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

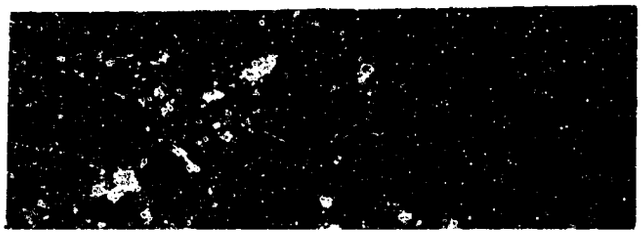

Figure 2. View from Main Tower Facing South, Showing Wheat Stubble to a Distance of 0.5 Mile

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

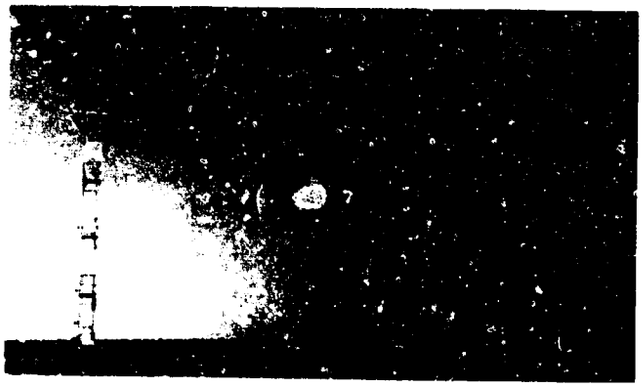

Figure 4. The Main Station with its 32-m Tower, Housekeeping Trailer and MMOS Van

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 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 ± 5 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-encapsuled 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 ± 0.01 C for temperature difference and ± 0.05 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 ± 3 percent of the observed temperature difference. In the temperature measurement, it is less than ± 0.3 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 cm sec^{-1} for wind speed, 0.36 deg for wind direction, 0.01 C for temperature difference and 0.05 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.

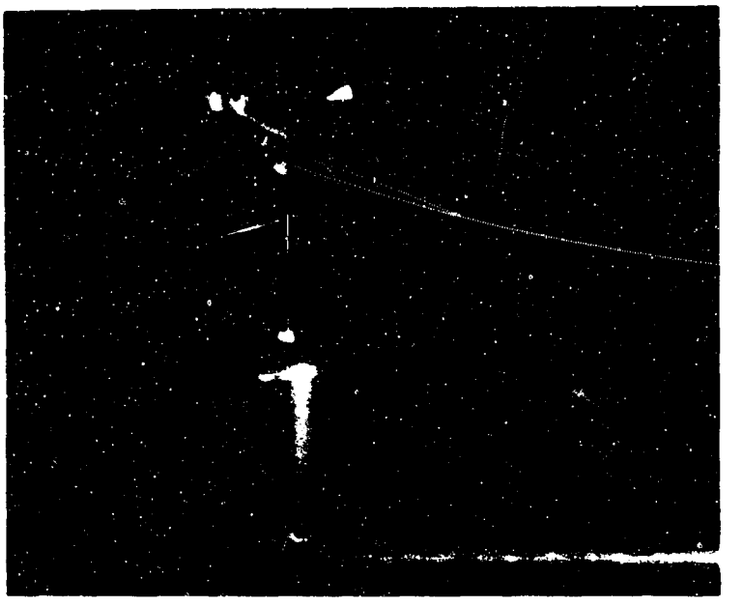

Figure 5. Wind Speed and Direction Sensor

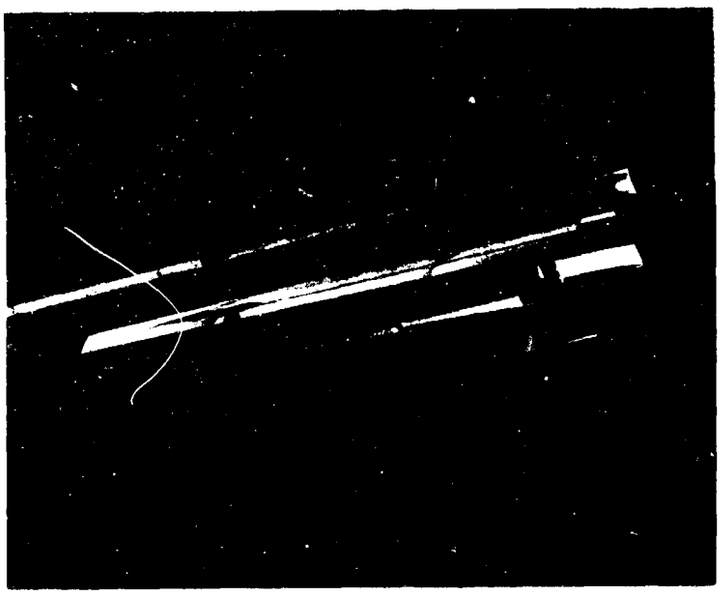

Figure 6. Temperature Sensor in Aspirated Shield

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

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

where Γ is the adiabatic lapse rate and ΔZ 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

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

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	0.707
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.

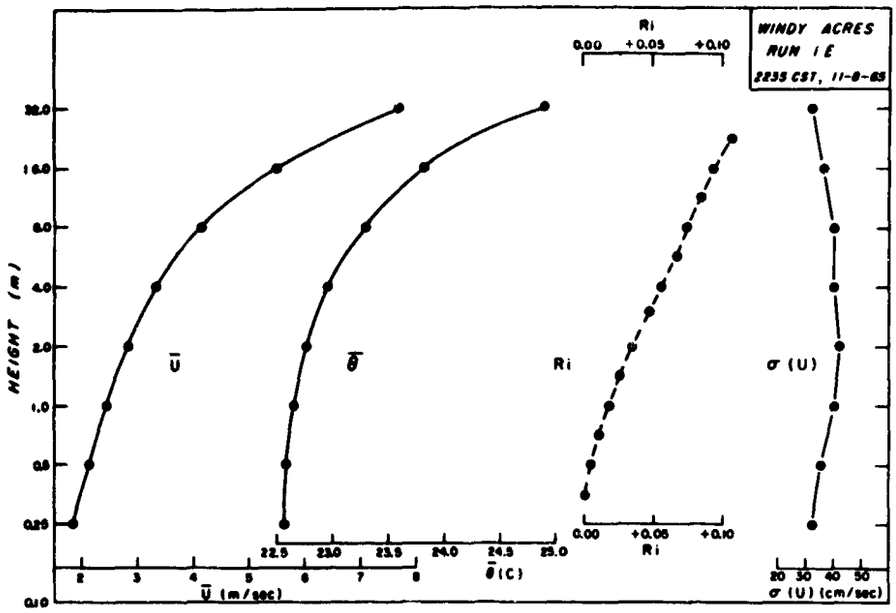

Figure 8. Typical Profiles for Stable Lapse Rate

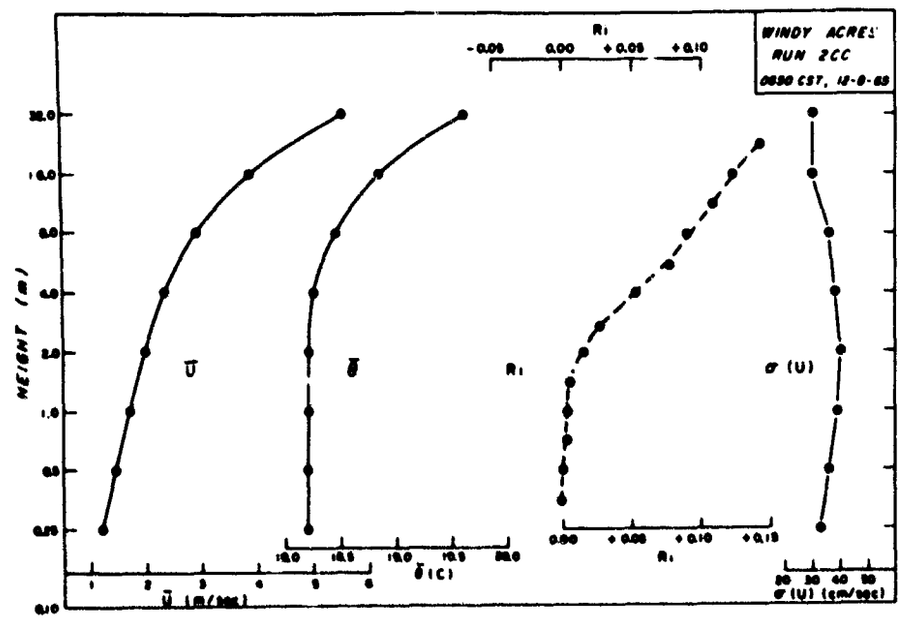

Figure 9. Typical Profile for Neutral Lapse Rate

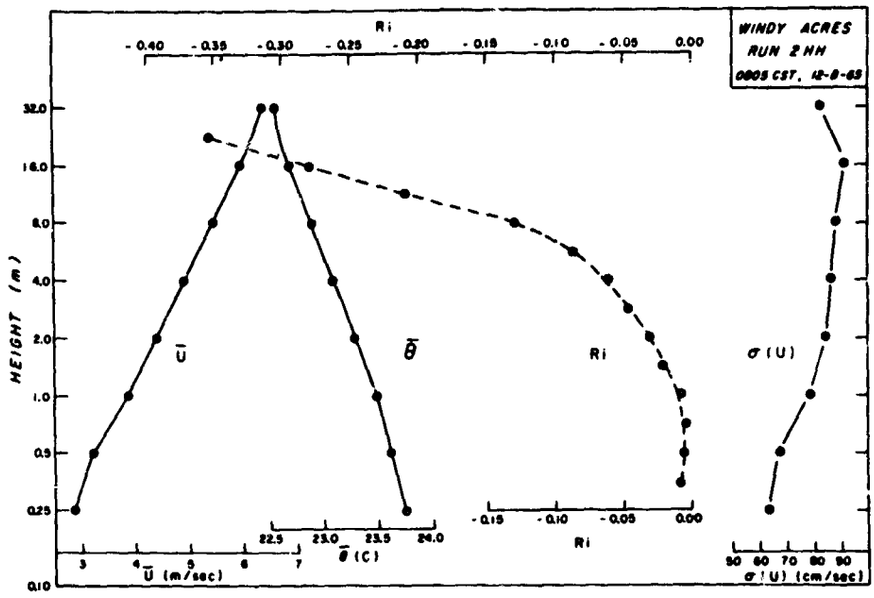

Figure 10. Typical Profile for Unstable Lapse Rate

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^{-1} (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^{-1}. 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_o for these data is determined from the expression

$$U_z = \frac{u^*}{k} \ln \frac{Z}{Z_o}$$

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.

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

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

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

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

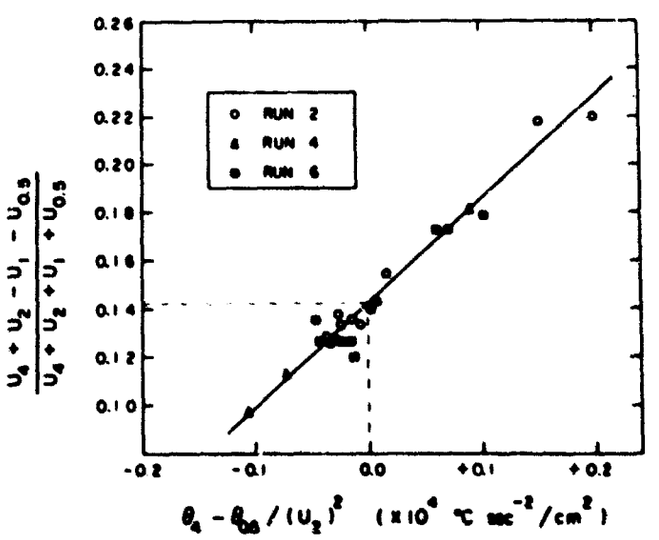

Figure 11. Wind Speed Ratio Plotted as a Function of Stability Ratio

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.

WINDY ACRES RUN NO. 1A

11 AUG 65 2138 CST

	Z(M)	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	255
	2.0	344	55	-8	256
	4.0	395	53	-2	252
	8.0	483	52	-16	277
	16.0	598	51	19	330
	32.0	782	44	-5	173
WIND DIRECTION (0.1 DEG)	2	1995	72	8	245
	32	2331	33	-2	279
TEMPERATURE (0.01C)	2	2490	8	-32	220

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2467		0.25
0.35	30	3		.002686	0.35
0.50	71	11	2470	.004977	0.50
0.71	41	8		.007675	0.71
1.00	83	20	2478	.013241	1.00
1.41	42	12		.021940	1.41
2.00	93	28	2490	.029521	2.00
2.83	51	16		.039661	2.83
4.00	139	46	2506	.043389	4.00
5.66	88	30		.049915	5.66
8.00	203	70	2536	.061851	8.00
11.31	115	40		.077849	11.31
16.00	299	107	2576	.087005	16.00
22.63	184	67		.101686	22.63
32.00			2643		32.00

Table 3 (Continued)

HINDY ACRES RUN NO. 18 — 11 AUG 65 2150 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	239	40	-32	262
	0.50	268	41	-28	284
	1.0	312	47	-16	242
	2.0	358	48	-22	284
	4.0	408	53	-16	290
	8.0	491	53	-19	247
	16.0	609	55	-27	337
	32.0	806	44	11	174
WIND DIRECTION (0.1 DEG)	2	2003	70	-3	262
	32	2336	29	-16	340
TEMPERATURE (0.01C)	2	2467	8	-12	220

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2444		0.25
0.35	29	3		.002879	0.35
0.50	73	11	2447	.004711	0.50
0.71	44	8		.006670	0.71
1.00	90	20	2455	.011270	1.00
1.41	46	12		.018303	1.41
2.00	96	27	2467	.026737	2.00
2.83	50	15		.038715	2.83
4.00	133	43	2482	.044336	4.00
5.66	83	28		.052413	5.66
8.00	201	68	2510	.061337	8.00
11.31	118	40		.074005	11.31
16.00	315	108	2550	.079191	16.00
22.63	197	68		.090109	22.63
32.00			2618		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1C

11 AUG 65 2205 CST

	Z(M)	MEAN	SIGMA	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	279
	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2382		
0.35	25	3		.003881	0.25
0.50	64	11	2385	.006143	0.35
0.71	39	8		.008508	0.50
1.00	82	21	2393	.014286	0.71
1.41	43	13		.022740	1.00
2.00	91	31	2406	.034233	1.41
2.83	48	18		.050511	2.00
4.00	123	47	2424	.056775	2.83
5.66	75	29		.066613	4.00
8.00	190	67	245	.067766	5.66
11.31	115	38		.074166	8.00
16.00	206	104	2491	.066534	11.31
22.63	181	66		.103613	16.00
32.00			2557		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 10

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	292
	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2310		
0.35	24	2			0.25
0.50	58	10	2312	.002814	0.35
0.71	34	8		.006816	0.50
1.00	70	21	2320	.011221	0.71
1.41	36	13		.019652	1.00
2.00	85	31	2333	.032524	1.41
2.83	49	18		.039333	2.00
4.00	129	50	2351	.048589	2.83
5.66	80	32		.055043	4.00
8.00	194	77	2383	.064758	5.66
11.31	114	45		.074873	8.00
16.00	320	125	2428	.089574	11.31
22.63	206	80		.089163	16.00
32.00			2508	.097325	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1E — 11 AUG 65 2235 CST

	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
	8.0	414	40	-3	264
	16.0	541	36	11	318
	32.0	769	32	39	----
WIND DIRECTION (0.1 DEG)	2	2102	67	-21	302
	32	2438	18	-3	310
TEMPERATURE (0.01C)	2	2278	19	36	228

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2257		0.25
0.35	28	1		.001036	0.35
0.50	61	9	2258	.005557	0.50
0.71	33	8		.011933	0.71
1.00	71	20	2266	.018226	1.00
1.41	38	12		.026994	1.41
2.00	88	30	2278	.035579	2.00
2.83	50	18		.046752	2.83
4.00	131	52	2296	.055611	4.00
5.66	81	34		.067239	5.66
8.00	208	87	2330	.073713	8.00
11.31	127	53		.085145	11.31
16.00	355	161	2383	.093410	16.00
22.63	228	108		.107363	22.63
32.00			2491		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1F

11 AUG 65 2250 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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	2108	66	0	320
	32	2450	24	----	----
TEMPERATURE (0.01C)	2	2229	17	-54	198

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2208		0.25
0.35	23	1		.001535	0.35
0.50	55	8	2209	.006084	0.50
0.71	32	7		.011123	0.71
1.00	72	20	2216	.017754	1.00
1.41	40	13		.026437	1.41
2.00	86	31	2229	.038559	2.00
2.83	46	16		.055329	2.83
4.00	125	54	2247	.063529	4.00
5.66	79	36		.074966	5.66
8.00	201	89	2283	.080882	8.00
11.31	122	53		.092414	11.31
16.00	346	169	2336	.103366	16.00
22.63	224	116		.119642	22.63
32.00			2452		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 16 — 11 AUG 68 2305 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	135	25	-64	261
	0.50	157	27	-61	365
	1.0	185	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2133		0.25
0.35	22	0		.000000	0.35
0.50	50	9	2133	.008306	0.50
0.71	28	9		.018728	0.71
1.00	67	23	2142	.023637	1.00
1.41	39	14		.030024	1.41
2.00	86	37	2156	.046132	2.00
2.83	47	23		.067862	2.83
4.00	132	65	2179	.068729	4.00
5.66	85	42		.075714	5.66
8.00	213	106	2221	.085950	8.00
11.31	128	64		.101569	11.31
16.00	348	180	2285	.109035	16.00
22.63	220	116		.124245	22.63
32.00			2401		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1H

11 AUG 65 2320 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	143	27	-45	276
	0.50	167	28	-47	295
	1.0	194	31	-22	258
	2.0	231	32	-26	262
	4.0	276	32	-18	299
	8.0	356	32	5	293
	16.0	480	29	26	303
	32.0	712	21	14	-----
WIND DIRECTION (0.1 DEG)	2	2039	70	7	323
	32	2421	20	-11	276
TEMPERATURE (0.01C)	2	2116	7	48	256

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	24	0	2096		0.25
0.50	51	8	2096	.000000	0.35
0.71	27	6		.007103	0.50
1.00	64	20	2104	.017823	0.71
1.41	37	12		.022556	1.00
2.00	82	32	2116	.028630	1.41
2.83	45	20		.043946	2.00
4.00	125	59	2136	.064482	2.83
5.66	80	39		.069671	4.00
8.00	204	98	2175	.079490	5.66
11.31	124	59		.086771	8.00
16.00	356	194	2234	.099937	11.31
22.63	232	135		.112435	16.00
32.00			2369	.130202	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1J

11 AUG 65 2335 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	136	25	-16	264
	0.50	158	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	289
	16.0	462	27	-1	253
	32.0	682	23	-33	----
WIND DIRECTION (0.1 DEG)	2	2063	65	-5	253
	32	2424	21	-30	311
TEMPERATURE (0.01C)	2	2089	10	28	213

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2067		0.25
0.35	22	0		.000000	0.35
0.50	47	8	2067	.008374	0.50
0.71	25	8		.020931	0.71
1.00	59	22	2075	.029223	1.00
1.41	34	14		.039592	1.41
2.00	83	35	2089	.046959	2.00
2.83	49	21		.057155	2.83
4.00	129	60	2110	.066585	4.00
5.66	80	39		.079560	5.66
8.00	196	97	2149	.093123	8.00
11.31	116	58		.112363	11.31
16.00	336	181	2207	.117896	16.00
22.63	220	123		.132073	22.63
32.00			?330		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 1K

11 AUG 65 2350 CST

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

Table 3 (Continued)

WINDY ACRES RUN NO. 1L

12 AUG 65 0005 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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)	2	2001	17	7	196

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1979		0.25
0.35	18	-1		-.002519	0.35
0.50	42	7	1978	.009202	0.50
0.71	24	8		.022779	0.71
1.00	57	23	1986	.032831	1.00
1.41	33	15		.045167	1.41
2.00	80	38	2001	.055043	2.00
2.83	47	23		.068241	2.83
4.00	127	65	2024	.074640	4.00
5.66	80	42		.085926	5.66
8.00	200	107	2066	.098924	8.00
11.31	120	65		.117985	11.31
16.00	343	213	2131	.133420	16.00
22.63	223	148		.154996	22.63
32.00			2279		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	-73	294
	1.0	114	22	-28	273
	2.0	147	21	-39	289
	4.0	197	20	-25	284
	8.0	278	19	-16	331
	16.0	414	17	-9	302
	32.0	656	23	-8	----
WIND DIRECTION (0.1 DEG)	2	2118	71	31	261
	32	2522	32	----	----
TEMPERATURE (0.01C)	2	1933	19	13	181

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1904		
0.35	20	-2		-.004111	0.25
0.50	39	8	1902	.012229	0.35
0.71	19	10		.045554	0.50
1.00	52	31	1912	.053300	0.71
1.41	33	21		.063389	1.00
2.00	83	54	1933	.072826	1.41
2.83	50	33		.086701	2.00
4.00	131	93	1966	.100545	2.83
5.66	81	60		.118938	4.00
8.00	217	154	2026	.121063	5.66
11.31	136	94		.132947	8.00
16.00	360	263	2120	.134263	11.31
22.63	244	169		.147830	16.00
32.00			2289		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 28 — 12 AUG 65 0035 CST

	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	339
	2.0	159	23	-72	353
	4.0	217	26	-63	303
	8.0	309	31	-36	283
	16.0	440	30	-16	269
	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-THETA	THETA	RI	Z(M)
0.25			1873		0.25
0.35	21	0		.000000	0.35
0.50	43	14	1873	.017623	0.50
0.71	22	14		.047609	0.71
1.00	61	43	1887	.053765	1.00
1.41	39	29		.062718	1.41
2.00	97	76	1916	.075075	2.00
2.83	56	47		.091796	2.83
4.00	150	130	1963	.107176	4.00
5.66	92	83		.128565	5.66
8.00	223	184	2046	.136896	8.00
11.31	131	101		.153835	11.31
16.00	352	231	2147	.137433	16.00
22.63	221	130		.138592	22.63
32.00			2277		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2C

12 AUG 65 0050 CST

	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	29	-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	184

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1968		
0.35	22	2			0.25
0.50	48	13	1970	.003389	0.35
0.71	24	11		.013088	0.50
1.00	61	29	1981	.026696	0.71
1.41	35	16		.036149	1.00
2.00	88	46	1999	.048188	1.41
2.83	53	30		.057459	2.00
4.00	140	88	2029	.069993	2.83
5.66	87	58		.083121	4.00
8.00	215	138	2087	.100286	5.66
11.31	128	80		.110313	8.00
16.00	328	180	2167	.127501	11.31
22.63	200	100		.123294	16.00
32.00			2267	.130158	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 20 — 12 AUG 65 0105 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	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
	8.0	356	33	-33	279
	16.0	464	35	-3	295
	32.0	686	32	21	133
WIND DIRECTION (0.1 DEG)	2	2126	72	-11	346
	32	2491	28	11	348
TEMPERATURE (0.01C)	2	2023	6	-14	200

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1995		0.25
0.35	21	3		.005571	0.35
0.50	51	13	1998	.011584	0.50
0.71	30	10		.018211	0.71
1.00	68	25	2008	.025055	1.00
1.41	38	15		.034038	1.41
2.00	87	39	2023	.047730	2.00
2.83	49	24		.065464	2.83
4.00	126	66	2047	.076937	4.00
5.66	77	42		.092679	5.66
8.00	203	106	2089	.095051	8.00
11.31	126	64		.105289	11.31
16.00	328	157	2153	.107584	16.00
22.63	202	93		.118734	22.63
32.00			2246		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	38	-57	317
	1.0	242	45	-48	305
	2.0	280	46	-36	290
	4.0	327	45	-53	316
	8.0	410	48	-35	383
	16.0	526	47	-50	336
	32.0	717	47	-36	213
WIND DIRECTION (0.1 DEG)	2	2163	72	-5	299
	32	2491	31	3	394
TEMPERATURE (0.01C)	2	2039	10	53	295

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	26	3	2014		0.25
0.50	62	12	2017	.003634	0.35
0.71	36	9		.007231	0.50
1.00	74	22	2026	.011375	0.71
1.41	38	13		.016608	1.00
2.00	85	31	2039	.029483	1.41
2.83	47	18		.039727	2.00
4.00	130	55	2057	.053343	2.83
5.66	83	37		.060210	4.00
8.00	199	89	2094	.070251	5.66
11.31	116	52		.083049	8.00
16.00	307	131	2146	.100938	11.31
22.63	191	79		.102507	16.00
32.00			2225	.112868	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2F

12 AUG 65 0135 CST

	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	-8	262
	8.0	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2039		0.25
0.35	30	3		.002725	0.35
0.50	70	11	2042	.005195	0.50
0.71	40	8		.008183	0.71
1.00	83	19	2050	.012763	1.00
1.41	43	11		.019467	1.41
2.00	90	26	2061	.029698	2.00
2.83	47	15		.044420	2.83
4.00	124	44	2076	.052915	4.00
5.66	77	29		.063945	5.66
8.00	196	72	2105	.069238	8.00
11.31	119	43		.079297	11.31
16.00	295	115	2148	.097452	16.00
22.63	176	72		.121157	22.63
32.00			2220		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		
	0.50	192	35	-56	335
	1.0	224	44	-36	302
	2.0	262	46	-50	293
	4.0	304	47	-46	287
	8.0	372	50	-26	238
	16.0	475	49	-17	247
	32.0	647	60	-19	260
				-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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	25	4	2022		0.25
0.50	57	13	2026	.005237	0.35
0.71	32	9		.009264	0.50
1.00	70	20	2035	.014392	0.71
1.41	38	11		.018899	1.00
2.00	80	28	2046	.024938	1.41
2.83	42	17		.040499	2.00
4.00	110	46	2063	.063073	2.83
5.66	68	29		.070331	4.00
8.00	171	67	2092	.082029	5.66
11.31	103	38		.084692	8.00
16.00	275	98	2130	.093589	11.31
22.63	172	60		.095641	16.00
32.00			2190	.105803	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2H

12 AUG 65 0205 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	176	37	-14	233
	0.50	199	39	-15	276
	1.0	233	45	-11	253
	2.0	271	46	-14	263
	4.0	323	45	-9	245
	8.0	396	48	-19	274
	16.0	503	46	0	245
	32.0	661	52	12	254
WIND DIRECTION (0.1 DEG)	2	2158	81	16	297
	32	2515	44	28	417
TEMPERATURE (0.01C)	2	2031	9	18	239

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2003		0.25
0.35	23	4		.006195	0.35
0.50	57	14	2007	.009983	0.50
0.71	34	10		.014171	0.71
1.00	72	24	2017	.021449	1.00
1.41	38	14		.031758	1.41
2.00	90	33	2031	.037732	2.00
2.83	52	19		.046010	2.83
4.00	125	52	2050	.061591	4.00
5.66	73	33		.081023	5.66
8.00	180	75	2083	.085585	8.00
11.31	107	42		.095873	11.31
16.00	265	97	2125	.101978	16.00
22.63	158	55		.114965	22.63
32.00			2180		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
	1.0	233	36	-22	262
	2.0	273	38	-32	278
	4.0	322	40	-34	288
	8.0	399	43	-9	278
	16.0	507	42	-11	336
	32.0	676	38	-19	144
WIND DIRECTION (0.1 DEG)	2	2197	72	1	322
	32	2556	36	115	----
TEMPERATURE (0.01C)	2	2021	10	22	248

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	25	4	1998		0.25
0.50	62	12	2002	.005243	0.35
0.71	37	8		.007234	0.50
1.00	77	19	2010	.009575	0.71
1.41	40	11		.014851	1.00
2.00	89	29	2021	.022526	1.41
2.83	49	18		.033918	2.00
4.00	126	51	2039	.049106	2.83
5.66	77	33		.059473	4.00
8.00	185	77	2072	.072851	5.66
11.31	108	44		.083209	8.00
16.00	277	105	2116	.098620	11.31
22.63	169	61		.101052	16.00
32.00			2177	.111470	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2K — 12 AUG 65 0235 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	144	28	-23	269
	0.50	171	28	-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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1946		0.25
0.35	27	3		.003375	0.35
0.50	55	12	1949	.009209	0.50
0.71	28	9		.018848	0.71
1.00	66	23	1958	.024511	1.00
1.41	38	14		.031623	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	2083	.112205	16.00
22.63	165	68		.130466	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		
	0.50	160	29	-49	214
	1.0	187	33	-39	309
	2.0	227	33	-33	273
	4.0	274	34	-44	334
	8.0	359	32	-45	333
	16.0	479	27	-19	323
	32.0	660	25	-8	272
				-21	----
WIND DIRECTION (0.1 DEG)	2	2268	66	2	309
	32	2625	23	-30	316
TEMPERATURE (0.01C)	2	1925	13	8	210

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	23	3	1901		0.25
0.50	50	11	1904	.004659	0.35
0.71	27	8		.010231	0.50
1.00	67	21	1912	.018041	0.71
1.41	40	13		.021752	1.00
2.00	87	36	1925	.026711	1.41
2.83	47	23		.044205	2.00
4.00	132	64	1948	.068420	2.83
5.66	85	41		.066207	4.00
8.00	205	101	1989	.074496	5.66
11.31	120	60		.089118	8.00
16.00	301	141	2049	.109206	11.31
22.63	181	81		.115140	16.00
32.00			2130	.129287	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2M

12 AUG 65 0305 CST

	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	2666	29	0	246
TEMPERATURE (0.01C)	2	1893	8	-16	177

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1868		0.25
0.35	23	2		.003108	0.35
0.50	54	10	1870	.007983	0.50
0.71	31	8		.013702	0.71
1.00	66	23	1878	.023153	1.00
1.41	37	15		.036063	1.41
2.00	89	40	1893	.046985	2.00
2.83	52	25		.060819	2.83
4.00	138	69	1918	.067348	4.00
5.66	86	44		.078174	5.66
8.00	215	112	1962	.089917	8.00
11.31	129	68		.107181	11.31
16.00	320	157	2030	.113520	16.00
22.63	191	89		.127634	22.63
32.00			2119		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2N

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	305
	4.0	293	34	-9	287
	8.0	374	35	-27	280
	16.0	492	33	16	287
	32.0	690	33	3	----
WIND DIRECTION (0.1 DEG)	2	2347	69	5	312
	32	2697	21	102	----
TEMPERATURE (0.01C)	2	1897	6	-81	320

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1671		
0.35	25	3		.003949	0.25
0.50	58	12	1674	.009232	0.35
0.71	30	9		.018458	0.50
1.00	66	23	1683	.023149	0.71
1.41	36	14		.031904	1.00
2.00	90	36	1697	.041349	1.41
2.83	62	22		.053517	2.00
4.00	133	61	1919	.064102	2.83
5.66	81	39		.078114	4.00
8.00	199	97	1958	.090926	5.66
11.31	118	58		.109294	8.00
16.00	316	144	2016	.106816	11.31
22.63	198	86		.114826	16.00
32.00			2102		22.63
					32.00

Table 3 (Continued)

DIRBT ACRES RUN NO. 2P

12 AUG 65 0335 CST

	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	266
	4.0	291	39	-12	253
	8.0	368	41	12	301
	16.0	486	38	36	460
	32.0	673	35	18	----
WIND DIRECTION (0.1 DEG)	2	2372	68	-1	309
	32	2709	24	-46	270
TEMPERATURE (0.01C)	2	1868	4	-15	228

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.28			1864		0.25
0.35	25	3		.003949	0.35
0.50	57	12	1867	.008598	0.50
0.71	32	9		.014469	0.71
1.00	74	21	1876	.017853	1.00
1.41	42	12		.022392	1.41
2.00	69	32	1888	.037597	2.00
2.83	87	20		.059572	2.83
4.00	124	56	1908	.067728	4.00
5.66	77	36		.079826	5.66
8.00	195	89	1944	.086931	8.00
11.31	118	53		.099929	11.31
16.00	305	132	1997	.105181	16.00
22.63	187	79		.118347	22.63
32.00			2076		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
	1.0	191	36	-30	266
	2.0	228	36	-17	279
	4.0	274	37	-25	259
	8.0	345	39	-25	278
	16.0	451	33	-15	292
	32.0	648	34	-1	----
WIND DIRECTION (0.1 DEG)	2	2398	79	1	295
	32	2719	30	-33	350
TEMPERATURE (0.01C)	2	1875	10	-15	218

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	25	4	1851		0.25
0.50	56	13	1855	.005268	0.35
0.71	31	9		.009655	0.50
1.00	68	20	1864	.015425	0.71
1.41	37	11		.020145	1.00
2.00	83	30	1875	.026458	1.41
2.83	46	19		.040545	2.00
4.00	117	51	1894	.059110	2.83
5.66	71	32		.069320	4.00
8.00	177	77	1926	.083502	5.66
11.31	106	45		.091352	8.00
16.00	303	120	1971	.105224	11.31
22.63	197	75		.096969	16.00
32.00			2046	.101335	22.63
					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	28	-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	265
	32.0	624	34	0	----
WIND DIRECTION (0.1 DEG)	2	2390	72	0	302
	32	2734	26	-16	410
TEMPERATURE (0.01C)	2	1847	13	-34	210

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1821		0.25
0.35	22	3		.005108	0.35
0.50	44	12	1824	.014454	0.50
0.71	22	9		.030660	0.71
1.00	61	23	1833	.028818	1.00
1.41	39	14		.030343	1.41
2.00	84	36	1847	.047547	2.00
2.83	45	22		.071583	2.83
4.00	118	58	1869	.077567	4.00
5.66	73	36		.088933	5.66
8.00	183	88	1905	.097730	8.00
11.31	110	52		.112976	11.31
16.00	306	140	1957	.110957	16.00
22.63	196	88		.120143	22.63
32.00			2045		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2S

12 AUG 65 0420 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	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	268
	32	2717	21	-53	537
TEMPERATURE (0.01C)	2	1788	17	85	222

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	20	3	1755		0.25
0.50	46	14	1758	.006191	0.35
0.71	26	11		.015462	0.50
1.00	64	30	1769	.026887	0.71
1.41	38	19		.034221	1.00
2.00	86	51	1788	.043466	1.41
2.83	48	32		.064385	2.00
4.00	128	84	1820	.091681	2.83
5.66	80	52		.095613	4.00
8.00	198	116	1872	.107109	5.66
11.31	118	64		.110166	8.00
16.00	306	154	1936	.120941	11.31
22.63	188	90		.122154	16.00
32.00			2026	.133645	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2T

12 AUG 65 0435 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	107	20	-51	----
	0.50	128	21	-74	375
	1.0	153	25	-64	380
	2.0	189	25	-25	315
	4.0	238	26	-28	313
	8.0	321	26	3	229
	16.0	444	25	-4	308
	32.0	641	26	-13	----
WIND DIRECTION (0.1 DEG)	2	2276	60	1	292
	32	2695	20	124	495
TEMPERATURE (0.01C)	2	1765	5	61	373

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1734		0.25
0.35	21	3		.005624	0.35
0.50	46	13	1737	.014369	0.50
0.71	25	10		.026456	0.71
1.00	61	28	1747	.035184	1.00
1.41	36	18		.045916	1.41
2.00	83	49	1765	.066465	2.00
2.83	47	31		.092711	2.83
4.00	132	87	1796	.093184	4.00
5.66	85	56		.102253	5.66
8.00	208	129	1852	.111076	8.00
11.31	123	73		.127027	11.31
16.00	320	175	1925	.126963	16.00
22.63	197	102		.137961	22.63
32.00			2027		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2U

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	2453	25	-27	240
TEMPERATURE (0.01C)	2	1732	10	71	315

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1698		
0.35	25	3		.003974	0.25
0.50	47	14	1701	.014839	0.35
0.71	22	11		.037633	0.50
1.00	59	31	1712	.041690	0.71
1.41	37	20		.048355	1.00
2.00	87	54	1732	.066740	1.41
2.83	50	34		.069943	2.00
4.00	138	100	1766	.098082	2.83
5.66	88	66		.112530	4.00
8.00	216	153	1832	.122228	5.66
11.31	128	87		.139850	8.00
16.00	294	186	1919	.159939	11.31
22.63	166	99		.188635	16.00
32.00			2018		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2V — 12 AUG 65 0505 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	93	18	-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	-29	286
TEMPERATURE (0.01C)	2	1710	10	38	220

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1675		0.25
0.35	23	2		.003130	0.35
0.50	46	14	1677	.014237	0.50
0.71	25	12		.031818	0.71
1.00	62	33	1689	.040220	1.00
1.41	37	21		.050812	1.41
2.00	94	61	1710	.064623	2.00
2.83	57	40		.081475	2.83
4.00	154	122	1750	.096115	4.00
5.66	97	82		.115098	5.66
8.00	227	183	1832	.132358	8.00
11.31	130	101		.157356	11.31
16.00	269	178	1933	.182862	16.00
22.63	139	77		.209237	22.63
32.00			2010		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2A — 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
	16.0	466	19	-38	348
	32.0	613	26	1	----
WIND DIRECTION (0.1 DEG)	2	2260	64	17	282
	32	2669	30	19	----
TEMPERATURE (0.01C)	2	1708	12	-77	238

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1672		0.25
0.35	22	3		.005132	0.35
0.50	45	15	1675	.017360	0.50
0.71	23	12		.037592	0.71
1.00	62	33	1687	.040222	1.00
1.41	39	21		.045737	1.41
2.00	98	61	1708	.059459	2.00
2.83	59	40		.076049	2.83
4.00	160	122	1748	.089048	4.00
5.66	101	82		.106169	5.66
8.00	225	185	1830	.136198	8.00
11.31	124	103		.176383	11.31
16.00	271	177	1933	.179177	16.00
22.63	147	74		.179804	22.63
32.00			2007		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2X

12 AUG 65 0535 CST

	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	302
	4.0	246	17	5	269
	8.0	350	18	-11	395
	16.0	454	19	-59	382
	32.0	599	28	-44	----
WIND DIRECTION (0.1 DEG)	2	2260	77	-11	279
	32	2684	32	34	275
TEMPERATURE (0.01C)	2	1685	9	-16	208

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1642		
0.35	22	3		.005140	0.25
0.50	47	17	1645	.018054	0.35
0.71	25	14		.037155	0.50
1.00	67	40	1659	.041787	0.71
1.41	42	26		.048867	1.00
2.00	104	76	1685	.065822	1.41
2.83	62	50		.086137	2.00
4.00	166	155	1735	.105114	2.83
5.66	104	105		.128219	4.00
8.00	208	202	1840	.174031	5.66
11.31	104	97		.236085	8.00
16.00	249	166	1937	.199026	11.31
22.63	145	69		.172305	16.00
32.00			2006		22.63
					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	138	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	-18	----
WIND DIRECTION (0.1 DEG)	2	2253	59	8	184
	32	2685	23	67	232
TEMPERATURE (0.01C)	2	1688	8	-18	211

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1642		0.25
0.35	21	4		.007519	0.35
0.50	44	19	1646	.023021	0.50
0.71	23	15		.047037	0.71
1.00	64	42	1661	.048082	1.00
1.41	41	27		.053248	1.41
2.00	104	82	1683	.071004	2.00
2.83	63	55		.091748	2.83
4.00	166	162	1743	.109834	4.00
5.66	103	107		.133169	5.66
8.00	218	191	1850	.149797	8.00
11.31	115	84		.167188	11.31
16.00	284	161	1934	.148349	16.00
22.63	169	77		.141540	22.63
32.00			2011		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 22

12 AUG 65 0605 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	106	19	-13	----
	0.50	128	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	684	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1654		0.25
0.35	22	3		.005132	0.35
0.50	46	15	1657	.016625	0.50
0.71	24	12		.034545	0.71
1.00	62	32	1669	.039029	1.00
1.41	38	20		.045911	1.41
2.00	95	57	1689	.059167	2.00
2.83	57	37		.075423	2.83
4.00	149	111	1726	.093506	4.00
5.66	92	74		.115579	5.66
8.00	237	180	1800	.119540	8.00
11.31	145	106		.132878	11.31
16.00	345	215	1906	.134322	16.00
22.63	200	109		.143113	22.63
32.00			2015		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2AA

12 AUG 65 0620 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	86	21	22	----
	0.50	110	19	20	299
	1.0	131	23	-37	310
	2.0	164	24	-49	372
	4.0	213	27	14	269
	8.0	296	26	-13	257
	16.0	425	28	-46	324
	32.0	513	33	-49	216
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)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25			1676		
0.35	24	3		.004312	0.25
0.50	45	13	1679	.015042	0.35
0.71	21	10		.037574	0.50
1.00	54	26	1689	.041776	0.7:
1.41	33	16		.048671	1.00
2.00	82	44	1705	.061276	1.41
2.83	49	28		.077207	2.00
4.00	132	85	1733	.091234	2.83
5.66	83	57		.109390	4.00
8.00	212	145	1790	.120406	5.66
11.31	129	88		.139471	8.00
16.00	317	191	1878	.141458	11.31
22.63	188	103		.153215	16.00
32.00			1981		22.63
					32.00

Table 3 (Continued)

NINBY SCRES RUN NO. 208 12 AUG 65 0635 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	84	18	-77	----
	0.50	106	18	-75	361
	1.0	126	19	-39	301
	2.0	158	21	-31	273
	4.0	203	23	8	291
	8.0	279	22	-8	388
	16.0	389	21	-22	285
	32.0	565	28	-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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1717		0.25
0.35	22	0		.000000	0.35
0.50	42	7	1717	.009286	0.50
0.71	20	7		.028954	0.71
1.00	52	16	1724	.027693	1.00
1.41	32	9		.029083	1.41
2.00	77	31	1733	.048914	2.00
2.83	45	22		.071865	2.83
4.00	121	72	1755	.091907	4.00
5.66	76	50		.114375	5.66
8.00	186	119	1805	.126346	8.00
11.31	110	69		.150376	11.31
16.00	286	162	1874	.147414	16.00
22.63	176	93		.157699	22.63
32.00			1967		32.00

Table 3 (Continued)

NINBY ACRES RUN NO. 2CC 12 AUG 65 0650 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	122	33	-62	207
	0.50	148	36	-65	293
	1.0	178	39	-32	280
	2.0	198	40	-53	283
	4.0	233	38	-47	274
	8.0	262	36	-25	273
	16.0	289	30	-15	299
	32.0	296	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1821		0.25
0.35	24	-1		-.001430	0.35
0.50	48	0	1820	.000000	0.50
0.71	24	1		.002861	0.71
1.00	52	2	1821	.003449	1.00
1.41	28	1		.004204	1.41
2.00	63	3	1822	.014101	2.00
2.83	35	5		.026922	2.83
4.00	84	25	1827	.052767	4.00
5.66	59	20		.075768	5.66
8.00	156	59	1847	.090352	8.00
11.31	87	39		.109209	11.31
16.00	264	115	1886	.122758	16.00
22.63	167	78		.143306	22.63
32.00			1962		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 200

12 AUG 65 0705 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	176	34	-21	234
	0.50	203	37	-18	257
	1.0	240	41	-17	261
	2.0	275	41	-21	271
	4.0	304	41	2	292
	8.0	348	41	-8	268
	16.0	422	41	-6	323
	32.0	557	39	17	292
WIND DIRECTION (0.1 DEG)	2	2286	78	7	305
	32	2663	39	16	264
TEMPERATURE (0.01C)	2	1940	34	-8	184

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1947		
0.35	27	-3		-.003375	0.25
0.50	64	-3	1944	-.001699	0.35
0.71	37	0		.000000	0.50
1.00	72	-4	1944	-.003583	0.71
1.41	35	-4		-.010726	1.00
2.00	64	-6	1940	-.013610	1.41
2.83	29	-2		-.015625	2.00
4.00	73	-1	1938	-.003485	2.83
5.66	44	1		.006787	4.00
8.00	118	10	1939	.026691	5.66
11.31	74	9		.043191	8.00
16.00	209	48	1948	.081611	11.31
22.63	135	39		.112374	16.00
32.00			1987		22.63
					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	338	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	31	-6	2062		0.25
0.50	39	-7		-.005105	0.35
0.71	48	-1	2056	-.002594	0.50
1.00	89	-10		-.000708	0.71
1.41	41	-9	2055	-.005842	1.00
2.00	82	-16		-.017523	1.41
2.83	41	-7	2046	-.022031	2.00
4.00	84	-15		-.027266	2.83
5.66	43	-8	2039	-.039377	4.00
8.00	93	-14		-.056675	5.66
11.31	50	-6	2031	-.059980	8.00
16.00	131	1		-.062890	11.31
22.63	81	7	2025	.004317	16.00
32.00				.055913	22.63
			2032		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	268
	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	2138	26	-13	167

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2161		0.25
0.35	38	-8		-.004514	0.35
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	-.088385	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
	16.0	521	83	-19	242
	32.0	567	66	-34	313
WIND DIRECTION (0.1 DEG)	2	2371	96	0	282
	32	2714	62	6	331
TEMPERATURE (0.01C)	2	2225	30	58	284

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2261		0.25
0.35	37	-12		-.007121	0.35
0.50	90	-18	2249	-.005107	0.50
0.71	53	-6		-.003472	0.71
1.00	104	-24	2243	-.010206	1.00
1.41	51	-18		-.022510	1.41
2.00	92	-33	2225	-.035882	2.00
2.83	41	-15		-.058082	2.83
4.00	80	-27	2210	-.077691	4.00
5.66	39	-12		-.102756	5.66
8.00	83	-26	2193	-.139075	8.00
11.31	44	-14		-.188452	11.31
16.00	90	-25	2184	-.227555	16.00
22.63	46	-11		-.271061	22.63
32.00			2173		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2MM

12 AUG 65 0805 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	284	63	-24	275
	0.50	321	67	-16	268
	1.0	385	78	-25	265
	2.0	440	84	-17	253
	4.0	491	86	11	249
	8.0	546	88	15	252
	16.0	597	91	1	288
	32.0	639	82	-16	303
WIND DIRECTION (0.1 DEG)	2	2357	103	-8	338
	32	2669	63	21	345
TEMPERATURE (0.01C)	2	2328	16	12	225

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2375		0.25
0.35	37	-14		-.008277	0.35
0.50	101	-27	2361	-.006061	0.50
0.71	64	-13		-.005140	0.71
1.00	119	-33	2348	-.010680	1.00
1.41	55	-20		-.021430	1.41
2.00	106	-39	2328	-.031835	2.00
2.83	51	-19		-.047386	2.83
4.00	106	-38	2309	-.062080	4.00
5.66	55	-19		-.081542	5.66
8.00	106	-40	2290	-.130784	8.00
11.31	51	-21		-.209779	11.31
16.00	93	-33	2269	-.280479	16.00
22.63	42	-12		-.353696	22.63
32.00			2257		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2JJ

12 AUG 65 0820 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	308	65	-26	295
	0.50	352	70	-17	276
	1.0	409	79	-13	257
	2.0	465	88	-15	252
	4.0	519	87	-18	255
	8.0	575	82	-36	297
	16.0	626	75	-38	284
	32.0	664	77	-18	304
WIND DIRECTION (0.1 DEG)	2	2343	103	-17	287
	32	2682	67	35	429
TEMPERATURE (0.01C)	2	2376	19	-45	208

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2427		0.25
0.35	44	-9		-.003754	0.35
0.50	101	-32	2418	-.007172	0.50
0.71	57	-23		-.011445	0.71
1.00	113	-42	2395	-.015048	1.00
1.41	56	-19		-.019607	1.41
2.00	110	-43	2376	-.032545	2.00
2.83	54	-24		-.053310	2.83
4.00	110	-45	2352	-.068165	4.00
5.66	56	-21		-.086812	5.66
8.00	107	-44	2331	-.140992	8.00
11.31	51	-23		-.229448	11.31
16.00	89	-36	2308	-.333657	16.00
22.63	38	-13		-.467478	22.63
32.00			2295		32.00

Table 3 (Continued)

WINBY ACRES RUN NO. 2KK

12 AUG 65 0835 CST

	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	282
	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2490		0.25
0.35	42	-16		-.007313	0.35
0.50	99	-43	2474	-.010012	0.50
0.71	57	-27		-.013412	0.71
1.00	114	-54	2447	-.018980	1.00
1.41	57	-27		-.026850	1.41
2.00	106	-54	2420	-.043946	2.00
2.83	49	-37		-.072732	2.83
4.00	106	-48	2393	-.078189	4.00
5.66	57	-21		-.083678	5.66
8.00	94	-46	2372	-.190734	8.00
11.31	37	-25		-.473206	11.31
16.00	0	-43	2347	-.492638	16.00
22.63	43	-18		-.504882	22.63
32.00			2329		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 2LL

12 AUG 65 0850 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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	2782	73	10	281
TEMPERATURE (0.01C)	2	2469	18	----	604

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2557		
0.35	41	-31		-.014841	0.25
0.50	96	-58	2526	-.014334	0.35
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		-.094808	2.00
4.00	90	-53	2438	-.119574	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	2389	-.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 2200 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	193	30	-9	253
	0.50	214	32	-21	247
	1.0	245	35	-20	243
	2.0	283	33	2	266
	4.0	331	36	-5	215
	8.0	411	39	-9	279
	16.0	531	36	6	319
	32.0	731	31	31	318
WIND DIRECTION (0.1 DEG)	2	1306	63	-5	338
	32	1379	23	19	----
TEMPERATURE (0.01C)	2	2363	16	6	184

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2344		0.25
0.35	21	2		.003666	0.35
0.50	52	8	2346	.006777	0.50
0.71	31	6		.010112	0.71
1.00	69	17	2352	.016356	1.00
1.41	38	11		.024673	1.41
2.00	86	30	2363	.037145	2.00
2.83	46	19		.053393	2.83
4.00	126	50	2382	.055850	4.00
5.66	80	31		.062670	5.66
8.00	200	81	2413	.074024	8.00
11.31	120	50		.089724	11.31
16.00	320	137	2463	.097600	16.00
22.63	200	87		.112141	22.63
32.00			2550		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 38

12 AUG 65 2215 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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	253	39	-42	294
	4.0	304	38	-33	313
	8.0	381	38	-34	275
	16.0	500	35	-4	284
	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-THETA	THETA	RI	Z(M)
0.25			2294		
0.35	23	1		.001528	0.25
0.50	50	6	2295	.005506	0.35
0.71	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		.047379	2.00
4.00	128	53	2330	.059301	2.83
5.66	77	34		.074321	4.00
8.00	196	88	2364	.083872	5.66
11.31	119	54		.098693	8.00
16.00	336	167	2418.	.108022	11.31
22.63	217	113		.123853	16.00
32.00			2931		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	182	28	-21	265
	1.0	206	30	-32	279
	2.0	241	32	-24	293
	4.0	291	33	2	236
	8.0	378	32	-8	255
	16.0	512	28	-10	314
	32.0	732	26	-14	284
WIND DIRECTION (0.1 DEG)	2	1325	60	0	250
	32	1458	20	17	282
TEMPERATURE (0.01C)	2	2246	11	-58	272

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2229		0.25
0.35	23	1		.001535	0.35
0.50	47	6	2230	.006245	0.50
0.71	24	5		.014112	0.71
1.00	59	16	2235	.021136	1.00
1.41	35	11		.029199	1.41
2.00	85	32	2246	.040718	2.00
2.83	50	21		.054601	2.83
4.00	137	63	2267	.061655	4.00
5.66	87	42		.072058	5.66
8.00	221	115	2309	.086346	8.00
11.31	134	73		.105378	11.31
16.00	354	205	2362	.119588	16.00
22.63	220	132		.140879	22.63
32.00			2514		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	246	24	-9	267
	8.0	327	26	6	291
	16.0	471	22	18	304
	32.0	684	17	-21	----
WIND DIRECTION (0.1 DEG)	2	1330	60	-9	287
	32	149	23	46	314
TEMPERATURE (0.01C)	2	2182	19	36	257

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2160		
0.35	20	1		.002030	0.25
0.50	40	6	2161	.008642	0.35
0.71	20	5		.020370	0.50
1.00	54	21	2166	.033194	0.71
1.41	34	16		.045107	1.00
2.00	85	43	2182	.054830	1.41
2.83	51	27		.067615	2.00
4.00	132	78	2209	.082380	2.83
5.66	81	51		.101124	4.00
8.00	225	135	2260	.097942	5.66
11.31	144	84		.105152	8.00
16.00	357	237	2344	.136076	11.31
22.63	213	153		.174356	16.00
32.00			2497		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3E

12 AUG 65 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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2086		0.25
0.35	18	0		.000000	0.35
0.50	39	6	2086	.009117	0.50
0.71	21	6		.022232	0.71
1.00	54	23	2092	.036447	1.00
1.41	33	17		.051003	1.41
2.00	68	51	2109	.060815	2.00
2.83	55	34		.073361	2.83
4.00	154	102	2143	.079304	4.00
5.66	99	68		.090432	5.66
8.00	255	188	2211	.106309	8.00
11.31	156	120		.128121	11.31
16.00	351	270	2331	.160524	16.00
22.63	195	150		.204051	22.63
32.00			2481		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3F

12 AUG 65 2315 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	118	21	-18	213
	0.50	135	21	-24	290
	1.0	158	24	-10	253
	2.0	189	25	-21	278
	4.0	239	25	-24	291
	8.0	334	25	14	280
	16.0	495	20	90	368
	32.0	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2045		0.25
0.35	17	0		.000000	0.35
0.50	40	6	2045	.008676	0.50
0.71	23	6		.018556	0.71
1.00	54	22	2051	.034912	1.00
1.41	31	16		.054475	1.41
2.00	81	48	2067	.067658	2.00
2.83	50	32		.083691	2.83
4.00	145	97	2099	.085200	4.00
5.66	95	65		.094021	5.66
8.00	256	199	2164	.111793	8.00
11.31	161	134		.134499	11.31
16.00	360	291	2298	.164657	16.00
22.63	199	157		.205276	22.63
32.00			2455		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 36 — 12 AUG 65 2330 CST

	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	289
	4.0	201	17	-13	289
	8.0	300	18	-31	262
	16.0	466	27	27	194
	32.0	677	34	-18	----
WIND DIRECTION (0.1 DEG)	2	1394	82	-26	230
	32	1566	38	-11	180
TEMPERATURE (0.01C)	2	2006	16	73	228

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1972		0.25
0.35	17	0		.000000	0.35
0.50	37	9	1972	.015248	0.50
0.71	20	9		.036913	0.71
1.00	53	34	1981	.056136	1.00
1.41	33	25		.075260	1.41
2.00	89	67	2006	.078380	2.00
2.83	56	42		.087733	2.83
4.00	155	123	2048	.094691	4.00
5.66	99	81		.108042	5.66
8.00	265	227	2129	.119144	8.00
11.31	166	146		.137981	11.31
16.00	377	298	2275	.153913	16.00
22.63	211	152		.176929	22.63
32.00			2427		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 3H

12 AUG 65 2345 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	64	15	----	749
	0.50	85	9	-15	278
	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	218
	32	1625	19	-29	----
TEMPERATURE (0.01C)	2	1951	23	-13	138

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	21	-1	1907		0.25
0.50	39	12		-.001859	0.35
0.71	16	13	1906	.018341	0.50
1.00	52	45		.065959	0.71
1.41	34	32	1919	.077338	1.00
2.00	90	84		.090955	1.41
2.83	56	52	1951	.096266	2.00
4.00	156	147		.108805	2.83
5.66	100	95	2003	.111875	4.00
8.00	254	237		.124353	5.66
11.31	154	142	2098	.135560	8.00
16.00	399	303		.156106	11.31
22.63	245	161	2240	.139845	16.00
32.00				.139141	22.63
			2401		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 33 — 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	8	-45	238

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1872		0.25
0.35	68	-3		-.000533	0.35
0.50	66	10	1869	.003146	0.50
0.71	18	13		.066044	0.71
1.00	52	43	1882	.073999	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	168	158	1964	.103796	4.00
5.66	107	106		.121326	5.66
8.00	268	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)

WINBY ACRES RUN NO. 4A

13 AUG 68 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	138	20	-26	299
	2.0	170	21	-29	274
	4.0	227	23	-11	285
	8.0	324	24	13	275
	16.0	490	22	82	443
	32.0	768	22	55	----
WIND DIRECTION (0.1 DEG)	2	1520	60	-12	329
	32	1647	14	-36	439
TEMPERATURE (0.01C)	2	1938	9	-2	203

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1910		0.25
0.35	24	-2		-.002848	0.35
0.50	45	8	1908	.009181	0.50
0.71	21	10		.037281	0.71
1.00	53	30	1918	.049644	1.00
1.41	32	20		.064169	1.41
2.00	89	55	1938	.064496	2.00
2.83	57	35		.070741	2.83
4.00	154	108	1973	.084449	4.00
5.66	97	73		.101703	5.66
8.00	263	207	2046	.110633	8.00
11.31	166	134		.127026	11.31
16.00	444	305	2180	.113875	16.00
22.63	278	171		.114991	22.63
32.00			2351		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 48 — 13 AUG 65 0030 CST

	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	19	-28	305
	4.0	209	20	-16	301
	8.0	294	24	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1909		0.25
0.35	18	-1		-.002531	0.35
0.50	35	11	1908	.020873	0.50
0.71	17	12		.068257	0.71
1.00	47	33	1920	.069435	1.00
1.41	30	21		.076679	1.41
2.00	84	53	1941	.069768	2.00
2.83	54	32		.072060	2.83
4.00	139	95	1973	.091196	4.00
5.66	85	63		.114325	5.66
8.00	222	159	2036	.119386	8.00
11.31	137	96		.133750	11.31
16.00	408	235	2132	.104093	16.00
22.63	271	139		.098583	22.63
32.00			2271		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4C

13 AUG 65 0045 CST

	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	1460	59	-18	261
	32	1643	24	-20	309
TEMPERATURE (0.01C)	2	1919	21	-.0	173

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1890		0.25
0.35	20	-1		-.002050	0.35
0.50	39	9	1889	.013765	0.50
0.71	19	10		.045565	0.71
1.00	52	30	1899	.051604	1.00
1.41	33	20		.060397	1.41
2.00	63	54	1919	.072859	2.00
2.83	50	34		.089368	2.83
4.00	136	95	1953	.095336	4.00
5.66	86	61		.108214	5.66
8.00	215	151	2014	.120984	8.00
11.31	129	90		.141548	11.31
16.00	379	216	2104	.111006	16.00
22.63	290	126		.105132	22.63
32.00			2230		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 48 — 13 AUG 65 0100 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	126	23	-41	----
	0.50	148	25	-49	359
	1.0	168	28	-63	358
	2.0	203	29	-50	325
	4.0	252	29	-55	347
	8.0	336	29	-27	345
	16.0	470	30	-49	375
	32.0	728	39	-58	234
WIND DIRECTION (0.1 DEG)	2	1491	62	3	309
	32	1641	26	-25	168
TEMPERATURE (0.01C)	2	1893	7	45	341

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1870		0.25
0.35	22	-2		-.003397	0.35
0.50	42	7	1868	.009238	0.50
0.71	20	9		.037040	0.71
1.00	55	25	1877	.038470	1.00
1.41	35	16		.042990	1.41
2.00	84	42	1893	.055382	2.00
2.83	49	26		.071232	2.83
4.00	133	79	1919	.082997	4.00
5.66	84	53		.096682	5.66
8.00	218	142	1972	.110813	8.00
11.31	134	89		.129912	11.31
16.00	392	216	2061	.103913	16.00
22.63	258	127		.099640	22.63
32.00			2188		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4E

13 AUG 65 0115 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	157	33	-36	286
	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	318
	32.0	748	40	-19	----
WIND DIRECTION (0.1 DEG)	2	1539	84	-20	312
	32	1658	27	-16	367
TEMPERATURE (0.01C)	2	1924	31	40	151

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1904		
0.35	22	-1		-.001694	0.25
0.50	50	8	1903	.007440	0.35
0.71	28	9		.018873	0.50
1.00	60	21	1912	.027124	0.71
1.41	32	12		.036528	1.00
2.00	83	31	1924	.041828	1.41
2.83	51	18		.048007	2.00
4.00	131	60	1943	.064932	2.83
5.66	80	41		.084114	4.00
8.00	211	108	1984	.089955	5.66
11.31	131	67		.102331	8.00
16.00	378	170	2051	.088002	11.31
22.63	247	103		.088238	16.00
32.00			2154		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4F — 13 AUG 65 0130 CST

	Z(M)	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
	8.0	370	36	-4	248
	16.0	467	39	-12	339
	32.0	729	3[illegible]	1	199
WIND DIRECTION (0.1 DEG)	2	1659	66	-3	311
	32	1702	28	-6	262
TEMPERATURE (0.01C)	2	1960	12	-53	209

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1940		0.25
0.35	24	1		.001424	0.35
0.50	52	9	1941	.007728	0.50
0.71	28	8		.016755	0.71
1.00	67	19	1949	.019655	1.00
1.41	39	11		.023745	1.41
2.00	88	30	1960	.035964	2.00
2.83	49	19		.051942	2.83
4.00	122	50	1979	.062324	4.00
5.66	73	31		.076301	5.66
8.00	190	77	2010	.079049	8.00
11.31	117	46		.088033	11.31
16.00	359	128	2056	.073459	16.00
22.63	242	82		.073197	22.63
32.00			2138		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 46

13 AUG 65 0146 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	140	25	-38	----
	0.50	160	26	-37	312
	1.0	186	28	-34	264
	2.0	222	30	-24	307
	4.0	270	34	-30	315
	8.0	343	34	-4	311
	16.0	464	30	-10	297
	32.0	701	30	-14	119
WIND DIRECTION (0.1 DEG)	2	1651	63	-10	326
	32	1744	27	-1	----
TEMPERATURE (0.01C)	2	1918	13	8	195

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25			1894		
0.35	20	1		.002050	0.25
0.50	46	10	1895	.010991	0.35
0.71	26	9		.021894	0.50
1.00	62	23	1904	.027829	0.71
1.41	36	14		.035523	1.00
2.00	84	33	1918	.043482	1.41
2.83	48	19		.054207	2.00
4.00	124	57	1937	.068865	2.83
5.66	76	38		.066404	4.00
8.00	194	92	1975	.090695	5.66
11.31	118	54		.101705	8.00
16.00	355	144	2029	.084587	11.31
22.63	237	90		.083829	16.00
32.00			2119		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4H

13 AUG 65 0200 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	132	22	-47	----
	0.50	153	24	-44	287
	1.0	179	28	-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	238
WIND DIRECTION (0.1 DEG)	2	1688	64	10	343
	32	1765	25	5	----
TEMPERATURE (0.01C)	2	1893	7	91	297

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1869		0.25
0.35	21	0		.000000	0.35
0.50	47	9	1869	.009485	0.50
0.71	26	9		.021917	0.71
1.00	58	24	1878	.033209	1.00
1.41	32	15		.048213	1.41
2.00	82	40	1893	.055349	2.00
2.83	50	25		.065762	2.83
4.00	128	68	1918	.077149	4.00
5.66	78	43		.092875	5.66
8.00	204	107	1961	.095426	8.00
11.31	126	64		.105749	11.31
16.00	367	160	2025	.087952	16.00
22.63	241	96		.086476	22.63
32.00			2121		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4J

13 AUG 65 0215 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	140	26	-31	136
	0.50	164	26	-38	323
	1.0	192	31	-50	326
	2.0	228	32	-22	283
	4.0	276	34	-35	265
	8.0	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	1781	22	16	----
TEMPERATURE (0.01C)	2	1898	6	-41	300

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	24	1	1875		0.25
0.50	52	10	1876	.001424	0.35
0.71	28	9		.008606	0.50
1.00	64	22	1885	.018893	0.71
1.41	36	13		.024997	1.00
2.00	84	35	1898	.033007	1.41
2.83	48	22		.046146	2.00
4.00	129	62	1920	.062805	2.83
5.66	81	40		.069252	4.00
8.00	211	105	1960	.080113	5.66
11.31	130	65		.087530	8.00
16.00	378	164	2025	.100896	11.31
22.63	248	99		.084976	16.00
32.00			2124	.084210	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4K

13 AUG 65 0230 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	123	23	-20	----
	0.50	143	24	-37	353
	1.0	168	27	-18	305
	2.0	203	27	-25	300
	4.0	252	28	-9	296
	8.0	337	26	8	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1834		0.25
0.35	20	1		.002060	0.35
0.50	45	11	1835	.012661	0.50
0.71	25	10		.026368	0.71
1.00	60	26	1845	.033658	1.00
1.41	35	16		.043035	1.41
2.00	84	40	1861	.052804	2.00
2.83	49	24		.065828	2.83
4.00	134	70	1885	.072541	4.00
5.66	85	46		.083753	5.66
8.00	210	117	1931	.098558	8.00
11.31	125	71		.119306	11.31
16.00	364	178	2002	.099531	16.00
22.63	239	107		.098060	22.63
32.00			2109		32.00

Table 3 (Continued)

WINBY ACRES RUN NO. 4L

13 AUG 65 0245 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	97	16		
	0.50	114	16	-33	----
	1.0	135	20	-46	289
	2.0	167	21	-22	260
	4.0	217	21	-21	293
	8.0	302	23	-20	270
	16.0	428	26	-27	302
	32.0	673	32	-31	326
				-24	296
WIND DIRECTION (0.1 DEG)	2	1709	65	3	344
	32	1833	24	6	----
TEMPERATURE (0.01C)	2	1813	13	-55	197

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	17	1	1780		0.25
0.50	38	13	1781	.002851	0.38
0.71	21	12		.021018	0.50
1.00	53	32	1793	.044926	0.71
1.41	32	20		.053182	1.00
2.00	82	52	1813	.064464	1.41
2.83	50	32		.072146	2.00
4.00	135	90	1845	.084421	2.83
5.66	85	58		.092004	4.00
8.00	211	137	1993	.105723	5.66
11.31	126	79		.114423	8.00
16.00	371	188	1982	.130756	11.31
22.63	245	109		.101268	16.00
32.00			2091	.095122	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4M

13 AUG 65 0300 CST

	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	152	19	-24	283
	4.0	203	20	-18	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1740		
0.35	19	2		.004576	0.25
0.50	40	15	1742	.021918	0.35
0.71	21	13		.048734	0.50
1.00	55	36	1755	.055627	0.71
1.41	34	23		.065753	1.00
2.00	85	60	1778	.077562	1.41
2.83	51	37		.093925	2.00
4.00	135	101	1815	.103349	2.83
5.66	84	64		.119564	4.00
8.00	215	144	1879	.115938	5.66
11.31	131	80		.122594	8.00
16.00	382	195	1959	.099143	11.31
22.63	251	115		.095681	16.00
32.00			2074		22.63
					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	86	21	21	----
	0.50	106	18	-35	339
	1.0	127	22	-34	264
	2.0	161	23	-32	275
	4.0	214	24	-22	306
	8.0	301	25	-1	292
	16.0	432	24	8	279
	32.0	675	24	7	339
WIND DIRECTION (0.1 DEG)	2	1787	77	-3	258
	32	1886	19	-23	282
TEMPERATURE (0.01C)	2	1771	6	44	258

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	20	3	1733		0.25
0.50	41	16	1736	.006200	0.35
0.71	21	13		.022261	0.50
1.00	55	35	1749	.048743	0.71
1.41	34	22		.054095	1.00
2.00	87	59	1771	.062908	1.41
2.83	53	37		.072820	2.00
4.00	140	103	1808	.086991	2.83
5.66	87	66		.098021	4.00
8.00	218	151	1874	.114966	5.66
11.31	131	85		.116262	8.00
16.00	374	202	1959	.130266	11.31
22.63	243	117		.107146	16.00
32.00			2076	.103657	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4P — 13 AUG 65 0330 CST

	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
	16.0	397	25	-98	479
	32.0	626	34	-65	335
WIND DIRECTION (0.1 DEG)	2	1886	58	-5	305
	32	1928	24	-31	315
TEMPERATURE (0.01C)	2	1740	9	79	342

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1688		0.25
0.35	24	4		.005750	0.35
0.50	43	21	1692	.026601	0.50
0.71	19	17		.077983	0.71
1.00	54	48	1709	.077055	1.00
1.41	35	31		.083752	1.41
2.00	93	79	1740	.085410	2.00
2.83	58	48		.094316	2.83
4.00	145	122	1788	.108306	4.00
5.66	87	74		.128971	5.66
8.00	207	155	1862	.134720	8.00
11.31	120	81		.148010	11.31
16.00	349	186	1943	.113384	16.00
22.63	229	105		.105030	22.63
32.00			2048		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		
	0.50	80	13	90	352
	1.0	99	15	-49	342
	2.0	135	16	-58	327
	4.0	190	17	-28	316
	8.0	278	21	-43	354
	16.0	406	26	-43	314
	32.0	647	30	-26	349
				-3	288
WIND DIRECTION (0.1 DEG)	2	1867	57	-28	287
	32	1950	22	9	----
TEMPERATURE (0.01C)	2	1733	8	-13	208

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	27	5	1676		0.25
0.50	46	24	1681	.005879	0.35
0.71	19	19		.026575	0.50
1.00	55	52	1700	.067192	0.71
1.41	36	33		.080493	1.00
2.00	91	85	1733	.064294	1.41
2.83	55	52		.009999	2.00
4.00	143	133	1785	.113645	2.83
5.66	88	81		.121398	4.00
8.00	216	168	1666	.137976	5.66
11.31	128	87		.134082	8.00
16.00	369	189	1953	.130686	11.31
22.63	241	102		.103041	16.00
32.00			2055	.092095	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 48 — 13 AUG 65 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	293	22	-39	351
	16.0	427	30	21	329
	32.0	692	26	21	305
WIND DIRECTION (0.1 DEG)	2	1927	77	-3	297
	32	1981	21	-28	----
TEMPERATURE (0.01C)	2	1735	8	-61	221

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1683		0.25
0.35	22	5		.006554	0.35
0.50	43	22	1688	.027869	0.50
0.71	21	17		.063646	0.71
1.00	56	47	1705	.070170	1.00
1.41	35	30		.081061	1.41
2.00	89	76	1735	.089737	2.00
2.83	54	46		.104294	2.83
4.00	144	122	1781	.109834	4.00
5.66	90	76		.123798	5.66
8.00	224	167	1857	.123953	8.00
11.31	134	91		.133349	11.31
16.00	399	209	1948	.097444	16.00
22.63	265	118		.088106	22.63
32.00			2066		32.00

Table 3 (Continued)

WINDY ACRES RUN 48. 48 — 13 AUG 65 0415 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.28	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	1819	72	15	273
	32	1959	23	-48	398
TEMPERATURE (0.01C)	2	1680	20	68	217

Δ(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1622		0.25
0.35	25	7		.009293	0.35
0.50	42	28	1629	.037255	0.50
0.71	17	21		.120593	0.71
1.00	53	51	1650	.085169	1.00
1.41	36	30		.076768	1.41
2.00	87	77	1680	.095324	2.00
2.83	51	47		.119690	2.83
4.00	128	119	1727	.135855	4.00
5.66	77	72		.160537	5.66
8.00	196	161	1799	.156390	8.00
11.31	119	89		.165705	11.31
16.00	386	221	1888	.110267	16.00
22.63	267	132		.097261	22.63
32.00			2020		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4T

13 AUG 65 0430 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	6	9	-286	----
	0.50	45	18	116	361
	1.0	64	27	131	335
	2.0	109	18	85	321
	4.0	162	21	53	275
	8.0	233	25	45	298
	16.0	344	31	21	254
	32.0	608	41	34	175
WIND DIRECTION (0.1 DEG)	2	1814	48	5	312
	32	1951	24	-75	449
TEMPERATURE (0.01C)	2	1676	11	-3	191

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1564		0.25
0.35	39	20		.010935	0.35
0.50	58	61	1584	.042617	0.50
0.71	19	41		.188711	0.71
1.00	64	92	1625	.105440	1.00
1.41	45	51		.083562	1.41
2.00	98	112	1676	.109286	2.00
2.83	53	61		.143823	2.83
4.00	124	128	1737	.155702	4.00
5.66	71	67		.175661	5.66
8.00	182	137	1804	.154363	8.00
11.31	111	70		.149822	11.31
16.00	375	197	1874	.104197	16.00
22.63	264	127		.095771	22.63
32.00			2001		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 40 — 13 AUG 65 0445 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	359
	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1519		0.25
0.35	36	19		.012209	0.35
0.50	54	59	1538	.047630	0.50
0.71	18	40		.205463	0.71
1.00	58	94	1578	.131377	1.00
1.41	40	54		.112155	1.41
2.00	102	129	1632	.116344	2.00
2.83	62	75		.129380	2.83
4.00	147	164	1707	.142058	4.00
5.66	85	89		.162905	5.66
8.00	205	178	1796	.158107	8.00
11.31	120	89		.162971	11.31
16.00	367	228	1885	.113188	16.00
22.63	267	139		.102416	22.63
32.00			2024		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4V — 13 AUG 65 0500 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC.	0.25	3	0	-3	289
	0.50	44	6	-44	467
	1.0	63	8	44	260
	2.0	102	11	46	----
	4.0	162	15	79	253
	8.0	251	18	109	366
	16.0	376	15	33	271
	32.0	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1454		0.25
0.35	41	15		.007449	0.35
0.50	60	54	1469	.035394	0.50
0.71	19	39		.160228	0.71
1.00	58	91	1508	.127496	1.00
1.41	39	52		.113869	1.41
2.00	99	129	1560	.123801	2.00
2.83	60	77		.142181	2.83
4.00	149	178	1637	.150402	4.00
5.66	89	101		.168994	5.66
8.00	214	205	1738	.167403	8.00
11.31	125	104		.175808	11.31
16.00	392	257	1842	.124523	16.00
22.63	267	153		.112867	22.63
32.00			1995		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4M

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	218	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	1965	19	58	288
TEMPERATURE (0.01C)	2	1527	11	-67	227

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1428		0.25
0.35	51	14		.004497	0.35
0.50	59	51	1442	.025299	0.50
0.71	18	37		.190706	0.71
1.00	53	85	1479	.142771	1.00
1.41	35	48		.130672	1.41
2.00	82	108	1527	.151297	2.00
2.83	47	60		.180820	2.83
4.00	111	144	1587	.219650	4.00
5.66	64	84		.272359	5.66
8.00	187	192	1671	.205742	8.00
11.31	123	108		.188976	11.31
16.00	413	286	1779	.125051	16.00
22.63	290	178		.111494	22.63
32.00			1957		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4X — 13 AUG 65 0530 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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	184	25	-27	162
	8.0	263	18	72	271
	16.0	400	17	-5	269
	32.0	722	32	31	191
WIND DIRECTION (0.1 DEG)	2	1838	163	-19	179
	32	1958	22	87	281
TEMPERATURE (0.01C)	2	1493	16	120	358

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1413		0.25
0.35	42	3		.001421	0.35
0.50	43	32	1416	.040913	0.50
0.71	1	29		----	0.71
1.00	53	77	1445	.129471	1.00
1.41	52	48		.059269	1.41
2.00	118	130	1493	.088008	2.00
2.83	66	82		.125413	2.83
4.00	165	205	1575	.141498	4.00
5.66	99	123		.106613	5.66
8.00	244	253	1698	.159099	8.00
11.31	145	130		.163460	11.31
16.00	459	326	1828	.115198	16.00
22.63	314	196		.104507	22.63
32.00			2024		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 67 — 13 AUG 65 0545 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC.	0.25	3	0	67	230
	0.50	39	21	-21	175
	1.0	5	0	-752	----
	2.0	72	36	72	237
	4.0	133	19	40	191
	8.0	212	14	66	348
	16.0	357	16	-44	375
	32.0	671	22	-44	351
WIND DIRECTION (0.1 DEG)	2	1656	257	-51	178
	32	1911	18	12	252
TEMPERATURE (0.01C)	2	1485	7	-43	226

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1417		0.25
0.35	38	4		.002579	0.35
0.50	2	30	1421	----	0.50
0.71	-34	26		.037592	0.71
1.00	33	64	1447	.277612	1.00
1.41	67	36		.028266	1.41
2.00	128	98	1485	.056417	2.00
2.83	61	60		.107501	2.83
4.00	140	148	1545	.142107	4.00
5.66	79	88		.167520	5.66
8.00	224	233	1633	.174108	8.00
11.31	145	145		.162677	11.31
16.00	459	372	1778	.131620	16.00
22.63	314	227		.121172	22.63
32.00			2005		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 42

13 AUG 65 0800 CST

	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	8	-543	----
	4.0	107	10	-22	282
	8.0	163	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 (0.01C)	2	1514	9	9	206

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1462		
0.35	6	2		.046332	0.25
0.50	2	23	1464	----	0.35
0.71	-4	21		----	0.50
1.00	-3	50	1485	----	0.71
1.41	1	29		----	1.00
2.00	102	72	1514	.065224	1.41
2.83	101	43		.028083	2.00
4.00	177	109	1557	.065465	2.83
5.66	76	66		.151964	4.00
8.00	216	172	1623	.138343	5.66
11.31	140	106		.143409	8.00
16.00	439	335	1729	.129719	11.31
22.63	299	229		.135034	16.00
32.00			1958		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 44A

13 AUG 65 0615 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0		
	0.50	42	31	-238	----
	1.0	32	40	29	120
	2.0	65	54	-81	167
	4.0	128	28	11	120
	8.0	178	20	-60	198
	16.0	276	18	-29	221
	32.0	566	23	18	272
				-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-THETA	THETA	RI	Z(M)
0.25					
0.35	39	13	1451		0.25
0.50	29	36	1464	.007136	0.35
0.71	-10	23		.101051	0.50
1.00	23	52	1487	.383866	0.71
1.41	33	29		.463758	1.00
2.00	96	74	1516	.088814	1.41
2.83	63	45		.075669	2.00
4.00	113	103	1551	.075529	2.83
5.66	50	58		.151788	4.00
8.00	148	158	1619	.308544	5.66
11.31	98	100		.270732	8.00
16.00	388	299	1719	.276176	11.31
22.63	290	199		.148349	16.00
32.00			1918	.124855	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	583	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1411		0.25
0.35	55	6		.001657	0.35
0.50	70	21	1417	.010133	0.50
0.71	15	15		.111475	0.71
1.00	50	51	1432	.096403	1.00
1.41	35	36		.098188	1.41
2.00	90	103	1468	.119990	2.00
2.83	55	67		.147732	2.83
4.00	133	162	1535	.172404	4.00
5.66	78	95		.207704	5.66
8.00	172	196	1630	.248883	8.00
11.31	94	101		.303062	11.31
16.00	336	299	1731	.197745	16.00
22.63	242	198		.178325	22.63
32.00			1929		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4CC 13 AUG 80 0845 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	6	11	-336	****
	0.50	43	10	-47	285
	1.0	39	26	10	179
	2.0	74	19	20	386
	4.0	122	21	-32	251
	8.0	205	26	-17	244
	16.0	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	1548	32	-21	177

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1522		0.25
0.35	37	-5		-.003041	0.35
0.50	33	4	1517	.008651	0.50
0.71	-4	9		.937255	0.71
1.00	31	29	1526	.142177	1.00
1.41	35	20		.054387	1.41
2.00	83	55	1546	.075165	2.00
2.83	48	35		.101111	2.83
4.00	131	107	1561	.117195	4.00
5.66	83	72		.138863	5.66
8.00	210	169	1653	.160637	8.00
11.31	127	117		.192117	11.31
16.00	372	299	1770	.161196	16.00
22.63	245	182		.159761	22.63
32.00			1952		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 488 — 13 AUG 65 0700 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	20	111
	0.50	40	9	-55	287
	1.0	10	19	-309	----
	2.0	75	9	-60	354
	4.0	117	10	-45	288
	8.0	172	9	47	320
	16.0	285	10	-19	345
	32.0	557	22	-14	----
WIND DIRECTION (0.1 DEG)	2	1632	191	54	243
	32	1893	24	138	386
TEMPERATURE (0.01C)	2	1593	6	-21	250

Z(M)	A-SPEED	A-THETA	THETA	Ri	Z(M)
0.25			1565		0.25
0.35	37	-5		-.003038	0.35
0.50	7	5	1560	.239955	0.50
0.71	-30	10		.018484	0.71
1.00	35	33	1570	.126721	1.00
1.41	65	23		.018105	1.41
2.00	107	54	1593	.044338	2.00
2.83	42	31		.116790	2.83
4.00	97	79	1624	.157653	4.00
5.66	55	48		.210611	5.66
8.00	168	133	1672	.176573	8.00
11.31	113	85		.176292	11.31
16.00	366	306	1757	.153095	16.00
22.63	272	221		.157345	22.63
32.00			1978		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4EE

13 AUG 65 0715 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	51	45	-24	140
	0.50	85	27	-78	261
	1.0	91	29	-73	273
	2.0	110	26	-79	294
	4.0	144	19	-61	339
	8.0	199	15	-104	411
	16.0	291	16	-51	261
	32.0	483	43	18	140
WIND DIRECTION (0.1 DEG)	2	1321	59	31	292
	32	1772	60	62	232
TEMPERATURE (0.01C)	2	1620	34	37	176

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	34	-3	1626		0.25
0.50	40	-9	1623	-.002152	0.35
0.71	6	-6		-.013207	0.50
1.00	25	-3	1617	-.276800	0.71
1.41	19	3		-.022537	1.00
2.00	53	17	1620	.027603	1.41
2.83	34	14		.056845	2.00
4.00	89	52	1634	.080435	2.83
5.66	55	38		.123221	4.00
8.00	147	121	1672	.166709	5.66
11.31	92	83		.209798	8.00
16.00	264	255	1755	.259711	11.31
22.63	192	172		.235935	16.00
32.00			1927	.246016	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4FF — 13 AUG 65 0730 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	165	33	-70	220
	0.50	165	34	-91	420
	1.0	181	43	-73	346
	2.0	201	47	-59	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1915		0.25
0.35	20	-10		-.020546	0.35
0.50	36	-20	1905	-.035891	0.50
0.71	16	-10		-.004254	0.71
1.00	36	-29	1895	-.104154	1.00
1.41	20	-19		-.156347	1.41
2.00	38	-33	1876	-.212836	2.00
2.83	18	-14		-.284613	2.83
4.00	42	-26	1862	-.274677	4.00
5.66	24	-12		-.274576	5.66
8.00	71	-12	1850	-.088740	8.00
11.31	47	0		.000000	11.31
16.00	180	69	1850	.158576	16.00
22.63	133	69		.205411	22.63
32.00			1919		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	288
	0.50	229	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	296
	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	28	-19	2155		0.25
0.50	61	-31		-.019765	0.35
0.71	33	-12	2136	-.019223	0.50
1.00	66	-38		-.017981	0.71
1.41	33	-26	2124	-.040292	1.00
2.00	58	-46		-.077985	1.41
2.83	25	-20	2098	-.126393	2.00
4.00	49	-33		-.209212	2.83
5.66	24	-13	2078	-.254239	4.00
8.00	42	-26		-.295274	5.66
11.31	18	-13	2065	-.545577	8.00
16.00	37	-16		-----	11.31
22.63	19	-3	2052	-.865429	16.00
32.00				-.435194	22.63
			2049		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 4HH — 13 AUG 65 0800 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	262	57	-48	322
	0.50	296	61	-48	339
	1.0	350	76	-17	291
	2.0	398	85	-11	265
	4.0	436	83	-8	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

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2280		0.25
0.35	34	-15		-.010535	0.35
0.50	88	-28	2265	-.008307	0.50
0.71	54	-13		-.007244	0.71
1.00	102	-36	2252	-.015911	1.00
1.41	48	-23		-.032463	1.41
2.00	86	-42	2229	-.052257	2.00
2.83	38	-19		-.085642	2.83
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	-.259899	16.00
22.63	40	-7		-.228129	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	506	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2376		
0.35	39	-11		-.005852	0.25
0.50	101	-33	2365	-.007409	0.35
0.71	62	-22		-.009269	0.50
1.00	117	-44	2343	-.014733	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
8.00	91	-40	2279	-.177519	5.66
11.31	37	-21		-.398714	8.00
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)

WINDY ACRES RUN NO. 4KK — 13 AUG 65 0830 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	342	64	-22	296
	0.50	385	71	-26	292
	1.0	443	83	-5	263
	2.0	500	81	-6	286
	4.0	553	81	14	292
	8.0	613	86	20	288
	16.0	670	89	34	259
	32.0	727	76	28	262
WIND DIRECTION (0.1 DEG)	2	1751	90	-9	299
	32	1802	53	6	643
TEMPERATURE (0.01C)	2	2387	31	-5	235

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2448		0.25
0.35	43	-16		-.006986	0.35
0.50	101	-39	2432	-.008736	0.50
0.71	58	-23		-.011049	0.71
1.00	115	-45	2409	-.015562	1.00
1.41	57	-22		-.021903	1.41
2.00	110	-46	2387	-.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	-18	270
	0.50	408	75	-15	257
	1.0	474	85	2	266
	2.0	542	92	2	273
	4.0	597	92	11	252
	8.0	667	90	27	274
	16.0	717	82	-20	261
	32.0	758	71	-5	249
WIND DIRECTION (0.1 DEG)	2	1782	98	-36	321
	32	1813	56	-15	311
TEMPERATURE (0.01C)	2	2445	18	10	204

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	46	-29	2529		0.25
0.50	112	-54	2500	-.011039	0.35
0.71	66	-25		-.009813	0.50
1.00	134	-55	2475	-.009254	0.71
1.41	68	-30		-.013979	1.00
2.00	123	-64	2445	-.020943	1.41
2.83	55	-34		-.038654	2.00
4.00	125	-59	2411	-.072645	2.83
5.66	70	-25		-.069069	4.00
8.00	120	-49	2386	-.066017	5.66
11.31	50	-24		-.124602	8.00
16.00	91	-13	2362	-.248641	11.31
22.63	41	11		-.114980	16.00
32.00			2373	.339018	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5A — 13 AUG 65 1950 CST

	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	466	19	5	361
	32.0	609	29	-33	152
WIND DIRECTION (0.1 DEG)	2	1417	55	-20	190
	32	1517	18	-11	281
TEMPERATURE (0.01C)	2	2429	34	28	222

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2393		0.25
0.35	17	3		.008393	0.35
0.50	42	12	2396	.015558	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	58		.098822	5.66
8.00	206	130	2522	.111565	8.00
11.31	119	72		.130850	11.31
16.00	262	142	2594	.150344	16.00
22.63	143	70		.175777	22.63
32.00			2664		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 58 — 13 AUG 65 2005 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	134	26	-98	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2294		0.25
0.35	20	3		.006083	0.35
0.50	48	14	2297	.013942	0.50
0.71	28	11		.022764	0.71
1.00	61	35	2308	.043143	1.00
1.41	33	24		.071471	1.41
2.00	90	61	2332	.069023	2.00
2.83	57	37		.073788	2.83
4.00	154	105	2369	.081018	4.00
5.66	97	68		.093483	5.66
8.00	228	163	2437	.114479	8.00
11.31	131	95		.142813	11.31
16.00	289	179	2532	.156085	16.00
22.63	158	84		.173097	22.63
32.00			2616		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5C — 13 AUG 65 2020 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	185	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
	8.0	421	42	-19	281
	16.0	549	40	-12	257
	32.0	727	37	-16	----
WIND DIRECTION (0.1 DEG)	2	1416	68	0	320
	32	1497	19	24	----
TEMPERATURE (0.01C)	2	2330	24	35	152

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2301		0.25
0.35	24	3		.004224	0.35
0.50	51	13	2304	.009508	0.50
0.71	32	10		.015838	0.71
1.00	71	26	2314	.023655	1.00
1.41	39	16		.034113	1.41
2.00	96	42	2330	.041777	2.00
2.83	57	26		.051864	2.83
4.00	141	70	2356	.064482	4.00
5.66	84	44		.080732	5.66
8.00	212	112	2400	.091117	8.00
11.31	128	68		.107259	11.31
16.00	306	166	2468	.129308	16.00
22.63	178	98		.159415	22.63
32.00			2566		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 58

13 AUG 65 2035 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	185	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 (0.01C)	2	2281	32	-13	133

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2255		
0.35	23	3		.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	92	23		.055221	2.00
4.00	136	62	2304	.061501	2.83
5.66	84	39		.071690	4.00
8.00	212	100	2343	.081817	5.66
11.31	128	61		.096415	8.00
16.00	339	163	2404	.108148	11.31
22.63	207	102		.122942	16.00
32.00			2506		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 9E

13 AUG 65 2050 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	145	24	-52	274
	0.50	162	26	-46	313
	1.0	188	29	-34	285
	2.0	220	29	-18	278
	4.0	272	30	-20	287
	8.0	360	28	-2	311
	16.0	495	23	45	422
	32.0	707	18	-8	----
WIND DIRECTION (0.1 DEG)	2	1613	58	-13	299
	32	1489	14	-8	----
TEMPERATURE (0.01C)	2	2178	20	91	235

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
			2147		0.25
0.35	17	1		.002811	0.35
0.50	53	10	2148	.012472	0.50
0.71	26	9		.021709	0.71
1.00	58	21	2157	.038376	1.00
1.41	32	19		.060485	1.41
2.00	84	46	2176	.060076	2.00
2.83	52	37		.065052	2.83
4.00	140	77	2203	.072312	4.00
5.66	88	50		.084014	5.66
8.00	223	129	2247	.095306	8.00
11.31	135	79		.112556	11.31
16.00	347	206	2332	.125302	16.00
22.63	212	127		.140225	22.63
32.00			2459		32.00

Table 3 (Continued)

WINDY ACRES RUN NO: 5F

13 AUG 65 2105 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
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 DEG)	2	1340	64	-16	325
	32	1450	22	29	257
TEMPERATURE (0.01C)	2	2103	31	-27	171

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35			2073		
0.50	14	2		.008330	0.25
0.71	39	10	2075	.015198	0.35
1.00	75	8		.020924	0.50
1.41	59	28	2083	.037179	0.71
2.00	34	20		.056542	1.00
2.83	91	54	2103	.060232	1.41
4.00	57	34		.068336	2.00
5.66	150	94	2137	.077062	2.83
8.00	93	60		.090453	4.00
11.31	236	156	2197	.103079	5.66
16.00	143	96		.122093	8.00
22.63	364	227	2293	.125662	11.31
32.00	221	131		.138968	16.00
			2424		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5G

13 AUG 65 2120 CST

	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	1464	16	0	----
TEMPERATURE (0.01C)	2	2050	10	-7	227

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2019		0.25
0.35	17	1		.002824	0.35
0.50	40	11	2020	.015922	0.50
0.71	23	10		.030961	0.71
1.00	62	30	2030	.036137	1.00
1.41	39	20		.043050	1.41
2.00	96	56	2050	.056225	2.00
2.83	57	36		.072483	2.83
4.00	155	105	2086	.080743	4.00
5.66	98	63		.093624	5.66
8.00	265	205	2155	.107508	8.00
11.31	167	136		.126908	11.31
16.00	395	293	2291	.137746	16.00
22.63	228	157		.156414	22.63
32.00			2448		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5H

13 AUG 65 2135 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
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	251
	4.0	255	31	-20	260
	8.0	351	31	-3	272
	16.0	512	26	18	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1998		
0.35	16	1			0.25
0.50	40	10	1999	.003189	0.35
0.71	24	9		.014487	0.50
1.00	57	28	2008	.025607	0.71
1.41	33	19		.039935	1.00
2.00	88	53	2027	.057165	1.41
2.83	55	34		.063379	2.00
4.00	151	100	2061	.073587	2.83
5.66	96	66		.081098	4.00
8.00	257	189	2127	.093608	5.66
11.31	161	123		.105508	8.00
16.00	388	288	2250	.123638	11.31
22.63	227	165		.140472	16.00
32.00			2415	.166040	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5J

13 AUG 65 2150 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	61	37	46	200
	0.50	91	19	-77	299
	1.0	113	20	-91	347
	2.0	143	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	----
WIND 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	RI	Z(M)
0.25			1893		0.25
0.35	30	3		.002738	0.35
0.50	52	19	1896	.016341	0.50
0.71	22	16		.054364	0.71
1.00	54	50	1912	.079702	1.00
1.41	32	34		.109119	1.41
2.00	89	83	1946	.097295	2.00
2.83	57	49		.098985	2.83
4.00	151	134	1995	.108895	4.00
5.66	94	85		.125978	5.66
8.00	255	220	2080	.124947	8.00
11.31	161	135		.135887	11.31
16.00	376	282	2215	.146716	16.00
22.63	215	147		.165151	22.63
32.00			2362		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5K

13 AUG 65 2205 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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
	8.0	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1805		
0.35	47	3		.001119	0.25
0.50	69	24	1808	.011758	0.35
0.71	22	21		.071563	0.50
1.00	60	66	1829	.085449	0.71
1.41	38	45		.102684	1.00
2.00	108	117	1874	.093337	1.41
2.83	70	72		.096636	2.00
4.00	186	197	1946	.105631	2.83
5.66	116	125		.121765	4.00
8.00	267	258	2071	.133771	5.66
11.31	151	133		.152244	8.00
16.00	371	259	2204	.136515	11.31
22.63	220	126		.135300	16.00
32.00			2330		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
	16.0	518	23	-12	274
	32.0	740	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1830		0.25
0.35	15	C		.000000	0.35
0.50	40	16	1830	.023310	0.50
0.71	25	16		.042193	0.71
1.00	61	47	1846	.058848	1.00
1.41	36	31		.078790	1.41
2.00	100	88	1877	.081886	2.00
2.83	64	57		.091537	2.83
4.00	177	162	1934	.095983	4.00
5.66	113	105		.107870	5.66
8.00	273	242	2039	.120109	8.00
11.31	160	137		.139818	11.31
16.00	382	264	2176	.133305	16.00
22.63	222	127		.134053	22.63
32.00			2303		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5M

13 AUG 65 2235 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	149	28	-82	252
	0.50	168	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1918		0.25
0.35	19	2		.004544	0.35
0.50	49	15	1920	.014518	0.50
0.71	30	13		.023736	0.71
1.00	66	31	1933	.033066	1.00
1.41	36	18		.045623	1.41
2.00	91	48	1951	.053821	2.00
2.83	58	30		.065103	2.83
4.00	148	91	1981	.077035	4.00
5.66	93	61		.092449	5.66
8.00	240	158	2042	.101481	8.00
11.31	147	97		.117356	11.31
16.00	366	223	2139	.122755	16.00
22.63	219	126		.136840	22.63
32.00			2265		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5N

13 AUG 65 2250 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	137	22	-56	----
	0.50	154	23	-47	305
	1.0	182	26	-36	308
	2.0	214	27	-10	267
	4.0	266	28	-9	285
	8.0	351	31	12	304
	16.0	480	31	-21	325
	32.0	685	38	-5	----
WIND DIRECTION (0.1 DEG)	2	1583	62	-9	327
	32	1650	27	-5	338
TEMPERATURE (0.01C)	2	1979	10	27	240

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1944		0.25
0.35	17	3		.006515	0.35
0.50	45	15	1947	.017198	0.50
0.71	28	12		.025131	0.71
1.00	60	32	1959	.041260	1.00
1.41	32	20		.064102	1.41
2.00	84	49	1979	.064422	2.00
2.83	52	29		.070338	2.83
4.00	137	77	2008	.076021	4.00
5.66	85	48		.087025	5.66
8.00	214	121	2056	.097734	8.00
11.31	129	73		.114684	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	SKEWNESS	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	256	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	18	3	1904		0.25
0.50	42	14	1907	.007607	0.35
0.71	24	11		.018450	0.50
1.00	57	30	1918	.031398	0.71
1.41	33	19		.042921	1.00
2.00	86	46	1937	.057341	1.41
2.83	53	29		.060292	2.00
4.00	136	79	1966	.067806	2.83
5.66	83	50		.079257	4.00
8.00	214	122	2016	.095205	5.66
11.31	131	72		.098680	8.00
16.00	358	194	2088	.109837	11.31
22.63	227	122		.111783	16.00
32.00			2210	.123544	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 50 — 13 AUG 65 2320 CST

	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	184	23	-39	314
	4.0	236	23	-18	298
	8.0	322	26	-22	263
	16.0	437	34	73	255
	32.0	588	88	15	159
WIND DIRECTION (0.1 DEG)	2	1423	166	17	187
	32	1584	115	46	172
TEMPERATURE (0.01C)	2	1833	41	9	155

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1804		0.25
0.35	16	3		.009658	0.35
0.50	37	11	1807	.018746	0.50
0.71	21	8		.029930	0.71
1.00	54	26	1815	.041591	1.00
1.41	33	18		.054518	1.41
2.00	85	50	1833	.064515	2.00
2.83	52	32		.077999	2.83
4.00	138	89	1865	.087011	4.00
5.66	86	57		.101430	5.66
8.00	201	142	1922	.130590	8.00
11.31	115	85		.168759	11.31
16.00	266	198	2007	.207298	16.00
22.63	151	113		.259364	22.63
32.00			2120		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 5R

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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1766		0.25
0.35	17	1		.002651	0.35
0.50	39	13	1767	.010964	0.50
0.71	22	12		.040958	0.71
1.00	56	32	1779	.047659	1.00
1.41	34	20		.057133	1.41
2.00	88	56	1799	.067489	2.00
2.83	54	36		.081457	2.83
4.00	152	109	1835	.087903	4.00
5.66	98	73		.100109	5.66
8.00	243	198	1908	.124567	8.00
11.31	145	125		.150061	11.31
16.00	315	224	2033	.167221	16.00
22.63	170	99		.179165	22.63
32.00			2132		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 55

13 AUG 69 2350 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	27	28	-50	154
	0.50	66	13	16	320
	1.0	88	14	43	397
	2.0	117	14	-12	243
	4.0	171	13	-26	316
	8.0	256	20	-19	238
	16.0	399	36	21	186
	32.0	666	33	57	----
WIND DIRECTION (0.1 DEG)	2	1478	85	16	196
	32	1719	11	38	311
TEMPERATURE (0.01C)	2	1698	34	-23	172

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1639		0.25
0.35	39	5		.002727	0.35
0.50	59	24	1644	.016174	0.50
0.71	20	19		.078788	0.71
1.00	51	54	1663	.097336	1.00
1.41	31	35		.120719	1.41
2.00	85	91	1698	.117933	2.00
2.83	54	56		.127104	2.83
4.0	139	146	1754	.141175	4.00
5.66	85	90		.164466	5.66
8.00	228	221	1844	.158296	8.00
11.31	143	131		.168508	11.31
16.00	410	313	1975	.137969	16.00
22.63	267	182		.133579	22.63
32.00			2157		32.00

Table 3 (Continued)

WIND ACROSS RUN AD. 51

14 AUG 65 0005 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	72	179
	0.50	45	7	-19	255
	1.0	63	10	-10	243
	2.0	87	10	-5	----
	4.0	101	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
	32	1728	12	-125	559
TEMPERATURE (0.01C)	2	1637	6	32	181

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1560		
0.35	42	8			0.25
0.50	60	37	1588	-.003773	0.35
0.71	16	29		-.024170	0.50
1.00	52	59	1597	-.148634	0.71
1.41	34	40		-.119911	1.00
2.00	98	109	1637	-.114940	1.41
2.83	84	69		-.106470	2.00
4.00	163	193	1706	-.111700	2.83
5.66	99	124		-.135862	4.00
8.00	217	230	1830	-.167208	5.66
11.31	118	106		-.182133	8.00
16.00	372	287	1936	-.200436	11.31
22.63	254	181		-.153831	16.00
32.00			2117	-.146989	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6A

14 AUG 65 0020 CST

	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	87	10	14	275
	4.0	146	9	17	335
	8.0	235	11	-12	297
	16.0	358	18	-17	320
	32.0	630	17	-33	----
WIND DIRECTION (0.1 DEG)	2	1618	93	-18	150
	32	1767	12	8	270
TEMPERATURE (0.01C)	2	1656	7	-105	458

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1562		0.25
0.35	35	16		.010863	0.35
0.50	49	49	1578	.047981	0.50
0.71	14	33		.279854	0.71
1.00	49	78	1611	.152579	1.00
1.41	35	45		.121954	1.41
2.00	94	112	1656	.118844	2.00
2.83	59	67		.127547	2.83
4.00	148	170	1723	.145134	4.00
5.66	89	103		.171824	5.66
8.00	212	200	1826	.165943	8.00
11.31	123	97		.168862	11.31
16.00	395	287	1923	.136457	16.00
22.63	272	190		.134588	22.63
32.00			2113		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 68

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	269
	1.0	79	6	14	308
	2.0	115	7	21	268
	4.0	174	7	-6	277
	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-THETA	THETA	RI	Z(M)
0.25			1522		
0.35	52	21		-.006467	0.25
0.50	76	61	1543	-.024857	0.35
0.71	24	40		-.115552	0.50
1.00	60	91	1583	-.118532	0.71
1.41	36	51		-.130756	1.00
2.00	95	119	1634	-.123729	1.41
2.83	59	68		-.129546	2.00
4.00	143	153	1702	-.140071	2.83
5.66	84	85		-.159349	4.00
8.00	220	203	1787	-.156508	5.66
11.31	136	118		-.168183	8.00
16.00	422	335	1905	-.139595	11.31
22.63	286	217		-.139048	16.00
32.00			2122		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6C — 14 AUG 65 0050 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	98	230
	0.50	59	6	-78	416
	1.0	81	6	3	354
	2.0	117	7	-38	338
	4.0	178	8	-15	273
	8.0	270	10	-6	286
	16.0	410	13	-33	451
	32.0	671	11	-22	----
WIND DIRECTION (0.1 DEG)	2	1556	51	124	471
	32	1764	10	109	439
TEMPERATURE (0.01C)	2	1593	8	-35	271

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1480		0.25
0.35	56	19		.005053	0.35
0.50	78	59	1499	.022859	0.50
0.71	22	40		.137727	0.71
1.00	58	94	1539	.131553	1.00
1.41	36	54		.138650	1.41
2.00	97	132	1593	.131809	2.00
2.83	61	78		.139183	2.83
4.00	153	174	1671	.139289	4.00
5.66	92	96		.150161	5.66
8.00	232	213	1767	.147795	8.00
11.31	140	117		.157476	11.31
16.00	401	331	1884	.152870	16.00
22.63	261	214		.164780	22.63
32.00			2098		32.00

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
	1.0	90	26	-110	412
	2.0	126	28	-118	414
	4.0	183	32	-87	336
	8.0	268	41	-4	199
	16.0	393	46	-15	222
	32.0	629	68	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1463		
0.35	37	10		.006097	0.25
0.50	57	35	1473	.025421	0.35
0.71	20	25		.104277	0.50
1.00	56	72	1498	.108238	0.71
1.41	36	47		.120864	1.00
2.00	93	115	1545	.125146	1.41
2.83	57	68		.139224	2.00
4.00	142	164	1613	.152696	2.83
5.66	85	96		.176264	4.00
8.00	210	209	1709	.177365	5.66
11.31	125	113		.191180	8.00
16.00	361	295	1822	.166570	11.31
22.63	236	182		.171871	16.00
32.00			2004		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6E

14 AUG 65 0120 CST

	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
	8.0	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			1474		0.25
0.35	14	1		.004244	0.35
0.50	34	15	1475	.030621	0.50
0.71	20	14		.056407	0.71
1.00	51	42	1489	.078169	1.00
1.41	31	28		.097168	1.41
2.00	84	78	1517	.104159	2.00
2.83	53	50		.118562	2.83
4.00	146	145	1567	.127885	4.00
5.66	93	95		.145944	5.66
8.00	219	247	1662	.192890	8.00
11.31	126	152		.253317	11.31
16.00	334	331	1814	.221147	16.00
22.63	208	179		.217684	22.63
32.00			1993		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6F

14 AUG 65 0135 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	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	246
	16.0	462	22	61	368
	32.0	686	18	30	----
WIND DIRECTION (0.1 DEG)	2	1477	53	46	400
	32	1696	8	32	561
TEMPERATURE (0.01C)	2	1493	8	-16	228

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	18	-1	1445	-.002567	0.25
0.50	35	15	1444	.028921	0.35
0.71	17	16		.092479	0.50
1.00	50	49	1460	.092540	0.71
1.41	33	33		.101153	1.00
2.00	89	85	1493	.101196	1.41
2.83	56	52		.110534	2.00
4.00	162	157	1545	.112532	2.83
5.66	106	105		.124238	4.00
8.00	284	319	1650	.148021	5.66
11.31	178	214		.178565	8.00
16.00	402	419	1864	.192967	11.31
22.63	224	205		.214487	16.00
32.00			2069		22.63
					32.00

Table 3 (Continued)

WINBY ACRES RUN NO. 6G

14 AUG 65 0150 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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	226
	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	1688	21	-16	366
TEMPERATURE (0.01C)	2	1498	25	71	198

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1447		0.25
0.35	28	1		.001060	0.35
0.50	47	19	1448	.020314	0.50
0.71	19	18		.083275	0.71
1.00	55	50	1466	.078026	1.00
1.41	36	32		.082404	1.41
2.00	93	81	1498	.088308	2.00
2.83	57	49		.100523	2.83
4.00	159	142	1547	.105672	4.00
5.66	102	93		.118858	5.66
8.00	276	288	1640	.141579	8.00
11.31	174	195		.170399	11.31
16.00	393	406	1835	.195763	16.00
22.63	219	211		.231163	22.63
32.00			2046		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6H

14 AUG 65 0205 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
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	257
	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1465		0.25
0.35	31	6		.005210	0.35
0.50	50	24	1471	.022655	0.50
0.71	19	18		.083210	0.71
1.00	46	47	1489	.104778	1.00
1.41	27	29		.132667	1.41
2.00	75	71	1518	.118949	2.00
2.83	48	42		.121435	2.83
4.00	125	115	1560	.138450	4.00
5.66	77	73		.163704	5.66
8.00	215	207	1633	.167905	8.00
11.31	133	134		.186420	11.31
16.00	383	319	1767	.162285	16.00
22.63	245	185		.162401	22.63
32.00			1952		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6J — 14 AUG 65 0220 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	22	25	-70	163
	0.50	67	9	9	257
	1.0	92	11	10	288
	2.0	129	12	42	261
	4.0	191	9	28	268
	8.0	255	15	-16	252
	16.0	358	23	-44	286
	32.0	601	20	10	279
WIND DIRECTION (0.1 DEG)	2	1390	76	48	200
	32	1699	22	43	288
TEMPERATURE (0.01C)	2	1471	23	32	200

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1382		0.25
0.35	45	9		.003718	0.35
0.50	70	37	1391	.017868	0.50
0.71	25	28		.074956	0.71
1.00	62	80	1419	.098377	1.00
1.41	37	52		.126928	1.41
2.00	99	145	1471	.139539	2.00
2.83	62	93		.161272	2.83
4.00	126	191	1564	.226317	4.00
5.66	64	98		.317919	5.66
8.00	167	184	1662	.247462	8.00
11.31	103	86		.214751	11.31
16.00	348	237	1748	.147842	16.00
22.63	243	151		.134921	22.63
32.00			1899		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6K

14 AUG 65 0235 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	56	15	----	768
	0.50	73	7	-32	296
	1.0	96	8	-23	303
	2.0	133	9	-11	333
	4.0	197	9	15	255
	8.0	264	9	-12	314
	16.0	348	14	-34	306
	32.0	577	21	16	----
WIND DIRECTION (0.1 DEG)	2	1282	35	-15	305
	32	1678	16	2	288
TEMPERATURE (0.01C)	2	1423	7	-120	454

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	17	7	1347		0.25
0.50	40	30	1354	.020301	0.35
0.71	23	23		.044428	0.50
1.00	80	69	1377	.072845	0.71
1.41	37	46		.090739	1.00
2.00	101	145	1423	.112459	1.41
2.83	84	99		.134264	2.00
4.00	131	216	1522	.161365	2.83
5.66	67	117		.237063	4.00
8.00	151	189	1639	.346704	5.66
11.31	84	72		.311326	8.00
16.00	313	230	1711	.270612	11.31
22.63	229	158		.175489	16.00
32.00			1869	.159148	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6L

14 AUG 65 0250 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	54	20	----	465
	0.50	7[illegible]	9	-46	263
	1.0	9[illegible]	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1345		0.25
0.35	21	-8		-.015208	0.35
0.50	40	17	1337	.025185	0.50
0.71	19	25		.116094	0.71
1.00	48	56	1362	.115169	1.00
1.41	29	31		.123466	1.41
2.00	84	122	1393	.163484	2.00
2.83	55	91		.201080	2.83
4.00	125	195	1484	.235384	4.00
5.66	70	104		.282774	5.66
8.00	154	205	1588	.324970	8.00
11.31	84	101		.360065	11.31
16.00	263	241	1689	.260842	16.00
22.63	179	140		.231052	22.63
32.00			1829		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6M

14 AUG 65 0305 CST

	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	71	24	-39	189
	8.0	265	33	-26	184
	16.0	3[illegible]9	36	12	192
	32.0	[illegible]	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	40	3	1334		0.25
0.50	59	34	1337	-.001572	0.35
0.71	19	31		-.023152	0.50
1.00	56	79	1368	-.143946	0.71
1.41	37	48		-.119307	1.00
2.00	105	130	1416	-.117381	1.41
2.83	68	82		-.111448	2.00
4.00	160	180	1498	-.118461	2.83
5.66	92	98		-.132551	4.00
8.00	217	208	1596	-.154203	5.66
11.31	125	110		-.165972	8.00
16.00	346	290	1706	-.186841	11.31
22.63	221	160		-.181113	16.00
32.00			1866	-.194620	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6N — 14 AUG 65 0320 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	69	17	86	414
	0.50	85	16	24	235
	1.0	106	17	-11	257
	2.0	142	20	2	219
	4.0	206	24	-10	205
	8.0	311	28	7	203
	16.0	435	31	-37	246
	32.0	652	26	20	----
WIND DIRECTION (0.1 DEG)	2	1443	43	1	264
	32	1702	16	-15	275
TEMPERATURE (0.01C)	2	1378	14	-37	202

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1321		0.25
0.35	16	0		.000000	0.35
0.50	37	19	1321	.032921	0.50
0.71	21	19		.072269	0.71
1.00	57	57	1340	.083174	1.00
1.41	36	38		.098276	1.41
2.00	100	103	1378	.097502	2.00
2.83	64	65		.106182	2.83
4.00	169	192	1443	.126865	4.00
5.66	105	127		.153621	5.66
8.00	229	247	1570	.177168	8.00
11.31	124	120		.207274	11.31
16.00	341	285	1690	.183432	16.00
22.63	217	165		.185195	22.63
32.00			1855		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6P

14 AUG 65 0335 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	58	706
	0.50	58	6	-15	320
	1.0	79	8	6	247
	2.0	115	10	-6	----
	4.0	178	12	-57	261
	8.0	262	14	-50	298
	16.0	379	20	-30	297
	32.0	619	16	26	----
WIND DIRECTION (0.1 DEG)	2	1452	52	-65	240
	32	1739	20	51	307
TEMPERATURE (0.01C)	2	1331	12	21	233

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1254		0.25
0.35	55	6		.002223	0.35
0.50	76	35	1282	.014403	0.50
0.71	21	27		.102899	0.71
1.00	57	69	1289	.100864	1.00
1.41	36	42		.108805	1.41
2.00	99	122	1331	.117996	2.00
2.83	63	80		.135050	2.83
4.00	147	193	1411	.168825	4.00
5.66	84	113		.213869	5.66
8.00	201	225	1524	.209814	8.00
11.31	117	112		.217676	11.31
16.00	357	275	1636	.161776	16.00
22.63	240	163		.149848	22.63
32.00			1799		32.00

Table 3 (Continued)

WINBY ACRES RUN NO. 60 — 14 AUG 65 0350 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	3	0	4	----
	0.50	61	10	-30	301
	1.0	83	12	1	217
	2.0	120	13	33	267
	4.0	184	15	7	282
	8.0	284	18	37	322
	16.0	426	22	3	252
	32.0	653	25	-2	----
WIND DIRECTION (0.1 DEG)	2	1575	105	20	244
	32	1812	35	10	135
TEMPERATURE (0.01C)	2	1295	8	18	209

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1216		0.25
0.35	58	4		.001000	0.35
0.50	80	32	1220	.011901	0.50
0.71	22	28		.097373	0.71
1.00	59	75	1248	.102466	1.00
1.41	37	47		.115420	1.41
2.00	101	125	1295	.116315	2.00
2.83	64	78		.127756	2.83
4.00	164	195	1373	.137210	4.00
5.66	100	117		.156442	5.66
8.00	242	229	1490	.147497	8.00
11.31	142	112		.147951	11.31
16.00	369	274	1602	.151055	16.00
22.63	227	162		.166674	22.63
32.00			1764		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6R

14 AUG 65 0405 CST

	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	250	36	-108	381
	16.0	416	44	-122	362
	32.0	690	73	-97	254
WIND DIRECTION (0.1 DEG)	2	1989	133	4	218
	32	1913	26	25	229
TEMPERATURE (0.01C)	2	1284	19	43	160

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1219		
0.35	46	2			0.25
0.50	67	25	1221	.000795	0.35
0.71	21	23		.013256	0.50
1.00	57	63	1244	.087788	0.71
1.41	36	40		.092239	1.00
2.00	89	94	1284	.103792	1.41
2.83	53	54		.112737	2.00
4.00	142	134	1338	.129079	2.83
5.66	89	80		.125979	4.00
8.00	245	197	1418	.135307	5.66
11.31	156	117		.124033	8.00
16.00	430	312	1535	.128367	11.31
22.63	274	195		.125877	16.00
32.00			1730	.137933	22.63
					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	383	39	-15	245
	16.0	546	38	-12	311
	32.0	846	40	13	225
WIND DIRECTION (0.1 DEG)	2	1923	78	-26	287
	32	1976	29	-37	104
TEMPERATURE (0.01C)	2	1390	64	-43	173

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1360		0.25
0.35	21	1		.001895	0.35
0.50	54	14	1361	.011375	0.50
0.71	33	13		.019997	0.71
1.00	73	29	1374	.025778	1.00
1.41	40	16		.033491	1.41
2.00	93	47	1390	.051441	2.00
2.83	53	31		.073861	2.83
4.00	152	96	1421	.078542	4.00
5.66	99	65		.080618	5.66
8.00	262	176	1486	.096662	8.00
11.31	163	111		.111299	11.31
16.00	463	323	1597	.113002	16.00
22.63	300	212		.124783	22.63
32.00			1809		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	148	25	-43	330
	1.0	178	31	-23	301
	2.0	214	32	-30	298
	4.0	267	34	-44	320
	8.0	352	31	-37	327
	16.0	487	34	-25	273
	32.0	735	40	-14	----
WIND DIRECTION (0.1 DEG)	2	2021	74	9	284
	32	2059	22	10	278
TEMPERATURE (0.01C)	2	1483	7	-88	304

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1452		
0.35	21	4		.007572	0.25
0.50	51	15	1456	.013618	0.35
0.71	30	11		.020407	0.50
1.00	66	27	1467	.029266	0.71
1.41	36	16		.041214	1.00
2.00	89	40	1483	.047657	1.41
2.83	53	24		.057005	2.00
4.00	138	72	1507	.071271	2.83
5.66	85	48		.088537	4.00
8.00	220	130	1555	.101058	5.66
11.31	135	82		.119645	8.00
16.00	383	234	1637	.119577	11.31
22.63	248	152		.130889	16.00
32.00			1789		22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6U

14 AUG 65 0450 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	109	21	-35	----
	0.50	127	21	-25	265
	1.0	154	27	-11	285
	2.0	189	25	-8	283
	4.0	242	25	13	257
	8.0	329	25	7	308
	16.0	465	20	-1	313
	32.0	685	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1414		0.25
0.35	18	3		.007740	0.35
0.50	45	13	1417	.015180	0.50
0.71	27	10		.022938	0.71
1.00	62	27	1427	.033208	1.00
1.41	35	17		.046390	1.41
2.00	88	48	1444	.058566	2.00
2.83	53	31		.073722	2.83
4.00	140	88	1475	.084724	4.00
5.66	87	57		.100454	5.66
8.00	223	146	1532	.110548	8.00
11.31	136	89		.128041	11.31
16.00	356	231	1621	.136745	16.00
22.63	20	142		.155500	22.63
32.00			1763		32.00

Table 3 (Continued)

WINDY ACRES RUN 48. 6V

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	-28	313
	32.0	716	39	-8	----
WIND DIRECTION (0.1 DEG)	2	1925	96	7	221
	32	2023	48	63	240
TEMPERATURE (0.01C)	2	1412	15	-72	350

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1380		0.25
0.35	18	3		.007751	0.35
0.50	40	14	1383	.020717	0.50
0.71	22	11		.038045	0.71
1.00	60	29	1394	.038131	1.00
1.41	38	16		.041716	1.41
2.00	93	51	1412	.05468	2.00
2.83	55	32		.07074	2.83
4.00	144	94	1444	.085626	4.00
5.66	89	62		.104513	5.66
8.00	235	165	1506	.112576	8.00
11.31	148	103		.128659	11.31
16.00	388	245	1609	.146947	16.00
22.63	242	192		.173669	22.63
32.00			1801		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6A

14 AUG 65 0520 CST

	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1351		0.25
0.35	19	1		.002315	0.35
0.50	40	11	1352	.016293	0.50
0.71	21	10		.037999	0.71
1.00	58	26	1362	.036626	1.00
1.41	37	16		.039159	1.41
2.00	91	48	1378	.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	308	1581	.167945	16.00
22.63	223	201		.214280	22.63
32.00			1782		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6X

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	68	329
	32.0	737	20	95	----
WIND DIRECTION (0.1 DEG)	2	1810	58	6	311
	32	1985	19	-40	----
TEMPERATURE (0.1C)	2	1383	16	-22	185

Z(M)	A-SPEED	A-THETA	THETA	RI	Z(M)
0.25					
0.35	22	1	1361		0.25
0.50	50	9	1362	.001726	0.35
0.71	28	8		.008527	0.50
1.00	65	21	1370	.017094	0.71
1.41	37	13		.023548	1.00
2.00	91	40	1383	.031808	1.41
2.83	54	27		.045738	2.00
4.00	140	85	1410	.061989	2.83
5.66	96	58		.073387	4.00
8.00	257	179	1468	.087755	5.66
11.31	163	121		.102204	8.00
16.00	384	350	1589	.121378	11.31
22.63	201	229		.198123	16.00
32.00			1818	.300251	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. . .

14 AUG 65 0550 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.23	143	29	-26	219
	0.50	165	[illegible]	[illegible]16	281
	1.0	194	[illegible]	-29	271
	2.0	231	35	-17	294
	4.0	267	33	-17	288
	8.0	360	33	-11	305
	16.0	544	22	-4	292
	32.0	703	22	-63	----
WIND DIRECTION (0.1 DEG)	2	1831	64	17	321
	32	1991	26	50	----
TEMPERATURE (0.01C)	2	1383	6	9	207

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1366		0.25
0.35	22	0		.000000	0.35
0.50	51	7	1366	.006373	0.50
0.71	29	7		.013943	0.71
1.00	66	17	1373	.018487	1.00
1.41	37	10		.024467	1.41
2.00	93	32	1383	.035036	2.00
2.83	56	22		.046970	2.83
4.00	149	70	1405	.059647	4.00
5.66	93	48		.074223	5.66
8.00	257	159	1453	.090839	8.00
11.31	164	111		.110071	11.31
16.00	383	362	1564	.185138	16.00
22.63	219	251		.277343	22.63
32.00			1815		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 62

14 AUG 65 0605 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	138	32	-43	231
	0.50	160	34	-46	317
	1.0	190	39	-13	286
	2.0	225	40	-28	278
	4.0	271	42	-25	258
	8.0	354	46	6	252
	16.0	490	55	7	215
	32.0	733	57	-7	122
WIND DIRECTION (0.1 DEG)	2	1823	75	19	330
	32	1925	27	29	213
TEMPERATURE (0.01C)	2	1402	8	-73	341

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1384		0.25
0.35	22	1		.001726	0.35
0.50	52	9	1385	.007878	0.50
0.71	30	8		.014878	0.71
1.00	65	17	1393	.019049	1.00
1.41	35	9		.024591	1.41
2.00	81	27	1402	.038946	2.00
2.83	46	18		.056922	2.83
4.00	129	54	1420	.061367	4.00
5.66	83	36		.069868	5.66
8.00	219	109	1456	.085805	8.00
11.31	136	73		.105332	11.31
16.00	379	294	1529	.153756	16.00
22.63	243	221		.198695	22.63
32.00			1750		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6AA

14 AUG 65 0620 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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	276
TEMPERATURE (0.01C)	2	1406	19	89	285

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1387		0.25
0.35	19	1		.002315	0.35
0.50	42	9	1388	.012077	0.50
0.71	23	8		.025312	0.71
1.00	54	18	1396	.029219	1.00
1.41	31	10		.034826	1.41
2.00	72	28	1406	.051111	2.00
2.83	41	18		.071643	2.83
4.00	120	53	1424	.069596	4.00
5.66	79	35		.074972	5.66
8.00	209	101	1459	.087301	8.00
11.31	130	66		.104228	11.31
16.00	378	251	1525	.132070	16.00
22.63	248	185		.159822	22.63
32.00			1710		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 608

14 AUG 65 0635 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	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	84	15	323
	32	1943	23	38	323
TEMPERATURE (0.01C)	2	1460	23	15	133

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25					
0.35	16	0	1470		0.25
0.50	42	6	1470	.000000	0.35
0.71	24	6		.008029	0.50
1.00	52	10	1476	.017388	0.71
1.41	28	4		.017459	1.00
2.00	71	15	1480	.017029	1.41
2.83	43	11		.028086	2.00
4.00	111	39	1491	.039706	2.83
5.66	68	28		.059717	4.00
8.00	198	91	1519	.080774	5.66
11.31	130	63		.087455	8.00
16.00	378	245	1582	.099289	11.31
22.63	248	182		.128662	16.00
32.00			1764	.156930	22.63
					32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6CC 14 AUG 65 0650 CST

	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1561		0.25
0.35	23	-3		-.004718	0.35
0.50	44	-1	1558	-.001214	0.50
0.71	21	2		.007546	0.71
1.00	50	1	1560	.001881	1.00
1.41	29	-1		-.003956	1.41
2.00	65	1	1559	.002227	2.00
2.83	36	2		.010271	2.83
4.00	100	16	1561	.030117	4.00
5.66	64	14		.045494	5.66
8.00	176	52	1575	.063147	8.00
11.31	112	38		.080568	11.31
16.00	339	182	1613	.118762	16.00
22.63	227	144		.148150	22.63
32.00			1757		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 600 — 14 AUG 65 0705 CST

	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	269
	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)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1697		0.25
0.35	24	-5		-.007188	0.35
0.50	52	-5	1692	-.004330	0.50
0.71	28	0		.000000	0.71
1.00	56	-5	1692	-.007471	1.00
1.41	28	-5		-.021130	1.41
2.00	61	-9	1687	-.022670	2.00
2.83	33	-4		-.024344	2.83
4.00	76	-4	1683	-.012983	4.00
5.66	43	0		.000000	5.66
8.00	119	10	1693	.026474	8.00
11.31	76	10		.075898	11.31
16.00	241	67	1693	.086394	16.00
22.63	165	57		.110873	22.63
32.00			1750		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6EE

14 AUG 65 0720 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	214	46	-14	296
	0.50	240	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	-3	259
	16.0	450	54	-10	281
	32.0	546	46	16	224
WIND DIRECTION (0.1 DEG)	2	1768	83	14	284
	32	1846	46	-18	286
TEMPERATURE (0.01C)	2	1793	28	41	183

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			1813		0.25
0.35	26	-8		-.009759	0.35
0.50	65	-9	1805	-.004970	0.50
0.71	39	-1		-.001083	0.71
1.00	77	-12	1804	-.009449	1.00
1.41	38	-11		-.025146	1.41
2.00	73	-20	1793	-.035052	2.00
2.83	35	-9		-.048526	2.83
4.00	75	-17	1784	-.056472	4.00
5.66	40	-8		-.066069	5.66
8.00	98	-14	1776	-.054489	8.00
11.31	58	-6		-.047147	11.31
16.00	154	8	1770	.025213	16.00
22.63	96	14		.080299	22.63
32.00			1784		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6FF

14 AUG 65 0735 CST

	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-THETA	THETA	RI	Z(M)
0.25			1924		0.25
0.35	32	-9		-.007221	0.35
0.50	82	-12	1915	-.004148	0.50
0.71	50	-3		-.001971	0.71
1.00	91	-20	1912	-.011235	1.00
1.41	41	-17		-.033266	1.41
2.00	71	-28	1895	-.051692	2.00
2.83	30	-11		-.080446	2.83
4.00	70	-21	1884	-.079806	4.00
5.66	40	-10		-.082307	5.66
8.00	81	-21	1874	-.119252	8.00
11.31	41	-11		-.172416	11.31
16.00	123	-13	1863	-.064040	16.00
22.63	82	-2		-.015676	22.63
32.00			1861		32.00

Table 3 (Continued)

MINBY ACRES RUN NO. 666

14 AUG 65 0750 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	241	50	-7	283
	0.50	274	53	14	286
	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	288
	32	2040	79	-17	273
TEMPERATURE (0.01C)	2	2011	30	-13	155

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2049		0.25
0.35	33	-12		-.009017	0.35
0.50	80	-18	2037	-.006510	0.50
0.71	47	-6		-.004447	0.71
1.00	96	-26	2031	-.013071	1.00
1.41	49	-20		-.027291	1.41
2.00	90	-35	2011	-.040056	2.00
2.83	41	-15		-.058507	2.83
4.00	75	-26	1996	-.085741	4.00
5.66	34	-11		-.124837	5.66
8.00	62	-21	1985	-.202762	8.00
11.31	28	-10		-.334796	11.31
16.00	63	-15	1975	-.260607	16.00
22.63	35	-5		-.214320	22.63
32.00			1970		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6MM

14 AUG 65 0805 CST

	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
	16.0	465	70	-16	290
	32.0	500	75	-20	228
WIND DIRECTION (0.1 DEG)	2	2022	97	16	322
	32	2043	70	36	418
TEMPERATURE (0.01C)	2	2105	55	-724	----

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2156		0.25
0.35	32	-13		-.010353	0.35
0.50	76	-26	2143	-.011184	0.50
0.71	44	-15		-.012642	0.71
1.00	86	-38	2128	-.023725	1.00
1.41	42	-23		-.042581	1.41
2.00	80	-41	2105	-.059200	2.00
2.83	38	-18		-.081473	2.83
4.00	73	-33	2087	-.114520	4.00
5.66	35	-15		-.160159	5.66
8.00	76	-34	2072	-.217858	8.00
11.31	41	-19		-.295847	11.31
16.00	76	-31	2053.	-.397449	16.00
22.63	35	-12		-.513073	22.63
32.00			2041		32.00

Table 3 (Continued)

WINDY ACRES RUN NO. 6JJ — 14 AUG 65 0820 CST

	Z(M)	MEAN	SIGMA	SKEWNESS	KURTOSIS
WIND SPEED (CM/SEC)	0.25	252	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	286
	32.0	534	79	-17	274
WIND DIRECTION (0.1 DEG)	2	2075	103	30	287
	32	2094	75	-7	271
TEMPERATURE (0.01C)	2	2176	21	58	248

Z(M)	Δ-SPEED	Δ-THETA	THETA	RI	Z(M)
0.25			2240		0.25
0.35	35	-15		-.009955	0.35
0.50	83	-40	2225	-.013362	0.50
0.71	48	-25		-.017659	0.71
1.00	101	-49	2200	-.022124	1.00
1.41	53	-24		-.027834	1.41
2.00	93	-47	2176	-.050100	2.00
2.83	40	-23		-.093740	2.83
4.00	72	-37	2153	-.131686	4.00
5.66	32	-14		-.178417	5.66
8.00	57	-32	2139	-.363668	8.00
11.31	25	-18		-.752099	11.31
16.00	74	-33	2121	-.445273	16.00
22.63	49	-19		-.326478	22.63
32.00			2106		32.00

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13. 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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