

Table N.2.1

Two-Year Meteorology Summaries by Location,
Wind Direction, Wind Speed, Turbulence Class, and Season

PBAPS

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION 30FT		TURBULENCE CLASS		1				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12		13-18		SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
40	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
50	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
60	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.0
100	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
110	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
120	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
130	11	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.0
140	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
150	7	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
270	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
280	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
290	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
300	5	0.0	1	0.0	0	0.0	0	0.0	0	0.0	6	0.0
310	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
320	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
	59	1.4	4	.1	0	0.0	0	0.0	0	0.0	63	1.5
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION 30FT		TURBULENCE CLASS		2				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				SUM	PERCENT		
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT				
10	26	.6	21	.5	29	.7	1	.0	0	0.0	77	1.9
20	5	.1	8	.2	16	.4	1	.0	0	0.0	30	.7
30	11	.3	8	.2	1	.0	0	0.0	0	0.0	20	.5
40	8	.2	10	.2	0	0.0	0	0.0	0	0.0	18	.4
50	3	.1	11	.3	0	0.0	0	0.0	0	0.0	14	.3
60	8	.2	10	.2	2	.0	0	0.0	0	0.0	20	.5
70	7	.2	16	.4	4	.1	0	0.0	0	0.0	27	.7
80	6	.1	6	.1	0	0.0	0	0.0	0	0.0	12	.3
90	5	.1	14	.3	1	.0	0	0.0	0	0.0	20	.5
100	8	.2	6	.1	3	.1	0	0.0	0	0.0	17	.4
110	12	.3	4	.1	2	.0	0	0.0	0	0.0	18	.4
120	34	.8	17	.4	3	.1	1	.0	3	.1	58	1.4
130	48	1.2	23	.6	6	.1	6	.1	0	0.0	83	2.0
140	53	1.3	9	.2	3	.1	2	.0	0	0.0	67	1.6
150	64	1.5	2	.0	1	.0	0	0.0	0	0.0	74	1.8
160	24	.6	0	0.0	0	0.0	0	0.0	0	0.0	26	.6
170	8	.2	0	0.0	0	0.0	0	0.0	0	0.0	8	.2
180	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
190	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
200	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
210	5	.1	0	0.0	1	.0	0	0.0	0	0.0	6	.1
220	7	.2	0	0.0	1	.0	0	0.0	0	0.0	8	.2
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	5	.1	1	.0	0	0.0	0	0.0	0	0.0	6	.1
250	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.1
260	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
270	11	.3	11	.3	0	0.0	0	0.0	0	0.0	22	.5
280	66	1.6	13	.3	3	.1	0	0.0	0	0.0	82	2.0
290	136	3.3	97	2.3	8	.2	8	.2	0	0.0	249	6.0
300	90	2.2	246	6.0	92	2.2	24	.6	0	0.0	452	10.9
310	31	.8	141	3.4	163	3.9	25	.6	0	0.0	360	8.7
320	19	.5	54	1.3	51	1.2	1	.0	0	0.0	125	3.0
330	16	.4	28	.7	27	.7	5	.1	0	0.0	76	1.8
340	33	.8	34	.8	43	1.0	6	.1	0	0.0	116	2.8
350	18	.4	47	1.1	50	1.2	4	.1	0	0.0	119	2.9
360	28	.7	41	1.0	46	1.1	3	.1	0	0.0	118	2.9
	817	19.8	889	21.5	556	13.5	87	2.1	3	.1	2352	56.9
MEAN WIND SPEED 5												

PBAPS

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION 30FT TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT				
10	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	1	.0	0	0.0	3	.1	0	0.0	0	0.0	4	.1
40	2	.0	0	0.0	1	.0	0	0.0	0	0.0	3	.1
50	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	5	.1	1	.0	0	0.0	0	0.0	0	0.0	6	.1
130	7	.2	1	.0	0	0.0	0	0.0	0	0.0	8	.2
140	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
150	6	.1	1	.0	0	0.0	0	0.0	0	0.0	7	.2
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1
280	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1
290	2	.0	3	.1	0	0.0	0	0.0	0	0.0	5	.1
300	4	.1	11	.3	0	0.0	0	0.0	0	0.0	15	.4
310	1	.0	5	.1	5	.1	0	0.0	0	0.0	11	.3
320	0	0.0	5	.1	1	.0	0	0.0	0	0.0	6	.1
330	0	0.0	0	0.0	3	.1	0	0.0	0	0.0	3	.1
340	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
350	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
360	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.1
	44	1.1	35	.8	17	.4	0	0.0	0	0.0	96	2.3
MEAN WIND SPEED 4												

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION 30FT TURBULENCE CLASS				4				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	PERCENT				
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	3	.1	1	.0	2	.0	5	.1	11	.3
130	2	.0	6	.1	3	.1	0	0.0	0	0.0	11	.3
140	0	0.0	2	.0	2	.0	0	0.0	0	0.0	4	.1
150	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	4	.0	0	0.0	0	0.0	4	.1
280	3	.1	0	0.0	10	.2	0	0.0	0	0.0	13	.3
290	3	.1	4	.1	8	.2	1	.0	0	0.0	16	.4
300	7	.2	40	1.0	58	1.4	25	.6	0	0.0	130	3.1
310	2	.0	52	1.3	108	2.6	65	1.6	5	.1	232	5.6
320	0	0.0	13	.3	33	.8	27	.7	1	.0	74	1.8
330	1	.0	3	.1	13	.3	5	.1	0	0.0	22	.5
340	0	0.0	3	.1	7	.2	0	0.0	0	0.0	10	.2
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
	18	.4	128	3.1	248	6.0	125	3.0	11	.3	530	12.8
MEAN WIND SPEED 10												

PBAPS

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION 30FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
20	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
30	5	.1	1	.0	0	0.0	0	0.0	0	0.0	6	.1
40	11	.3	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
50	5	.1	1	.0	0	0.0	0	0.0	0	0.0	6	.1
60	10	.2	1	.0	0	0.0	0	0.0	0	0.0	11	.3
70	11	.3	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
80	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
90	18	.4	0	0.0	0	0.0	0	0.0	0	0.0	18	.4
100	21	.5	0	0.0	0	0.0	0	0.0	0	0.0	21	.5
110	11	.3	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
120	13	.3	3	.1	0	0.0	0	0.0	0	0.0	16	.4
130	34	.8	4	.1	0	0.0	0	0.0	0	0.0	38	.9
140	13	.3	2	.0	0	0.0	0	0.0	0	0.0	15	.4
150	31	.6	1	.0	0	0.0	0	0.0	0	0.0	32	.8
160	16	.4	0	0.0	0	0.0	0	0.0	0	0.0	16	.4
170	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
180	9	.2	0	0.0	0	0.0	0	0.0	0	0.0	9	.2
190	11	.3	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
220	29	.7	0	0.0	0	0.0	0	0.0	0	0.0	29	.7
230	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
240	14	.3	0	0.0	0	0.0	0	0.0	0	0.0	14	.3
250	24	.6	0	0.0	0	0.0	0	0.0	0	0.0	24	.6
260	49	1.2	0	0.0	0	0.0	0	0.0	0	0.0	49	1.2
270	66	1.6	1	.0	0	0.0	0	0.0	0	0.0	67	1.6
280	256	6.2	32	.8	0	0.0	0	0.0	0	0.0	288	7.0
290	190	4.6	21	.5	0	0.0	0	0.0	0	0.0	211	5.1
300	40	1.0	0	0.0	0	0.0	0	0.0	0	0.0	40	1.0
310	26	.6	0	0.0	0	0.0	0	0.0	0	0.0	26	.6
320	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
330	20	.5	0	0.0	0	0.0	0	0.0	0	0.0	20	.5
340	11	.3	2	.0	0	0.0	0	0.0	0	0.0	13	.3
350	6	.1	1	.0	0	0.0	0	0.0	0	0.0	7	.2
360	24	.6	5	.1	0	0.0	0	0.0	0	0.0	29	.7
	1017	24.6	75	1.8	0	0.0	0	0.0	0	0.0	1092	26.4
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION 30FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		19 PLUS	SUM	PERCENT			
	SUM	PERCENT	SUM	PERCENT	8-12	13-18						
10	33	.8	22	.5	29	.7	1	.0	0	0.0	85	2.1
20	12	.3	8	.2	16	.4	1	.0	0	0.0	37	.9
30	10	.2	9	.2	4	.1	0	0.0	0	0.0	31	.8
40	22	.5	10	.2	1	.0	0	0.0	0	0.0	33	.8
50	11	.3	12	.3	1	.0	0	0.0	0	0.0	24	.6
60	20	.5	11	.2	2	.0	0	0.0	0	0.0	33	.8
70	18	.4	16	.4	4	.1	0	0.0	0	0.0	38	.9
80	12	.3	6	.1	0	0.0	0	0.0	0	0.0	18	.4
90	31	.8	14	.3	1	.0	0	0.0	0	0.0	46	1.1
100	31	.8	6	.1	3	.1	0	0.0	0	0.0	40	1.0
110	25	.6	4	.1	2	.0	0	0.0	0	0.0	31	.8
120	56	1.4	24	.6	4	.1	3	.1	8	.2	95	2.3
130	102	2.5	34	.8	9	.2	6	.1	0	0.0	151	3.7
140	75	1.8	13	.3	5	.1	2	.0	0	0.0	95	2.3
150	108	2.6	13	.3	1	.0	0	0.0	0	0.0	122	3.0
160	40	1.0	2	.0	0	0.0	0	0.0	0	0.0	42	1.0
170	14	.3	0	0.0	0	0.0	0	0.0	0	0.0	14	.3
180	12	.3	0	0.0	0	0.0	0	0.0	0	0.0	12	.3
190	18	.4	0	0.0	0	0.0	0	0.0	0	0.0	18	.4
200	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
210	10	.2	0	0.0	1	.0	0	0.0	0	0.0	11	.3
220	37	.9	0	0.0	1	.0	0	0.0	0	0.0	38	.9
230	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
240	20	.5	1	.0	0	0.0	0	0.0	0	0.0	21	.5
250	26	.6	4	.1	0	0.0	0	0.0	0	0.0	30	.7
260	56	1.4	0	0.0	0	0.0	0	0.0	0	0.0	56	1.4
270	80	1.9	13	.3	5	.1	0	0.0	0	0.0	98	2.4
280	328	7.9	47	1.1	14	.3	0	0.0	0	0.0	389	9.4
290	334	8.1	125	3.0	16	.4	9	.2	0	0.0	484	11.7
300	146	3.5	298	7.2	150	3.6	49	1.2	0	0.0	643	15.6
310	61	1.5	199	4.8	276	6.7	90	2.2	5	.1	631	15.3
320	27	.7	73	1.8	85	2.1	28	.7	1	.0	214	5.2
330	37	.9	31	.8	43	1.0	10	.2	0	0.0	121	2.9
340	45	1.1	39	.9	51	1.2	6	.1	0	0.0	141	3.4
350	25	.6	49	1.2	50	1.2	4	.1	0	0.0	128	3.1
360	54	1.3	48	1.2	47	1.1	3	.1	0	0.0	152	3.7
1955	47.3		1131	27.4	821	19.9	212	5.1	14	.3	4133	100.0
MISSING HOURS											211	

LOCATION 100FT TURBULENCE CLASS

1

MEAN WIND SPEED 2

LOCATION 100FT TURBULENCE CLASS

2

MEAN WIND SPEED 7

N-6

3

MEAN WIND SPEED 5

4

MEAN WIND SPEED 13

PBAPS

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION 100FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	10	.4	0	0.0	0	0.0	0	0.0	0	0.0	10	.4
20	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
30	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6	.2
40	13	.5	0	0.0	0	0.0	0	0.0	0	0.0	13	.5
50	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
60	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
70	5	.2	0	0.0	0	0.0	0	0.0	0	0.0	5	.2
80	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
90	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
100	20	.7	1	.0	0	0.0	0	0.0	0	0.0	21	.7
110	12	.4	2	.1	0	0.0	0	0.0	0	0.0	14	.5
120	30	1.1	1	.0	0	0.0	0	0.0	0	0.0	31	1.1
130	34	1.2	1	.0	0	0.0	0	0.0	0	0.0	35	1.2
140	18	.6	0	0.0	0	0.0	0	0.0	0	0.0	18	.6
150	22	.8	0	0.0	0	0.0	0	0.0	0	0.0	22	.8
160	51	1.8	0	0.0	0	0.0	0	0.0	0	0.0	51	1.8
170	30	1.1	0	0.0	0	0.0	0	0.0	0	0.0	30	1.1
180	24	.8	0	0.0	0	0.0	0	0.0	0	0.0	24	.8
190	25	.9	0	0.0	0	0.0	0	0.0	0	0.0	25	.9
200	5	.2	0	0.0	0	0.0	0	0.0	0	0.0	5	.2
210	21	.7	0	0.0	1	.0	0	0.0	0	0.0	22	.8
220	66	2.3	0	0.0	0	0.0	0	0.0	0	0.0	66	2.3
230	27	1.0	5	.2	0	0.0	0	0.0	0	0.0	32	1.1
240	30	1.1	5	.2	0	0.0	0	0.0	0	0.0	35	1.2
250	50	1.8	5	.2	0	0.0	0	0.0	0	0.0	55	1.9
260	13	.5	1	.0	0	0.0	0	0.0	0	0.0	14	.5
270	24	.8	18	.6	1	.0	0	0.0	0	0.0	43	1.5
280	47	1.7	1	.0	0	0.0	0	0.0	0	0.0	48	1.7
290	26	.9	2	.1	0	0.0	0	0.0	0	0.0	28	1.0
300	19	.7	3	.1	1	.0	0	0.0	0	0.0	23	.8
310	35	1.2	3	.1	0	0.0	0	0.0	0	0.0	38	1.3
320	8	.3	0	0.0	0	0.0	0	0.0	0	0.0	8	.3
330	13	.5	0	0.0	0	0.0	0	0.0	0	0.0	13	.5
340	17	.6	1	.0	0	0.0	0	0.0	0	0.0	18	.6
350	5	.2	0	0.0	0	0.0	0	0.0	0	0.0	5	.2
360	12	.4	1	.0	0	0.0	0	0.0	0	0.0	13	.5
											783	27.7
											729	25.8
											51	1.8
											3	.1
											0	0.0
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N-8

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION HILL		TURBULENCE CLASS		2				
		SPEEDS (MI/HR)										
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	6	2	9	2	9	2	3	1	0	0	27	7
20	13	3	38	10	7	2	0	0	0	0	58	15
30	13	3	40	10	5	1	0	0	0	0	58	15
40	17	3	28	7	5	1	0	0	0	0	45	12
50	21	5	29	7	28	7	15	4	0	0	93	24
60	18	5	27	7	28	7	10	3	1	0	84	22
70	14	4	20	5	26	7	8	2	0	0	68	17
80	26	7	19	5	33	8	4	1	0	0	82	21
90	10	5	32	8	24	6	10	3	0	0	85	22
100	11	3	7	2	7	2	5	1	0	0	30	8
110	29	7	20	5	11	3	1	0	0	0	61	16
120	14	4	19	5	4	1	0	0	0	0	37	10
130	11	3	24	6	14	4	0	0	0	0	49	13
140	14	4	32	8	28	7	5	1	0	0	79	20
150	10	3	26	7	37	10	12	3	0	0	85	22
160	6	2	11	3	38	10	24	6	0	0	79	20
170	8	2	10	3	8	2	5	1	0	0	31	8
180	4	1	19	5	11	3	4	1	0	0	38	10
190	5	1	19	5	13	3	6	2	0	0	43	11
200	4	1	18	5	15	4	6	2	0	0	43	11
210	4	1	15	4	23	6	14	4	0	0	56	14
220	16	4	25	6	26	7	23	6	1	0	91	23
230	10	3	25	6	30	8	22	6	3	1	90	23
240	18	5	35	9	39	10	20	5	1	0	113	29
250	12	3	31	8	27	7	1	0	0	0	71	18
260	11	3	19	5	11	3	2	1	0	0	43	11
270	16	4	37	10	16	4	2	1	0	0	71	18
280	12	3	42	11	17	4	0	0	0	0	71	18
290	14	4	36	9	12	3	2	1	0	0	64	16
300	6	2	41	11	37	10	13	3	0	0	97	25
310	9	2	16	4	23	6	9	2	0	0	57	15
320	7	2	23	6	11	3	2	1	0	0	43	11
330	8	2	25	6	17	4	0	0	0	0	50	13
340	12	3	25	6	13	3	0	0	0	0	50	13
350	5	1	15	4	19	5	3	1	0	0	42	11
360	3	1	7	2	28	7	8	2	0	0	46	12
421	10,8	864	22,2	700	18,0	239	6,1	6	2	2230	57,4	

MEAN WIND SPEED 7

1

3

MEAN WIND SPEED 7

4

MEAN WIND SPEED 10

PBAPS

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION HILL		TURBULENCE CLASS		5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	13	.3	3	.1	0	0.0	0	0.0	0	0.0	16	.4
20	26	.7	10	.3	1	.0	0	0.0	0	0.0	37	1.0
30	45	1.2	12	.3	0	0.0	0	0.0	0	0.0	57	1.5
40	29	.7	9	.2	0	0.0	0	0.0	0	0.0	38	1.0
50	56	1.4	6	.2	0	0.0	0	0.0	0	0.0	62	1.6
60	45	1.2	5	.1	0	0.0	0	0.0	0	0.0	50	1.3
70	25	.6	1	.0	0	0.0	0	0.0	0	0.0	26	.7
80	47	1.2	3	.1	0	0.0	0	0.0	0	0.0	50	1.3
90	30	.8	1	.0	0	0.0	0	0.0	0	0.0	31	.8
100	14	.4	0	0.0	0	0.0	0	0.0	0	0.0	14	.4
110	31	.8	0	0.0	0	0.0	0	0.0	0	0.0	31	.8
120	23	.6	2	.1	0	0.0	0	0.0	0	0.0	25	.6
130	10	.3	2	.1	0	0.0	0	0.0	0	0.0	12	.3
140	32	.8	4	.1	1	.0	0	0.0	0	0.0	37	1.0
150	22	.6	0	0.0	0	0.0	0	0.0	0	0.0	22	.6
160	9	.2	0	0.0	0	0.0	0	0.0	0	0.0	9	.2
170	27	.7	4	.1	0	0.0	0	0.0	0	0.0	31	.8
180	32	.8	5	.1	0	0.0	0	0.0	0	0.0	37	1.0
190	29	.7	10	.3	0	0.0	0	0.0	0	0.0	39	1.0
200	43	1.1	11	.3	0	0.0	0	0.0	0	0.0	54	1.4
210	39	1.0	5	.1	0	0.0	0	0.0	0	0.0	44	1.1
220	13	.3	7	.2	0	0.0	0	0.0	0	0.0	20	.5
230	35	.9	0	0.0	0	0.0	0	0.0	0	0.0	35	.9
240	11	.3	1	.0	0	0.0	0	0.0	0	0.0	12	.3
250	12	.3	0	0.0	0	0.0	0	0.0	0	0.0	12	.3
260	27	.7	0	0.0	0	0.0	0	0.0	0	0.0	27	.7
270	22	.6	1	.0	0	0.0	0	0.0	0	0.0	23	.6
280	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
290	33	.8	0	0.0	1	.0	0	0.0	0	0.0	34	.9
300	14	.4	2	.1	0	0.0	0	0.0	0	0.0	16	.4
310	7	.2	3	.1	4	.1	0	0.0	0	0.0	14	.4
320	17	.4	1	.0	1	.0	0	0.0	0	0.0	19	.5
330	27	.7	2	.1	0	0.0	0	0.0	0	0.0	29	.7
340	12	.3	0	0.0	0	0.0	0	0.0	0	0.0	12	.3
350	17	.4	4	.1	0	0.0	0	0.0	0	0.0	21	.5
360	19	.5	5	.1	0	0.0	0	0.0	0	0.0	24	.6
900	231.1		119	3.1	8	.2	0	0.0	0	0.0	1027	26.4
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 JAN-MAR, 2YRS				LOCATION HILL		ALL CLASSES						
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	21	.5	12	.3	10	.3	3	.1	0	0.0	46	1.2
20	40	1.0	51	1.3	9	.2	1	.0	0	0.0	101	2.6
30	61	1.6	59	1.5	11	.3	0	0.0	0	0.0	131	3.4
40	42	1.1	40	1.0	12	.3	2	.1	0	0.0	96	2.5
50	78	2.0	39	1.0	36	.9	22	.6	0	0.0	175	4.5
60	64	1.6	33	.8	37	1.0	20	.5	1	.0	155	4.0
70	41	1.1	24	.6	33	.8	9	.2	2	.1	109	2.8
80	75	1.9	22	.6	49	1.3	22	.6	3	.1	171	4.4
90	50	1.3	38	1.0	36	.9	30	.8	3	.1	157	4.0
100	26	.7	8	.2	18	.5	16	.4	0	0.0	68	1.7
110	61	1.6	25	.6	20	.5	6	.2	0	0.0	112	2.9
120	40	1.0	25	.6	11	.3	6	.2	0	0.0	82	2.1
130	21	.5	29	.7	22	.6	1	.0	0	0.0	73	1.9
140	47	1.2	37	1.0	37	1.0	7	.2	0	0.0	128	3.3
150	32	.8	28	.7	39	1.0	13	.3	0	0.0	112	2.9
160	16	.4	14	.4	38	1.0	25	.6	0	0.0	93	2.4
170	35	.9	15	.4	10	.3	5	.1	0	0.0	65	1.7
180	37	1.0	28	.7	14	.4	5	.1	0	0.0	84	2.2
190	34	.9	33	.8	27	.7	14	.4	0	0.0	108	2.8
200	49	1.3	29	.7	18	.5	8	.2	0	0.0	104	2.7
210	45	1.2	21	.5	23	.6	16	.4	0	0.0	105	2.7
220	31	.8	33	.8	31	.8	32	.8	3	.1	130	3.3
230	48	1.2	26	.7	47	1.2	34	.9	14	.4	169	4.3
240	31	.8	43	1.1	69	1.8	35	.9	1	.0	179	4.6
250	26	.7	45	1.2	35	.9	5	.1	0	0.0	111	2.9
260	42	1.1	26	.7	14	.4	4	.1	0	0.0	86	2.2
270	41	1.1	66	1.7	30	.8	10	.3	0	0.0	147	3.8
280	19	.5	70	1.8	30	.8	1	.0	0	0.0	120	3.1
290	48	1.2	47	1.2	25	.6	3	.1	0	0.0	123	3.2
300	27	.7	43	1.1	38	1.0	13	.3	0	0.0	114	2.9
310	17	.4	20	.5	27	.7	9	.2	0	0.0	73	1.9
320	25	.6	24	.6	13	.3	2	.1	0	0.0	64	1.6
330	36	.9	27	.7	20	.5	0	0.0	0	0.0	83	2.1
340	26	.7	29	.7	15	.4	1	.0	0	0.0	71	1.8
350	24	.6	22	.6	21	.5	4	.1	0	0.0	71	1.8
360	24	.6	12	.3	28	.7	8	.2	0	0.0	72	1.9
1373	35.3		1143	29.4	953	24.5	392	10.1	27	.7	3888	100.0
											MISSING HOURS	456
MEAN WIND SPEED 6												

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS LOCATION 75FT TURBULENCE CLASS

1

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
100	6	.2	3	.1	0	0.0	0	0.0	0	0.0	9	.2
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
130	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	1	.0	0	0.0	0	0.0	1	.0	0	0.0	2	.1
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	18	.5	5	.1	2	.1	1	.0	0	0.0	26	.7

MEAN WIND SPEED 3

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS LOCATION 75FT TURBULENCE CLASS

2

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	7	.2	15	.4	37	1.0	2	.1	0	0.0	61	1.6
20	4	.1	25	.7	38	1.0	8	.2	0	0.0	75	2.0
30	4	.1	43	1.1	10	.3	1	.0	0	0.0	58	1.5
40	6	.2	27	.7	15	.4	0	0.0	0	0.0	48	1.3
50	8	.2	14	.4	9	.2	0	0.0	0	0.0	31	.8
60	11	.3	23	.6	7	.2	0	0.0	0	0.0	41	1.1
70	18	.5	24	.6	2	.1	0	0.0	0	0.0	44	1.1
80	10	.3	4	.1	0	0.0	0	0.0	0	0.0	14	.4
90	14	.4	4	.1	2	.1	0	0.0	0	0.0	20	.5
100	14	.4	5	.1	1	.0	1	.0	0	0.0	21	.5
110	17	.4	6	.2	1	.0	0	0.0	0	0.0	24	.6
120	14	.4	19	.5	4	.1	1	.0	1	.0	39	1.0
130	12	.3	19	.5	7	.2	5	.1	0	0.0	43	1.1
140	10	.3	20	.5	10	.3	3	.1	0	0.0	43	1.1
150	8	.2	10	.3	12	.3	2	.1	0	0.0	32	.8
160	6	.2	9	.2	5	.1	2	.1	0	0.0	22	.6
170	7	.2	8	.2	10	.3	5	.1	1	.0	31	.8
180	5	.1	13	.3	13	.3	10	.3	2	.1	43	1.1
190	5	.1	12	.3	10	.3	2	.1	1	.0	30	.8
200	0	0.0	1	.0	7	.2	2	.1	0	0.0	10	.3
210	1	.0	6	.2	5	.1	0	0.0	0	0.0	12	.3
220	4	.1	3	.1	2	.1	1	.0	0	0.0	10	.3
230	1	.0	2	.1	4	.1	1	.0	0	0.0	8	.2
240	0	0.0	7	.2	16	.4	2	.1	1	.0	26	.7
250	5	.1	6	.2	20	.5	10	.3	2	.1	43	1.1
260	1	.0	2	.1	13	.3	11	.3	0	0.0	27	.7
270	3	.1	5	.1	21	.5	37	1.0	4	.1	70	1.8
280	4	.1	13	.3	32	.8	60	1.6	7	.2	116	3.0
290	0	0.0	10	.3	26	.7	39	1.0	10	.3	85	2.2
300	0	0.0	12	.3	58	1.5	68	1.8	29	.8	167	4.4
310	1	.0	18	.5	43	1.1	59	1.5	13	.3	134	3.5
320	2	.1	7	.2	28	.7	21	.5	6	.2	64	1.7
330	3	.1	17	.4	67	1.7	51	1.3	7	.2	145	3.8
340	3	.1	20	.5	85	2.2	59	1.5	2	.1	169	4.4
350	3	.1	17	.4	36	.9	10	.3	0	0.0	66	1.7
360	4	.1	18	.5	26	.7	3	.1	0	0.0	51	1.3
	215	5.6	464	12.1	682	17.8	476	12.4	86	2.2	1923	50.2

MEAN WIND SPEED 9

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION 75FT TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	0	0.0	4	.1	1	.0	0	0.0	0	0.0	5	.1
20	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
30	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
80	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
90	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
100	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
110	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
120	5	.1	2	.1	0	0.0	0	0.0	0	0.0	7	.2
130	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
140	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
150	1	.0	0	0.0	2	.1	0	0.0	0	0.0	3	.1
160	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
210	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
220	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
250	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
260	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
270	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
280	0	0.0	0	0.0	3	.1	0	0.0	0	0.0	3	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	0	0.0	0	0.0	4	.1	1	.0	0	0.0	5	.1
310	1	.0	0	0.0	1	.0	2	.1	0	0.0	4	.1
320	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
330	0	0.0	0	0.0	2	.1	1	.0	0	0.0	3	.1
340	0	0.0	2	.1	11	.3	1	.0	0	0.0	14	.4
350	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
360	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
	29	.8	22	.6	33	.9	5	.1	0	0.0	89	2.3
MEAN WIND SPEED 6												

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS					LOCATION 75FT TURBULENCE CLASS					4		
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	0	0.0	1	.0	7	.2	6	.2	0	0.0	14	.4
20	0	0.0	0	0.0	5	.1	8	.2	0	0.0	13	.3
30	0	0.0	1	.0	1	.0	2	.1	0	0.0	4	.1
40	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
140	2	.1	3	.1	1	.0	0	0.0	0	0.0	6	.2
150	3	.1	3	.1	2	.1	1	.0	0	0.0	9	.2
160	0	0.0	3	.1	1	.0	4	.1	0	0.0	8	.2
170	1	.0	2	.1	1	.0	4	.1	0	0.0	8	.2
180	1	.0	2	.1	10	.3	1	.0	0	0.0	14	.4
190	0	0.0	2	.1	2	.1	0	0.0	0	0.0	4	.1
200	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
210	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
220	1	.0	1	.0	2	.1	0	0.0	0	0.0	4	.1
230	0	0.0	0	0.0	5	.1	0	0.0	0	0.0	3	.1
240	0	0.0	1	.0	4	.1	1	.0	0	0.0	6	.2
250	0	0.0	3	.1	3	.1	1	.0	0	0.0	7	.2
260	0	0.0	1	.0	11	.3	1	.0	0	0.0	13	.3
270	0	0.0	7	.2	7	.2	6	.2	0	0.0	20	.5
280	0	0.0	5	.1	19	.5	14	.4	1	.0	39	1.0
290	0	0.0	2	.1	23	.6	9	.2	2	.1	36	.9
300	0	0.0	3	.1	44	1.1	36	.9	9	.2	92	2.4
310	0	0.0	4	.1	25	.7	55	1.4	19	.5	103	2.7
320	0	0.0	2	.1	14	.4	14	.4	8	.2	38	1.0
330	0	0.0	3	.1	27	.7	36	.9	15	.4	81	2.1
340	0	0.0	0	0.0	36	.9	61	1.6	25	.7	122	3.2
350	0	0.0	0	0.0	8	.2	16	.4	4	.1	28	.7
360	0	0.0	1	.0	10	.3	11	.3	0	0.0	22	.6
	12	.3	55	1.4	268	7.0	287	7.5	83	2.2	705	18.4
MEAN WIND SPEED 13												

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION 75FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT	SUM	PERCENT		
10	14	.4	5	.1	0	0.0	0	0.0	0	0.0	19	.5
20	7	.2	2	.1	0	0.0	0	0.0	0	0.0	9	.2
30	10	.3	6	.2	1	.0	0	0.0	0	0.0	17	.4
40	9	.2	1	.0	0	0.0	0	0.0	0	0.0	10	.3
50	7	.2	2	.1	0	0.0	0	0.0	0	0.0	9	.2
60	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
70	16	.4	0	0.0	0	0.0	0	0.0	0	0.0	16	.4
80	5	.1	1	.0	0	0.0	0	0.0	0	0.0	6	.2
90	13	.3	1	.0	0	0.0	0	0.0	0	0.0	14	.4
100	24	.6	5	.1	0	0.0	0	0.0	0	0.0	29	.8
110	9	.2	5	.1	0	0.0	0	0.0	0	0.0	14	.4
120	27	.7	19	.5	3	.1	0	0.0	0	0.0	49	1.3
130	19	.5	13	.3	6	.2	2	.1	0	0.0	40	1.0
140	13	.3	22	.6	2	.1	0	0.0	0	0.0	37	1.0
150	23	.6	10	.3	2	.1	0	0.0	0	0.0	35	.9
160	18	.5	8	.2	0	0.0	0	0.0	0	0.0	26	.7
170	6	.2	11	.3	1	.0	0	0.0	0	0.0	18	.5
180	12	.3	4	.1	4	.1	0	0.0	0	0.0	20	.5
190	17	.4	6	.2	5	.1	0	0.0	0	0.0	28	.7
200	11	.3	3	.1	3	.1	0	0.0	0	0.0	17	.4
210	5	.1	5	.1	5	.1	0	0.0	0	0.0	15	.4
220	17	.4	3	.1	0	0.0	0	0.0	0	0.0	20	.5
230	4	.1	3	.1	2	.1	0	0.0	0	0.0	9	.2
240	14	.4	11	.3	6	.2	0	0.0	0	0.0	31	.8
250	11	.3	17	.4	20	.5	1	.0	0	0.0	49	1.3
260	8	.2	17	.4	19	.5	3	.1	0	0.0	47	1.2
270	10	.3	13	.3	22	.6	3	.1	0	0.0	48	1.3
280	16	.4	18	.5	30	.8	3	.1	0	0.0	67	1.7
290	7	.2	12	.3	36	.9	0	0.0	0	0.0	55	1.4
300	17	.4	20	.5	28	.7	0	0.0	0	0.0	65	1.7
310	28	.7	23	.6	11	.3	0	0.0	0	0.0	62	1.6
320	21	.5	18	.5	5	.1	0	0.0	0	0.0	44	1.1
330	25	.7	25	.7	12	.3	1	.0	0	0.0	63	1.6
340	19	.5	18	.5	10	.3	0	0.0	0	0.0	47	1.2
350	12	.3	9	.2	8	.2	0	0.0	0	0.0	29	.8
360	13	.3	5	.1	3	.1	0	0.0	0	0.0	21	.5
492	12.8		341	8.9	244	6.4	13	.3	0	0.0	1090	28.4
MEAN WIND SPEED 4												

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION 75FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	21	.5	25	.7	45	1.2	8	.2	0	0.0	99	2.6
20	11	.3	27	.7	44	1.1	16	.4	0	0.0	98	2.6
30	14	.4	52	1.4	12	.3	3	.1	0	0.0	81	2.1
40	17	.4	29	.8	16	.4	0	0.0	0	0.0	62	1.6
50	16	.4	17	.4	9	.2	0	0.0	0	0.0	42	1.1
60	18	.5	23	.6	8	.2	0	0.0	0	0.0	49	1.3
70	36	.9	24	.6	2	.1	0	0.0	0	0.0	62	1.6
80	19	.5	5	.1	0	0.0	0	0.0	0	0.0	24	.6
90	31	.8	7	.2	2	.1	0	0.0	0	0.0	40	1.0
100	47	1.2	13	.3	1	.0	1	.0	0	0.0	62	1.6
110	30	.8	12	.3	1	.0	0	0.0	0	0.0	43	1.1
120	48	1.3	40	1.0	8	.2	1	.0	1	.0	98	2.6
130	36	.9	34	.9	13	.3	7	.2	0	0.0	90	2.3
140	28	.7	45	1.2	13	.3	3	.1	0	0.0	89	2.3
150	35	.9	23	.6	18	.5	3	.1	0	0.0	79	2.1
160	25	.7	21	.5	6	.2	6	.2	0	0.0	58	1.5
170	14	.4	21	.5	12	.3	9	.2	1	.0	57	1.5
180	18	.5	19	.5	28	.7	11	.3	2	.1	78	2.0
190	22	.6	20	.5	17	.4	2	.1	1	.0	62	1.6
200	11	.3	5	.1	11	.3	2	.1	0	0.0	29	.8
210	6	.2	13	.3	11	.3	0	0.0	0	0.0	30	.8
220	24	.6	9	.2	4	.1	1	.0	0	0.0	38	1.0
230	5	.1	5	.1	9	.2	1	.0	0	0.0	20	.5
240	15	.4	21	.5	26	.7	3	.1	1	.0	66	1.7
250	16	.4	27	.7	43	1.1	12	.3	2	.1	100	2.6
260	9	.2	21	.5	43	1.1	15	.4	0	0.0	88	2.3
270	13	.3	25	.7	52	1.4	46	1.2	4	.1	140	3.7
280	20	.5	36	.9	85	2.2	77	2.0	8	.2	226	5.9
290	7	.2	24	.6	85	2.2	48	1.3	12	.3	176	4.6
300	18	.5	35	.9	134	3.5	105	2.7	38	1.0	330	8.6
310	30	.8	45	1.2	80	2.1	116	3.0	32	.8	303	7.9
320	23	.6	27	.7	48	1.3	35	.9	14	.4	147	3.8
330	29	.8	45	1.2	108	2.8	90	2.3	22	.6	294	7.7
340	22	.6	40	1.0	142	3.7	121	3.2	27	.7	352	9.2
350	15	.4	26	.7	54	1.4	26	.7	4	.1	125	3.3
360	17	.4	26	.7	39	1.0	14	.4	0	0.0	96	2.5
766	20.0		887	23.1	1229	32.1	782	20.4	169	4.4	3833	100.0
MISSING HOURS											511	
MEAN WIND SPEED 8												
2 744												

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION 320FT TURBULENCE CLASS				1				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
120	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
250	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	14	.4	3	.1	0	0.0	0	0.0	0	0.0	17	.5
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION 320FT TURBULENCE CLASS				2				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	1	.0	6	.2	20	.5	24	.6	1	.0	52	1.4
20	1	.0	8	.2	21	.6	6	.2	0	0.0	36	1.0
30	0	0.0	11	.3	27	.7	3	.1	0	0.0	41	1.1
40	2	.1	12	.3	22	.6	12	.3	0	0.0	48	1.3
50	2	.1	8	.2	13	.4	15	.4	0	0.0	38	1.0
60	4	.1	12	.3	15	.4	8	.2	0	0.0	39	1.1
70	2	.1	5	.1	10	.3	5	.1	2	.1	24	.6
80	4	.1	4	.1	6	.2	3	.1	0	0.0	17	.5
90	3	.1	6	.2	1	.0	2	.1	0	0.0	12	.3
100	2	.1	7	.2	4	.1	2	.1	0	0.0	15	.4
110	4	.1	5	.1	1	.0	4	.1	0	0.0	14	.4
120	3	.1	9	.2	4	.1	2	.1	2	.1	20	.5
130	0	0.0	3	.1	1	.0	5	.1	1	.0	10	.3
140	1	.0	4	.1	7	.2	9	.2	0	0.0	21	.6
150	1	.0	16	.4	15	.4	7	.2	0	0.0	39	1.1
160	5	.1	15	.4	14	.4	6	.2	0	0.0	40	1.1
170	4	.1	8	.2	13	.4	13	.4	4	.1	42	1.1
180	4	.1	11	.3	25	.7	11	.3	10	.3	61	1.7
190	2	.1	10	.3	18	.5	9	.2	0	0.0	39	1.1
200	0	0.0	11	.3	11	.3	3	.1	0	0.0	25	.7
210	1	.0	7	.2	5	.1	1	.0	0	0.0	14	.4
220	1	.0	6	.2	4	.1	2	.1	0	0.0	13	.4
230	0	0.0	4	.1	6	.2	5	.1	0	0.0	15	.4
240	1	.0	7	.2	5	.1	5	.1	5	.1	23	.6
250	0	0.0	4	.1	12	.3	19	.5	1	.0	36	1.0
260	1	.0	4	.1	18	.5	18	.5	14	.4	55	1.5
270	2	.1	2	.1	8	.2	29	.8	35	.9	76	2.1
280	1	.0	3	.1	14	.4	49	1.3	43	1.2	110	3.0
290	0	0.0	1	.0	17	.5	39	1.1	47	1.3	104	2.8
300	0	0.0	7	.2	23	.6	61	1.7	51	1.4	142	3.8
310	0	0.0	1	.0	18	.5	69	1.9	60	1.6	148	4.0
320	0	0.0	0	0.0	11	.3	51	1.4	48	1.3	110	3.0
330	1	.0	8	.2	28	.8	74	2.0	24	.6	135	3.7
340	1	.0	11	.3	26	.7	61	1.7	29	.8	128	3.5
350	1	.0	9	.2	23	.6	35	.9	6	.2	74	2.0
360	2	.1	5	.1	21	.6	23	.6	5	.1	56	1.5
57	1.5		250	6.8	487	13.2	690	18.7	388	10.5	1872	50.7
MEAN WIND SPEED 13												

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS

LOCATION 320FT TURBULENCE CLASS

3

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
20	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3	.1
30	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
100	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
140	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
170	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
180	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	2	.1	0	0.0	2	.0	0	0.0	0	0.0	3	.1
210	5	.1	1	.0	2	.1	0	0.0	0	0.0	8	.2
220	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
230	2	.1	0	0.0	1	.0	0	0.0	0	0.0	3	.1
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
270	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
280	0	0.0	0	0.0	2	.1	1	.0	0	0.0	3	.1
290	0	0.0	0	0.0	4	.1	2	.1	0	0.0	6	.2
300	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.1
310	1	.0	0	0.0	3	.1	0	0.0	0	0.0	4	.1
320	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
330	1	.0	0	0.0	6	.2	0	0.0	0	0.0	7	.2
340	0	0.0	3	.1	2	.1	0	0.0	0	0.0	5	.1
350	3	.0	1	.0	4	.1	1	.0	0	0.0	6	.2
360	3	.1	0	0.0	1	.0	0	0.0	0	0.0	4	.1
31		.8	10	.3	36	1.0	5	.1	0	0.0	82	2.2

MEAN WIND SPEED 6

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS

LOCATION 320FT TURBULENCE CLASS

4

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	9	.2	4	.1	13	.4
20	0	0.0	0	0.0	1	.0	7	.2	3	.1	11	.3
30	0	0.0	0	0.0	2	.1	2	.1	5	.1	9	.2
40	0	0.0	0	0.0	2	.1	4	.1	0	0.0	6	.2
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	2	.1	1	.0	0	0.0	3	.1
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
130	0	0.0	0	0.0	0	0.0	1	.0	1	.0	2	.1
140	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.1
150	0	0.0	0	0.0	0	0.0	0	0.0	6	.2	6	.2
160	0	0.0	0	0.0	0	0.0	1	.0	3	.1	4	.1
170	0	0.0	0	0.0	3	.1	2	.1	6	.2	11	.3
180	0	0.0	0	0.0	1	.0	10	.3	6	.2	17	.5
190	0	0.0	0	0.0	6	.2	3	.1	3	.1	12	.3
200	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
210	0	0.0	0	0.0	4	.1	0	0.0	0	0.0	4	.1
220	0	0.0	0	0.0	1	.0	0	0.0	1	.0	2	.1
230	0	0.0	0	0.0	0	0.0	1	.0	3	.1	5	.1
240	0	0.0	0	0.0	0	0.0	3	.1	1	.0	4	.1
250	0	0.0	0	0.0	0	0.0	5	.1	9	.2	14	.4
260	0	0.0	0	0.0	1	.0	6	.2	5	.1	11	.3
270	0	0.0	0	0.0	0	0.0	21	.6	13	.4	35	.9
280	0	0.0	0	0.0	0	0.0	13	.4	15	.4	28	.7
290	0	0.0	0	0.0	1	.0	25	.7	18	.5	44	1.2
300	0	0.0	0	0.0	2	.1	20	.5	43	1.2	65	1.8
310	0	0.0	0	0.0	2	.1	25	.7	46	1.2	73	2.0
320	0	0.0	0	0.0	4	.1	30	.8	39	1.1	73	2.0
330	0	0.0	0	0.0	1	.0	36	1.0	49	1.3	86	2.3
340	0	0.0	0	0.0	1	.0	25	.7	48	1.3	74	2.0
350	0	0.0	0	0.0	3	.1	19	.5	12	.3	34	.9
360	0	0.0	0	0.0	2	.1	19	.5	15	.4	36	1.0
0		0.0	0	0.0	41	1.1	292	7.9	354	9.6	687	18.6

MEAN WIND SPEED 19

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION 320FT TURBULENCE CLASS				5						
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	6	.2	5	.1	7	.2	1	.0	0	0.0	19	.5		
20	1	.0	4	.1	10	.3	1	.0	0	0.0	16	.4		
30	6	.2	1	.0	3	.1	0	0.0	0	0.0	10	.3		
40	7	.2	3	.1	0	0.0	1	.0	0	0.0	11	.3		
50	6	.2	3	.1	2	.1	0	0.0	0	0.0	11	.3		
60	7	.2	5	.1	0	0.0	0	0.0	0	0.0	12	.3		
70	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1		
80	6	.2	1	.0	0	0.0	0	0.0	0	0.0	7	.2		
90	3	.1	4	.1	0	0.0	0	0.0	0	0.0	7	.2		
100	10	.3	7	.2	1	.0	0	0.0	0	0.0	18	.5		
110	13	.4	7	.2	3	.1	1	.0	0	0.0	24	.6		
120	4	.1	9	.2	9	.2	5	.1	1	.0	28	.8		
130	4	.1	7	.2	10	.3	2	.1	0	0.0	23	.6		
140	3	.1	9	.2	10	.3	2	.1	0	0.0	24	.6		
150	5	.1	14	.4	8	.2	1	.0	0	0.0	28	.8		
160	6	.2	12	.3	9	.2	2	.1	0	0.0	29	.8		
170	8	.2	8	.2	3	.1	3	.1	0	0.0	22	.6		
180	6	.2	18	.5	6	.2	2	.1	0	0.0	32	.9		
190	7	.2	13	.4	9	.2	5	.1	0	0.0	34	.9		
200	1	.0	10	.3	8	.2	2	.1	1	.0	22	.6		
210	6	.2	8	.2	8	.2	2	.1	0	0.0	24	.6		
220	2	.1	7	.2	4	.1	0	0.0	0	0.0	13	.4		
230	4	.1	9	.2	7	.2	2	.1	0	0.0	22	.6		
240	8	.2	11	.3	6	.2	3	.1	0	0.0	28	.8		
250	5	.1	8	.2	10	.3	20	.5	0	0.0	43	1.2		
260	0	0.0	12	.3	11	.3	20	.5	2	.1	45	1.2		
270	5	.1	5	.1	16	.4	28	.8	3	.1	57	1.5		
280	3	.1	8	.2	7	.2	27	.7	1	.0	46	1.2		
290	3	.1	9	.2	20	.5	25	.7	4	.1	61	1.7		
300	10	.3	5	.1	16	.4	22	.6	1	.0	54	1.5		
310	5	.1	9	.2	18	.5	39	1.1	1	.0	72	1.9		
320	5	.1	12	.3	23	.6	13	.4	1	.0	54	1.5		
330	3	.1	9	.2	26	.7	22	.6	0	0.0	60	1.6		
340	1	.0	7	.2	11	.3	10	.3	0	0.0	29	.8		
350	3	.1	7	.2	10	.3	5	.1	0	0.0	25	.7		
360	3	.1	7	.2	11	.3	3	.1	0	0.0	24	.6		
	176	4.8	274	7.4	303	8.2	269	7.3	15	.4	1037	28.1		
MEAN WIND SPEED 8														

WIND ROSE FOR STATION 12 JAN-MAR,2YRS				LOCATION 320FT ALL CLASSES										
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	8	.2	11	.3	28	.8	34	.9	5	.1		86	2.3	
20	2	.1	14	.4	33	.9	14	.4	3	.1		66	1.8	
30	7	.2	12	.3	32	.9	5	.1	5	.1		61	1.7	
40	9	.2	16	.4	24	.6	17	.5	0	0.0		66	1.8	
50	9	.2	11	.3	15	.4	15	.4	0	0.0		50	1.4	
60	14	.4	17	.5	15	.4	8	.2	0	0.0		54	1.5	
70	3	.1	6	.2	11	.3	5	.1	2	.1		27	.7	
80	10	.3	5	.1	6	.2	4	.1	0	0.0		25	.7	
90	8	.2	10	.3	1	.0	2	.1	0	0.0		21	.6	
100	14	.4	14	.4	7	.2	3	.1	0	0.0		38	1.0	
110	20	.5	12	.3	4	.1	5	.1	0	0.0		41	1.1	
120	11	.3	20	.5	13	.4	8	.2	3	.1		55	1.5	
130	6	.2	10	.3	11	.3	8	.2	2	.1		37	1.0	
140	5	.1	13	.4	18	.5	12	.3	0	0.0		48	1.3	
150	6	.2	31	.8	23	.6	8	.2	6	.2		74	2.0	
160	11	.3	27	.7	24	.6	9	.2	3	.1		74	2.0	
170	13	.4	16	.4	20	.5	18	.5	10	.3		77	2.1	
180	12	.3	29	.8	33	.9	23	.6	16	.4		113	3.1	
190	9	.2	23	.6	33	.9	17	.5	3	.1		85	2.3	
200	3	.1	21	.6	20	.5	6	.2	1	.0		51	1.4	
210	13	.4	16	.4	19	.5	3	.1	0	0.0		51	1.4	
220	4	.1	14	.4	9	.2	2	.1	1	.0		30	.8	
230	6	.2	13	.4	15	.4	8	.2	3	.1		45	1.2	
240	12	.3	18	.5	11	.3	11	.3	6	.2		58	1.6	
250	6	.2	12	.3	22	.6	44	1.2	10	.3		94	2.5	
260	2	.1	16	.4	30	.8	44	1.2	21	.6		113	3.1	
270	7	.2	7	.2	26	.7	78	2.1	51	1.4		169	4.6	
280	4	.1	11	.3	23	.6	90	2.4	59	1.6		187	5.1	
290	3	.1	10	.3	42	1.1	91	2.5	69	1.9		215	5.8	
300	11	.3	12	.3	42	1.1	104	2.8	95	2.6		264	7.1	
310	6	.2	10	.3	41	1.1	133	3.6	107	2.9		297	8.0	
320	5	.1	12	.3	40	1.1	94	2.5	88	2.4		239	6.5	
330	5	.1	18	.5	61	1.7	132	3.6	73	2.0		289	7.8	
340	2	.1	21	.6	40	1.1	96	2.6	77	2.1		236	6.4	
350	4	.1	17	.5	40	1.1	60	1.6	18	.5		139	3.8	
360	8	.2	12	.3	35	.9	45	1.2	20	.5		120	3.2	
	278	7.5	537	14.5	867	23.5	1256	34.0	757	20.5		3695	100.0	
												MISSING HOURS		649
MEAN WIND SPEED 13														
3 744														

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION SAT. TURBULENCE CLASS				1			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT	SUM	PERCENT	
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
270	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
300	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1
MEAN WIND SPEED 0											

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS				LOCATION SAT. TURBULENCE CLASS				2			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT	SUM	PERCENT	
10	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1
20	1	.3	2	.6	0	0.0	0	0.0	0	0.0	3
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
50	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1
60	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1
70	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
120	0	0.0	4	1.2	1	.3	0	0.0	0	0.0	5
130	1	.3	0	0.0	1	.3	1	.3	1	.3	4
140	0	0.0	1	.3	3	.9	3	.9	0	0.0	7
150	2	.6	2	.6	3	.9	0	0.0	0	0.0	7
160	2	.6	3	.9	6	1.8	5	1.5	0	0.0	16
170	1	.3	1	.3	2	.6	6	1.8	1	.3	11
180	1	.3	0	0.0	3	.9	1	.3	0	0.0	5
190	0	0.0	0	0.0	2	.6	0	0.0	0	0.0	2
200	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1
210	0	0.0	0	0.0	1	.3	0	0.0	0	0.0	1
220	0	0.0	1	.3	1	.3	0	0.0	0	0.0	2
230	0	0.0	1	.3	1	.3	0	0.0	0	0.0	2
240	0	0.0	1	.3	1	.3	0	0.0	0	0.0	2
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
260	0	0.0	6	1.8	3	.9	0	0.0	0	0.0	9
270	0	0.0	1	.3	6	1.8	0	0.0	0	0.0	7
280	0	0.0	4	1.2	12	3.6	1	.3	0	0.0	17
290	0	0.0	3	.9	6	1.8	6	1.8	0	0.0	15
300	0	0.0	1	.3	6	1.8	5	1.5	0	0.0	12
310	0	0.0	1	.3	4	1.2	6	1.8	1	.3	12
320	1	.3	0	0.0	4	1.2	9	2.7	0	0.0	14
330	0	0.0	0	0.0	7	2.1	13	3.9	2	.6	22
340	0	0.0	0	0.0	5	1.5	4	1.2	0	0.0	9
350	0	0.0	0	0.0	0	0.0	2	.6	0	0.0	2
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	14	4.2	32	9.6	78	23.4	62	18.6	5	1.5	191
MEAN WIND SPEED 10											

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR,2YRS			LOCATION SAT, TURBULENCE CLASS			3						
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
170	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
310	0	0.0	0	0.0	1	.3	2	.6	0	0.0	3	.9
320	0	0.0	0	0.0	1	.3	0	0.0	0	0.0	1	.3
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	4	1.2	0	0.0	2	.6	2	.6	0	0.0	8	2.4

MEAN WIND SPEED 7

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS			LOCATION SAT, TURBULENCE CLASS			4						
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	2	.6	1	.3	0	0.0	3	.9
160	0	0.0	0	0.0	1	.3	1	.3	0	0.0	2	.6
170	0	0.0	0	0.0	0	0.0	1	.3	0	0.0	1	.3
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	1	.3	1	.3	0	0.0	0	0.0	2	.6
300	0	0.0	0	0.0	1	.3	1	.3	0	0.0	2	.6
310	0	0.0	0	0.0	1	.3	2	.6	0	0.0	3	.9
320	0	0.0	0	0.0	0	0.0	1	.3	0	0.0	1	.3
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
0	0	0.0	1	.3	6	1.8	7	2.1	0	0.0	14	4.2

MEAN WIND SPEED 11

PBAPS

WIND ROSE FOR STATION 12 JAN-MAR, 2YRS

LOCATION SAT, TURBULENCE CLASS

5

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	2	.6	0	0.0	0	0.0	0	0.0	0	0.0	2	.6
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	2	.6	0	0.0	0	0.0	0	0.0	0	0.0	2	.6
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
100	2	.6	0	0.0	0	0.0	0	0.0	0	0.0	2	.6
110	2	.9	3	.9	1	.3	0	0.0	0	0.0	7	2.1
120	0	0.0	2	.6	0	0.0	0	0.0	0	0.0	2	.6
130	2	.6	1	.3	0	0.0	0	0.0	0	0.0	3	.9
140	1	.3	2	.6	5	1.5	1	.3	0	0.0	9	2.7
150	5	1.5	3	.9	0	0.0	0	0.0	0	0.0	8	2.4
160	6	1.8	4	1.2	1	.3	0	0.0	0	0.0	11	3.3
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	4	1.2	0	0.0	0	0.0	0	0.0	0	0.0	4	1.2
190	2	.6	0	0.0	0	0.0	0	0.0	0	0.0	2	.6
200	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
210	2	.6	0	0.0	0	0.0	0	0.0	0	0.0	2	.6
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	1	.3	0	0.0	0	0.0	1	.3
250	3	.9	1	.3	0	0.0	0	0.0	0	0.0	4	1.2
260	1	.3	3	.9	1	.3	0	0.0	0	0.0	5	1.5
270	3	.9	2	.6	0	0.0	0	0.0	0	0.0	5	1.5
280	4	1.2	2	.6	0	0.0	0	0.0	0	0.0	6	1.8
290	5	1.5	2	.6	1	.3	0	0.0	0	0.0	8	2.4
300	2	.6	4	1.2	1	.3	0	0.0	0	0.0	7	2.1
310	1	.3	0	0.0	3	.9	0	0.0	0	0.0	4	1.2
320	2	.6	0	0.0	0	0.0	3	.9	0	0.0	5	1.5
330	4	1.2	2	.6	1	.3	0	0.0	0	0.0	7	2.1
340	5	1.5	0	0.0	1	.3	0	0.0	0	0.0	6	1.8
350	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.3
360	2	.6	1	.3	0	0.0	0	0.0	0	0.0	3	.9

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 30FT		TUMULENCE CLASS		1				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
1°	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
2°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
3°	12	.3	0	0.0	0	0.0	0	0.0	0	0.0	12	.3
4°	9	.2	0	0.0	0	0.0	0	0.0	0	0.0	9	.2
5°	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
6°	11	.3	1	.0	0	0.0	0	0.0	0	0.0	12	.3
7°	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
8°	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.1
9°	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
10°	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
11°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
12°	11	.3	2	.0	0	0.0	0	0.0	0	0.0	13	.3
13°	8	.2	1	.0	0	0.0	0	0.0	0	0.0	9	.2
14°	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
15°	12	.3	0	0.0	0	0.0	0	0.0	0	0.0	12	.3
16°	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
17°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
18°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
19°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
21°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
22°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
23°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
24°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
25°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
26°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
27°	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
28°	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
29°	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
30°	13	.3	1	.0	0	0.0	0	0.0	0	0.0	14	.3
31°	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
32°	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
33°	8	.2	3	.1	0	0.0	0	0.0	0	0.0	11	.3
34°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
35°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
36°	10	.2	1	.0	0	0.0	0	0.0	0	0.0	11	.3
	146	3.4	13	.3	2	.0	0	0.0	0	0.0	161	3.9
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 30FT		TUMULENCE CLASS		2				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	0-3	4-7	SUM	PERCENT	SUM	PERCENT		
1°	12	.3	32	.8	28	.5	0	0.0	0	0.0	64	1.6
2°	6	.1	21	.5	3	.1	0	0.0	0	0.0	30	.7
3°	17	.4	12	.3	1	.0	0	0.0	0	0.0	30	.7
4°	8	.2	13	.3	1	.0	0	0.0	0	0.0	22	.5
5°	4	.1	7	.2	2	.0	0	0.0	0	0.0	13	.3
6°	11	.3	3	.1	3	.1	0	0.0	0	0.0	17	.4
7°	7	.2	2	.0	2	.0	0	0.0	0	0.0	11	.3
8°	4	.1	9	.2	6	.1	0	0.0	0	0.0	13	.3
9°	24	.6	7	.2	3	.1	0	0.0	0	0.0	38	.9
10°	14	.4	7	.2	1	.0	0	0.0	0	0.0	24	.6
11°	30	.7	12	.3	4	.1	0	0.0	0	0.0	52	1.3
12°	64	1.6	42	1.0	12	.3	1	.0	0	0.0	119	2.9
13°	155	3.8	54	1.4	4	.1	0	0.0	0	0.0	217	5.3
14°	102	2.5	16	.4	0	0.0	0	0.0	0	0.0	118	2.9
15°	130	3.2	9	.2	0	0.0	0	0.0	0	0.0	139	3.4
16°	141	3.5	15	.4	0	0.0	0	0.0	0	0.0	156	3.8
17°	32	.8	6	.1	0	0.0	0	0.0	0	0.0	32	.8
18°	35	.9	0	0.0	0	0.0	0	0.0	0	0.0	35	.9
19°	14	.4	0	0.0	0	0.0	0	0.0	0	0.0	14	.4
20°	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
21°	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
22°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
23°	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
24°	20	.5	0	0.0	0	0.0	0	0.0	0	0.0	20	.5
25°	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
26°	15	.4	6	.1	0	0.0	0	0.0	0	0.0	21	.5
27°	41	1.0	31	.8	0	0.0	0	0.0	0	0.0	72	1.8
28°	48	1.2	20	.5	3	.1	0	0.0	0	0.0	71	1.7
29°	57	1.4	36	.9	14	.4	1	.0	0	0.0	110	2.7
30°	56	1.4	89	2.2	41	1.0	4	.1	0	0.0	190	4.7
31°	30	.7	34	.8	21	.5	3	.1	0	0.0	88	2.2
32°	14	.4	44	1.1	18	.4	0	0.0	0	0.0	76	1.9
33°	24	.6	46	1.1	26	.6	6	.1	0	0.0	102	2.5
34°	6	.1	25	.6	17	.4	6	.1	1	.0	55	1.3
35°	13	.3	26	.6	24	.6	9	.2	0	0.0	72	1.8
36°	19	.5	16	.4	16	.4	2	.0	0	0.0	53	1.3
	1183	29.0	640	15.7	244	6.0	32	.8	1	.0	2100	51.4
MEAN WIND SPEED 3												

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 30FT		TURBULENCE CLASS		3				
DIRECTION	0-3		4-7		SPEDS (MI/HR)		13-18		19 PLUS PERCENT	SUM	PERCENT	
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM PERCENT					
10	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	2	.0
20	3	.1	2	0.0	0	0.0	0	0.0	0	0.0	5	.1
30	6	.1	1	0.0	0	0.0	0	0.0	0	0.0	7	.2
40	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
70	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
80	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
100	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	.0
110	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
120	21	.5	5	.1	0	0.0	0	0.0	0	0.0	26	.6
130	22	.5	9	.2	0	0.0	0	0.0	0	0.0	31	.8
140	11	.3	3	.1	0	0.0	0	0.0	0	0.0	14	.3
150	26	.6	1	0.0	0	0.0	0	0.0	0	0.0	27	.7
160	13	.3	2	0.0	0	0.0	0	0.0	0	0.0	15	.4
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	3	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
270	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
280	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
290	1	0.0	2	0.0	0	0.0	0	0.0	0	0.0	3	.1
300	3	.1	6	.1	4	.1	0	0.0	0	0.0	13	.3
310	1	0.0	5	.1	1	.0	0	0.0	0	0.0	6	.1
320	2	0.0	6	.1	1	.0	0	0.0	0	0.0	9	.2
330	11	.3	7	.2	0	0.0	0	0.0	0	0.0	18	.4
340	1	0.0	2	0.0	0	0.0	0	0.0	0	0.0	3	.1
350	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	2	.0
360	3	.1	4	.1	0	0.0	0	0.0	0	0.0	7	.2
	147	3.6	59	1.4	6	.1	0	0.0	0	0.0	212	5.2
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 30FT		TURBULENCE CLASS						
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	2	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	2	0.0	0	0.0	0	0.0	1	.0	0	0.0	3	.1
120	1	0.0	4	.1	1	.0	1	.0	0	0.0	7	.2
130	5	.1	4	.1	0	0.0	0	0.0	0	0.0	9	.2
140	5	.1	1	0.0	0	0.0	0	0.0	0	0.0	6	.1
150	8	.2	1	0.0	0	0.0	0	0.0	0	0.0	9	.2
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
180	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
280	6	.1	8	.2	1	.0	0	0.0	0	0.0	15	.4
290	2	0.0	12	.3	8	.2	1	.0	0	0.0	23	.6
300	4	.1	3	.1	10	.2	2	.0	0	0.0	19	.5
310	1	0.0	0	0.0	2	.0	0	0.0	0	0.0	3	.1
320	1	0.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
330	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	1	0.0	4	.1	0	0.0	0	0.0	5	.1
360	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
	45	1.1	34	.9	32	.8	5	.1	0	0.0	116	2.8
MEAN WIND SPEED 5												

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 30FT		TURBULENCE CLASS		5						
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	7	.2	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	9	.2
20	7	.2	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	8	.2
30	16	.4	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	18	.4
40	15	.4	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	18	.4
50	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
60	10	.2	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	12	.3
70	14	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	14	.3
80	17	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	.3
90	26	.6	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	28	.7
100	18	.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	.4
110	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
120	24	.5	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	25	.6
130	27	.7	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	29	.7
140	24	.5	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	26	.6
150	41	1.1	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	42	1.0
160	43	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	43	1.1
170	15	.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	.4
180	16	.4	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	17	.4
190	10	.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	.2
200	8	.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	.2
210	25	.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	.6
220	15	.4	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	16	.4
230	14	.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	14	.4
240	21	.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	21	.5
250	56	1.4	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	57	1.4
260	117	2.9	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	120	2.9
270	215	5.3	43	1.1	0	0.0	0	0.0	0	0.0	0	0.0	258	6.3
280	223	5.5	38	.9	0	0.0	0	0.0	0	0.0	0	0.0	261	6.4
290	111	2.7	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	114	2.8
300	125	3.1	17	.4	0	0.0	0	0.0	0	0.0	0	0.0	143	3.5
310	21	.5	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	25	.6
320	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
330	20	.5	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	22	.5
340	10	.2	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
350	10	.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	.2
360	24	.6	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	26	.6
1360	33.3		134	3.3	0	0.0	0	0.0	0	0.0	0	0.0	1494	36.6
MEAN WIND SPEED 1														

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 30FT		ALL CLASSES							
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT	
	SUM	PERCENT	SUM	PERCENT	8-12		13-18		SUM	PERCENT			
10	21	.5	36	.9	22	.5	0	0.0	0	0.0	79	1.9	
20	17	.4	24	.6	3	.1	0	0.0	0	0.0	44	1.1	
30	52	1.3	15	.4	1	.0	0	0.0	0	0.0	68	1.7	
40	34	.8	16	.4	1	.0	0	0.0	0	0.0	51	1.2	
50	10	.2	7	.2	2	.0	0	0.0	0	0.0	19	.5	
60	35	.9	6	.1	3	.1	0	0.0	0	0.0	44	1.1	
70	25	.6	3	.1	2	.0	0	0.0	0	0.0	30	.7	
80	17	.4	5	.1	6	.1	0	0.0	0	0.0	28	.7	
90	63	1.5	11	.3	3	.1	0	0.0	0	0.0	77	1.9	
100	40	1.0	8	.2	1	.0	0	0.0	0	0.0	49	1.2	
110	42	1.0	18	.4	4	.1	1	.0	0	0.0	65	1.6	
120	121	3.0	54	1.3	13	.3	2	.0	0	0.0	190	4.7	
130	217	5.3	74	1.8	4	.1	0	0.0	0	0.0	295	7.2	
140	146	3.6	22	.5	0	0.0	0	0.0	0	0.0	168	4.1	
150	217	5.3	12	.3	0	0.0	0	0.0	0	0.0	229	5.6	
160	201	4.9	17	.4	0	0.0	0	0.0	0	0.0	218	5.3	
170	48	1.2	0	0.0	0	0.0	0	0.0	0	0.0	48	1.2	
180	55	1.3	1	.0	0	0.0	0	0.0	0	0.0	56	1.4	
190	24	.6	0	0.0	0	0.0	0	0.0	0	0.0	24	.6	
200	15	.4	0	0.0	0	0.0	0	0.0	0	0.0	15	.4	
210	32	.8	0	0.0	0	0.0	0	0.0	0	0.0	32	.8	
220	17	.4	1	.0	0	0.0	0	0.0	0	0.0	18	.4	
230	24	.6	0	0.0	0	0.0	0	0.0	0	0.0	24	.6	
240	42	1.0	0	0.0	0	0.0	0	0.0	0	0.0	42	1.0	
250	63	1.5	1	.0	0	0.0	0	0.0	0	0.0	64	1.6	
260	135	3.3	9	.2	0	0.0	0	0.0	0	0.0	144	3.5	
270	266	6.5	74	1.8	0	0.0	0	0.0	0	0.0	340	8.3	
280	282	6.9	66	1.6	4	.1	0	0.0	0	0.0	352	8.6	
290	171	4.2	54	1.3	24	.6	2	.0	0	0.0	251	6.1	
300	202	4.9	116	2.8	55	1.3	6	.1	0	0.0	379	9.3	
310	59	1.4	41	1.0	24	.6	3	.1	0	0.0	127	3.1	
320	27	.7	51	1.2	24	.6	0	0.0	0	0.0	102	2.5	
330	64	1.6	58	1.4	26	.6	6	.1	0	0.0	154	3.8	
340	18	.4	28	.7	17	.4	6	.1	1	.0	70	1.7	
350	23	.6	29	.7	28	.7	9	.2	0	0.0	89	2.2	
360	56	1.4	23	.6	17	.4	2	.0	0	0.0	98	2.4	
2881	70.6		880	21.6	284	7.0	37	.9	1	.0	4083	100.0	
										MISSING HOURS		285	
MEAN WIND SPEED 2													
2 720													

N-23

LOCATION 100FT TURBULENCE CLASS

1

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
40	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
50	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
60	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
70	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
100	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
110	6	.1	1	.0	0	0.0	0	0.0	0	0.0	7	.2
120	16	.4	0	0.0	0	0.0	0	0.0	0	0.0	16	.4
130	29	.7	1	.0	0	0.0	0	0.0	0	0.0	30	.7
140	8	.2	0	0.0	0	0.0	0	0.0	0	0.0	8	.2
150	10	.2	2	.0	0	0.0	0	0.0	0	0.0	12	.3
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	9	.2	0	0.0	0	0.0	0	0.0	0	0.0	9	.2
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.1
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	12	.3	1	.0	0	0.0	0	0.0	0	0.0	13	.3
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	11	.3	7	.2	0	0.0	0	0.0	0	0.0	18	.4
280	6	.1	1	.0	0	0.0	0	0.0	0	0.0	7	.2
290	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
300	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
330	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
340	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.1
350	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
360	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
152	3.8		15	.4	0	0.0	0	0.0	0	0.0	167	4.1

MEAN WIND SPEED 1

LOCATION 100FT TURBULENCE CLASS

2

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	5	.1	22	.4	6	.1	7	.2	0	0.0	40	1.0
20	11	.3	12	.3	4	.1	0	0.0	0	0.0	27	.7
30	9	.2	10	.2	4	.1	0	0.0	0	0.0	23	.6
40	3	.1	2	.0	3	.1	0	0.0	0	0.0	8	.2
50	1	.0	0	.0	2	.0	2	.0	0	0.0	7	.2
60	4	.1	5	.1	7	.2	3	.1	0	0.0	19	.5
70	5	.1	2	.0	2	.0	0	0.0	0	0.0	9	.2
80	2	.0	5	.1	2	.0	3	.0	0	0.0	9	.2
90	10	.2	7	.2	5	.1	0	0.0	0	0.0	22	.5
100	12	.3	12	.3	10	.2	5	.1	0	0.0	39	1.0
110	20	.5	21	.5	19	.5	11	.3	6	.1	77	1.9
120	93	1.3	51	1.3	35	.9	17	.3	3	.1	153	3.8
130	117	2.9	95	2.3	50	1.2	7	.2	0	0.0	269	6.6
140	87	2.1	67	1.7	27	.7	2	.0	0	0.0	184	4.5
150	100	2.5	60	1.5	12	.3	4	.1	0	0.0	176	4.3
160	24	.7	16	.4	0	0.0	0	0.0	0	0.0	34	.8
170	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
180	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	5	.1	2	.0	0	0.0	0	0.0	0	0.0	7	.2
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	4	.2	8	.2	0	0.0	0	0.0	0	0.0	16	.4
250	15	.4	17	.4	2	.0	0	0.0	0	0.0	34	.8
260	15	.4	25	.6	3	.1	0	0.0	0	0.0	43	1.1
270	27	.7	69	1.7	13	.3	0	0.0	0	0.0	109	2.7
280	22	.5	70	1.7	44	1.1	11	.3	0	0.0	149	3.7
290	11	.3	36	.9	40	1.0	11	.3	1	.0	90	2.4
300	13	.3	42	1.0	31	.8	4	.1	0	0.0	69	1.7
310	7	.2	32	.8	25	.6	5	.1	0	0.0	72	1.8
320	7	.2	19	.5	32	.8	14	.3	0	0.0	69	1.7
330	13	.3	20	.5	38	.9	21	.5	1	.0	93	2.3
340	4	.1	20	.5	31	.8	15	.4	3	.1	73	1.8
350	4	.1	37	.9	37	.9	15	.4	1	.0	94	2.3
360	14	.3	28	.7	27	.7	6	.1	1	.0	76	1.9
	644	15.9	805	19.9	510	12.6	154	3.8	16	.4	2131	52.6

MEAN WIND SPEED 6

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 100FT TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
20	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
30	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	3	0.1	2	0.0	0	0.0	0	0.0	0	0.0	5	0.1
100	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
110	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
120	13	0.3	2	0.0	0	0.0	0	0.0	0	0.0	15	0.4
130	24	0.6	12	0.3	0	0.0	0	0.0	0	0.0	36	0.9
140	12	0.3	9	0.2	1	0.0	0	0.0	0	0.0	22	0.5
150	21	0.5	11	0.3	3	0.1	0	0.0	0	0.0	35	0.9
160	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
270	3	0.1	3	0.1	1	0.0	0	0.0	0	0.0	7	0.2
280	6	0.1	14	0.3	0	0.0	0	0.0	0	0.0	20	0.5
290	1	0.0	2	0.0	1	0.0	0	0.0	0	0.0	4	0.1
300	4	0.1	6	0.1	4	0.1	2	0.0	0	0.0	16	0.4
310	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	3	0.1
320	2	0.0	2	0.0	1	0.0	0	0.0	0	0.0	5	0.1
330	4	0.1	6	0.1	0	0.0	0	0.0	0	0.0	10	0.2
340	3	0.1	1	0.0	0	0.0	0	0.0	0	0.0	4	0.1
350	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	2	0.0
360	3	0.1	0	0.0	1	0.0	0	0.0	0	0.0	4	0.1
111	2.7		76	1.9	13	0.3	2	0.0	0	0.0	202	5.0
MEAN WIND SPEED 3												

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION 100FT TURBULENCE CLASS				4				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	3	.1	3	.1
110	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
120	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
130	2	.0	10	.2	5	.1	0	0.0	0	0.0	17	.4
140	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.1
150	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
250	0	0.0	3	.1	0	0.0	0	0.0	0	0.0	3	.1
260	0	0.0	1	.0	5	.1	0	0.0	0	0.0	6	.1
270	1	.0	3	.1	4	.1	0	0.0	0	0.0	8	.2
280	0	0.0	0	0.0	2	.0	10	.2	0	0.0	12	.3
290	0	0.0	0	0.0	7	.2	5	.1	0	0.0	12	.3
300	0	0.0	1	.0	3	.1	3	.1	0	0.0	7	.2
310	0	0.0	2	.0	0	0.0	2	.0	0	0.0	4	.1
320	0	0.0	0	0.0	2	.0	1	.0	0	0.0	3	.1
330	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
340	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	2	.0
350	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
360	0	0.0	0	0.0	0	0.0	5	.1	0	0.0	5	.1
10	2		22	.5	39	1.0	31	.8	3	.1	105	2.6
MEAN WIND SPEED 10												

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS

LOCATION 100F1 TURBULENCE CLASS

5

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	13	.3	2	.0	0	0.0	0	0.0	0	0.0	15	.4
20	14	.3	1	.0	0	0.0	0	0.0	0	0.0	15	.4
30	22	.5	0	0.0	0	0.0	0	0.0	0	0.0	22	.5
40	11	.3	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
50	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
60	8	.2	0	0.0	0	0.0	0	0.0	0	0.0	8	.2
70	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
80	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
90	11	.3	1	.0	0	0.0	0	0.0	0	0.0	12	.3
100	21	.5	1	.0	0	0.0	0	0.0	0	0.0	22	.5
110	24	.6	0	0.0	0	0.0	0	0.0	0	0.0	24	.6
120	61	1.5	3	.1	0	0.0	0	0.0	0	0.0	64	1.6
130	94	2.3	2	.0	0	0.0	0	0.0	0	0.0	96	2.4
140	61	1.5	2	.0	1	.0	0	0.0	0	0.0	64	1.6
150	98	2.4	7	.2	0	0.0	0	0.0	0	0.0	105	2.6
160	72	1.8	0	0.0	0	0.0	0	0.0	0	0.0	72	1.8
170	25	.6	0	0.0	0	0.0	0	0.0	0	0.0	25	.6
180	48	1.2	0	0.0	0	0.0	0	0.0	0	0.0	48	1.2
190	29	.7	0	0.0	0	0.0	0	0.0	0	0.0	29	.7
200	17	.4	0	0.0	0	0.0	0	0.0	0	0.0	17	.4
210	43	1.1	0	0.0	0	0.0	0	0.0	0	0.0	43	1.1
220	29	.7	0	0.0	0	0.0	0	0.0	0	0.0	29	.7
230	21	.5	0	0.0	0	0.0	0	0.0	0	0.0	21	.5
240	62	1.5	1	.0	0	0.0	0	0.0	0	0.0	63	1.6
250	69	1.7	4	.1	1	.0	0	0.0	0	0.0	73	1.9
260	65	1.6	39	1.0	7	.2	0	0.0	0	0.0	72	1.8
270	121	3.0	12	.3	1	.0	0	0.0	0	0.0	133	3.3
280	66	1.6	12	.3	0	0.0	0	0.0	0	0.0	78	1.9
290	31	.8	4	.1	0	0.0	0	0.0	0	0.0	35	.9
300	34	.8	5	.1	0	0.0	0	0.0	0	0.0	39	1.0
310	19	.5	0	0.0	0	0.0	0	0.0	0	0.0	19	.5
320	24	.6	0	0.0	0	0.0	0	0.0	0	0.0	24	.6
330	24	.6	1	.0	1	.0	0	0.0	0	0.0	25	.6
340	14	.3	2	.0	1	.0	0	0.0	0	0.0	16	.4
350	2	.0	2	.0	1	.0	0	0.0	0	0.0	4	.1
360	28	.7	2	.0	0	0.0	0	0.0	0	0.0	30	.7
1320		32.6	116	2.9	12	.3	0	0.0	0	0.0	1448	35.7

MEAN WIND SPEED 1

WIND ROSE FOR STATION 11 APR-JUN, 2YRS

LOCATION 100F1 ALL CLASSES

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	19	.5	25	.6	4	.1	7	.2	0	0.0	57	1.4
20	26	.6	13	.3	4	.1	0	0.0	0	0.0	43	1.1
30	40	1.0	10	.2	4	.1	0	0.0	0	0.0	54	1.3
40	18	.4	2	.0	3	.1	0	0.0	0	0.0	23	.6
50	9	.2	2	.0	2	.0	2	.0	0	0.0	15	.4
60	16	.4	5	.1	7	.2	3	.1	0	0.0	31	.8
70	13	.3	2	.0	2	.0	0	0.0	0	0.0	17	.4
80	9	.2	5	.1	2	.0	0	0.0	0	0.0	16	.4
90	26	.6	10	.2	5	.1	0	0.0	0	0.0	41	1.0
100	35	.9	14	.3	10	.2	5	.1	3	.1	67	1.7
110	52	1.3	22	.5	19	.5	12	.3	6	.1	111	2.7
120	143	3.5	56	1.4	36	.9	12	.3	3	.1	250	6.2
130	266	6.6	120	3.0	55	1.4	7	.2	0	0.0	448	11.1
140	170	4.2	80	2.0	30	.7	2	.0	0	0.0	282	7.0
150	230	5.7	80	2.0	15	.4	4	.1	0	0.0	329	8.1
160	101	2.5	6	.1	0	0.0	0	0.0	0	0.0	107	2.6
170	28	.7	0	0.0	0	0.0	0	0.0	0	0.0	28	.7
180	62	1.5	1	.0	0	0.0	0	0.0	0	0.0	63	1.6
190	31	.8	0	0.0	0	0.0	0	0.0	0	0.0	31	.8
200	13	.3	0	0.0	0	0.0	0	0.0	0	0.0	13	.3
210	50	1.2	3	.1	0	0.0	0	0.0	0	0.0	53	1.3
220	31	.8	0	0.0	0	0.0	0	0.0	0	0.0	31	.8
230	22	.5	0	0.0	0	0.0	0	0.0	0	0.0	22	.5
240	85	2.1	10	.2	0	0.0	0	0.0	0	0.0	95	2.3
250	84	2.1	28	.7	3	.1	0	0.0	0	0.0	115	2.8
260	102	2.5	65	1.6	15	.4	0	0.0	0	0.0	182	4.5
270	163	4.0	101	2.5	19	.5	0	0.0	0	0.0	283	7.0
280	100	2.5	97	2.4	48	1.2	21	.5	0	0.0	266	6.6
290	44	1.1	44	1.1	48	1.2	15	.4	1	.0	153	3.8
300	57	1.4	54	1.3	38	.9	9	.2	0	0.0	158	3.9
310	26	.6	36	.9	35	.9	7	.2	0	0.0	104	2.6
320	34	.8	21	.5	35	.9	15	.4	0	0.0	105	2.6
330	44	1.1	27	.7	40	1.0	21	.5	1	.0	133	3.3
340	23	.6	24	.6	31	.8	17	.4	3	.1	98	2.4
350	19	.5	41	1.0	34	.8	16	.4	1	.0	111	2.7
360	48	1.2	30	.7	28	.7	11	.3	1	.0	118	2.9
2739		55.2	1134	25.5	574	14.2	187	4.6	19	.5	4053	100.0

MEAN WIND SPEED 4
3 720

MISSING HOURS 318

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION HILL TURBULENCE CLASS				1				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
20	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
30	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
50	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
60	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
70	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
80	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
90	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
100	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
160	0	0.0	5	.1	1	.0	1	.0	0	0.0	7	.2
170	1	.0	8	.2	4	.1	0	0.0	0	0.0	13	.3
180	3	.1	3	.1	1	.0	3	.1	0	0.0	10	.3
190	1	.0	10	.3	3	.1	0	0.0	0	0.0	14	.4
200	2	.1	8	.2	2	.1	4	.1	0	0.0	16	.4
210	2	.1	8	.2	3	.1	4	.1	0	0.0	17	.4
220	2	.1	6	.2	2	.1	0	0.0	0	0.0	10	.3
230	2	.1	2	.1	0	0.0	1	.0	0	0.0	5	.1
240	4	.1	4	.1	0	0.0	1	.0	0	0.0	9	.2
250	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
360	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
50	1.3		64	1.7	16	.4	14	.4	0	0.0	144	3.7
MEAN WIND SPEED 5												

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION HILL TURBULENCE CLASS				2				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	9	.2	17	.4	16	.4	9	.2	2	.1	53	1.4
20	7	.2	17	.4	12	.3	2	.1	1	.0	39	1.0
30	7	.2	15	.4	7	.2	0	0.0	0	0.0	29	.8
40	14	.4	19	.5	8	.2	1	.0	0	0.0	42	1.1
50	5	.1	4	.1	12	.3	4	.1	1	.0	26	.7
60	15	.4	12	.3	8	.2	5	.1	2	.1	42	1.1
70	13	.3	11	.3	2	.1	10	.3	2	.1	38	1.0
80	10	.3	21	.5	3	.1	4	.1	0	0.0	38	1.0
90	15	.4	22	.6	20	.5	6	.2	0	0.0	63	1.6
100	19	.5	36	.9	10	.3	8	.2	0	0.0	73	1.9
110	22	.6	35	.9	16	.4	8	.2	3	.1	84	2.2
120	23	.6	38	1.0	15	.4	2	.1	0	0.0	78	2.0
130	22	.6	23	.6	14	.4	0	0.0	0	0.0	59	1.5
140	21	.5	31	.8	11	.3	0	0.0	0	0.0	43	1.1
150	32	.8	25	.7	10	.3	0	0.0	0	0.0	67	1.7
160	33	.9	24	.6	23	.6	6	.2	0	0.0	86	2.2
170	10	.3	19	.5	32	.8	13	.3	0	0.0	74	1.9
180	27	.7	45	1.2	7	.2	9	.2	0	0.0	88	2.3
190	21	.5	38	1.0	12	.3	1	.0	0	0.0	72	1.9
200	6	.2	20	.5	12	.3	0	0.0	0	0.0	38	1.0
210	18	.5	28	.7	4	.1	0	0.0	0	0.0	50	1.3
220	21	.5	26	.7	5	.1	0	0.0	0	0.0	52	1.4
230	6	.2	13	.3	4	.1	0	0.0	0	0.0	23	.6
240	14	.4	17	.4	19	.5	4	.1	0	0.0	54	1.4
250	16	.4	18	.5	10	.3	2	.1	0	0.0	46	1.2
260	17	.4	15	.4	5	.1	1	.0	0	0.0	38	1.0
270	25	.7	28	.7	6	.2	2	.1	0	0.0	61	1.6
280	9	.2	26	.7	14	.4	3	.1	0	0.0	52	1.4
290	5	.1	16	.4	14	.4	2	.1	0	0.0	37	1.0
300	27	.7	23	.6	4	.1	0	0.0	0	0.0	54	1.4
310	19	.5	25	.7	12	.3	0	0.0	0	0.0	56	1.5
320	6	.2	16	.4	4	.1	0	0.0	0	0.0	26	.7
330	18	.5	34	.9	21	.5	7	.2	0	0.0	80	2.1
340	9	.2	28	.7	30	.8	10	.3	0	0.0	77	2.0
350	8	.2	26	.7	26	.7	2	.1	0	0.0	62	1.6
360	11	.3	22	.6	25	.7	5	.1	0	0.0	63	1.6
560	14.6		433	21.7	453	11.0	126	3.3	11	.3	1983	51.6
MEAN WIND SPEED 6												

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS

LOCATION HILL TURBULENCE CLASS

3

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT	SUM		
10	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
20	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
30	4	.1	2	.1	0	0.0	0	0.0	0	0.0	6	.2
40	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
50	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
60	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
70	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
80	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.1
90	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
120	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
130	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
140	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
150	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3	.1
160	1	.0	7	.2	6	.2	10	.3	0	0.0	24	.6
170	1	.0	4	.1	13	.3	1	.0	0	0.0	19	.5
180	5	.1	4	.1	1	.0	0	0.0	0	0.0	10	.3
190	2	.1	14	.4	7	.2	0	0.0	0	0.0	23	.6
200	1	.0	5	.1	4	.1	0	0.0	0	0.0	10	.3
210	2	.1	12	.3	2	.1	1	.0	0	0.0	17	.4
220	0	0.0	3	.1	1	.0	0	0.0	0	0.0	4	.1
230	0	0.0	3	.1	0	0.0	0	0.0	0	0.0	3	.1
240	4	.1	4	.1	0	0.0	0	0.0	0	0.0	8	.2
250	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
260	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
270	2	.1	1	.0	1	.0	0	0.0	0	0.0	4	.1
280	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
290	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
300	2	.1	4	.1	4	.1	0	0.0	0	0.0	10	.3
310	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3	.1
320	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
330	1	.0	3	.1	0	0.0	0	0.0	0	0.0	4	.1
340	1	.0	3	.1	0	0.0	0	0.0	0	0.0	4	.1
350	1	.0	3	.1	2	.1	0	0.0	0	0.0	6	.2
360	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
	44	1.1	96	2.5	46	1.2	12	.3	0	0.0	198	5.2

MEAN WIND SPEED 6

WIND ROSE FOR STATION 11 APR-JUN, 2YRS

LOCATION HILL TURBULENCE CLASS

4

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT	SUM		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
100	0	0.0	0	0.0	0	0.0	1	.0	1	.0	2	.1
110	0	0.0	0	0.0	0	0.0	0	0.0	2	.1	2	.1
120	2	.1	1	.0	0	0.0	1	.0	0	0.0	4	.1
130	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3	.1
140	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3	.1
150	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
160	0	0.0	1	.0	0	0.0	1	.0	0	0.0	2	.1
170	0	0.0	0	0.0	6	.2	0	0.0	0	0.0	6	.2
180	0	0.0	2	.1	2	.1	0	0.0	0	0.0	5	.1
190	0	0.0	2	.1	2	.1	0	0.0	0	0.0	4	.1
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.0	4	.1	0	0.0	0	0.0	0	0.0	5	.1
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
240	1	.0	3	.1	1	.0	0	0.0	0	0.0	6	.2
250	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
260	4	.1	4	.1	1	.0	0	0.0	0	0.0	9	.2
270	0	0.0	1	.0	3	.1	2	.1	0	0.0	6	.2
280	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
290	0	0.0	3	.1	1	.0	0	0.0	0	0.0	4	.1
300	0	0.0	1	.0	4	.1	0	0.0	0	0.0	5	.1
310	0	0.0	1	.0	2	.1	3	.1	0	0.0	6	.2
320	1	.0	7	.2	2	.1	0	0.0	0	0.0	10	.3
330	1	.0	6	.2	1	.0	0	0.0	0	0.0	8	.2
340	0	0.0	2	.1	3	.1	0	0.0	0	0.0	5	.1
350	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.1
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	13	.3	44	1.1	35	.9	14	.4	3	.1	109	2.8

MEAN WIND SPEED 7

PBAPS

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION HILL		TURBULENCE CLASS		5				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	10	.3	2	.1	0	0.0	0	0.0	0	0.0	12	.3
20	9	.2	3	.1	0	0.0	0	0.0	0	0.0	12	.3
30	20	.5	6	.2	0	0.0	0	0.0	0	0.0	26	.7
40	24	.6	0	0.0	0	0.0	0	0.0	0	0.0	24	.6
50	14	.4	0	0.0	0	0.0	0	0.0	0	0.0	14	.4
60	32	.8	4	.1	1	.0	0	0.0	0	0.0	37	1.0
70	15	.4	4	.2	0	0.0	0	0.0	0	0.0	21	.5
80	17	.4	5	.1	1	.0	0	0.0	0	0.0	23	.6
90	35	.9	0	0.0	1	.0	0	0.0	0	0.0	36	.9
100	20	.5	5	.1	0	0.0	0	0.0	0	0.0	25	.7
110	15	.4	5	.1	0	0.0	0	0.0	0	0.0	20	.5
120	30	.8	3	.1	0	0.0	0	0.0	0	0.0	33	.9
130	26	.7	1	.0	0	0.0	0	0.0	0	0.0	27	.7
140	16	.4	0	0.0	0	0.0	0	0.0	0	0.0	16	.4
150	48	1.2	6	.2	0	0.0	0	0.0	0	0.0	54	1.4
160	40	1.0	7	.2	0	0.0	0	0.0	0	0.0	47	1.2
170	18	.5	7	.2	4	.1	0	0.0	0	0.0	29	.8
180	61	1.6	3	.1	1	.0	0	0.0	0	0.0	65	1.7
190	38	1.0	11	.3	0	0.0	0	0.0	0	0.0	49	1.3
200	32	.8	17	.4	1	.0	0	0.0	0	0.0	50	1.3
210	82	2.1	16	.4	0	0.0	0	0.0	0	0.0	98	2.5
220	67	1.7	15	.4	0	0.0	0	0.0	0	0.0	82	2.1
230	58	1.5	7	.2	0	0.0	0	0.0	0	0.0	65	1.7
240	75	2.0	8	.2	0	0.0	0	0.0	0	0.0	83	2.2
250	68	1.8	8	.2	0	0.0	0	0.0	0	0.0	76	2.0
260	53	1.4	1	.0	0	0.0	0	0.0	0	0.0	59	1.5
270	80	2.1	1	.0	0	0.0	0	0.0	0	0.0	81	2.1
280	45	1.2	2	.0	0	0.0	0	0.0	0	0.0	47	1.2
290	28	.7	0	0.0	0	0.0	0	0.0	0	0.0	28	.7
300	43	1.1	1	.0	0	0.0	0	0.0	0	0.0	44	1.1
310	15	.4	1	.0	0	0.0	0	0.0	0	0.0	16	.4
320	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
330	37	1.0	1	.0	2	.1	0	0.0	0	0.0	40	1.0
340	16	.4	4	.1	1	.0	0	0.0	0	0.0	21	.5
350	9	.2	6	.2	4	.1	0	0.0	0	0.0	19	.5
360	17	.4	6	.2	1	.0	0	0.0	0	0.0	24	.6
	1220	31.7	173	4.5	17	.4	0	0.0	0	0.0	1410	36.7
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 APR-JUN, 2YRS				LOCATION HILL		ALL CLASSES						
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	20	.5	22	.6	16	.4	9	.2	2	.1	69	1.8
20	18	.5	22	.6	13	.3	2	.1	1	.0	56	1.5
30	32	.8	23	.6	7	.2	0	0.0	0	0.0	62	1.6
40	43	1.1	20	.5	8	.2	1	.0	0	0.0	72	1.9
50	24	.6	4	.1	12	.3	4	.1	1	.0	45	1.2
60	55	1.4	14	.4	9	.2	5	.1	2	.1	89	2.3
70	31	.8	18	.5	3	.1	10	.3	2	.1	64	1.7
80	31	.8	30	.8	4	.1	4	.1	0	0.0	69	1.8
90	54	1.4	24	.6	23	.6	6	.2	0	0.0	107	2.8
100	40	1.0	42	1.1	10	.3	9	.2	1	.0	102	2.7
110	40	1.0	41	1.1	16	.4	8	.2	5	.1	110	2.9
120	60	1.6	42	1.1	15	.4	3	.1	0	0.0	120	3.1
130	48	1.2	24	.7	16	.4	0	0.0	0	0.0	90	2.3
140	37	1.0	33	.9	13	.3	0	0.0	0	0.0	83	2.2
150	80	2.1	35	.9	11	.3	0	0.0	0	0.0	126	3.3
160	74	1.9	44	1.1	30	.8	18	.5	0	0.0	166	4.3
170	30	.8	38	1.0	59	1.5	14	.4	0	0.0	141	3.7
180	95	2.5	57	1.5	11	.3	14	.4	0	0.0	178	4.6
190	62	1.6	75	2.0	24	.6	1	.0	0	0.0	162	4.2
200	41	1.1	20	.5	19	.5	4	.1	0	0.0	114	3.0
210	105	2.7	68	1.8	9	.2	5	.1	0	0.0	187	4.9
220	91	2.4	50	1.3	8	.2	0	0.0	0	0.0	149	3.9
230	66	1.7	26	.7	4	.1	1	.0	0	0.0	97	2.5
240	98	2.6	36	.9	20	.5	6	.2	0	0.0	160	4.2
250	87	2.3	31	.8	10	.3	2	.1	0	0.0	130	3.4
260	74	1.9	26	.7	6	.2	1	.0	0	0.0	107	2.8
270	108	2.8	31	.8	10	.3	4	.1	0	0.0	153	4.0
280	55	1.4	30	.8	15	.4	8	.2	0	0.0	108	2.8
290	33	.9	20	.5	16	.4	2	.1	0	0.0	71	1.8
300	72	1.9	29	.8	12	.3	0	0.0	0	0.0	113	2.9
310	34	.9	29	.8	15	.4	0	0.0	0	0.0	78	2.0
320	14	.4	24	.6	6	.2	0	0.0	0	0.0	44	1.1
330	57	1.5	44	1.1	24	.6	7	.2	0	0.0	132	3.4
340	26	.7	37	1.0	34	.9	10	.3	0	0.0	107	2.8
350	19	.5	35	.9	33	.9	3	.1	0	0.0	90	2.3
360	32	.8	30	.8	26	.7	5	.1	0	0.0	93	2.4
1887 49.1 1210 31.5 567 14.8 166 4.3 14 .4											3844	100.0
											MISSING HOURS 524	
MEAN WIND SPEED 4												

PBAPS

WIND ROSE FOR STATION 12 APR-JUN, 2YRS				LOCATION 75FT		TURBULENCE CLASS		1				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
20	2	0,0	0	0,0	0	0,0	0	0,0	0	0,0	2	0,0
30	1	0,0	1	0,0	0	0,0	0	0,0	0	0,0	2	0,0
40	3	0,1	0	0,0	0	0,0	0	0,0	0	0,0	3	0,1
50	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
60	3	0,1	0	0,0	0	0,0	0	0,0	0	0,0	3	0,1
70	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	1	0,0
80	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
90	5	0,1	0	0,0	0	0,0	0	0,0	0	0,0	5	0,1
100	2	0,0	0	0,0	0	0,0	0	0,0	0	0,0	2	0,0
110	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
120	3	0,1	0	0,0	0	0,0	0	0,0	0	0,0	3	0,1
130	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
140	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
150	3	0,1	0	0,0	0	0,0	0	0,0	0	0,0	3	0,1
160	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
170	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
180	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
190	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
200	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
210	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
220	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
230	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	1	0,0
240	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
250	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	1	0,0
260	0	0,0	0	0,0	1	0,0	0	0,0	0	0,0	1	0,0
270	0	0,0	2	0,0	1	0,0	0	0,0	0	0,0	3	0,1
280	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
290	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	1	0,0
300	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
310	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
320	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
330	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
340	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
350	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
360	2	0,0	0	0,0	0	0,0	0	0,0	0	0,0	2	0,0
27	27	,6	7	,2	2	,0	0	0,0	0	0,0	36	,8
MEAN WIND SPEED 2												

MEAN WIND SPEED

2

WIND ROSE FOR STATION 12 APR-JUN, 2YRS				LOCATION 75FT		TURBULENCE CLASS		2				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	7	.2	22	.5	19	.4	6	.1	0	0.0	54	1.3
20	10	.2	29	.7	24	.6	7	.2	0	0.0	70	1.6
30	9	.2	41	1.0	30	.7	4	.1	0	0.0	84	2.0
40	12	.3	12	.3	4	.1	1	0.0	0	0.0	29	.7
50	14	.3	3	.1	1	0.0	1	0.0	0	0.0	19	.4
60	26	.6	14	.3	1	0.0	1	0.0	0	0.0	42	1.0
70	31	.7	6	.1	0	0.0	0	0.0	0	0.0	37	.9
80	8	.2	2	.0	0	0.0	1	0.0	0	0.0	11	.3
90	29	.7	9	.2	1	0.0	1	0.0	0	0.0	40	.9
100	20	.5	24	.6	2	.0	0	0.0	0	0.0	46	1.1
110	20	.5	33	.8	11	.3	1	0.0	0	0.0	65	1.5
120	23	.5	42	1.0	29	.7	3	.1	0	0.0	97	2.3
130	11	.3	54	1.3	41	1.0	11	.3	0	0.0	117	2.7
140	11	.3	38	.9	29	.7	2	.0	0	0.0	80	1.9
150	18	.4	48	1.1	32	.8	3	.1	0	0.0	101	2.3
160	11	.3	46	1.1	14	.3	2	.0	0	0.0	73	1.7
170	12	.3	24	.6	18	.4	14	.3	0	0.0	68	1.6
180	14	.3	48	1.1	68	1.6	35	.8	6	.1	171	4.0
190	11	.3	38	.9	79	1.8	41	1.0	1	.0	170	4.0
200	5	.1	26	.6	29	.7	18	.4	0	0.0	78	1.8
210	6	.1	35	.8	30	.7	20	.5	3	.1	94	2.2
220	4	.1	11	.3	19	.4	3	.1	1	.0	38	.9
230	2	.0	4	.1	12	.3	3	.1	0	0.0	21	.5
240	4	.1	15	.3	22	.5	4	.1	0	0.0	45	1.0
250	8	.2	6	.1	16	.4	8	.2	0	0.0	38	.9
260	6	.1	6	.1	14	.3	1	.0	0	0.0	27	.6
270	12	.3	21	.5	35	.8	19	.4	2	.0	89	2.1
280	2	.0	12	.3	43	1.0	19	.4	1	.0	77	1.8
290	1	.0	19	.4	28	.7	18	.4	0	0.0	66	1.5
300	9	.2	19	.4	45	1.0	7	.2	0	0.0	80	1.9
310	4	.1	16	.4	22	.5	7	.2	0	0.0	49	1.1
320	4	.1	12	.3	19	.4	3	.1	0	0.0	38	.9
330	11	.3	17	.4	24	.6	20	.5	0	0.0	72	1.7
340	5	.1	17	.4	60	1.4	27	.6	0	0.0	109	2.5
350	1	.0	16	.4	42	1.0	15	.3	1	.0	75	1.7
360	10	.2	20	.5	27	.6	14	.3	0	0.0	71	1.7
	391	9.1	805	18.7	890	20.7	340	7.9	15	.3	2441	56.7

MEAN WIND SPEED

7

PBAPS

WIND ROSE FOR STATION 12 APR-JUN, 2YRS				LOCATION 75FT		TURBULENCE CLASS		3					
				SPEEDS (MI/HR)									
		0-3		4-7		8-12		13-18		19 PLUS			
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	
10	0	0,0	2	,0	0	0,0	0	0,0	0	0,0	2	,0	
20	4	,1	3	,1	0	0,0	0	0,0	0	0,0	7	,2	
30	3	,1	2	,0	2	,0	0	0,0	0	0,0	7	,2	
40	3	,1	3	,1	0	0,0	0	0,0	0	0,0	6	,1	
50	3	,1	1	,0	0	0,0	0	0,0	0	0,0	4	,1	
60	3	,1	2	,0	0	0,0	0	0,0	0	0,0	5	,1	
70	3	,1	1	,0	0	0,0	0	0,0	0	0,0	4	,1	
80	3	,1	0	0,0	0	0,0	0	0,0	0	0,0	3	,1	
90	3	,1	0	0,0	0	0,0	0	0,0	0	0,0	3	,1	
100	9	,2	1	,0	0	0,0	0	0,0	0	0,0	10	,2	
110	6	,1	3	,1	0	0,0	0	0,0	0	0,0	9	,2	
120	7	,2	6	,1	0	0,0	0	0,0	0	0,0	13	,3	
130	5	,1	0	0,0	0	0,0	0	0,0	0	0,0	5	,1	
140	1	,0	1	,0	0	0,0	0	0,0	0	0,0	2	,0	
150	2	,0	2	,0	1	,0	0	0,0	0	0,0	5	,1	
160	2	,0	2	,0	1	,0	0	0,0	0	0,0	5	,1	
170	0	0,0	1	,0	0	0,0	0	0,0	0	0,0	1	,0	
180	1	,0	3	,1	0	0,0	0	0,0	0	0,0	4	,1	
190	0	0,0	2	,0	1	,0	0	0,0	0	0,0	3	,1	
200	1	,0	1	,0	0	0,0	0	0,0	0	0,0	2	,0	
210	3	,1	1	,0	0	0,0	0	0,0	0	0,0	4	,1	
220	0	0,0	3	,1	0	0,0	0	0,0	0	0,0	3	,1	
230	1	,0	2	,0	0	0,0	0	0,0	0	0,0	3	,1	
240	2	,0	0	0,0	1	,0	0	0,0	0	0,0	3	,1	
250	0	0,0	2	,0	1	,0	0	0,0	0	0,0	3	,1	
260	1	,0	0	0,0	1	,0	0	0,0	0	0,0	2	,0	
270	1	,0	3	,1	1	,0	0	0,0	0	0,0	5	,1	
280	0	0,0	2	,0	0	0,0	0	0,0	0	0,0	2	,0	
290	0	0,0	2	,0	0	0,0	0	0,0	0	0,0	2	,0	
300	0	0,0	0	0,0	1	,0	2	,0	0	0,0	3	,1	
310	1	,0	0	0,0	0	0,0	0	0,0	0	0,0	1	,0	
320	0	0,0	1	,0	0	0,0	0	0,0	0	0,0	1	,0	
330	2	,0	5	,1	0	0,0	0	0,0	0	0,0	7	,2	
340	1	,0	6	,1	2	,0	0	0,0	0	0,0	9	,2	
350	2	,0	0	0,0	2	,0	0	0,0	0	0,0	4	,1	
360	1	,0	3	,1	3	,1	0	0,0	0	0,0	7	,2	
74	1,7		66	1,5	17	,4	2	,0	0	0,0	159	3,7	
MEAN WIND SPEED 4													

WIND ROSE FOR STATION 12 APR-JUN, 2YRS				LOCATION 75FT		TURBULENCE CLASS						
		SPEEDS (MI/HR)										
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	0	0,0	1	,0	6	,1	0	0,0	0	0,0	7	,2
20	1	,0	1	,0	1	,0	0	0,0	0	0,0	3	,1
30	0	0,0	2	,0	3	,1	0	0,0	0	0,0	5	,1
40	0	0,0	2	,0	7	,2	0	0,0	0	0,0	9	,2
50	0	0,0	7	,2	0	0,0	0	0,0	0	0,0	7	,2
60	0	0,0	2	,0	5	,1	0	0,0	0	0,0	7	,2
70	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
80	0	0,0	4	,1	1	,0	0	0,0	0	0,0	5	,1
90	0	0,0	4	,1	11	,3	0	0,0	0	0,0	15	,3
100	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
110	0	0,0	0	0,0	2	,0	0	0,0	0	0,0	2	,0
120	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
130	0	0,0	1	,0	2	,0	1	,0	0	0,0	4	,1
140	0	0,0	4	,1	2	,0	0	0,0	0	0,0	6	,1
150	0	0,0	3	,1	1	,0	0	0,0	0	0,0	4	,1
160	1	,0	2	,0	2	,0	0	0,0	0	0,0	5	,1
170	0	0,0	2	,0	7	,2	1	,0	0	0,0	10	,2
180	3	,1	3	,1	11	,3	12	,3	2	,0	31	,7
190	1	,0	1	,0	14	,3	24	,6	7	,2	47	1,1
200	1	,0	2	,0	7	,2	14	,3	1	,0	25	,6
210	2	,0	6	,1	9	,2	6	,1	4	,1	27	,6
220	1	,0	1	,0	0	0,0	1	,0	1	,0	4	,1
230	0	0,0	0	0,0	1	,0	0	0,0	0	0,0	1	,0
240	0	0,0	0	0,0	0	0,0	1	,0	0	0,0	1	,0
250	3	,1	1	,0	4	,1	0	0,0	0	0,0	8	,2
260	0	0,0	1	,0	2	,0	0	0,0	0	0,0	3	,1
270	2	,0	0	0,0	8	,2	0	0,0	0	0,0	10	,2
280	0	0,0	4	,1	13	,3	2	,0	0	0,0	19	,4
290	0	0,0	3	,1	9	,2	0	0,0	0	0,0	12	,3
300	0	0,0	2	,0	12	,3	3	,1	0	0,0	17	,4
310	1	,0	3	,1	6	,1	1	,0	0	0,0	11	,3
320	0	0,0	3	,1	6	,1	2	,0	0	0,0	11	,3
330	0	0,0	5	,1	16	,4	6	,1	0	0,0	27	,6
340	0	0,0	1	,0	15	,3	6	,1	0	0,0	22	,5
350	0	0,0	1	,0	4	,1	6	,1	2	,0	13	,3
360	0	0,0	1	,0	6	,1	2	,0	0	0,0	9	,2
16	,4		73	1,7	193	4,5	88	2,0	17	,4	387	9,0
MEAN WIND SPEED 10												

PBAPS

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION 75FT TURBULENCE CLASS

5

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	13	.3	9	.2	0	0.0	0	0.0	0	0.0	22	.5
20	18	.4	8	.2	1	1.0	0	0.0	0	0.0	27	.6
30	18	.4	5	.1	0	0.0	0	0.0	1	1.0	24	.6
40	10	.2	4	.1	0	0.0	0	0.0	0	0.0	14	.3
50	6	.1	2	.0	1	1.0	0	0.0	0	0.0	9	.2
60	19	.4	0	0.0	0	0.0	0	0.0	0	0.0	19	.4
70	22	.5	0	0.0	0	0.0	0	0.0	0	0.0	22	.5
80	7	.2	2	.0	0	0.0	0	0.0	0	0.0	9	.2
90	14	.3	0	0.0	0	0.0	0	0.0	0	0.0	14	.3
100	17	.4	0	0.0	0	0.0	0	0.0	0	0.0	17	.4
110	18	.4	7	.2	1	1.0	0	0.0	0	0.0	26	.6
120	24	.6	19	.4	1	1.0	0	0.0	0	0.0	44	1.0
130	17	.4	17	.4	0	0.0	0	0.0	0	0.0	34	.8
140	16	.4	12	.3	0	0.0	0	0.0	0	0.0	30	.7
150	36	.8	10	.2	2	2.0	0	0.0	0	0.0	47	1.1
160	24	.6	24	.6	1	1.0	0	0.0	0	0.0	51	1.2
170	25	.6	16	.4	3	3.0	0	0.0	0	0.0	42	1.0
180	28	.7	19	.4	1	1.0	0	0.0	0	0.0	49	1.1
190	27	.6	30	.7	2	2.0	0	0.0	0	0.0	64	1.5
200	10	.2	18	.4	6	6.0	1	1.0	0	0.0	39	.9
210	14	.3	17	.4	11	11.0	0	0.0	0	0.0	33	.8
220	12	.3	12	.3	2	2.0	0	0.0	0	0.0	25	.6
230	10	.2	9	.2	3	3.0	0	0.0	0	0.0	13	.3
240	4	.1	13	.3	2	2.0	0	0.0	0	0.0	17	.4
250	10	.2	13	.3	8	8.0	0	0.0	0	0.0	23	.6
260	5	.1	14	.3	22	22.0	3	3.0	0	0.0	48	1.1
270	15	.4	20	.5	24	24.0	4	4.0	0	0.0	47	1.1
280	15	.4	17	.4	23	23.0	7	7.0	0	0.0	66	1.5
290	14	.3	34	.8	24	24.0	2	2.0	0	0.0	58	1.3
300	27	.6	13	.3	11	11.0	0	0.0	0	0.0	59	1.4
310	27	.6	22	.5	13	13.0	2	2.0	0	0.0	55	1.3
320	11	.3	18	.4	9	9.0	0	0.0	0	0.0	41	1.0
330	31	.7	23	.5	12	12.0	0	0.0	0	0.0	66	1.5
340	22	.5	15	.3	7	7.0	0	0.0	0	0.0	44	1.0
350	12	.3	9	.2	0	0.0	0	0.0	0	0.0	21	.5
360	22	.5	5	.1	1	1.0	0	0.0	0	0.0	28	.7
604	14.0		493	10.5	199	4.6	22	.5	1	.0	1279	29.7

MEAN WIND SPEED

4

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION 75FT ALL CLASSES

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	20	.5	34	.8	25	.6	6	.1	0	0.0	85	2.0
20	35	.8	41	1.0	26	.6	7	.2	0	0.0	109	2.5
30	31	.7	51	1.2	35	.8	4	.1	1	1.0	122	2.8
40	28	.7	21	.5	11	.3	1	.0	0	0.0	61	1.4
50	23	.5	13	.3	2	.0	1	.0	0	0.0	39	.9
60	51	1.2	18	.4	6	.1	1	.0	0	0.0	76	1.8
70	56	1.3	8	.2	0	0.0	0	0.0	0	0.0	64	1.5
80	18	.4	8	.2	1	.0	1	.0	0	0.0	28	.7
90	51	1.2	13	.3	12	.3	1	.0	0	0.0	77	1.8
100	48	1.1	25	.6	2	.0	0	0.0	0	0.0	75	1.7
110	44	1.0	43	1.0	14	.3	1	.0	0	0.0	102	2.4
120	57	1.3	67	1.6	30	.7	3	.1	0	0.0	157	3.6
130	33	.8	72	1.7	43	1.0	12	.3	0	0.0	160	3.7
140	28	.7	55	1.3	33	.8	2	.0	0	0.0	118	2.7
150	59	1.4	63	1.5	35	.8	3	.1	0	0.0	160	3.7
160	38	.9	74	1.7	20	.5	2	.0	0	0.0	134	3.1
170	37	.9	43	1.0	26	.6	15	.3	0	0.0	121	2.8
180	46	1.1	73	1.7	81	1.9	47	1.1	8	.2	255	5.9
190	39	.9	71	1.7	100	2.3	66	1.5	8	.2	284	6.6
200	18	.4	47	1.1	47	1.1	32	.7	1	.0	145	3.4
210	25	.6	59	1.4	41	1.0	26	.6	7	.2	159	3.7
220	15	.3	27	.6	22	.5	4	.1	2	.0	70	1.6
230	5	.1	16	.4	15	.3	3	.1	0	0.0	39	.9
240	20	.5	28	.7	31	.7	5	.1	0	0.0	84	2.0
250	21	.5	23	.5	43	1.0	11	.3	0	0.0	98	2.3
260	12	.3	21	.5	42	1.0	5	.1	0	0.0	80	1.9
270	31	.7	46	1.1	68	1.6	26	.6	2	.0	173	4.0
280	17	.4	35	.8	80	1.9	23	.5	1	.0	156	3.6
290	15	.3	59	1.4	48	1.1	18	.4	0	0.0	140	3.3
300	36	.8	34	.8	71	1.7	14	.3	0	0.0	155	3.6
310	16	.4	41	1.0	37	.8	8	.2	0	0.0	102	2.4
320	15	.3	34	.8	33	.8	5	.1	0	0.0	87	2.0
330	45	1.0	47	1.1	52	1.2	29	.7	0	0.0	173	4.0
340	28	.7	39	.9	84	2.0	33	.8	0	0.0	184	4.3
350	15	.3	26	.6	48	1.1	21	.5	3	.1	113	2.6
360	35	.8	29	.7	37	.8	16	.4	0	0.0	117	2.7
1112	25.8		1404	32.6	1301	30.2	452	10.5	33	.8	4302	100.0

MISSING HOURS 66

MEAN WIND SPEED

6

2 720

PBAPS

WIND ROSE FOR STATION 12 APR-JUN,2YRS

LOCATION 320FT TURBULENCE CLASS

1

DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
20	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
30	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
40	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
50	2	0,0	0	0,0	0	0,0	0	0,0	0	0,0	2	0,0
60	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
70	2	0,0	0	0,0	0	0,0	0	0,0	0	0,0	2	0,0
80	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
90	1	0,0	1	0,0	0	0,0	0	0,0	0	0,0	2	0,0
100	4	0,1	0	0,0	0	0,0	0	0,0	0	0,0	4	0,1
110	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
120	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
130	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
140	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
150	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
160	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
170	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
180	3	0,1	0	0,0	0	0,0	0	0,0	0	0,0	3	0,1
190	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
200	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	1	0,0
210	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
220	1	0,0	1	0,0	1	0,0	0	0,0	0	0,0	3	0,1
230	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
240	1	0,0	1	0,0	1	0,0	0	0,0	0	0,0	3	0,1
250	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
260	1	0,0	1	0,0	0	0,0	0	0,0	0	0,0	2	0,0
270	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
280	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
290	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
300	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0
310	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
320	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
330	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
340	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
350	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
360	1	0,0	1	0,0	0	0,0	0	0,0	0	0,0	2	0,0

PBAPS

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION\ 320FT TURBULENCE CLASS

3

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT	SUM	PERCENT		
10	0	0,0	2	,0	0	0,0	0	0,0	0	0,0	2	,0
20	2	,0	1	,0	0	0,0	0	0,0	0	0,0	3	,1
30	2	,0	2	,0	0	0,0	0	0,0	0	0,0	4	,1
40	2	,0	0	0,0	0	0,0	0	0,0	0	0,0	2	,0
50	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
60	6	,1	1	,0	0	0,0	0	0,0	0	0,0	7	,2
70	6	,1	0	0,0	0	0,0	0	0,0	0	0,0	6	,2
80	4	,1	1	,0	0	0,0	0	0,0	0	0,0	5	,1
90	4	,1	0	0,0	0	0,0	0	0,0	0	0,0	4	,1
100	2	,0	0	0,0	0	0,0	0	0,0	0	0,0	2	,0
110	4	,1	0	0,0	0	0,0	0	0,0	0	0,0	4	,1
120	3	,1	2	,0	0	0,0	0	0,0	0	0,0	5	,1
130	0	0,0	1	,0	0	0,0	0	0,0	0	0,0	1	,0
140	1	,0	1	,0	0	0,0	0	0,0	0	0,0	2	,0
150	1	,0	1	,0	0	0,0	0	0,0	0	0,0	2	,0
160	2	,0	3	,1	2	,0	0	0,0	0	0,0	7	,2
170	0	0,0	3	,1	2	,0	0	0,0	0	0,0	5	,1
180	0	0,0	4	,1	1	,0	0	0,0	0	0,0	5	,1
190	2	,0	1	,0	2	,0	0	0,0	0	0,0	5	,1
200	2	,0	0	0,0	0	0,0	0	0,0	0	0,0	2	,0
210	3	,1	2	,0	0	0,0	0	0,0	0	0,0	5	,1
220	2	,0	1	,0	3	,1	0	0,0	0	0,0	6	,1
230	1	,0	1	,0	2	,0	0	0,0	0	0,0	4	,1
240	1	,0	1	,0	1	,0	0	0,0	0	0,0	3	,1
250	1	,0	5	,1	2	,0	0	0,0	0	0,0	8	,2
260	1	,0	2	,0	1	,0	0	0,0	0	0,0	4	,1
270	2	,0	2	,0	0	0,0	0	0,0	0	0,0	4	,1
280	2	,0	4	,1	1	,0	0	0,0	0	0,0	7	,2
290	0	0,0	1	,0	0	0,0	0	0,0	0	0,0	1	,0
300	2	,0	2	,0	3	,1	0	0,0	2	,0	9	,2
310	0	0,0	0	0,0	3	,1	0	0,0	0	0,0	3	,1
320	0	0,0	4	,1	0	0,0	0	0,0	0	0,0	4	,1
330	0	0,0	8	,2	4	,1	0	0,0	0	0,0	12	,3
340	0	0,0	4	,1	2	,0	0	0,0	0	0,0	6	,1
350	0	0,0	2	,0	1	,0	0	0,0	0	0,0	3	,1
360	2	,0	1	,0	1	,0	0	0,0	0	0,0	4	,1
											156	3,7
											60	1,4
											63	1,5
											31	,7
											0	0,0
											2	,0

MEAN WIND SPEED 4

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION\ 320FT TURBULENCE CLASS

4

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT	SUM	PERCENT		
10	0	0,0	0	0,0	1	,0	0	0,0	0	0,0	1	,0
20	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
30	0	0,0	0	0,0	1	,0	1	,0	1	,0	3	,1
40	0	0,0	0	0,0	0	0,0	0	0,0	4	,1	4	,1
50	0	0,0	0	0,0	0	0,0	1	,0	6	,1	7	,2
60	0	0,0	1	,0	1	,0	1	,0	5	,1	8	,2
70	0	0,0	0	0,0	0	0,0	1	,0	0	0,0	1	,0
80	0	0,0	0	0,0	0	0,0	1	,0	0	0,0	1	,0
90	0	0,0	0	0,0	0	0,0	0	0,0	20	,5	20	,5
100	1	,0	0	0,0	0	0,0	0	0,0	2	,0	3	,1
110	0	0,0	0	0,0	0	0,0	1	,0	0	0,0	1	,0
120	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
130	0	0,0	0	0,0	2	,0	0	0,0	0	0,0	2	,0
140	0	0,0	0	0,0	0	0,0	4	,1	0	0,0	4	,1
150	0	0,0	0	0,0	0	0,0	2	,0	1	,0	3	,1
160	0	0,0	0	0,0	0	0,0	1	,0	1	,0	2	,0
170	0	0,0	0	0,0	9	,2	5	,1	4	,1	12	,3
180	0	0,0	0	0,0	1	,0	25	,6	6	,1	40	,10
190	0	0,0	1	,0	2	,0	15	,4	7	,2	24	,6
200	0	0,0	0	0,0	1	,0	10	,2	8	,2	20	,5
210	0	0,0	0	0,0	3	,1	4	,1	5	,1	12	,3
220	0	0,0	0	0,0	1	,0	3	,1	0	0,0	4	,1
230	0	0,0	0	0,0	2	,0	6	,1	2	,0	10	,2
240	0	0,0	0	0,0	0	0,0	6	,1	1	,0	7	,2
250	0	0,0	0	0,0	1	,0	2	,0	0	0,0	3	,1
260	0	0,0	0	0,0	0	0,0	2	,0	0	0,0	2	,0
270	0	0,0	0	0,0	2	,0	6	,1	1	,0	9	,2
280	0	0,0	0	0,0	0	0,0	9	,2	4	,1	13	,3
290	0	0,0	0	0,0	0	0,0	9	,2	6	,1	15	,4
300	0	0,0	0	0,0	2	,0	6	,1	11	,3	19	,5
310	0	0,0	0	0,0	0	0,0	7	,2	7	,2	14	,3
320	0	0,0	0	0,0	0	0,0	9	,2	4	,1	13	,3
330	0	0,0	0	0,0	2	,0	24	,6	12	,3	38	,9
340	0	0,0	0	0,0	0	0,0	12	,3	3	,1	15	,4
350	0	0,0	0	0,0	2	,0	1	,0	6	,1	9	,2
360	0	0,0	0	0,0	1	,0	5	,1	2	,0	8	,2
											347	8,3
											1	,0
											2	,0
											36	,9
											179	4,3
											129	3,1

MEAN WIND SPEED 17

PBAPS

WIND ROSE FOR STATION 12 APR-JUN, 2YRS				LOCATION 320FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	2	.0	12	.3	8	.2	2	.0	0	0.0	24	.6
20	1	.0	3	.1	10	.2	1	.0	0	0.0	15	.4
30	5	.1	7	.2	6	.1	0	0.0	0	0.0	18	.4
40	1	.0	4	.1	5	.1	0	0.0	0	0.0	10	.2
50	0	0.0	6	.1	6	.1	0	0.0	0	0.0	12	.3
60	1	.0	7	.2	7	.2	0	0.0	0	0.0	15	.4
70	4	.1	9	.2	1	.0	0	0.0	0	0.0	14	.3
80	3	.1	9	.2	1	.0	0	0.0	0	0.0	13	.3
90	0	0.0	11	.3	5	.1	0	0.0	0	0.0	16	.4
100	3	.1	6	.1	10	.2	0	0.0	0	0.0	19	.5
110	2	.0	8	.2	8	.2	3	.1	0	0.0	21	.5
120	3	.1	7	.2	3	.1	2	.0	0	0.0	15	.4
130	1	.0	21	.5	6	.1	0	0.0	0	0.0	28	.7
140	1	.0	12	.3	13	.3	0	0.0	0	0.0	26	.6
150	2	.0	13	.3	20	.5	2	.0	0	0.0	37	.9
160	1	.0	11	.3	14	.3	2	.0	0	0.0	28	.7
170	4	.1	14	.3	11	.3	1	.0	0	0.0	30	.7
180	0	0.0	14	.3	27	.6	1	.0	0	0.0	42	1.0
190	2	.0	13	.3	21	.5	10	.2	1	.0	47	1.1
200	3	.1	15	.4	24	.6	10	.2	0	0.0	52	1.2
210	4	.1	15	.4	30	.7	8	.2	0	0.0	57	1.4
220	7	.2	18	.4	18	.4	6	.1	1	.0	50	1.2
230	4	.1	12	.3	17	.4	10	.2	1	.0	44	1.0
240	7	.2	20	.5	17	.4	10	.2	2	.1	56	1.3
250	4	.1	17	.4	18	.4	25	.6	1	.0	65	1.6
260	9	.2	7	.2	23	.5	18	.4	3	.1	60	1.4
270	11	.3	12	.3	17	.4	19	.5	13	.3	72	1.7
280	5	.1	7	.2	11	.3	13	.3	6	.1	42	1.0
290	4	.1	7	.2	12	.3	11	.3	5	.1	39	.9
300	4	.1	8	.2	12	.3	7	.2	3	.1	34	.8
310	3	.1	4	.1	15	.4	14	.3	4	.1	40	1.0
320	1	.0	5	.1	16	.4	22	.5	1	.0	45	1.1
330	2	.0	11	.3	24	.6	15	.4	2	.0	54	1.3
340	2	.0	10	.2	27	.6	7	.2	1	.0	47	1.1
350	4	.1	13	.3	10	.2	3	.1	0	0.0	30	.7
360	5	.1	12	.3	12	.3	1	.0	0	0.0	30	.7
115	2.7		380	9.1	485	11.6	223	5.3	44	1.0	1247	29.7
MEAN WIND SPEED 9												

WIND ROSE FOR STATION 12 APR-JUN, 2YRS				LOCATION 320FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	4	.1	24	.6	36	.9	25	.6	0	0.0	89	2.1
20	6	.1	16	.4	36	.9	13	.3	2	.0	73	1.7
30	10	.2	18	.4	28	.7	13	.3	1	.0	70	1.7
40	7	.2	11	.3	19	.5	13	.3	5	.1	55	1.3
50	3	.1	8	.2	20	.5	5	.1	6	.1	42	1.0
60	9	.2	22	.5	21	.5	3	.1	5	.1	60	1.4
70	17	.4	20	.5	12	.3	2	.0	0	0.0	51	1.2
80	10	.2	27	.6	12	.3	4	.1	0	0.0	53	1.3
90	10	.2	23	.5	34	.8	9	.2	20	.5	96	2.3
100	16	.4	17	.4	26	.6	5	.1	3	.1	67	1.6
110	9	.2	34	.8	39	.9	15	.4	2	.0	99	2.4
120	8	.2	27	.6	51	1.2	17	.4	1	.0	104	2.5
130	4	.1	45	1.1	49	1.2	32	.8	3	.1	133	3.2
140	3	.1	22	.5	44	1.0	13	.3	1	.0	83	2.0
150	6	.1	25	.6	59	1.4	15	.4	1	.0	106	2.5
160	5	.1	28	.7	63	1.5	17	.4	5	.1	118	2.8
170	5	.1	31	.7	44	1.0	42	1.0	9	.2	131	3.1
180	6	.1	39	.9	115	2.7	85	2.0	11	.3	256	6.1
190	4	.1	39	.9	80	1.9	70	1.7	14	.3	207	4.9
200	6	.1	24	.6	83	2.0	48	1.1	15	.4	176	4.2
210	9	.2	28	.7	65	1.6	41	1.0	14	.3	157	3.7
220	13	.3	31	.7	60	1.4	31	.7	3	.1	138	3.3
230	9	.2	26	.6	47	1.1	32	.8	9	.2	123	2.9
240	10	.2	34	.8	33	.8	34	.8	12	.3	123	2.9
250	5	.1	27	.6	44	1.0	47	1.1	4	.1	127	3.0
260	12	.3	16	.4	37	.9	37	.9	7	.2	109	2.6
270	14	.3	17	.4	40	1.0	49	1.2	36	.9	156	3.7
280	10	.2	14	.3	36	.9	53	1.3	18	.4	131	3.1
290	4	.1	12	.3	24	.6	48	1.1	18	.4	106	2.5
300	9	.2	15	.4	37	.9	40	1.0	26	.6	127	3.0
310	3	.1	7	.2	35	.8	50	1.2	16	.4	111	2.6
320	1	.0	12	.3	49	1.2	64	1.5	15	.4	141	3.4
330	4	.1	34	.8	81	1.9	80	1.9	22	.5	221	5.3
340	2	.0	24	.6	70	1.7	51	1.2	4	.1	151	3.6
350	4	.1	26	.6	44	1.0	16	.4	11	.3	101	2.4
360	9	.2	21	.5	43	1.0	19	.5	9	.2	101	2.4
266	6.3		844	20.1	1616	38.5	1138	27.1	328	7.8	4192	100.0
MISSING HOURS 176												
MEAN WIND SPEED 10												
3 720												

PBAPS

WIND ROSE FOR STATION 12 APR-JUN,2YRS

LOCATION SAT, TURBULENCE CLASS

1

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
20	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
30	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	1	0,0
40	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
50	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
60	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
70	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
80	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
90	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
100	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
110	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
120	2	,1	0	0,0	0	0,0	0	0,0	0	0,0	2	,1
130	1	,0	0	0,0	0	0,0	0	0,0	0	0,0	1	,0
140	2	,1	0	0,0	0	0,0	0	0,0	0	0,0	2	,1
150	2	,1	0	0,0	0	0,0	0	0,0	0	0,0	2	,1
160	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
170	2	,1	0	0,0	0	0,0	0	0,0	0	0,0	2	,1
180	2	,1	0	0,0	0	0,0	0	0,0	0	0,0	2	,1
190	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
200	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
210	0	0,0	1	,0	0	0,0	0	0,0	0	0,0	1	,0
220	2	,1	0	0,0	0	0,0	0	0,0	0	0,0	2	,1
230	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
240	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
250	1	,0	0	0,0	0	0,0	0	0,0	0	0,0	1	,0
260	0	0,0	0	0,0	1	,0	0	0,0	0	0,0	1	,0
270	0	0,0	0	0,0	2	,1	0	0,0	0	0,0	2	,1
280	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
290	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
300	1	,0	0	0,0	0	0,0	0	0,0	0	0,0	1	,0
310	0	0,0	1	,0	0	0,0	0	0,0	0	0,0	1	,0
320	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
330	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
340	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
350	0	0,0	0	0,0	1	,0	0	0,0	0	0,0	1	,0
360	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
15		,7	3	,1	4	,2	0	0,0	0	0,0	22	1,1

MEAN WIND SPEED

3

WIND ROSE FOR STATION 12 APR-JUN,2YRS

LOCATION SAT, TURBULENCE CLASS

2

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	7	,3	12	,6	11	,5	7	,3	0	0,0	37	1,8
20	0	0,0	6	,3	8	,4	3	,1	0	0,0	17	,8
30	1	,0	9	,4	11	,5	0	0,0	0	0,0	21	1,0
40	3	,1	2	,1	2	,1	1	,0	0	0,0	8	,4
50	2	,1	2	,1	0	0,0	0	0,0	0	0,0	4	,2
60	4	,2	4	,2	0	0,0	0	0,0	0	0,0	8	,4
70	1	,0	1	,0	0	0,0	0	0,0	0	0,0	2	,1
80	0	0,0	1	,0	0	0,0	0	0,0	0	0,0	1	,0
90	4	,2	3	,1	0	0,0	0	0,0	0	0,0	7	,3
100	4	,2	3	,1	2	,1	0	0,0	0	0,0	9	,4
110	3	,1	4	,2	0	0,0	0	0,0	0	0,0	7	,3
120	2	,1	3	,1	1	,0	0	0,0	0	0,0	11	,5
130	5	,2	19	,9	10	,5	1	,0	0	0,0	35	1,7
140	5	,2	21	1,0	18	,9	1	,0	0	0,0	45	2,2
150	19	,9	46	2,3	39	1,9	1	,0	0	0,0	105	5,2
160	10	,5	22	1,1	46	2,3	24	1,2	1	,0	103	5,1
170	4	,2	14	,7	43	2,1	18	,9	2	,1	81	4,0
180	13	,6	11	,5	41	2,0	29	1,4	12	,6	106	5,3
190	5	,2	12	,6	12	,6	9	,4	2	,1	40	2,0
200	1	,0	6	,3	2	,1	4	,2	0	0,0	13	,6
210	3	,1	2	,1	11	,5	4	,2	2	,1	22	1,1
220	2	,1	5	,2	10	,5	1	,0	0	0,0	18	,9
230	1	,0	1	,0	3	,1	1	,0	0	0,0	6	,3
240	1	,0	1	,0	10	,5	0	0,0	0	0,0	12	,6
250	3	,1	2	,1	6	,3	1	,0	0	0,0	12	,6
260	5	,2	5	,2	5	,2	0	0,0	0	0,0	15	,7
270	7	,3	2	,1	6	,3	2	,1	0	0,0	17	,8
280	3	,1	6	,3	1	,0	3	,1	0	0,0	13	,6
290	3	,1	4	,2	10	,5	9	,4	0	0,0	26	1,3
300	2	,1	1	,0	14	,7	7	,3	0	0,0	24	1,2
310	4	,2	6	,3	11	,5	8	,4	0	0,0	29	1,4
320	5	,2	2	,1	15	,7	4	,2	1	,0	27	1,3
330	3	,1	13	,6	7	,3	6	,3	2	,1	31	1,5
340	8	,4	24	1,2	19	,9	33	1,6	0	0,0	84	4,2
350	0	0,0	8	,4	5	,2	16	,8	4	,2	33	1,6
360	5	,2	13	,6	17	,8	13	,6	3	,1	51	2,5
148		7,3	301	14,9	396	19,6	206	10,2	29	1,4	1080	53,5

MEAN WIND SPEED

8

PBAPS

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION SAT, TURBULENCE CLASS

3

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	2	.1	0	0.0	1	.0	0	0.0	0	0.0	3	.1
20	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
120	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
130	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
140	1	.0	3	.1	0	0.0	0	0.0	0	0.0	4	.2
150	2	.1	1	.0	3	.1	0	0.0	0	0.0	6	.3
160	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
170	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1
180	0	0.0	1	.0	0	0.0	1	.0	0	0.0	2	.1
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	2	.1	1	.0	1	.0	0	0.0	0	0.0	4	.2
270	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
280	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
310	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
320	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3	.1
330	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
340	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	28	1.4	23	1.1	7	.3	1	.0	0	0.0	59	2.9

MEAN WIND SPEED 4.

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION SAT. TURBULENCE CLASS

4

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	1	.0	1	.0	2	.1	0	0.0	4	.2
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
160	2	.1	2	.1	2	.1	4	.2	0	0.0	10	.6
170	1	.0	2	.1	9	.4	10	.5	2	.1	24	1.2
180	3	.1	4	.1	13	.6	25	1.2	4	.2	48	2.4
190	0	0.0	2	.1	2	.1	2	.1	0	0.0	6	.3
200	0	0.0	0	0.0	1	.0	3	.1	0	0.0	4	.2
210	0	0.0	0	0.0	1	.0	2	.1	0	0.0	3	.1
220	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
290	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
300	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
310	1	.0	0	0.0	0	0.0	1	.0	0	0.0	2	.1
320	0	0.0	0	0.0	1	.0	3	.1	0	0.0	4	.2
330	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.1
340	0	0.0	0	0.0	0	0.0	2	.1	2	.1	4	.2
350	1	.0	0	0.0	1	.0	4	.2	2	.1	8	.4
360	1	.0	0	0.0	3	.1	2	.1	0	0.0	6	.3
	12	.6	23	1.1	38	1.9	62	3.1	10	.5	145	7.2

MEAN WIND SPEED 11

PBAPS

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION SAT, TURBULENCE CLASS

5

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	4	.2	2	.1	3	.1	0	0.0	0	0.0	9	.4
20	7	.3	4	.2	0	0.0	0	0.0	0	0.0	11	.5
30	7	.3	0	0.0	0	0.0	0	0.0	0	0.0	7	.3
40	4	.2	2	.1	1	.0	0	0.0	0	0.0	7	.3
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
60	5	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.3
70	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
80	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
90	5	.2	5	.2	0	0.0	0	0.0	0	0.0	10	.5
100	8	.4	3	.1	0	0.0	0	0.0	0	0.0	11	.5
110	2	.1	3	.1	1	.0	0	0.0	0	0.0	6	.3
120	8	.4	9	.4	3	.1	0	0.0	0	0.0	20	1.0
130	10	.5	13	.6	4	.2	0	0.0	0	0.0	27	1.3
140	20	1.0	12	.6	1	.0	0	0.0	0	0.0	33	1.6
150	20	1.0	8	.4	2	.1	0	0.0	0	0.0	30	1.5
160	10	.5	14	.7	5	.2	0	0.0	0	0.0	29	1.4
170	14	.7	16	.8	7	.3	0	0.0	0	0.0	37	1.8
180	9	.4	19	.9	8	.4	0	0.0	0	0.0	36	1.8
190	23	1.1	12	.6	1	.0	0	0.0	0	0.0	36	1.8
200	11	.5	5	.2	2	.1	0	0.0	0	0.0	18	.9
210	6	.3	2	.1	1	.0	0	0.0	0	0.0	9	.4
220	6	.3	6	.3	0	0.0	0	0.0	0	0.0	12	.6
230	5	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.3
240	10	.5	6	.3	0	0.0	0	0.0	0	0.0	16	.8
250	12	.6	7	.3	0	0.0	0	0.0	0	0.0	19	.9
260	10	.5	4	.2	0	0.0	0	0.0	0	0.0	14	.7
270	16	.8	12	.6	1	.0	0	0.0	0	0.0	29	1.4
280	26	1.3	6	.3	0	0.0	0	0.0	0	0.0	32	1.6
290	16	.8	4	.2	3	.1	0	0.0	0	0.0	23	1.1
300	31	1.5	6	.3	2	.1	0	0.0	0	0.0	39	1.9
310	21	1.0	6	.3	0	0.0	0	0.0	0	0.0	27	1.3
320	24	1.2	4	.2	4	.2	1	.0	0	0.0	33	1.6
330	24	1.2	14	.7	2	.1	0	0.0	0	0.0	40	2.0
340	26	1.3	15	.7	0	0.0	0	0.0	0	0.0	41	2.0
350	14	.7	5	.2	0	0.0	0	0.0	0	0.0	19	.9
360	10	.5	3	.1	0	0.0	0	0.0	0	0.0	13	.6
428	21.2		231	11.4	52	2.6	1	.0	0	0.0	712	35.3

MEAN WIND SPEED 3.

WIND ROSE FOR STATION 12 APR-JUN, 2YRS

LOCATION SAT, ALL CLASSES

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	13	.6	15	.7	16	.8	9	.4	0	0.0	53	2.6
20	7	.3	11	.5	8	.4	3	.1	0	0.0	29	1.4
30	8	.4	10	.5	11	.5	0	0.0	0	0.0	29	1.4
40	9	.4	4	.2	3	.1	1	.0	0	0.0	17	.8
50	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.2
60	9	.4	6	.3	0	0.0	0	0.0	0	0.0	15	.7
70	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.2
80	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1
90	10	.5	8	.4	0	0.0	0	0.0	0	0.0	18	.9
100	13	.6	6	.3	2	.1	0	0.0	0	0.0	21	1.0
110	6	.3	8	.4	1	.0	0	0.0	0	0.0	15	.7
120	14	.7	20	1.0	4	.2	0	0.0	0	0.0	38	1.9
130	18	.9	34	1.7	14	.7	1	.0	0	0.0	67	3.3
140	28	1.4	38	1.9	19	.9	1	.0	0	0.0	86	4.3
150	43	2.1	57	2.8	44	2.2	1	.0	0	0.0	145	7.2
160	24	1.2	42	2.1	53	2.6	28	1.4	1	.0	148	7.3
170	22	1.1	33	1.6	60	3.0	28	1.4	4	.2	147	7.3
180	27	1.3	34	1.7	62	3.1	55	2.7	16	.8	194	9.6
190	29	1.4	26	1.3	15	.7	11	.5	2	.1	83	4.1
200	12	.6	12	.6	5	.2	7	.3	0	0.0	36	1.8
210	10	.5	5	.2	13	.6	6	.3	2	.1	36	1.8
220	12	.6	11	.5	11	.5	1	.0	0	0.0	35	1.7
230	8	.4	3	.1	3	.1	1	.0	0	0.0	15	.7
240	12	.6	8	.4	10	.5	0	0.0	0	0.0	30	1.5
250	16	.8	11	.5	6	.3	1	.0	0	0.0	34	1.7
260	16	.8	10	.5	7	.3	0	0.0	0	0.0	35	1.7
270	23	1.1	16	.8	9	.4	2	.1	0	0.0	50	2.5
280	30	1.5	13	.6	2	.1	3	.1	0	0.0	48	2.4
290	19	.9	8	.4	13	.6	10	.5	0	0.0	50	2.5
300	35	1.7	8	.4	17	.8	7	.3	0	0.0	67	3.3
310	26	1.3	15	.7	11	.5	9	.4	0	0.0	61	3.0
320	29	1.4	8	.4	21	1.0	8	.4	1	.0	67	3.3
330	29	1.4	28	1.4	10	.5	7	.3	2	.1	76	3.8
340	34	1.7	40	2.0	19	.9	35	1.7	2	.1	130	6.4
350	15	.7	13	.6	7	.3	20	1.0	6	.3	61	3.0
360	16	.8	16	.8	20	1.0	15	.7	3	.1	70	3.5
631	31.3		581	28.8	497	24.6	270	13.4	39	1.9	2018	100.0

MEAN WIND SPEED 6

MISSING HOURS 2350

PBAPS

WIND ROSE FOR STATION 11		JU-SEPT, 2YRS		LOCATION 30FT		TURBULENCE CLASS		1			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-15		19 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
70	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
100	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2
110	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3
120	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7
130	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6
140	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3
150	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4
160	10	.3	1	.0	0	0.0	0	0.0	0	0.0	11
170	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
250	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
270	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
290	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1
300	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3
310	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2
320	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
330	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3
340	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
360	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4
	62	2.1	2	.1	0	0.0	0	0.0	0	0.0	64
MEAN WIND SPEED 1											

WIND ROSE FOR STATION 11		JU-SEPT, 2YRS		LOCATION 30FT		TURBULENCE CLASS		2			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-15		19 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	
10	24	.8	30	1.0	12	.4	0	0.0	0	0.0	66
20	14	.5	15	.5	2	.1	0	0.0	0	0.0	31
30	10	.3	12	.4	7	.2	0	0.0	0	0.0	29
40	15	.5	6	.2	3	.1	1	.0	0	0.0	25
50	2	.1	4	.1	0	0.0	1	.0	0	0.0	7
60	10	.3	4	.1	0	0.0	0	0.0	0	0.0	14
70	5	.2	14	.5	3	.1	2	.1	0	0.0	24
80	6	.2	3	.1	6	.2	0	0.0	0	0.0	15
90	13	.4	11	.4	4	.1	0	0.0	0	0.0	28
100	20	.7	6	.2	2	.1	0	0.0	0	0.0	28
110	20	.7	9	.3	0	0.0	0	0.0	0	0.0	29
120	32	1.1	7	.2	0	0.0	0	0.0	0	0.0	39
130	65	2.2	12	.4	0	0.0	0	0.0	0	0.0	77
140	50	1.7	6	.2	0	0.0	0	0.0	0	0.0	56
150	68	2.3	8	.3	0	0.0	0	0.0	0	0.0	76
160	107	3.5	2	.1	0	0.0	0	0.0	0	0.0	109
170	30	1.0	1	.0	0	0.0	0	0.0	0	0.0	31
180	35	1.2	1	.0	0	0.0	0	0.0	0	0.0	36
190	24	.8	1	.0	0	0.0	0	0.0	0	0.0	25
200	9	.3	0	0.0	0	0.0	0	0.0	0	0.0	9
210	13	.4	0	0.0	0	0.0	0	0.0	0	0.0	13
220	25	.8	0	0.0	0	0.0	0	0.0	0	0.0	25
230	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6
240	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1
250	23	.8	0	0.0	0	0.0	0	0.0	0	0.0	23
260	18	.6	3	.1	0	0.0	0	0.0	0	0.0	21
270	73	2.4	8	.3	0	0.0	0	0.0	0	0.0	81
280	113	3.7	7	.2	0	0.0	0	0.0	0	0.0	120
290	87	2.9	13	.4	0	0.0	0	0.0	0	0.0	100
300	63	2.1	10	.3	1	.0	0	0.0	0	0.0	74
310	27	.9	17	.6	0	0.0	0	0.0	0	0.0	44
320	12	.4	10	.3	2	.1	0	0.0	0	0.0	24
330	10	.3	13	.4	4	.1	0	0.0	0	0.0	27
340	11	.4	27	.9	7	.2	0	0.0	0	0.0	45
350	15	.5	29	1.0	1	.0	0	0.0	0	0.0	45
360	18	.6	26	.9	12	.4	1	.0	0	0.0	57
	1082	35.9	315	10.4	67	2.2	5	.2	0	0.0	1469
MEAN WIND SPEED 2											

PBAPS

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 30FT		TURBULENCE CLASS		3			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	0-12		13-18		SUM	PERCENT		
10	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
20	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
30	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.2
40	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
110	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
120	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
130	10	.3	0	0.0	0	0.0	0	0.0	0	0.0	10	.3
140	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
150	5	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.2
160	18	.6	0	0.0	0	0.0	0	0.0	0	0.0	18	.6
170	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
180	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
280	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	5	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.2
310	4	.1	2	.1	0	0.0	0	0.0	0	0.0	6	.2
320	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
330	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
340	1	.0	4	.1	0	0.0	0	0.0	0	0.0	5	.2
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	4	.1	0	0.0	0	0.0	0	0.0	4	.1
87	2.9		20	.7	0	0.0	0	0.0	0	0.0	107	3.5
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 30FT		TURBULENCE CLASS		4			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12		13-18		SUM PERCENT			
10	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
20	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
30	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
60	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	2	.1	1	.0	1	.0	0	0.0	0	0.0	4	.1
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
130	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
140	2	.1	3	.1	0	0.0	0	0.0	0	0.0	5	.2
150	4	.1	12	.4	0	0.0	0	0.0	0	0.0	16	.5
160	18	.6	11	.4	6	.2	0	0.0	0	0.0	35	1.2
170	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
180	5	.2	1	.0	0	0.0	0	0.0	0	0.0	6	.2
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	7	.2	0	0.0	1	.0	0	0.0	0	0.0	3	.1
270	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
280	15	.5	4	.1	0	0.0	0	0.0	0	0.0	19	.6
290	13	.4	2	.1	0	0.0	0	0.0	0	0.0	15	.5
300	18	.6	11	.4	0	0.0	0	0.0	0	0.0	29	1.0
310	4	.1	7	.2	1	.0	0	0.0	0	0.0	12	.4
320	1	.0	3	.1	0	0.0	0	0.0	0	0.0	4	.1
330	0	0.0	7	.2	3	.1	0	0.0	0	0.0	10	.3
340	0	0.0	8	.3	1	.0	0	0.0	0	0.0	9	.3
350	3	.1	6	.2	0	0.0	0	0.0	0	0.0	9	.3
360	1	.0	4	.1	1	.0	0	0.0	0	0.0	6	.2
103		3.4	86	2.9	17	.5	0	0.0	0	0.0	206	6.8
MEAN WIND SPEED 4												

PBAPS

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 30FT		TJRBULENCE CLASS		5	
DIRECTION	0-3		4-7		8-12		13-16		19 PLUS	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	14	.5	2	.1	5	.2	0	0.0	0	0.0
20	3	.1	3	.1	1	.0	0	0.0	0	0.0
30	8	.3	1	.0	1	.0	0	0.0	0	0.0
40	6	.2	0	0.0	0	0.0	2	.1	0	0.0
50	2	.1	0	0.0	0	0.0	0	0.0	0	0.0
60	10	.3	0	0.0	0	0.0	0	0.0	0	0.0
70	5	.2	0	0.0	0	0.0	0	0.0	0	0.0
80	3	.1	1	.0	0	0.0	0	0.0	0	0.0
90	11	.4	2	.1	0	0.0	0	0.0	0	0.0
100	9	.3	1	.0	0	0.0	0	0.0	0	0.0
110	5	.2	0	0.0	1	.0	0	0.0	0	0.0
120	20	.7	0	0.0	0	0.0	0	0.0	0	0.0
130	18	.6	0	0.0	0	0.0	0	0.0	0	0.0
140	17	.6	0	0.0	0	0.0	0	0.0	0	0.0
150	27	.9	0	0.0	0	0.0	0	0.0	0	0.0
160	40	1.3	0	0.0	0	0.0	0	0.0	0	0.0
170	12	.4	0	0.0	0	0.0	0	0.0	0	0.0
180	22	.7	0	0.0	0	0.0	0	0.0	0	0.0
190	13	.4	0	0.0	0	0.0	0	0.0	0	0.0
200	18	.6	0	0.0	0	0.0	0	0.0	0	0.0
210	21	.7	0	0.0	0	0.0	0	0.0	0	0.0
220	19	.6	0	0.0	0	0.0	0	0.0	0	0.0
230	11	.4	0	0.0	0	0.0	0	0.0	0	0.0
240	39	1.3	0	0.0	0	0.0	0	0.0	0	0.0
250	75	2.5	0	0.0	0	0.0	0	0.0	0	0.0
260	99	3.3	0	0.0	0	0.0	0	0.0	0	0.0
270	182	6.0	3	.1	0	0.0	0	0.0	0	0.0
280	245	8.1	4	.1	0	0.0	0	0.0	0	0.0
290	71	2.4	7	.2	0	0.0	0	0.0	0	0.0
300	54	1.8	3	.1	0	0.0	0	0.0	0	0.0
310	7	.2	0	0.0	0	0.0	0	0.0	0	0.0
320	9	.3	1	.0	0	0.0	0	0.0	0	0.0
330	11	.4	0	0.0	0	0.0	0	0.0	0	0.0
340	5	.2	1	.0	0	0.0	0	0.0	0	0.0
350	3	.1	2	.1	0	0.0	0	0.0	0	0.0
360	10	.3	4	.1	0	0.0	0	0.0	0	0.0
1124		37.3	35	1.2	8	.3	2	.1	0	0.0
1169		38.8								
MEAN WIND SPEED 1										

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 30FT		ALL CLASSFS					
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	39	1.3	34	1.1	19	.6	0	0.0	0	0.0	92	3.1
20	18	.6	20	.7	3	.1	0	0.0	0	0.0	41	1.4
30	21	.7	16	.5	9	.3	0	0.0	0	0.0	46	1.5
40	22	.7	6	.2	3	.1	3	.1	0	0.0	34	1.1
50	5	.2	5	.2	0	0.0	1	.0	0	0.0	11	.4
60	22	.7	5	.2	0	0.0	0	0.0	0	0.0	27	.9
70	13	.4	14	.5	3	.1	2	.1	0	0.0	32	1.1
80	10	.3	4	.1	6	.2	0	0.0	0	0.0	20	.7
90	26	.9	13	.4	4	.1	0	0.0	0	0.0	43	1.4
100	37	1.2	8	.3	3	.1	0	0.0	0	0.0	48	1.6
110	31	1.0	9	.3	1	.0	0	0.0	0	0.0	41	1.4
120	64	2.1	7	.2	0	0.0	0	0.0	0	0.0	71	2.4
130	100	3.3	13	.4	0	0.0	0	0.0	0	0.0	113	3.7
140	76	2.5	9	.3	0	0.0	0	0.0	0	0.0	85	2.8
150	108	3.6	22	.7	0	0.0	0	0.0	0	0.0	130	4.3
160	193	6.4	14	.5	6	.2	0	0.0	0	0.0	213	7.1
170	49	1.6	1	.0	0	0.0	0	0.0	0	0.0	50	1.7
180	63	2.1	2	.1	0	0.0	0	0.0	0	0.0	65	2.2
190	39	1.3	1	.0	0	0.0	0	0.0	0	0.0	40	1.3
200	27	.9	0	0.0	0	0.0	0	0.0	0	0.0	27	.9
210	37	1.2	0	0.0	0	0.0	0	0.0	0	0.0	37	1.2
220	47	1.6	0	0.0	0	0.0	0	0.0	0	0.0	47	1.6
230	18	.6	0	0.0	0	0.0	0	0.0	0	0.0	18	.6
240	48	1.6	0	0.0	1	.0	0	0.0	0	0.0	49	1.6
250	101	3.3	0	0.0	0	0.0	0	0.0	0	0.0	101	3.3
260	121	4.0	3	.1	1	.0	0	0.0	0	0.0	125	4.1
270	265	8.8	11	.4	0	0.0	0	0.0	0	0.0	276	9.2
280	377	12.5	15	.5	0	0.0	0	0.0	0	0.0	392	13.0
290	171	5.7	23	.8	0	0.0	0	0.0	0	0.0	194	6.4
300	143	4.7	26	.9	1	.0	0	0.0	0	0.0	170	5.6
310	44	1.5	26	.9	1	.0	0	0.0	0	0.0	71	2.4
320	25	.8	14	.5	2	.1	0	0.0	0	0.0	41	1.4
330	25	.8	22	.7	7	.2	0	0.0	0	0.0	54	1.8
340	18	.6	40	1.3	8	.3	0	0.0	0	0.0	66	2.2
350	22	.7	37	1.2	1	.0	0	0.0	0	0.0	60	2.0
360	33	1.1	38	1.3	13	.4	1	.0	0	0.0	85	2.8
2458	81.5		458	15.2	92	3.1	7	.2	0	0.0	3015	100.0
MISSING HOURS 1401												

744

PBAPS

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 100FT TURBULENCE CLASS					1		
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT		
10	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
20	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
30	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
130	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6	.2
140	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
150	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
160	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
220	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
250	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	8	.3	1	.0	0	0.0	0	0.0	0	0.0	9	.3
280	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	5	.2	0	0.0	0	0.0	0	0.0	0	0.0	5	.2
310	5	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.2
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
65	2,2		8	.3	0	0.0	0	0.0	0	0.0	73	2.5
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 100FT TURBULENCE CLASS					2		
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT		
10	11	.4	19	.6	10	.3	3	.1	1	.0	44	1.5
20	7	.2	19	.6	14	.5	19	.6	3	.1	62	2.1
30	8	.3	18	.6	7	.2	10	.3	0	0.0	43	1.5
40	8	.3	16	.5	9	.3	6	.2	0	0.0	39	1.3
50	11	.4	15	.5	13	.4	1	.0	0	0.0	40	1.4
60	14	.5	19	.6	5	.2	1	.0	0	0.0	39	1.3
70	14	.5	13	.4	3	.1	1	.0	0	0.0	31	1.0
80	6	.2	13	.4	8	.3	3	.1	0	0.0	30	1.0
90	15	.5	7	.2	7	.2	2	.1	0	0.0	31	1.0
100	14	.5	8	.3	8	.3	0	0.0	0	0.0	30	1.0
110	12	.4	7	.2	2	.1	1	.0	0	0.0	22	.7
120	29	1.0	32	1.1	5	.2	0	0.0	0	0.0	66	2.2
130	41	1.4	27	.9	9	.3	0	0.0	0	0.0	77	2.6
140	27	.9	7	.2	0	0.0	0	0.0	0	0.0	34	1.2
150	36	1.2	6	.2	14	.5	0	0.0	0	0.0	56	1.9
160	38	1.3	27	.9	6	.2	1	.0	0	0.0	72	2.4
170	20	.7	30	1.3	3	.1	0	0.0	0	0.0	61	2.1
180	41	1.4	38	1.3	2	.1	1	.0	0	0.0	82	2.8
190	26	.9	11	.4	0	0.0	0	0.0	0	0.0	37	1.3
200	14	.5	2	.1	0	0.0	0	0.0	0	0.0	16	.5
210	5	.2	1	.0	0	0.0	0	0.0	0	0.0	6	.2
220	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1
230	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1
240	7	.2	5	.2	0	0.0	0	0.0	0	0.0	12	.4
250	17	.6	23	.8	0	0.0	0	0.0	0	0.0	40	1.4
260	15	.5	19	.6	1	.0	0	0.0	0	0.0	35	1.2
270	28	.9	20	.7	1	.0	0	0.0	0	0.0	49	1.7
280	29	1.0	33	1.1	4	.1	0	0.0	0	0.0	66	2.2
290	30	1.0	49	1.7	8	.3	0	0.0	0	0.0	87	2.9
300	28	.9	34	1.2	14	.5	0	0.0	0	0.0	76	2.6
310	28	.9	28	.9	12	.4	0	0.0	0	0.0	68	2.3
320	10	.3	21	.7	15	.5	0	0.0	0	0.0	46	1.6
330	13	.4	23	.8	13	.4	0	0.0	0	0.0	49	1.7
340	10	.3	23	.8	11	.4	0	0.0	0	0.0	44	1.5
350	13	.4	19	.6	17	.6	0	0.0	0	0.0	49	1.7
360	10	.3	22	.7	6	.2	2	.1	0	0.0	40	1.4
639	21.6		666	22.5	227	7.7	51	1.7	4	.1	1587	53.7
MEAN WIND SPEED 4												

PBAPS

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS			LOCATION 100FT TURBULENCE CLASS			3			
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	2	.1	3	.1	0	0.0	0	0.0	5	.2
20	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
30	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
40	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
80	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
90	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
100	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
130	9	.3	1	.0	0	0.0	0	0.0	0	0.0	10	.3
140	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
150	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
160	5	.2	1	.0	0	0.0	0	0.0	0	0.0	6	.2
170	4	.1	7	.2	0	0.0	0	0.0	0	0.0	11	.4
180	6	.2	7	.2	0	0.0	0	0.0	0	0.0	13	.4
190	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
250	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
280	4	.1	2	.1	0	0.0	0	0.0	0	0.0	6	.2
290	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
300	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.2
310	4	.1	1	.0	0	0.0	0	0.0	0	0.0	5	.2
320	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
330	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
340	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
350	0	0.0	2	.1	2	.1	0	0.0	0	0.0	4	.1
360	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
73		2.5	37	1.3	6	.2	0	0.0	0	0.0	116	3.9
MEAN WIND SPEED : 3												

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS			LOCATION 100FT TURBULENCE CLASS			4			
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3	.1
20	0	0.0	0	0.0	2	.1	2	.1	0	0.0	4	.1
30	0	0.0	0	0.0	1	.0	3	.1	0	0.0	4	.1
40	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
50	0	0.0	0	0.0	1	.0	2	.1	0	0.0	3	.1
60	0	0.0	5	.2	0	0.0	3	.1	0	0.0	8	.3
70	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
160	0	0.0	2	.1	0	0.0	0	0.0	1	.0	3	.1
170	0	0.0	6	.2	4	.1	2	.1	3	.1	15	.5
180	1	.0	6	.2	9	.3	2	.1	0	0.0	18	.6
190	0	0.0	3	.1	2	.1	0	0.0	0	0.0	5	.2
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	3	.1	1	.0	0	0.0	0	0.0	4	.1
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
280	0	0.0	3	.1	0	0.0	0	0.0	0	0.0	3	.1
290	0	0.0	32	1.1	13	.4	0	0.0	0	0.0	45	1.5
300	1	.0	8	.3	5	.2	3	.1	0	0.0	17	.6
310	0	0.0	8	.3	12	.4	1	.0	0	0.0	21	.7
320	0	0.0	2	.1	2	.1	0	0.0	0	0.0	4	.1
330	0	0.0	2	.1	3	.1	0	0.0	0	0.0	5	.2
340	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3	.1
350	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.1
360	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
4		.1	88	3.0	61	2.1	20	.7	4	.1	177	6.0
MEAN WIND SPEED . 8												

PBAPS

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 100FT TURBULENCE CLASS				5			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	8	.3	2	.1	0	0.0	0	0.0	0	0.0	10	.3
20	0	.3	0	0.0	0	0.0	0	0.0	0	0.0	9	.3
30	13	.4	2	.1	0	0.0	0	0.0	0	0.0	15	.5
40	17	.6	7	.2	0	0.0	0	0.0	0	0.0	24	.8
50	12	.4	0	0.0	0	0.0	0	0.0	0	0.0	12	.4
60	17	.6	0	0.0	0	0.0	0	0.0	0	0.0	17	.6
70	19	.6	0	0.0	0	0.0	0	0.0	0	0.0	19	.6
80	18	.6	2	.1	0	0.0	0	0.0	0	0.0	20	.7
90	17	.6	1	.0	0	0.0	0	0.0	0	0.0	18	.6
100	21	.7	2	.1	0	0.0	0	0.0	0	0.0	23	.8
110	16	.5	1	.0	0	0.0	0	0.0	0	0.0	17	.6
120	40	1.4	0	0.0	0	0.0	0	0.0	0	0.0	40	1.4
130	34	1.2	0	0.0	0	0.0	0	0.0	0	0.0	34	1.2
140	23	.8	0	0.0	0	0.0	0	0.0	0	0.0	23	.8
150	32	1.1	0	0.0	0	0.0	0	0.0	0	0.0	32	1.1
160	41	1.4	2	.1	0	0.0	0	0.0	0	0.0	43	1.5
170	33	1.1	0	0.0	0	0.0	0	0.0	0	0.0	33	1.1
180	29	1.0	0	0.0	0	0.0	0	0.0	0	0.0	29	1.0
190	18	.6	4	.1	0	0.0	0	0.0	0	0.0	22	.7
200	17	.6	4	.1	0	0.0	0	0.0	0	0.0	21	.7
210	28	.9	1	.0	0	0.0	0	0.0	0	0.0	29	1.0
220	21	.7	1	.0	0	0.0	0	0.0	0	0.0	22	.7
230	19	.6	0	0.0	0	0.0	0	0.0	0	0.0	19	.6
240	40	1.4	0	0.0	0	0.0	0	0.0	0	0.0	40	1.4
250	64	2.2	5	.2	0	0.0	0	0.0	0	0.0	69	2.3
260	50	1.7	9	.3	0	0.0	0	0.0	0	0.0	59	2.0
270	60	2.0	1	.0	0	0.0	0	0.0	0	0.0	61	2.1
280	56	1.9	7	.2	3	.1	0	0.0	0	0.0	66	2.2
290	31	1.0	20	.7	1	.0	0	0.0	0	0.0	52	1.8
300	20	.7	7	.2	1	.0	0	0.0	0	0.0	28	.9
310	21	.7	3	.1	0	0.0	0	0.0	0	0.0	24	.8
320	14	.5	0	0.0	0	0.0	0	0.0	0	0.0	14	.5
330	20	.7	1	.0	0	0.0	0	0.0	0	0.0	21	.7
340	11	.4	0	0.0	0	0.0	0	0.0	0	0.0	11	.4
350	6	.2	6	.2	0	0.0	0	0.0	0	0.0	12	.4
360	11	.4	2	.1	1	.0	0	0.0	0	0.0	14	.5
906	30.7		90	3.0	6	.2	0	0.0	0	0.0	1002	33.9
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION 100FT ALL CLASSES							
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT				
10	21	.7	24	.8	15	.5	3	.1	1	.0	64	2.2
20	17	.6	20	.7	16	.5	21	.7	3	.1	77	2.6
30	25	.8	20	.7	8	.3	13	.4	0	0.0	66	2.2
40	31	1.0	24	.8	9	.3	7	.2	0	0.0	71	2.4
50	25	.8	15	.5	14	.5	3	.1	0	0.0	57	1.9
60	33	1.1	24	.8	5	.2	4	.1	0	0.0	66	2.2
70	35	1.2	15	.5	3	.1	1	.0	0	0.0	54	1.8
80	27	.9	15	.5	8	.3	3	.1	0	0.0	53	1.8
90	35	1.2	8	.3	7	.2	2	.1	0	0.0	52	1.8
100	39	1.3	10	.3	8	.3	0	0.0	0	0.0	57	1.9
110	29	1.0	8	.3	2	.1	1	.0	0	0.0	40	1.4
120	75	2.5	33	1.1	5	.2	0	0.0	0	0.0	113	3.8
130	90	3.0	28	.9	9	.3	0	0.0	0	0.0	127	4.3
140	54	1.8	7	.2	0	0.0	0	0.0	0	0.0	61	2.1
150	73	2.5	7	.2	15	.5	0	0.0	0	0.0	95	3.2
160	86	2.9	34	1.2	6	.2	1	.0	1	.0	128	4.3
170	57	1.9	51	1.7	7	.2	2	.1	3	.1	120	4.1
180	80	2.7	51	1.7	11	.4	3	.1	0	0.0	145	4.9
190	47	1.6	19	.6	2	.1	0	0.0	0	0.0	68	2.3
200	31	1.0	6	.2	0	0.0	0	0.0	0	0.0	37	1.3
210	36	1.2	3	.1	0	0.0	0	0.0	0	0.0	39	1.3
220	26	.9	4	.1	0	0.0	0	0.0	0	0.0	30	1.0
230	21	.7	2	.1	0	0.0	0	0.0	0	0.0	23	.8
240	51	1.7	7	.2	0	0.0	0	0.0	0	0.0	58	2.0
250	85	2.9	32	1.1	1	.0	0	0.0	0	0.0	118	4.0
260	67	2.3	28	.9	1	.0	0	0.0	0	0.0	96	3.2
270	100	3.4	24	.8	1	.0	0	0.0	0	0.0	125	4.2
280	89	3.0	47	1.6	7	.2	0	0.0	0	0.0	143	4.8
290	63	2.1	102	3.5	22	.7	0	0.0	0	0.0	187	6.3
300	57	1.9	51	1.7	20	.7	3	.1	0	0.0	131	4.4
310	58	2.0	42	1.4	24	.8	1	.0	0	0.0	125	4.2
320	25	.8	23	.8	17	.6	0	0.0	0	0.0	65	2.2
330	36	1.2	27	.9	16	.5	0	0.0	0	0.0	79	2.7
340	22	.7	26	.9	12	.4	0	0.0	0	0.0	60	2.0
350	19	.6	28	.9	20	.7	1	.0	0	0.0	68	2.3
360	22	.7	24	.8	9	.3	2	.1	0	0.0	57	1.9
1687	57.1		889	30.1	300	10.2	71	2.4	8	.3	2955	100.0
MISSING HOURS 1461												
MEAN WIND SPEED 3												
3 744												

PBAPS

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION HILL		TURBULENCE CLASS		1			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
40	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	.0	4	.2	0	0.0	0	0.0	0	0.0	5	.2
70	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	1	.0	9	.0	0	0.0	0	0.0	0	0.0	1	.0
100	3	.1	4	.2	0	0.0	0	0.0	0	0.0	7	.3
110	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
120	0	0.0	5	.2	0	0.0	0	0.0	0	0.0	5	.2
130	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
220	4	.2	3	.1	0	0.0	0	0.0	0	0.0	7	.3
230	4	.2	0	0.0	0	0.0	0	0.0	0	0.0	4	.2
240	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	3	.1	0	0.0	0	0.0	0	0.0	3	.1
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
310	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
340	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
28	1,2		27	1,2	1	.0	0	0.0	0	0.0	56	2.4
MEAN WIND SPEED 3												

MEAN WIND SPEED 3

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION HILL		TURBULENCE CLASS		2			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	0-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT		
10	6	.3	15	.6	0	0.0	0	0.0	0	0.0	21	.9
20	9	.4	21	.9	6	.3	1	.0	0	0.0	37	1.6
30	7	.3	25	1.1	4	.2	5	.2	0	0.0	41	1.8
40	10	.4	16	.7	5	.2	4	.2	0	0.0	35	1.5
50	13	.6	9	.4	5	.2	9	.4	0	0.0	36	1.5
60	10	.4	12	.5	7	.3	1	.0	2	.1	32	1.4
70	12	.5	8	.3	1	.0	1	.0	1	.0	23	1.0
80	19	.8	7	.3	1	.0	5	.2	4	.2	36	1.5
90	28	1.2	10	.4	3	.1	4	.2	1	.0	46	2.0
100	13	.6	16	.7	7	.3	0	0.0	0	0.0	36	1.5
110	12	.5	25	1.1	5	.2	1	.0	0	0.0	43	1.8
120	14	.6	31	1.3	1	.0	1	.0	0	0.0	47	2.0
130	12	.5	9	.4	2	.1	0	0.0	0	0.0	23	1.0
140	8	.3	3	.1	3	.1	0	0.0	0	0.0	14	.6
150	11	.5	9	.4	1	.0	1	.0	0	0.0	22	.9
160	17	.7	11	.5	0	0.0	0	0.0	0	0.0	28	1.2
170	28	1.2	24	1.0	1	.0	0	0.0	0	0.0	53	2.3
180	14	.6	10	.4	0	0.0	0	0.0	0	0.0	24	1.0
190	12	.5	10	.4	4	.2	0	0.0	0	0.0	26	1.1
200	20	.9	25	1.1	0	0.0	0	0.0	0	0.0	45	1.9
210	9	.4	11	.5	5	.2	2	.1	0	0.0	27	1.2
220	8	.3	26	1.1	13	.6	2	.1	0	0.0	49	2.1
230	15	.6	33	1.4	20	.9	15	.6	0	0.0	83	3.6
240	22	.9	33	1.4	12	.5	13	.6	0	0.0	80	3.4
250	14	.6	15	.6	5	.2	0	0.0	0	0.0	34	1.5
260	7	.3	13	.6	6	.3	0	0.0	0	0.0	26	1.1
270	11	.5	15	.6	17	.7	1	.0	0	0.0	44	1.9
280	7	.3	20	.9	15	.6	0	0.0	0	0.0	42	1.8
290	9	.4	48	2.1	11	.5	0	0.0	0	0.0	68	2.9
300	13	.6	31	1.3	17	.7	0	0.0	0	0.0	61	2.6
310	9	.4	8	.3	1	.0	0	0.0	0	0.0	18	.8
320	8	.3	9	.4	0	0.0	0	0.0	0	0.0	17	.7
330	6	.3	10	.4	1	.0	1	.0	0	0.0	18	.8
340	9	.4	7	.3	2	.1	0	0.0	0	0.0	18	.8
350	6	.3	6	.3	3	.1	0	0.0	0	0.0	15	.6
360	8	.3	14	.6	5	.2	0	0.0	0	0.0	27	1.2
436	19.7		595	25.5	189	8.1	67	2.9	8	.3	1295	55.4

MEAN WIND SPEED 5

3

MEAN WIND SPEED 4

4

MEAN WIND SPEED 5

PBAPS

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION HILL		TURBULENCE CLASS		5			
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT	SUM	PERCENT		
10	4	.2	1	.0	0	0.0	0	0.0	0	0.0	5	.2
20	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	6	.3
30	7	.3	1	.0	0	0.0	0	0.0	0	0.0	8	.3
40	9	.4	1	.0	0	0.0	0	0.0	0	0.0	10	.4
50	8	.3	1	.0	0	0.0	0	0.0	0	0.0	9	.4
60	11	.5	1	.0	0	0.0	0	0.0	1	.0	13	.6
70	16	.7	0	0.0	0	0.0	0	0.0	0	0.0	16	.7
80	14	.6	1	.0	0	0.0	0	0.0	0	0.0	15	.6
90	26	1.1	1	.0	1	.0	1	.0	0	0.0	29	1.2
100	29	1.2	6	.3	0	0.0	0	0.0	0	0.0	35	1.5
110	28	1.2	17	.7	1	.0	0	0.0	0	0.0	46	2.0
120	29	1.2	14	.6	0	0.0	0	0.0	0	0.0	43	1.8
130	27	1.2	3	.1	0	0.0	0	0.0	0	0.0	30	1.3
140	20	.9	3	.1	0	0.0	0	0.0	0	0.0	23	1.0
150	35	1.5	3	.1	0	0.0	0	0.0	0	0.0	38	1.6
160	40	1.7	8	.3	0	0.0	0	0.0	0	0.0	48	2.1
170	32	1.4	3	.1	0	0.0	0	0.0	0	0.0	35	1.5
180	15	.6	0	0.0	0	0.0	0	0.0	0	0.0	15	.6
190	26	1.1	3	.1	0	0.0	0	0.0	0	0.0	29	1.2
200	8	.3	2	.1	0	0.0	0	0.0	0	0.0	10	.4
210	10	.4	0	0.0	0	0.0	0	0.0	0	0.0	10	.4
220	21	.9	1	.0	0	0.0	0	0.0	0	0.0	22	.9
230	10	.4	1	.0	5	.2	0	0.0	0	0.0	16	.7
240	16	.7	3	.1	1	.0	0	0.0	0	0.0	20	.9
250	15	.6	2	.1	0	0.0	0	0.0	0	0.0	17	.7
260	28	1.2	3	.1	0	0.0	0	0.0	0	0.0	31	1.3
270	16	.7	6	.3	0	0.0	0	0.0	0	0.0	22	.9
280	24	1.0	5	.2	1	.0	0	0.0	0	0.0	30	1.3
290	20	.9	14	.6	0	0.0	0	0.0	0	0.0	34	1.5
300	16	.7	9	.4	0	0.0	0	0.0	0	0.0	25	1.1
310	11	.5	3	.1	0	0.0	0	0.0	0	0.0	14	.6
320	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
330	10	.4	2	.1	0	0.0	0	0.0	0	0.0	12	.5
340	5	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.3
350	6	.3	1	.0	0	0.0	0	0.0	0	0.0	7	.3
360	7	.3	2	.1	1	.0	0	0.0	0	0.0	10	.4
608		26.0	123	5.3	10	.4	1	.0	1	.0	743	31.8
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 11			JU-SEPT, 2YRS		LOCATION HILL		ALL CLASSES						
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT	
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT					
10	11	.5	18	.8	1	.0	0	0.0	0	0.0	30	1.3	
20	16	.7	26	1.1	7	.3	1	.0	0	0.0	50	2.1	
30	16	.7	27	1.2	7	.3	5	.2	0	.0	55	2.4	
40	23	1.0	20	.9	5	.2	4	.2	0	0.0	52	2.2	
50	22	.9	17	.7	5	.2	9	.4	0	0.0	53	2.3	
60	24	1.0	22	.9	9	.4	1	.0	3	.1	59	2.5	
70	31	1.3	12	.5	2	.1	1	.0	1	.0	47	2.0	
80	34	1.5	10	.4	1	.0	5	.2	4	.2	54	2.3	
90	56	2.4	18	.8	4	.2	5	.2	1	.0	84	3.6	
100	52	2.2	44	1.9	8	.3	1	.0	0	0.0	105	4.5	
110	43	1.8	59	2.5	9	.4	1	.0	0	0.0	112	4.8	
120	46	2.0	56	2.4	2	.1	1	.0	0	0.0	105	4.5	
130	43	1.8	15	.6	2	.1	0	0.0	0	0.0	60	2.6	
140	30	1.3	14	.6	3	.1	0	0.0	0	0.0	47	2.0	
150	48	2.1	14	.6	1	.0	3	.1	0	0.0	66	2.8	
160	58	2.5	20	.9	3	.1	1	.0	1	.0	83	3.6	
170	62	2.7	30	1.3	3	.1	0	0.0	0	0.0	95	4.1	
180	29	1.2	16	.7	1	.0	0	0.0	0	0.0	46	2.0	
190	39	1.7	18	.8	4	.2	0	0.0	0	0.0	61	2.6	
200	29	1.2	29	1.2	1	.0	0	0.0	0	0.0	59	2.5	
210	22	.9	13	.6	6	.3	2	.1	0	0.0	43	1.8	
220	36	1.5	39	1.7	13	.6	2	.1	0	0.0	90	3.9	
230	34	1.5	47	2.0	27	1.2	15	.6	0	0.0	123	5.3	
240	40	1.7	41	1.8	19	.8	13	.6	0	0.0	113	4.8	
250	29	1.2	19	.8	5	.2	0	0.0	0	0.0	53	2.3	
260	38	1.6	21	.9	7	.3	0	0.0	0	0.0	66	2.8	
270	29	1.2	25	1.1	18	.8	1	.0	0	0.0	73	3.1	
280	32	1.4	25	1.1	16	.7	0	0.0	0	0.0	73	3.1	
290	32	1.4	63	2.7	11	.5	0	0.0	0	0.0	106	4.5	
300	32	1.4	41	1.8	19	.8	0	0.0	0	0.0	92	3.9	
310	22	.9	12	.5	1	.0	0	0.0	0	0.0	35	1.5	
320	12	.5	9	.4	0	0.0	0	0.0	0	0.0	21	.9	
330	18	.8	14	.6	1	.0	1	.0	0	0.0	34	1.5	
340	18	.8	9	.4	2	.1	0	0.0	0	0.0	29	1.2	
350	12	.5	8	.3	3	.1	0	0.0	0	0.0	23	1.0	
360	16	.7	17	.7	7	.3	0	0.0	0	0.0	40	1.7	
1134		48.5	888	38.0	233	10.0	72	3.1	10	.4	2337	100.0	
										MISSING HOURS		2079	
MEAN WIND SPEED 4													

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION 75FT		TURBULENCE CLASS		1				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
1	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
2	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
3	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
7	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
10	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
11	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
12	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
13	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
14	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
15	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
16	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
17	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
18	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
19	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
20	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
21	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
22	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
23	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
24	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
25	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
26	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
27	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
28	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
29	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
31	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
32	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
33	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
34	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
35	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
36	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
	51	1.4	3	.1	0	0.0	0	0.0	0	0.0	54	1.5
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION 75FT		TURBULENCE CLASS		2		
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
1	20	.6	36	1.0	22	.6	4	.1	0	0.0
2	21	.6	36	1.0	12	.3	0	0.0	0	0.0
3	22	.6	36	1.0	11	.3	2	.1	0	0.0
4	25	.7	43	1.2	6	.2	0	0.0	0	0.0
5	16	.4	5	.1	4	.1	0	0.0	0	0.0
6	10	.3	10	.3	4	.1	0	0.0	0	0.0
7	19	.5	4	.1	4	.1	0	0.0	0	0.0
8	17	.5	7	.2	0	0.0	0	0.0	0	0.0
9	25	.7	15	.4	1	.0	0	0.0	0	0.0
10	32	.9	11	.3	3	.1	1	.0	0	0.0
11	20	.6	19	.5	7	.2	0	0.0	0	0.0
12	21	.6	32	.9	16	.4	4	.1	0	0.0
13	18	.5	20	.6	14	.4	0	0.0	0	0.0
14	12	.3	23	.6	17	.5	1	.0	0	0.0
15	22	.6	53	1.5	20	.6	2	.1	0	0.0
16	18	.5	43	1.2	12	.3	0	0.0	0	0.0
17	10	.3	33	.9	10	.3	1	.0	0	0.0
18	19	.5	35	1.0	38	1.1	9	.3	0	0.0
19	14	.4	36	1.0	21	.6	6	.2	0	0.0
20	12	.3	17	.5	14	.4	1	.0	0	0.0
21	6	.2	26	.6	6	.2	0	0.0	0	0.0
22	4	.1	14	.4	5	.1	0	0.0	0	0.0
23	4	.1	8	.2	5	.1	0	0.0	0	0.0
24	15	.4	4	.1	11	.3	0	0.0	0	0.0
25	13	.4	11	.3	6	.2	1	.0	0	0.0
26	6	.2	2	.1	4	.1	0	0.0	0	0.0
27	13	.4	13	.4	10	.3	1	.0	0	0.0
28	12	.3	7	.2	9	.3	0	0.0	0	0.0
29	11	.3	9	.3	1	.0	0	0.0	0	0.0
30	25	.7	22	.6	5	.1	0	0.0	0	0.0
31	7	.2	17	.5	7	.2	0	0.0	0	0.0
32	4	.1	16	.4	4	.1	0	0.0	0	0.0
33	21	.6	35	1.0	14	.4	1	.0	0	0.0
34	14	.4	55	1.5	39	1.1	4	.1	0	0.0
35	4	.1	22	.6	21	.6	1	.0	0	0.0
36	10	.3	35	1.0	24	.7	1	.0	0	0.0
	454	15.6	809	22.7	410	11.5	40	1.1	0	0.0
									1814	50.9
MEAN WIND SPEED 5										

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION 75FT TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
1°	4	.1	3	.1	0	0.0	0	0.0	0	0.0	7	.2
2°	2	.1	4	.1	0	0.0	0	0.0	0	0.0	6	.2
3°	4	.1	1	.0	1	.0	0	0.0	0	0.0	6	.2
4°	8	.2	0	0.0	0	0.0	0	0.0	0	0.0	8	.2
5°	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
6°	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
7°	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
8°	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
9°	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
10°	11	.3	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
11°	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
12°	4	.1	2	.1	0	0.0	0	0.0	0	0.0	6	.2
13°	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
14°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
15°	1	.0	3	.1	1	.0	0	0.0	0	0.0	5	.1
16°	4	.1	2	.1	0	0.0	0	0.0	0	0.0	6	.2
17°	1	0.0	3	.1	0	0.0	0	0.0	0	0.0	3	.1
18°	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
19°	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6	.2
20°	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
21°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
22°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
23°	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
24°	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
25°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
26°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
27°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
28°	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
29°	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
30°	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
31°	2	.1	3	.1	0	0.0	0	0.0	0	0.0	5	.1
32°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
33°	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1
34°	3	.1	3	.1	1	.0	0	0.0	0	0.0	7	.2
35°	1	.0	4	.1	0	0.0	0	0.0	0	0.0	5	.1
36°	3	.1	4	.1	0	0.0	0	0.0	0	0.0	7	.2
9A	2.5		43	1.2	3	.1	0	0.0	0	0.0	136	3.8
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION 75FT TURBULENCE CLASS				4				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
11	1	.0	3	.1	2	.1	8	.2	0	0.0	14	.4
21	2	.1	4	.1	0	0.0	3	.1	1	.0	10	.3
30	3	.1	5	.1	2	.1	9	.2	2	.1	20	.6
40	0	0.0	8	.2	2	.1	0	0.0	0	0.0	10	.3
50	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
60	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
70	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
80	0	0.0	4	.1	0	0.0	0	0.0	0	0.0	4	.1
90	1	.0	3	.1	0	0.0	0	0.0	0	0.0	4	.1
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
120	1	.0	3	.1	5	.1	0	0.0	0	0.0	9	.3
130	2	.1	5	.1	4	.1	1	.0	0	0.0	12	.3
140	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
150	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
160	1	.0	1	.0	0	0.0	0	0.0	1	.0	3	.1
170	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
180	1	.0	4	.1	9	.3	2	.1	0	0.0	16	.4
190	3	.1	2	.1	0	0.0	0	0.0	0	0.0	10	.3
200	0	0.0	0	0.0	4	.1	0	0.0	0	0.0	4	.1
210	0	0.0	2	.1	1	.0	1	.0	0	0.0	4	.1
220	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
230	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
240	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
250	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
260	0	0.0	0	0.0	3	.1	0	0.0	0	0.0	3	.1
270	0	0.0	2	.1	3	.1	0	0.0	0	0.0	5	.1
280	0	0.0	3	.1	4	.1	0	0.0	0	0.0	7	.2
290	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
300	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1
310	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
320	0	0.0	2	.1	3	.1	0	0.0	0	0.0	5	.1
330	0	0.0	4	.1	8	.2	2	.1	0	0.0	14	.4
340	1	.0	5	.1	13	.4	2	.1	0	0.0	21	.6
350	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.1
360	1	.0	1	.0	4	.1	2	.1	0	0.0	8	.2
26	.7		76	2.1	85	2.4	30	.8	4	.1	221	6.2
MEAN WIND SPEED 4												

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION /5FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	26	.7	4	.1	5	.1	0	0.0	0	0.0	35	1.0
20	13	.4	8	.2	1	.0	0	0.0	0	0.0	22	.6
30	16	.4	3	.1	0	0.0	0	0.0	0	0.0	19	.5
40	15	.4	1	.0	0	0.0	0	0.0	0	0.0	16	.4
50	13	.3	3	.1	0	0.0	0	0.0	0	0.0	13	.4
60	17	.5	5	.1	0	0.0	0	0.0	0	0.0	22	.6
70	19	.5	11	.3	4	.1	0	0.0	0	0.0	34	1.0
80	8	.2	10	.3	1	.0	0	0.0	0	0.0	19	.5
90	13	.4	8	.2	1	.0	0	0.0	0	0.0	22	.6
100	14	.4	18	.5	4	.1	0	0.0	0	0.0	36	1.0
110	11	.3	13	.4	3	.1	0	0.0	0	0.0	27	.8
120	26	.7	24	.7	1	.0	0	0.0	0	0.0	51	1.4
130	27	.8	17	.5	4	.1	0	0.0	0	0.0	48	1.3
140	13	.4	13	.4	1	.0	0	0.0	0	0.0	27	.8
150	20	.6	17	.5	1	.0	0	0.0	0	0.0	38	1.1
160	26	.7	28	.8	1	.0	0	0.0	0	0.0	55	1.5
170	15	.4	11	.3	2	.1	0	0.0	0	0.0	28	.8
180	22	.6	18	.5	6	.2	0	0.0	0	0.0	46	1.3
190	28	.8	29	.8	14	.4	0	0.0	0	0.0	71	2.0
200	11	.3	14	.4	5	.1	0	0.0	0	0.0	30	.8
210	19	.5	10	.3	1	.0	0	0.0	0	0.0	30	.8
220	24	.7	13	.4	0	0.0	1	.0	0	0.0	38	1.1
230	8	.2	6	.2	0	0.0	0	0.0	0	0.0	14	.4
240	21	.6	9	.3	2	.1	0	0.0	0	0.0	32	.9
250	13	.4	11	.3	2	.1	0	0.0	0	0.0	26	.7
260	12	.3	14	.4	6	.2	0	0.0	0	0.0	32	.9
270	17	.5	14	.4	5	.1	0	0.0	0	0.0	36	1.0
280	20	.6	31	.9	4	.1	0	0.0	0	0.0	55	1.5
290	23	.6	21	.6	4	.1	0	0.0	0	0.0	48	1.3
300	29	.8	38	1.1	2	.1	0	0.0	0	0.0	69	1.9
310	37	1.0	21	.6	5	.1	0	0.0	0	0.0	63	1.8
320	26	.7	20	.6	0	0.0	0	0.0	0	0.0	46	1.3
330	29	.8	31	.9	1	.0	0	0.0	0	0.0	61	1.7
340	30	.8	29	.8	2	.1	1	.0	0	0.0	62	1.7
350	16	.4	12	.3	0	0.0	0	0.0	0	0.0	28	.8
360	19	.5	11	.3	7	.2	0	0.0	0	0.0	37	1.0
693		10.5	546	15.3	95	2.7	2	.1	0	0.0	1336	37.5
MEAN WIND SPEED 3												

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS					LOCATION 75FT ALL CLASSES							
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	55	1.5	46	1.3	29	.8	12	.3	0	0.0	142	4.0
20	39	1.1	52	1.5	13	.4	3	.1	1	.0	108	3.0
30	48	1.3	45	1.3	14	.4	10	.3	2	.1	119	3.3
40	48	1.3	52	1.5	8	.2	0	0.0	0	0.0	108	3.0
50	34	1.0	19	.5	4	.1	0	0.0	0	0.0	48	1.3
60	48	1.3	16	.4	4	.1	0	0.0	0	0.0	68	1.9
70	44	1.2	23	.6	8	.2	0	0.0	0	0.0	72	2.0
80	27	.8	21	.6	1	.0	0	0.0	0	0.0	49	1.4
90	46	1.3	25	.7	2	.1	0	0.0	0	0.0	74	2.1
100	61	1.7	29	.8	7	.2	1	.0	0	0.0	98	2.8
110	42	1.2	32	.9	12	.3	0	0.0	0	0.0	86	2.4
120	55	1.5	61	1.7	22	.6	4	.1	0	0.0	142	4.0
130	52	1.5	43	1.2	22	.6	1	.0	0	0.0	118	3.3
140	26	.7	37	1.0	18	.5	1	.0	0	0.0	82	2.3
150	45	1.3	75	2.1	27	.8	2	.1	0	0.0	149	4.2
160	40	1.1	74	2.1	13	.4	0	0.0	1	.0	137	3.8
170	26	.7	46	1.3	18	.5	1	.0	0	0.0	93	2.6
180	45	1.3	58	1.6	53	1.5	11	.3	0	0.0	167	4.7
190	52	1.5	67	1.9	40	1.1	6	.2	0	0.0	165	4.6
200	23	.6	32	.9	23	.6	1	.0	0	0.0	79	2.2
210	27	.8	32	.9	8	.2	1	.0	0	0.0	68	1.9
220	32	.9	24	.6	5	.1	1	.0	0	0.0	66	1.9
230	15	.4	15	.4	5	.1	0	0.0	0	0.0	35	1.0
240	36	1.0	15	.4	14	.4	0	0.0	0	0.0	65	1.8
250	28	.8	23	.6	8	.2	1	.0	0	0.0	60	1.7
260	18	.5	16	.4	13	.4	0	0.0	0	0.0	47	1.3
270	32	.9	30	.8	18	.5	1	.0	0	0.0	81	2.3
280	36	1.0	41	1.2	17	.5	0	0.0	0	0.0	94	2.6
290	35	1.0	33	.9	5	.1	0	0.0	0	0.0	73	2.0
300	57	1.6	64	1.8	7	.2	0	0.0	0	0.0	128	3.6
310	46	1.3	42	1.2	13	.4	0	0.0	0	0.0	101	2.8
320	31	.9	39	1.1	7	.2	0	0.0	0	0.0	77	2.2
330	52	1.5	72	2.0	23	.6	3	.1	0	0.0	150	4.2
340	49	1.4	92	2.6	55	1.5	7	.2	0	0.0	203	5.7
350	22	.6	39	1.1	22	.6	2	.1	0	0.0	85	2.4
360	34	1.0	52	1.5	35	1.0	3	.1	0	0.0	124	3.5
1415		39.7	1477	41.5	593	16.7	72	2.0	4	.1	3561	100.0
MEAN WIND SPEED 4												
2 744												

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS					LOCATION 320FT TURBULENCE CLASS					1		
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
40	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
50	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
80	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
90	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
100	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.0
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
250	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
260	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
270	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
280	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
310	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
320	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
330	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
340	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
350	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
360	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
	44	1.2	6	.2	0	0.0	0	0.0	0	0.0	50	1.3
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS					LOCATION 320FT TURBULENCE CLASS					2				
DIRECTION	0-3			4-7			SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT		SUM	PERCENT		b-12	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	3	.1	28	.7	27	.7	17	.4	1	.0		76	2.0	
20	4	.1	26	.7	32	.8	14	.4	0	0.0		76	2.0	
30	4	.1	17	.4	26	.7	9	.2	0	0.0		56	1.5	
40	4	.1	16	.4	26	.7	2	.1	0	0.0		48	1.3	
50	9	.2	8	.2	9	.2	2	.1	0	0.0		28	.7	
60	3	.1	12	.3	10	.3	8	.2	0	0.0		33	.9	
70	6	.2	16	.4	13	.3	2	.1	0	0.0		37	1.0	
80	11	.3	8	.2	14	.4	1	.0	0	0.0		34	.9	
90	8	.2	26	.7	7	.2	2	.1	0	0.0		43	1.1	
100	14	.4	22	.6	13	.3	4	.1	0	0.0		53	1.4	
110	16	.3	31	.8	9	.2	2	.1	0	0.0		52	1.4	
120	9	.2	30	.8	19	.5	7	.2	3	.1		68	1.8	
130	10	.3	24	.6	36	.9	14	.4	2	.1		86	2.3	
140	4	.1	14	.4	27	.7	3	.1	3	.1		51	1.3	
150	7	.2	16	.4	28	.7	2	.1	0	0.0		53	1.4	
160	4	.1	12	.3	47	1.2	9	.2	0	0.0		72	1.9	
170	2	.1	12	.3	43	1.1	19	.5	0	0.0		76	2.0	
180	2	.1	18	.5	45	1.2	28	.7	3	.1		96	2.5	
190	2	.1	25	.7	46	1.2	22	.6	3	.1		98	2.6	
200	2	.1	9	.2	22	.6	7	.2	3	.1		43	1.1	
210	1	.0	24	.6	24	.6	5	.1	0	0.0		54	1.4	
220	3	.1	12	.3	20	.5	9	.2	0	0.0		44	1.2	
230	2	.1	14	.4	11	.3	7	.2	0	0.0		34	.9	
240	1	.0	3	.1	12	.3	6	.2	3	.1		29	.8	
250	2	.1	3	.1	8	.2	8	.2	0	0.0		30	.8	
260	1	.0	3	.1	6	.2	8	.2	0	0.0		18	.5	
270	1	.0	7	.2	15	.4	8	.2	0	0.0		31	.8	
280	0	0.0	10	.3	11	.3	5	.1	0	0.0		26	.7	
290	0	0.0	2	.1	13	.3	6	.2	0	0.0		21	.6	
300	1	.0	7	.2	7	.2	17	.4	1	.0		33	.9	
310	2	.1	10	.3	14	.4	14	.4	0	0.0		40	1.0	
320	5	.1	9	.2	27	.7	16	.4	1	.0		58	1.5	
330	6	.2	22	.6	47	1.2	25	.7	3	.1		103	2.7	
340	5	.1	28	.7	32	.8	20	.5	2	.1		87	2.3	
350	0	0.0	20	.5	18	.5	8	.2	1	.0		47	1.2	
360	5	.1	20	.5	19	.5	7	.2	2	.1		53	1.4	
153 4.0 573 15.0 787 20.7 343 9.0 31 .8 1887 49.5														
MEAN WIND SPEED 9														

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION 320FT TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	4	.1	0	0.0	0	0.0	0	0.0	5	.1
20	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
30	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.1
40	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
50	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
60	6	.2	1	.0	0	0.0	0	0.0	0	0.0	7	.2
70	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
80	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
90	11	.3	0	0.0	0	0.0	0	0.0	0	0.0	11	.3
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
120	4	.1	1	.0	0	0.0	0	0.0	0	0.0	5	.1
130	1	.0	3	.1	0	0.0	0	0.0	0	0.0	4	.1
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	1	.0	1	.0	0	0.0	1	.0	0	0.0	3	.1
160	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1
170	2	.1	4	.1	1	.0	0	0.0	0	0.0	7	.2
180	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
190	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	3	.1	0	0.0	1	.0	0	0.0	0	0.0	4	.1
230	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
240	2	.1	0	0.0	1	.0	0	0.0	0	0.0	3	.1
250	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
260	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
270	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
280	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1
310	3	.1	4	.1	0	0.0	0	0.0	0	0.0	7	.2
320	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
330	2	.1	5	.2	0	0.0	0	0.0	0	0.0	7	.2
340	1	.0	10	.3	2	.1	0	0.0	0	0.0	13	.3
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
360	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.1
	81	2.1	49	1.3	6	.2	1	.0	0	0.0	137	3.6
MEAN WIND SPEED 3												

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION 320FT TURBULENCE CLASS				4				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	6	.2	9	.2	15	.4
20	0	0.0	0	0.0	0	0.0	3	.1	2	.1	5	.1
30	0	0.0	0	0.0	0	0.0	0	0.0	5	.1	5	.1
40	0	0.0	0	0.0	0	0.0	0	0.0	3	.1	3	.1
50	0	0.0	0	0.0	0	0.0	2	.1	2	.1	4	.1
60	0	0.0	0	0.0	2	.1	2	.1	6	.2	10	.3
70	0	0.0	0	0.0	0	0.0	2	.1	1	.0	3	.1
80	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
90	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
100	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.1
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
130	0	0.0	0	0.0	0	0.0	3	.1	1	.0	4	.1
140	0	0.0	0	0.0	2	.1	3	.1	0	0.0	5	.1
150	0	0.0	1	.0	1	.0	3	.1	0	0.0	5	.1
160	0	0.0	0	0.0	3	.1	5	.1	0	0.0	8	.2
170	0	0.0	2	.1	3	.1	5	.1	0	0.0	10	.3
180	0	0.0	1	.0	6	.2	13	.3	1	.0	21	.6
190	1	.0	1	.0	4	.1	13	.3	1	.0	20	.5
200	0	0.0	0	0.0	5	.1	5	.1	0	0.0	10	.3
210	0	0.0	0	0.0	5	.1	2	.1	0	0.0	7	.2
220	0	0.0	0	0.0	2	.1	2	.1	0	0.0	4	.1
230	0	0.0	0	0.0	2	.1	5	.1	0	0.0	7	.2
240	0	0.0	1	.0	1	.0	6	.2	0	0.0	8	.2
250	0	0.0	2	.1	0	0.0	3	.1	0	0.0	5	.1
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.1
280	0	0.0	0	0.0	0	0.0	5	.1	2	.1	7	.2
290	0	0.0	0	0.0	2	.1	5	.1	2	.1	9	.2
300	0	0.0	0	0.0	3	.1	3	.1	3	.1	9	.2
310	0	0.0	0	0.0	3	.1	11	.3	6	.2	20	.5
320	0	0.0	0	0.0	0	0.0	9	.2	2	.1	11	.3
330	0	0.0	0	0.0	2	.1	14	.4	4	.1	20	.5
340	0	0.0	0	0.0	1	.0	7	.2	3	.1	11	.3
350	0	0.0	0	0.0	1	.0	6	.2	6	.2	13	.3
360	0	0.0	0	0.0	1	.0	6	.2	5	.1	12	.3
	1	.0	9	.2	53	1.4	149	3.9	64	1.7	276	7.2
MEAN WIND SPEED 15												

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS

LOCATION 320FT TURBULENCE CLASS

5

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	7	.2	15	.4	18	.5	8	.2	0	0.0	48	1.3
20	15	.4	7	.2	6	.2	6	.2	1	.0	35	.9
30	14	.4	12	.3	6	.2	0	0.0	0	0.0	32	.8
40	6	.2	15	.4	1	.0	0	0.0	0	0.0	22	.6
50	18	.5	11	.3	1	.0	0	0.0	0	0.0	30	.8
60	16	.4	5	.1	1	.0	0	0.0	0	0.0	22	.6
70	7	.2	6	.2	0	0.0	0	0.0	0	0.0	16	.4
80	8	.2	3	.1	0	0.0	0	0.0	0	0.0	11	.3
90	13	.3	6	.2	0	0.0	0	0.0	0	0.0	19	.5
100	6	.2	3	.1	1	.0	0	0.0	0	0.0	12	.3
110	8	.2	3	.1	2	.1	1	.0	0	0.0	14	.4
120	13	.3	7	.2	0	0.0	2	.1	1	.0	23	.6
130	11	.3	3	.1	6	.2	0	0.0	0	0.0	20	.5
140	10	.3	3	.1	6	.2	1	.0	0	0.0	30	.8
150	9	.2	17	.4	19	.5	3	.1	0	0.0	48	1.3
160	15	.4	20	.5	22	.6	11	.3	0	0.0	68	1.8
170	6	.2	12	.3	12	.3	12	.3	0	0.0	57	1.5
180	15	.4	13	.3	13	.3	25	.7	2	.1	68	1.8
190	12	.3	14	.4	27	.7	17	.4	0	0.0	70	1.8
200	7	.2	18	.5	15	.4	5	.1	1	.0	46	1.2
210	12	.3	21	.6	24	.6	5	.1	0	0.0	63	1.7
220	10	.3	23	.6	9	.2	2	.1	0	0.0	44	1.2
230	7	.2	14	.4	11	.3	5	.1	2	.1	39	1.0
240	7	.2	22	.6	12	.3	11	.3	2	.1	54	1.4
250	10	.3	12	.3	12	.3	14	.3	1	.0	45	1.2
260	4	.1	9	.2	8	.2	13	.3	1	.0	35	.9
270	4	.1	19	.5	15	.4	10	.3	0	0.0	48	1.3
280	5	.1	13	.3	8	.2	13	.3	0	0.0	39	1.0
290	2	.1	6	.2	9	.2	14	.4	3	.1	34	.9
300	4	.1	15	.4	9	.2	12	.3	4	.1	44	1.2
310	7	.2	9	.2	20	.5	21	.6	2	.1	59	1.5
320	6	.2	13	.3	36	.9	17	.4	1	.0	73	1.9
330	4	.1	11	.3	33	.9	15	.4	0	0.0	63	1.7
340	4	.1	17	.4	22	.6	8	.2	0	0.0	51	1.3
350	6	.2	20	.5	13	.3	3	.1	0	0.0	42	1.1
360	7	.2	13	.3	13	.3	4	.1	0	0.0	37	1.0
											315	8.3
											445	11.7
											422	11.1
											258	6.8
											21	.6
											1461	38.3

MEAN WIND SPEED 7

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS

LOCATION 320FT ALL CLASSES

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	13	.3	47	1.2	45	1.2	31	.8	10	.3	146	3.8
20	22	.6	34	.9	38	1.0	23	.6	3	.1	120	3.1
30	25	.7	31	.8	32	.8	9	.2	5	.1	102	2.7
40	14	.4	31	.8	27	.7	2	.1	3	.1	77	2.0
50	31	.8	12	.3	10	.3	4	.1	2	.1	66	1.7
60	26	.7	18	.5	13	.3	10	.3	6	.2	73	1.9
70	21	.6	25	.7	14	.4	4	.1	1	.0	65	1.7
80	22	.6	12	.3	15	.4	1	.0	0	0.0	50	1.3
90	33	.9	35	.9	8	.2	2	.1	0	0.0	76	2.0
100	20	.5	27	.7	15	.4	5	.1	0	0.0	67	1.8
110	20	.5	36	.9	11	.3	3	.1	0	0.0	70	1.8
120	27	.7	39	1.0	19	.5	9	.2	4	.1	98	2.6
130	23	.6	30	.8	42	1.1	17	.4	0	0.0	115	3.0
140	14	.4	27	.7	35	.9	7	.2	3	.1	86	2.3
150	20	.5	35	.9	48	1.3	9	.2	0	0.0	112	2.9
160	21	.6	34	.9	72	1.9	23	.6	0	0.0	150	3.9
170	10	.3	30	.8	74	1.9	36	.9	0	0.0	150	3.9
180	23	.6	33	.9	64	1.7	66	1.7	6	.2	192	5.0
190	17	.4	40	1.0	77	2.0	52	1.4	4	.1	190	5.0
200	11	.3	27	.7	42	1.1	17	.4	4	.1	101	2.7
210	13	.3	46	1.2	53	1.4	12	.3	0	0.0	124	3.3
220	13	.3	35	.9	32	.8	13	.3	0	0.0	97	2.5
230	11	.3	28	.7	24	.6	17	.4	2	.1	82	2.2
240	13	.3	30	.8	26	.7	23	.6	5	.1	97	2.5
250	16	.4	23	.6	20	.5	25	.7	1	.0	85	2.2
260	9	.2	13	.3	14	.4	21	.6	1	.0	57	1.5
270	9	.2	27	.7	31	.8	19	.5	0	0.0	86	2.3
280	10	.3	24	.6	19	.5	23	.6	2	.1	78	2.0
290	2	.1	8	.2	24	.6	25	.7	5	.1	64	1.7
300	8	.2	24	.6	19	.5	32	.8	8	.2	91	2.4
310	9	.2	24	.6	37	1.0	46	1.2	8	.2	124	3.3
320	14	.4	22	.6	64	1.7	42	1.1	4	.1	146	3.8
330	14	.4	39	1.0	82	2.2	54	1.4	7	.2	196	5.1
340	10	.3	56	1.5	57	1.5	35	.9	5	.1	163	4.3
350	9	.2	40	1.0	32	.8	17	.4	7	.2	105	2.8
360	18	.5	35	.9	33	.9	17	.4	7	.2	110	2.9
											594	15.6
											1082	28.4
											1268	33.3
											751	19.7
											116	3.0
											3811	100.0
											MISSING HOURS 605	

MEAN WIND SPEED 8
3 744

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS

LOCATION SAT, TURBULENCE CLASS

1

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
40	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
100	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.2
130	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
160	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
170	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
180	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
310	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
	29	1.3	7	.3	0	0.0	0	0.0	0	0.0	36	1.6

MEAN WIND SPEED 1

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS

LOCATION SAT, TURBULENCE CLASS

2

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	7	.3	11	.5	8	.3	1	.0	0	0.0	27	1.2
20	3	.1	15	.7	16	.7	1	.0	0	0.0	35	1.5
30	5	.2	11	.5	5	.2	1	.0	0	0.0	22	1.0
40	2	.1	5	.2	5	.2	0	0.0	0	0.0	12	.5
50	1	.0	9	.4	3	.1	2	.1	0	0.0	15	.7
60	9	.4	10	.4	2	.1	1	.0	0	0.0	22	1.0
70	13	.6	7	.3	3	.1	0	0.0	0	0.0	23	1.0
80	7	.3	5	.2	2	.1	0	0.0	0	0.0	14	.6
90	12	.5	4	.2	2	.1	2	.1	0	0.0	20	.9
100	6	.3	9	.4	3	.1	0	0.0	0	0.0	18	.8
110	17	.7	12	.5	1	.0	1	.0	0	0.0	31	1.3
120	20	.9	20	.9	16	.7	0	0.0	0	0.0	56	2.4
130	24	1.0	18	.8	25	1.1	3	.1	0	0.0	70	3.0
140	11	.5	12	.5	17	.7	2	.1	0	0.0	42	1.8
150	15	.7	25	1.2	27	1.2	0	0.0	0	0.0	70	3.0
160	14	.6	28	1.2	26	1.1	3	.1	0	0.0	71	3.1
170	8	.3	18	.8	32	1.3	13	.6	0	0.0	69	3.0
180	7	.3	20	.9	22	1.0	10	.4	0	0.0	59	2.6
190	16	.7	12	.5	18	.8	1	.0	0	0.0	47	2.0
200	6	.3	6	.3	5	.2	0	0.0	0	0.0	17	.7
210	13	.6	14	.6	5	.2	1	.0	0	0.0	33	1.4
220	7	.3	2	.1	5	.2	0	0.0	1	.0	15	.7
230	1	.0	5	.2	3	.1	0	0.0	0	0.0	9	.4
240	9	.4	6	.3	6	.3	1	.0	0	0.0	24	1.0
250	6	.3	4	.2	3	.1	0	0.0	0	0.0	17	.7
260	9	.4	4	.2	3	.1	1	.0	0	0.0	16	.7
270	14	.6	4	.2	3	.1	2	.1	0	0.0	23	1.0
280	0	0.0	3	.1	5	.2	0	0.0	0	0.0	16	.7
290	5	.2	3	.1	0	0.0	1	.0	0	0.0	9	.4
300	16	.7	8	.3	5	.2	1	.0	0	0.0	30	1.3
310	9	.4	11	.5	6	.3	1	.0	0	0.0	27	1.2
320	8	.3	7	.3	16	.7	9	.4	0	0.0	40	1.7
330	17	.7	19	.8	18	.8	26	1.1	3	.1	83	3.6
340	15	.7	19	.8	25	1.1	12	.5	2	.1	73	3.2
350	6	.3	10	.4	16	.7	14	.6	1	.0	47	2.0
360	4	.2	16	.7	5	.2	1	.0	0	0.0	26	1.1
	349	15.1	399	17.3	362	15.7	111	4.8	7	.3	1228	53.2

MEAN WIND SPEED 6

PBAPS

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION SAT, TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12		13-18		SUM	PERCENT		
10	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
20	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
30	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.2
40	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	5	.2	0	0.0	0	0.0	0	0.0	0	0.0	5	.2
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
140	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1
150	2	.1	5	.2	1	.0	0	0.0	0	0.0	8	.3
160	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
170	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
180	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
250	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
280	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
290	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
300	4	.2	0	0.0	0	0.0	0	0.0	0	0.0	4	.2
310	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
320	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
330	1	.0	3	.1	2	.1	0	0.0	0	0.0	6	.3
340	1	.0	2	.1	2	.1	0	0.0	0	0.0	5	.2
350	1	.0	2	.1	1	.0	0	0.0	0	0.0	4	.2
360	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
	44	1.9	19	.8	10	.4	0	0.0	0	0.0	73	3.2
MEAN WIND SPEED 3												

WIND ROSE FOR STATION 12 JUL-SEPT, 2YRS				LOCATION SAT, TURBULENCE CLASS				4					
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT	
	SUM	PERCENT	SUM	PERCENT	8-12		13-18		SUM	PERCENT			
10	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0	
20	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1	
30	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
60	0	0.0	2	.1	1	.0	1	.0	0	0.0	4	.2	
70	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0	
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
120	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1	
130	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1	
140	0	0.0	0	0.0	3	.1	0	0.0	0	0.0	3	.1	
150	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1	
160	1	.0	1	.0	5	.2	1	.0	0	0.0	8	.3	
170	0	0.0	3	.1	5	.2	1	.0	1	.0	10	.4	
180	2	.1	4	.2	1	.0	0	0.0	0	0.0	7	.3	
190	2	.1	0	0.0	5	.2	0	0.0	0	0.0	7	.3	
200	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1	
210	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.2	
220	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1	
230	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
240	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
250	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1	
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
270	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1	
280	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1	
290	0	0.0	3	.1	1	.0	0	0.0	0	0.0	4	.2	
300	4	.2	2	.1	5	.2	0	0.0	0	0.0	11	.5	
310	1	.0	2	.1	5	.2	2	.1	0	0.0	10	.4	
320	1	.0	6	.3	6	.3	1	.0	0	0.0	14	.6	
330	1	.0	2	.1	4	.2	1	.0	0	0.0	8	.3	
340	0	0.0	1	.0	7	.3	6	.3	0	0.0	14	.6	
350	0	0.0	1	.0	2	.1	1	.0	1	.0	5	.2	
360	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3	.1	
27	1.2		42	1.8	57	2.5	14	.6	2	.1	142	6.2	
MEAN WIND SPEED													7

2

MEAN WIND SPEED 2

LOCATION SAT, ALL CLASSES

MEAN WIND SPEED 5

MISSING HOURS	2109	100.0
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PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 30FT TUBULENCE CLASS				1				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
1st	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2nd	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3rd	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
4th	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
5th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
6th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
7th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
8th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9th	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
10th	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
11th	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
12th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
13th	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
14th	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
15th	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
16th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
17th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
18th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
19th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
20th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
21th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
22th	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
23th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
24th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
25th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
26th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
27th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
28th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
29th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30th	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
31st	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6	.2
32nd	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
33rd	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
34th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
35th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
36th	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
	50	1.3	2	.1	0	0.0	0	0.0	0	0.0	52	1.3
MEAN WIND SPEED 1												

MEAN WIND SPEED 1

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 30FT TUBULENCE CLASS				2				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
1st	4	.1	15	.4	7	.1	0	0.0	0	0.0	22	.6
2nd	4	.1	5	.1	0	0.0	0	0.0	0	0.0	9	.2
3rd	3	.1	3	.1	5	.1	0	0.0	0	0.0	11	.3
4th	6	.2	1	.0	1	.0	0	0.0	0	0.0	8	.2
5th	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
6th	1	.0	3	.1	1	.0	0	0.0	0	0.0	5	.1
7th	16	.4	7	.2	3	.1	0	0.0	0	0.0	21	.5
8th	7	.2	3	.1	0	0.0	0	0.0	0	0.0	10	.3
9th	11	.3	4	.1	1	.0	0	0.0	0	0.0	16	.4
10th	16	.4	9	.2	5	.1	0	0.0	0	0.0	30	.8
11th	15	.4	7	.2	13	.3	1	.0	0	0.0	36	.9
12th	28	.7	15	.4	13	.3	0	0.0	0	0.0	56	1.4
13th	59	1.5	5	.1	0	0.0	0	0.0	0	0.0	64	1.6
14th	80	2.0	11	.3	0	0.0	0	0.0	0	0.0	91	2.3
15th	116	3.0	16	.4	0	0.0	0	0.0	0	0.0	132	3.4
16th	88	2.2	5	.1	0	0.0	0	0.0	0	0.0	93	2.4
17th	26	.7	3	.1	0	0.0	0	0.0	0	0.0	29	.7
18th	21	.5	1	.0	0	0.0	0	0.0	0	0.0	22	.6
19th	18	.5	0	0.0	0	0.0	0	0.0	0	0.0	18	.5
20th	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
21st	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
22nd	16	.4	0	0.0	0	0.0	0	0.0	0	0.0	16	.4
23rd	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
24th	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
25th	8	.2	0	0.0	0	0.0	0	0.0	0	0.0	8	.2
26th	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
27th	16	.4	0	0.0	0	0.0	0	0.0	0	0.0	16	.4
28th	84	2.1	14	.4	0	0.0	0	0.0	0	0.0	98	2.5
29th	146	3.7	54	1.4	2	.1	0	0.0	0	0.0	202	5.2
30th	133	3.4	175	4.5	60	1.5	8	.2	1	.0	377	9.6
31st	47	1.2	109	2.8	78	2.0	7	.2	0	0.0	241	6.2
32nd	12	.3	35	.9	47	1.2	1	.0	0	0.0	95	2.4
33rd	15	.4	31	.8	19	.5	1	.0	0	0.0	66	1.7
34th	10	.3	19	.5	23	.6	0	0.0	0	0.0	52	1.3
35th	10	.3	17	.4	15	.4	0	0.0	0	0.0	42	1.1
36th	14	.4	19	.5	6	.2	0	0.0	0	0.0	39	1.0
	1042	26.6	581	14.8	295	7.5	18	.5	1	.0	1937	49.5
MEAN WIND SPEED 4												

MEAN WIND SPEED 4

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 30FT		TURBULENCE CLASS		3				
DIRECTION	0-3		4-7		SPEEDS (MI/H)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
20	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
30	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
100	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	5	.1	2	.1	0	0.0	0	0.0	0	0.0	7	.2
140	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
150	5	.1	0	0.0	0	0.0	0	0.0	0	0.0	5	.1
160	6	.2	1	.0	0	0.0	0	0.0	0	0.0	7	.2
170	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
180	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
260	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
290	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
300	5	.1	3	.1	0	0.0	0	0.0	0	0.0	8	.2
310	6	.2	7	.2	0	0.0	0	0.0	0	0.0	13	.3
320	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
330	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
340	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
	64	1.6	16	.4	0	0.0	0	0.0	0	0.0	80	2.0
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 30FT		TURBULENCE CLASS		4				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
1°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
2°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
6°	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
7°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
11°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
12°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
13°	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
14°	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6	.2
15°	3	.1	0	0.0	1	.0	0	0.0	0	0.0	4	.1
16°	8	.2	15	.4	1	.0	0	0.0	0	0.0	24	.6
17°	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
18°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
19°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
21°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
22°	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
23°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
24°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
25°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
26°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
27°	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
28°	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
29°	4	.1	12	.3	2	.1	0	0.0	0	0.0	16	.4
30°	18	.5	39	1.0	47	1.2	14	.4	0	0.0	118	3.0
31°	4	.1	28	.7	71	1.8	22	.6	0	0.0	125	3.2
32°	0	0.0	0	0.0	20	.5	6	.2	0	0.0	26	.7
33°	0	0.0	2	.1	0	0.0	13	.3	0	0.0	15	.4
34°	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
35°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
36°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
	56	1.4	117	3.0	161	4.1	60	1.5	0	0.0	394	10.1
MEAN WIND SPEED 8												

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 30FT		TURBULENCE CLASS		5				
DIRECTION	n-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	SUM	PERCENT				
10	12	.3	0	0.0	0	0.0	0	3.0	0	0.0	12	.3
20	6	.2	0	0.0	0	0.0	0	3.0	0	0.0	6	.2
30	5	.1	0	0.0	0	0.0	0	3.0	0	0.0	5	.1
40	12	.3	0	0.0	0	0.0	0	3.0	0	0.0	12	.3
50	7	.2	0	0.0	0	0.0	0	3.0	0	0.0	7	.2
60	8	.2	0	0.0	0	0.0	0	3.0	0	0.0	8	.2
70	16	.4	0	0.0	0	0.0	0	3.0	0	0.0	16	.4
80	9	.2	0	0.0	0	0.0	0	3.0	0	0.0	9	.2
90	16	.4	1	.0	0	0.0	0	3.0	0	0.0	17	.4
100	23	.6	0	0.0	0	0.0	0	3.0	0	0.0	23	.6
110	15	.4	0	0.0	0	0.0	0	3.0	0	0.0	15	.4
120	36	.9	1	.0	0	0.0	0	3.0	0	0.0	37	.9
130	35	.9	1	.0	0	0.0	0	3.0	0	0.0	36	.9
140	25	.6	0	0.0	0	0.0	0	3.0	0	0.0	25	.6
150	22	.4	0	0.0	0	0.0	0	3.0	0	0.0	22	.4
160	26	.7	0	0.0	0	0.0	0	3.0	0	0.0	26	.7
170	9	.2	0	0.0	0	0.0	0	3.0	0	0.0	9	.2
180	15	.4	0	0.0	0	0.0	0	3.0	0	0.0	15	.4
190	21	.5	0	0.0	0	0.0	0	3.0	0	0.0	21	.5
200	8	.2	0	0.0	0	0.0	0	3.0	0	0.0	8	.2
210	16	.4	0	0.0	0	0.0	0	3.0	0	0.0	16	.4
220	27	.7	0	0.0	0	0.0	0	3.0	0	0.0	27	.7
230	3	.1	0	0.0	0	0.0	0	3.0	0	0.0	3	.1
240	18	.5	0	0.0	0	0.0	0	3.0	0	0.0	18	.5
250	30	.8	0	0.0	0	0.0	0	3.0	0	0.0	30	.8
260	33	.8	0	0.0	0	0.0	0	3.0	0	0.0	33	.8
270	134	3.4	2	.1	0	0.0	0	3.0	0	0.0	136	3.5
280	362	9.3	19	.5	0	0.0	0	3.0	0	0.0	381	9.7
290	227	5.8	46	1.2	1	.0	0	3.0	0	0.0	274	7.0
300	72	1.8	20	.5	0	0.0	0	3.0	0	0.0	92	2.4
310	34	.9	6	.2	2	.1	0	3.0	0	0.0	42	1.1
320	10	.3	0	0.0	0	0.0	0	3.0	0	0.0	10	.3
330	16	.4	3	.1	0	0.0	0	3.0	0	0.0	19	.5
340	11	.3	0	0.0	0	0.0	0	3.0	0	0.0	11	.3
350	6	.2	1	.0	0	0.0	0	3.0	0	0.0	7	.2
360	20	.5	1	.0	1	.0	0	3.0	0	0.0	22	.6
	1345	34.4	101	2.6	4	.1	0	0.0	0	0.0	1450	37.1
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 30FT		ALL CLASSES							
DIRECTION	n-3		4-7		SPEEDS (MI / HR)				19 PLUS		SUM	PERCENT	
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	20-24	25-29				
10	18	.5	15	.4	3	.1	0	3.0	0	0.0	36	.9	
20	11	.3	5	.1	0	0.0	0	3.0	0	0.0	16	.4	
30	13	.3	3	.1	5	.1	0	3.0	0	0.0	21	.5	
40	20	.5	2	.1	1	.0	0	3.0	0	0.0	23	.6	
50	10	.3	0	0.0	0	0.0	0	3.0	0	0.0	10	.3	
60	13	.3	3	.1	1	.0	0	3.0	0	0.0	17	.4	
70	33	.8	2	.1	3	.1	0	3.0	0	0.0	38	1.0	
80	16	.4	3	.1	0	0.0	0	3.0	0	0.0	19	.5	
90	33	.8	5	.1	1	.0	0	3.0	0	0.0	39	1.0	
100	43	1.1	9	.2	5	.1	0	3.0	0	0.0	57	1.5	
110	33	.8	7	.2	13	.3	1	3.0	0	0.0	54	1.4	
120	65	1.7	16	.4	13	.3	0	3.0	0	0.0	94	2.4	
130	108	2.8	8	.2	0	0.0	0	3.0	0	0.0	116	3.0	
140	118	3.0	12	.3	0	0.0	0	3.0	0	0.0	130	3.3	
150	151	3.9	24	.6	1	.0	0	3.0	0	0.0	176	4.5	
160	129	3.3	21	.5	1	.0	0	3.0	0	0.0	151	3.9	
170	39	1.0	5	.1	0	0.0	0	3.0	0	0.0	44	1.1	
180	38	1.0	1	.0	0	0.0	0	3.0	0	0.0	39	1.0	
190	41	1.1	0	0.0	0	0.0	0	3.0	0	0.0	41	1.0	
200	11	.3	0	0.0	0	0.0	0	3.0	0	0.0	11	.3	
210	19	.5	0	0.0	0	0.0	0	3.0	0	0.0	19	.5	
220	47	1.2	1	.0	0	0.0	0	3.0	0	0.0	48	1.2	
230	3	.1	0	0.0	0	0.0	0	3.0	0	0.0	3	.1	
240	19	.5	0	0.0	0	0.0	0	3.0	0	0.0	19	.5	
250	43	1.1	0	0.0	0	0.0	0	3.0	0	0.0	43	1.1	
260	40	1.0	0	0.0	0	0.0	0	3.0	0	0.0	40	1.0	
270	155	4.1	2	.1	0	0.0	0	3.0	0	0.0	157	4.0	
280	392	11.6	33	.8	0	0.0	0	3.0	0	0.0	425	12.4	
290	378	9.7	112	2.9	5	.1	0	3.0	0	0.0	495	12.7	
300	230	5.9	234	6.1	107	2.7	22	3.0	1	.0	598	15.3	
310	97	2.5	150	3.8	151	3.9	29	3.0	0	0.0	427	10.9	
320	23	.6	44	1.1	75	1.9	7	3.0	0	0.0	149	3.8	
330	33	.8	36	.9	27	.7	14	3.0	0	0.0	110	2.8	
340	22	.6	21	.5	24	.7	5	3.0	0	0.0	74	1.9	
350	16	.4	18	.5	15	.4	0	3.0	0	0.0	49	1.3	
360	38	1.0	21	.5	7	.2	0	3.0	0	0.0	66	1.7	
	2557	65.3	817	20.9	460	11.8	78	2.0	1	.0	3913	100.0	
MISSING HOURS												502	
MEAN WIND SPEED 3													
2 744													

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 100FT TURBULENCE CLASS				1				
DIRECTION	0-3		4-7	SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT	
	SUM	PERCENT		SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
10	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
70	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
160	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
170	5	.2	0	0.0	0	0.0	0	0.0	0	0.0	5	.2
180	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
220	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
280	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
310	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
320	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	37	1.2	2	.1	0	0.0	0	0.0	0	0.0	39	1.3
MEAN WIND SPEED	1											

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 100FT TURBULENCE CLASS				2			
DIRECTION	0-3		4-7	SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT		SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	5	.2	7	.2	2	.1	1	.0	0.0	15	.5
20	2	.1	1	.0	3	.1	2	.1	0	8	.3
30	4	.1	4	.1	4	.1	0	0.0	0	12	.4
40	4	.1	1	.0	3	.1	1	.0	0	9	.3
50	4	.1	0	0.0	1	.0	0	0.0	0	5	.2
60	0	0.0	1	.0	1	.0	1	.0	0	3	.1
70	5	.2	8	.3	11	.4	2	.1	1	27	.9
80	2	.1	1	.0	13	.4	4	.1	0	20	.6
90	6	.2	3	.1	14	.5	3	.1	0	26	.8
100	23	.7	5	.2	4	.1	0	0.0	0	32	1.0
110	12	.4	22	.7	1	.0	1	.0	0	36	1.2
120	33	1.1	36	1.2	8	.3	0	0.0	0	77	2.5
130	39	1.3	48	1.6	6	.2	0	0.0	0	93	3.0
140	16	.5	7	.2	1	.0	0	0.0	0	24	.8
150	11	.4	12	.4	14	.5	0	0.0	0	37	1.2
160	24	.8	17	.6	5	.2	0	0.0	0	46	1.5
170	46	1.5	9	.3	4	.1	0	0.0	0	59	1.9
180	10	.3	3	.1	1	.0	0	0.0	0	14	.5
190	3	.1	0	0.0	0	0.0	0	0.0	0	3	.1
200	1	.0	0	0.0	0	0.0	0	0.0	0	1	.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	1	.0
220	4	.1	3	.1	1	.0	0	0.0	0	8	.3
230	12	.4	9	.3	0	0.0	0	0.0	0	21	.7
240	17	.6	48	1.6	1	.0	0	0.0	0	66	2.1
250	16	.5	50	1.6	6	.2	0	0.0	0	72	2.3
260	18	.6	40	1.3	14	.5	0	0.0	0	72	2.3
270	8	.3	19	.6	15	.5	0	0.0	0	42	1.4
280	24	.8	38	1.2	52	1.7	5	.2	0	119	3.9
290	42	1.4	25	.8	37	1.2	9	.3	0	113	3.7
300	26	.8	53	1.7	25	.8	6	.2	0	110	3.6
310	26	.8	48	1.6	44	1.4	12	.4	0	130	4.2
320	7	.2	31	1.0	25	.8	10	.3	0	73	2.4
330	13	.4	43	1.4	33	1.1	6	.2	0	95	3.1
340	12	.4	19	.6	27	.9	4	.1	0	62	2.0
350	10	.3	13	.4	10	.3	1	.0	0	34	1.1
360	7	.2	11	.4	8	.3	1	.0	0	27	.9
	493	16.0	635	20.6	394	12.8	69	2.2	1	1592	51.6
MEAN WIND SPEED	5										

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS LOCATION 100FT TURBULENCE CLASS

3

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	20-24	SUM	PERCENT		
10	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
110	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	5	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.2
140	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
150	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
160	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
170	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
250	3	.1	6	.2	1	.0	0	0.0	0	0.0	10	.3
260	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
270	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
280	1	.0	2	.1	2	.1	0	0.0	0	0.0	5	.2
290	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
300	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
310	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
340	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
360	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
	46	1.5	17	.6	3	.1	0	0.0	0	0.0	66	2.1

MEAN WIND SPEED 3

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS LOCATION 100FT TURBULENCE CLASS

4

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	20-24	SUM	PERCENT		
10	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
120	0	0.0	2	.1	2	.1	1	.0	0	0.0	5	.2
130	0	0.0	9	.3	17	.6	3	.1	0	0.0	29	.9
140	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	0	0.0	5	.2	1	.0	0	0.0	0	0.0	6	.2
250	0	0.0	12	.4	13	.4	0	0.0	0	0.0	25	.8
260	0	0.0	5	.2	9	.3	1	.0	0	0.0	15	.5
270	0	0.0	1	.0	4	.1	4	.1	0	0.0	9	.3
280	0	0.0	1	.0	8	.3	7	.2	1	.0	17	.6
290	0	0.0	4	.1	29	.9	25	.8	1	.0	59	1.9
300	1	.0	1	.0	28	.9	17	.6	2	.1	49	1.6
310	0	0.0	2	.1	25	.8	15	.5	2	.1	44	1.4
320	0	0.0	2	.1	2	.1	16	.5	2	.1	22	.7
330	0	0.0	10	.3	21	.7	24	.8	2	.1	57	1.8
340	0	0.0	1	.0	6	.2	3	.1	0	0.0	10	.3
350	0	0.0	2	.1	5	.2	2	.1	0	0.0	9	.3
360	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
	2	.1	57	1.8	174	5.6	118	3.8	16	.5	367	11.9

MEAN WIND SPEED 11

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 100FT TUMBLANCE CLASS				5			
DIRECTION	SPEEDS (MI/HR)		SUM PERCENT	SPEEDS (MI/HR)		SUM PERCENT	19 PLUS	SUM PERCENT	SUM	PERCENT	
	0-3	4-7		8-12	13-18						
10	15	.5	1	0	0	0	0	0	16	.5	
20	4	.1	0	0	0	0	0	0	4	.1	
30	9	.3	0	0	0	0	0	0	9	.3	
40	21	.7	0	0	0	0	0	0	21	.7	
50	4	.1	0	0	0	0	0	0	4	.1	
60	4	.1	0	0	0	0	0	0	4	.1	
70	13	.4	1	0	0	0	0	0	14	.5	
80	10	.3	0	0	0	0	0	0	10	.3	
90	8	.3	0	0	0	0	0	0	8	.3	
100	18	.6	1	0	0	0	0	0	19	.6	
110	17	.6	0	0	0	0	0	0	17	.6	
120	24	.8	0	0	0	0	0	0	24	.8	
130	45	1.5	0	0	0	0	0	0	45	1.5	
140	26	.8	1	0	0	0	0	0	27	.9	
150	36	1.2	1	0	0	0	0	0	37	1.2	
160	59	1.9	1	0	0	0	0	0	60	1.9	
170	38	1.2	1	0	0	0	0	0	39	1.3	
180	32	1.0	0	0	0	0	0	0	32	1.0	
190	36	1.2	0	0	0	0	0	0	36	1.2	
200	13	.4	0	0	0	0	0	0	13	.4	
210	17	.6	0	0	0	0	0	0	17	.6	
220	79	2.6	2	1	0	0	0	0	81	2.6	
230	27	.9	2	1	0	0	0	0	29	.9	
240	34	1.1	1	0	0	0	0	0	35	1.1	
250	66	2.1	18	0	0	0	0	0	84	2.7	
260	22	.7	3	1	0	0	0	0	26	.8	
270	39	1.3	1	0	0	0	0	0	40	1.3	
280	64	2.1	1	0	0	0	0	0	65	2.1	
290	34	1.1	2	1	0	0	0	0	36	1.2	
300	46	1.5	5	2	0	0	0	0	51	1.7	
310	33	1.1	0	0	0	0	0	0	33	1.1	
320	10	.3	0	0	0	0	0	0	10	.3	
330	20	.6	1	0	0	0	0	0	21	.7	
340	17	.6	0	0	1	0	0	0	18	.6	
350	11	.4	0	0	0	0	0	0	11	.4	
360	12	.4	0	0	0	0	0	0	12	.4	
	963	31.2	58	1.9	2	1	0	0	1023	33.1	
MEAN WIND SPEED 0											

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION 100FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT		
10	23	.7	9	.3	3	.1	1	.0	0	0.0	36	1.2
20	6	.2	1	.0	3	.1	2	.1	4	.1	16	.5
30	14	.5	4	.1	4	.1	0	0.0	1	.0	23	.7
40	26	.8	1	.0	3	.1	1	.0	0	0.0	31	1.0
50	8	.3	0	0.0	1	.0	0	0.0	0	0.0	9	.3
60	7	.2	1	.0	1	.0	1	.0	0	0.0	10	.3
70	19	.6	9	.3	11	.4	2	.1	3	.0	42	1.4
80	14	.5	1	.0	13	.4	4	.1	1	.0	33	1.1
90	15	.5	3	.1	14	.5	3	.1	0	0.0	35	1.1
100	44	1.4	7	.2	4	.1	0	0.0	0	0.0	55	1.9
110	31	1.0	22	.7	2	.1	1	.0	0	0.0	56	1.8
120	60	1.9	38	1.2	10	.3	1	.0	0	0.0	109	3.5
130	89	2.9	59	1.9	27	.7	3	.1	0	0.0	174	5.6
140	43	1.4	8	.3	2	.1	0	0.0	0	0.0	53	1.7
150	50	1.6	13	.4	14	.5	0	0.0	0	0.0	77	2.5
160	88	2.9	18	.6	5	.2	0	0.0	0	0.0	111	3.6
170	90	2.9	10	.3	4	.1	0	0.0	0	0.0	104	3.4
180	43	1.4	3	.1	1	.0	0	0.0	0	0.0	47	1.5
190	40	1.3	0	0.0	0	0.0	0	0.0	0	0.0	40	1.3
200	14	.5	0	0.0	0	0.0	0	0.0	3	0.0	14	.5
210	19	.6	0	0.0	0	0.0	0	0.0	0	0.0	19	.6
220	90	2.9	5	.2	1	.0	0	0.0	0	0.0	96	3.1
230	41	1.3	11	.4	0	0.0	0	0.0	0	0.0	52	1.7
240	51	1.7	70	2.3	2	.1	0	0.0	0	0.0	123	4.0
250	86	2.8	88	2.9	20	.6	0	0.0	0	0.0	194	6.3
260	41	1.3	50	1.6	24	.8	1	.0	0	0.0	116	3.8
270	51	1.7	22	.7	19	.6	4	.1	0	0.0	96	3.1
280	90	2.9	42	1.4	62	2.0	12	.4	1	.0	207	6.7
290	77	2.5	31	1.0	66	2.1	34	1.1	1	.0	209	6.8
300	79	2.6	59	1.9	53	1.7	23	.7	2	.1	216	7.0
310	64	2.1	50	1.6	69	2.2	27	.9	2	.1	212	6.9
320	19	.6	33	1.1	27	.9	26	.8	2	.1	107	3.5
330	33	1.1	55	1.8	54	1.7	30	1.0	2	.1	174	5.6
340	33	1.1	20	.6	34	1.1	7	.2	0	0.0	94	3.0
350	23	.7	15	.5	15	.5	3	.1	0	0.0	56	1.8
360	20	.6	11	.4	9	.3	1	.0	0	0.0	41	1.3
	1541	49.9	769	24.9	573	18.6	187	5.1	17	.6	3087	100.0
	MISSING HOURS 1329											

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS			LOCATION WILL			TURBULENCE CLASS					
DIRECTION	SPEEDS (11/HR)		SPEEDS (11/HR)		SPEEDS (11/HR)		SPEEDS (11/HR)		SPEEDS (11/HR)		SUM PERCENT
	0-3	4-7	8-12	13-18	19 PLUS	0-3	4-7	8-12	13-18	19 PLUS	
SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	
10	1	0	0	0	0	0	0	0	0	0	2
20	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0
40	1	0	0	0	0	0	0	0	0	0	1
50	0	0	0	0	0	0	0	0	0	0	0
60	1	0	0	0	0	0	0	0	0	0	3
70	0	0	0	0	0	0	0	0	0	0	1
80	1	0	0	0	0	0	0	0	0	0	1
90	1	0	0	0	0	0	0	0	0	0	1
100	3	0	0	0	0	0	0	0	0	0	3
110	1	0	0	0	0	0	0	0	0	0	2
120	0	0	0	0	0	0	0	0	0	0	1
130	0	0	0	0	0	0	0	0	0	0	1
140	0	0	0	0	0	0	0	0	0	0	2
150	0	0	0	0	0	0	0	0	0	0	1
160	0	0	0	0	0	0	0	0	0	0	0
170	1	0	0	0	0	0	0	0	0	0	1
180	0	0	0	0	0	0	0	0	0	0	2
190	1	0	0	0	0	0	0	0	0	0	1
200	0	0	0	0	0	0	0	0	0	0	0
210	1	0	0	0	0	0	0	0	0	0	1
220	0	0	0	0	0	0	0	0	0	0	0
230	1	0	0	0	0	0	0	0	0	0	1
240	0	0	0	0	0	0	0	0	0	0	2
250	0	0	0	0	0	0	0	0	0	0	0
260	1	0	0	0	0	0	0	0	0	0	1
270	0	0	0	0	0	0	0	0	0	0	0
280	1	0	0	0	0	0	0	0	0	0	1
290	0	0	0	0	0	0	0	0	0	0	1
300	0	0	0	0	0	0	0	0	0	0	1
310	0	0	0	0	0	0	0	0	0	0	0
320	0	0	0	0	0	0	0	0	0	0	0
330	0	0	0	0	0	0	0	0	0	0	0
340	0	0	0	0	0	0	0	0	0	0	0
350	0	0	0	0	0	0	0	0	0	0	0
360	2	0	0	0	0	0	0	0	0	0	2
17	5	10	6	2	2	1	0	0	0	0	35
MEAN WIND SPEED	4										1.3

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS			LOCATION WILL			TURBULENCE CLASS					
DIRECTION	SPEEDS (11/HR)		SPEEDS (11/HR)		SPEEDS (11/HR)		SPEEDS (11/HR)		SPEEDS (11/HR)		SUM PERCENT
	0-3	4-7	8-12	13-18	19 PLUS	0-3	4-7	8-12	13-18	19 PLUS	
SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	
10	6	3	0	0	0	9	0	0	0	0	9
20	6	3	0	0	0	14	0	0	0	0	14
30	8	1	0	0	0	16	0	0	0	0	16
40	7	10	9	0	0	26	0	0	0	0	26
50	14	17	8	2	0	41	0	0	0	0	41
60	17	6	10	1	0	34	0	0	0	0	34
70	10	6	4	1	0	21	0	0	0	0	21
80	11	15	10	2	0	38	0	0	0	0	38
90	29	19	7	0	0	55	0	0	0	0	55
100	23	21	9	1	0	47	0	0	0	0	47
110	45	28	7	0	0	80	0	0	0	0	80
120	24	21	10	1	0	56	0	0	0	0	56
130	17	16	14	2	0	49	0	0	0	0	49
140	22	30	19	3	0	74	0	0	0	0	74
150	15	18	22	3	0	58	0	0	0	0	58
160	7	24	7	1	0	39	0	0	0	0	39
170	21	18	2	1	0	42	0	0	0	0	42
180	24	11	1	0	0	36	0	0	0	0	36
190	18	18	2	1	0	39	0	0	0	0	39
200	18	19	5	3	0	45	0	0	0	0	45
210	24	29	16	4	1	74	0	0	0	0	74
220	10	22	11	8	0	51	0	0	0	0	51
230	17	12	21	10	2	62	0	0	0	0	62
240	8	24	10	9	0	51	0	0	0	0	51
250	9	12	10	1	0	32	0	0	0	0	32
260	5	12	5	0	0	22	0	0	0	0	22
270	16	14	17	1	0	48	0	0	0	0	48
280	28	17	8	7	0	60	0	0	0	0	60
290	20	26	23	10	0	79	0	0	0	0	79
300	16	24	11	2	0	53	0	0	0	0	53
310	5	7	2	0	0	19	0	0	0	0	19
320	11	9	2	0	0	22	0	0	0	0	22
330	6	4	0	0	0	10	0	0	0	0	10
340	7	5	2	0	0	14	0	0	0	0	14
350	8	5	2	0	0	16	0	0	0	0	16
360	1	2	0	0	0	3	0	0	0	0	3
533	20.0	532	10.9	74	2.8	4	1				1435
MEAN WIND SPEED	5										53.7

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION HILL				TURBULENCE CLASS				3	
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
10	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
20	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1	
30	1	.0	3	.1	0	0.0	0	0.0	0	0.0	4	.1	
40	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1	
50	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1	
60	2	.1	0	0.0	3	.1	0	0.0	0	0.0	5	.2	
70	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	
80	1	.0	3	.0	0	0.0	0	0.0	0	0.0	1	.0	
90	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1	
100	1	.0	0	0.0	2	.1	0	0.0	0	0.0	3	.1	
110	0	0.0	0	0.0	0	0.0	3	.0	0	0.0	0	0.0	
120	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
130	1	.0	1	.0	2	.1	0	0.0	0	0.0	4	.1	
140	1	.0	0	0.0	0	0.0	1	.0	0	0.0	2	.1	
150	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
170	0	0.0	1	.0	0	0.0	2	.0	0	0.0	1	.0	
180	0	0.0	1	.0	0	0.0	3	.0	0	0.0	1	.0	
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
200	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
230	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1	
240	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.1	
250	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
260	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1	
270	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	
280	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1	
290	2	.1	0	0.0	1	.0	0	0.0	0	0.0	3	.1	
300	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
310	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1	
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
330	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
350	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1	
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
	25	.9	15	.6	11	.4	1	.0	0	0.0	52	1.9	

MEAN WIND SPEED 4

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS				LOCATION HILL TURBULENCE CLASS				4				
				SPEDS (MI/1 H)								
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	4	.1	4	.1	0	0.0	0	0.0	8	.3
20	0	0.0	1	.0	4	.1	0	0.0	0	0.0	5	.2
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3	.1
60	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
90	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
100	5	.2	4	.1	5	.2	2	.1	0	0.0	16	.6
110	2	.1	4	.1	6	.2	0	0.0	0	0.0	12	.4
120	0	0.0	2	.1	4	.1	2	.1	0	0.0	8	.3
130	0	0.0	1	.0	2	.1	1	.0	0	0.0	4	.1
140	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3	.1
150	1	.0	4	.1	5	.2	3	.1	1	.0	14	.5
160	0	0.0	4	.1	4	.1	3	.1	0	0.0	11	.4
170	1	.0	6	.2	3	.1	1	.0	0	0.0	11	.4
180	1	.0	7	.3	5	.2	0	0.0	0	0.0	13	.5
190	0	0.0	5	.2	6	.2	0	0.0	0	0.0	11	.4
200	0	0.0	3	.1	3	.1	4	.1	0	0.0	10	.4
210	1	.0	4	.1	4	.1	5	.2	0	0.0	14	.5
220	0	0.0	0	0.0	4	.1	5	.2	2	.1	11	.4
230	1	.0	1	.0	3	.1	5	.2	2	.1	12	.4
240	0	0.0	5	.2	8	.3	15	.6	0	0.0	28	1.0
250	0	0.0	6	.2	6	.2	5	.2	0	0.0	17	.6
260	0	0.0	6	.2	5	.2	0	0.0	0	0.0	11	.4
270	2	.1	1	.0	1	.0	1	.0	0	0.0	5	.2
280	7	.3	4	.1	3	.1	0	0.0	1	.0	15	.6
290	0	0.0	6	.2	3	.1	0	0.0	3	.1	12	.4
300	0	0.0	3	.1	3	.1	1	.0	0	0.0	7	.3
310	0	0.0	0	0.0	1	.0	2	.1	0	0.0	3	.1
320	0	0.0	0	0.0	1	.0	2	.1	0	0.0	3	.1
330	0	0.0	1	.0	2	.1	2	.1	0	0.0	5	.2
340	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
350	0	0.0	3	.1	8	.3	0	0.0	0	0.0	11	.4
360	0	0.0	3	.1	1	.0	0	0.0	0	0.0	4	.1
21			94	3.5	111	4.2	59	2.2	9	.3	294	11.0

MEAN WIND SPEED 9

PBAPS

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS LOCATION WILL TUNNANCE CLASS

5

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	8	.1	0	0.0	0	0.0	0	0.0	0	0.0	8	.3
20	13	.5	4	.1	2	.1	0	0.0	0	0.0	19	.7
30	19	.7	5	.2	3	.1	0	0.0	0	0.0	27	1.0
40	17	.6	3	.1	5	.2	0	0.0	0	0.0	25	.9
50	23	.9	0	0.0	0	0.0	0	0.0	0	0.0	23	.9
60	25	.9	1	.0	0	0.0	0	0.0	0	0.0	26	1.0
70	14	.5	0	0.0	0	0.0	0	0.0	0	0.0	14	.5
80	40	1.5	0	0.0	0	0.0	0	0.0	0	0.0	40	1.5
90	26	1.1	0	0.0	0	0.0	0	0.0	0	0.0	26	1.0
100	33	1.2	6	.2	0	0.0	0	0.0	0	0.0	39	1.5
110	48	1.8	9	.3	0	0.0	0	0.0	0	0.0	57	2.1
120	35	1.3	1	.0	0	0.0	0	0.0	0	0.0	36	1.3
130	20	.7	2	.1	0	0.0	0	0.0	0	0.0	22	.8
140	38	1.4	3	.1	0	0.0	0	0.0	0	0.0	41	1.5
150	21	.8	4	.1	3	.1	0	0.0	0	0.0	28	1.0
160	19	.7	3	.1	2	.1	0	0.0	0	0.0	24	.9
170	43	1.6	5	.2	1	.0	0	0.0	0	0.0	48	1.8
180	21	.8	3	.1	0	0.0	0	0.0	0	0.0	24	.9
190	20	.7	2	.1	0	0.0	0	0.0	0	0.0	22	.8
200	26	1.1	7	.3	0	0.0	0	0.0	0	0.0	33	1.2
210	27	1.1	4	.1	0	0.0	0	0.0	0	0.0	31	1.2
220	12	.4	1	.0	0	0.0	0	0.0	0	0.0	13	.5
230	18	.7	1	.0	1	.0	0	0.0	0	0.0	20	.7
240	15	.6	5	.2	0	0.0	0	0.0	0	0.0	20	.7
250	9	.3	0	0.0	0	0.0	0	0.0	0	0.0	9	.3
260	28	1.0	0	0.0	0	0.0	0	0.0	0	0.0	28	1.0
270	18	.7	0	0.0	0	0.0	0	0.0	0	0.0	18	.7
280	22	.8	0	0.0	0	0.0	0	0.0	0	0.0	22	.8
290	26	1.1	0	0.0	0	0.0	0	0.0	0	0.0	26	1.0
300	16	.6	1	.0	0	0.0	0	0.0	0	0.0	17	.6
310	5	.2	1	.0	0	0.0	0	0.0	0	0.0	6	.2
320	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6	.2
330	14	.5	0	0.0	0	0.0	0	0.0	0	0.0	14	.5
340	8	.3	1	.0	0	0.0	0	0.0	0	0.0	9	.3
350	17	.6	0	0.0	0	0.0	0	0.0	0	0.0	17	.6
360	17	.6	0	0.0	0	0.0	0	0.0	0	0.0	17	.6
	767	28.7	72	2.7	16	.6	0	0.0	0	0.0	855	32.0

MEAN WIND SPEED 1

WIND ROSE FOR STATION 11 OCT-DEC, 2YRS LOCATION WILL ALL CLASSES

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	15	.6	8	.3	5	.2	0	0.0	0	0.0	28	1.0
20	19	.7	13	.5	8	.3	0	0.0	0	0.0	40	1.5
30	28	1.1	10	.4	11	.4	0	0.0	0	0.0	49	1.8
40	25	.9	15	.6	14	.5	0	0.0	0	0.0	54	2.0
50	38	1.4	18	.7	11	.4	2	.1	0	0.0	69	2.6
60	45	1.7	9	.3	14	.5	1	.0	0	0.0	69	2.6
70	24	.9	7	.3	4	.1	1	.0	0	0.0	36	1.3
80	53	2.1	17	.6	10	.4	2	.1	0	0.0	82	3.1
90	58	2.2	20	.7	8	.3	0	0.0	0	0.0	86	3.2
100	65	2.4	31	1.2	9	.3	3	.1	0	0.0	108	4.0
110	96	3.5	42	1.6	13	.5	0	0.0	0	0.0	151	5.7
120	59	2.2	25	.9	15	.6	3	.1	0	0.0	102	3.8
130	38	1.4	20	.7	18	.7	4	.1	0	0.0	80	3.0
140	61	2.3	34	1.3	22	.8	5	.2	0	0.0	122	4.6
150	37	1.4	26	1.0	31	1.2	6	.2	1	.0	101	3.8
160	26	1.0	31	1.2	13	.5	4	.1	0	0.0	74	2.8
170	66	2.5	30	1.1	5	.2	2	.1	0	0.0	103	3.9
180	46	1.7	23	.9	7	.3	0	0.0	0	0.0	76	2.8
190	39	1.5	25	.9	8	.3	1	.0	0	0.0	73	2.7
200	44	1.6	30	1.1	8	.3	7	.3	0	0.0	89	3.3
210	53	2.0	37	1.4	20	.7	9	.3	1	.0	120	4.5
220	22	.8	23	.9	15	.6	13	.5	2	.1	75	2.8
230	39	1.5	14	.5	25	.9	19	.6	4	.1	97	3.6
240	25	.9	38	1.4	18	.7	24	.9	0	0.0	105	3.9
250	19	.7	18	.7	16	.6	6	.2	0	0.0	59	2.2
260	36	1.3	18	.7	10	.4	0	0.0	0	0.0	64	2.4
270	36	1.3	15	.6	18	.7	2	.1	0	0.0	71	2.7
280	59	2.2	21	.8	12	.4	7	.3	1	.0	100	3.7
290	48	1.8	33	1.2	27	1.0	10	.4	3	.1	121	4.5
300	33	1.2	29	1.1	14	.5	3	.1	0	0.0	79	3.0
310	12	.4	8	.3	8	.3	2	.1	0	0.0	30	1.1
320	17	.6	9	.3	3	.1	2	.1	0	0.0	31	1.2
330	21	.8	5	.2	2	.1	2	.1	0	0.0	30	1.1
340	15	.6	8	.3	2	.1	0	0.0	0	0.0	25	.9
350	26	1.0	8	.3	11	.4	0	0.0	1	.0	46	1.7
360	20	.7	5	.2	1	.0	0	0.0	0	0.0	26	1.0
	1363	51.0	723	27.1	436	16.3	136	5.1	13	.5	2671	100.0

MISSING HOURS 1743

MEAN WIND SPEED 4

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS			LOCATION 795T			TURBULENCE CLASS			1			
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
110	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
120	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
140	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
150	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
290	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
300	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
310	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
320	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	20	.7	6	.2	0	0.0	0	0.0	0	0.0	26	.9

MEAN WIND SPEED 2

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS			LOCATION 75FT		TURBULENCE CLASS		2					
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	14	.5	5	.2	7	.2	0	0.0	0	0.0	26	.9
20	8	.3	7	.2	4	.1	0	0.0	0	0.0	19	.6
30	10	.3	13	.4	1	.0	0	0.0	0	0.0	24	.8
40	7	.2	1	.0	1	.0	0	0.0	0	0.0	9	.3
50	8	.3	1	.0	0	0.0	0	0.0	0	0.0	9	.3
60	13	.4	3	.1	0	0.0	0	0.0	0	0.0	16	.5
70	32	1.1	18	.6	0	0.0	0	0.0	0	0.0	50	1.7
80	17	.6	13	.4	0	0.0	0	0.0	0	0.0	30	1.0
90	29	1.0	7	.2	0	0.0	0	0.0	0	0.0	35	1.2
100	27	.9	7	.2	0	0.0	0	0.0	0	0.0	34	1.1
110	26	.9	12	.4	0	0.0	0	0.0	0	0.0	38	1.3
120	35	1.2	27	.9	3	.1	0	0.0	0	0.0	65	2.2
130	19	.6	23	.8	7	.2	0	0.0	0	0.0	53	1.8
140	9	.3	23	.8	8	.3	0	0.0	0	0.0	40	1.3
150	14	.5	35	1.2	7	.2	1	.0	1	.0	54	1.8
160	12	.4	18	.6	13	.4	1	.0	0	0.0	44	1.5
170	7	.2	11	.4	5	.2	4	.1	0	0.0	27	.9
180	10	.3	16	.4	5	.2	4	.1	0	0.0	35	1.2
190	11	.3	12	.4	10	.3	1	.0	0	0.0	34	1.1
200	3	.1	8	.3	3	.1	1	.0	0	0.0	15	.5
210	1	.0	5	.2	5	.2	0	0.0	0	0.0	11	.4
220	3	.1	5	.2	3	.1	0	0.0	0	0.0	11	.4
230	6	.2	1	.0	4	.1	1	.0	0	0.0	12	.4
240	10	.3	3	.1	9	.3	4	.1	0	0.0	26	.9
250	4	.1	9	.3	14	.5	5	.2	0	0.0	32	1.1
260	2	.1	4	.1	9	.3	5	.2	0	0.0	20	.7
270	4	.1	11	.4	12	.4	8	.3	0	0.0	35	1.2
280	9	.3	16	.4	31	1.0	16	.5	0	0.0	72	2.4
290	5	.2	13	.4	29	1.0	23	.8	2	.1	72	2.4
300	13	.4	18	.6	33	1.1	16	.5	1	.0	81	2.7
310	8	.3	23	.8	34	1.1	12	.4	0	0.0	77	2.6
320	12	.4	20	.7	21	.7	6	.2	0	0.0	59	2.0
330	7	.2	20	.7	25	.8	13	.4	4	.1	69	2.3
340	8	.3	34	1.1	26	.9	2	.1	2	.1	72	2.4
350	7	.2	10	.3	6	.2	0	0.0	0	0.0	23	.8
360	10	.3	15	.5	4	.1	0	0.0	0	0.0	29	1.0
	420	14.1	470	15.8	335	11.2	123	4.1	10	.3	1358	45.6

MEAN WIND SPEED 6

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION 75FT TURBULENCE CLASS

3

DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12		SUM	PERCENT	SUM	PERCENT		
10	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3	.1
20	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
30	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	4	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.1
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
130	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
140	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
240	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
290	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
300	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
310	3	.1	1	.0	0	0.0	0	0.0	0	0.0	4	.1
320	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3	.1
330	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
340	2	.1	1	.0	0	0.0	0	0.0	0	0.0	3	.1
350	3	.1	2	.1	0	0.0	0	0.0	0	0.0	5	.2
360	2	.1	3	.1	0	0.0	0	0.0	0	0.0	5	.2
	26	.9	23	.8	2	.1	0	0.0	0	0.0	51	1.7

MEAN WIND SPEED 3

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION 75FT TURBULENCE CLASS

4

DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12		SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	1	.0	0	0.0	3	.1	0	0.0	0	0.0	4	.1
40	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.1
50	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
60	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
70	2	.1	9	.3	1	.0	0	0.0	0	0.0	12	.4
80	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
90	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
100	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
130	1	.0	3	.1	2	.1	0	0.0	0	0.0	6	.2
140	2	.1	9	.3	1	.0	0	0.0	0	0.0	12	.4
150	3	.1	5	.2	7	.2	4	.1	0	0.0	19	.6
160	4	.1	6	.2	2	.1	1	.0	0	0.0	13	.4
170	1	.0	2	.1	5	.2	1	.0	0	0.0	9	.3
180	1	.0	4	.1	7	.2	8	.3	2	.1	22	.7
190	0	0.0	3	.1	2	.1	3	.1	1	.0	9	.3
200	0	0.0	1	.0	5	.2	0	0.0	0	0.0	6	.2
210	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
220	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
230	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
240	0	0.0	0	0.0	3	.1	1	.0	0	0.0	4	.1
250	0	0.0	5	.2	3	.1	2	.1	0	0.0	10	.3
260	0	0.0	0	0.0	3	.1	3	.1	1	.0	7	.2
270	1	.0	4	.1	9	.3	7	.2	1	.0	22	.7
280	0	0.0	6	.2	7	.2	8	.3	0	0.0	21	.7
290	1	.0	5	.2	19	.6	11	.4	0	0.0	36	1.2
300	0	0.0	10	.3	18	.6	20	.7	0	0.0	48	1.6
310	0	0.0	4	.1	16	.5	5	.2	0	0.0	25	.8
320	0	0.0	4	.1	10	.3	6	.2	0	0.0	20	.7
330	0	0.0	6	.2	13	.4	13	.4	4	.1	36	1.2
340	0	0.0	4	.1	7	.2	3	.1	0	0.0	14	.5
350	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.1
360	0	0.0	0	0.0	3	.1	1	.0	0	0.0	4	.1
	24	.8	99	3.3	150	5.0	97	3.3	9	.3	379	12.7

MEAN WIND SPEED 9

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS				LOCATION 75FT		TURBULENCE CLASS		5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	0-12	SUM	PERCENT	SUM	PERCENT			
10	19	.6	1	.0	0	0.0	0	0.0	0	0.0	20	.7
20	15	.5	1	.0	0	0.0	0	0.0	0	0.0	16	.5
30	13	.4	0	0.0	0	0.0	0	0.0	0	0.0	13	.4
40	7	.2	0	0.0	0	0.0	0	0.0	0	0.0	7	.2
50	6	.2	0	0.0	0	0.0	0	0.0	0	0.0	6	.2
60	14	.5	0	0.0	0	0.0	0	0.0	0	0.0	14	.5
70	20	.7	1	.0	0	0.0	0	0.0	0	0.0	21	.7
80	13	.4	0	0.0	0	0.0	0	0.0	0	0.0	13	.4
90	17	.6	1	.0	0	0.0	0	0.0	0	0.0	18	.6
100	40	1.3	1	.0	0	0.0	0	0.0	0	0.0	41	1.4
110	26	.9	6	.2	0	0.0	0	0.0	0	0.0	32	1.1
120	32	1.1	12	.4	0	0.0	0	0.0	0	0.0	44	1.5
130	28	.9	17	.6	0	0.0	0	0.0	0	0.0	45	1.5
140	17	.6	10	.3	1	.0	0	0.0	0	0.0	28	.9
150	21	.7	28	.9	1	.0	0	0.0	0	0.0	50	1.7
160	15	.5	15	.5	1	.0	0	0.0	0	0.0	31	1.0
170	5	.2	5	.2	2	.1	0	0.0	0	0.0	12	.4
180	10	.3	6	.2	2	.1	1	.0	0	0.0	19	.6
190	17	.6	7	.2	2	.1	0	0.0	0	0.0	26	.9
200	3	.1	10	.3	0	0.0	0	0.0	0	0.0	13	.4
210	4	.1	3	.1	1	.0	0	0.0	0	0.0	8	.3
220	12	.4	3	.1	1	.0	0	0.0	0	0.0	16	.5
230	7	.2	6	.2	3	.1	0	0.0	0	0.0	16	.5
240	7	.2	10	.3	11	.4	0	0.0	0	0.0	28	.9
250	15	.5	8	.3	12	.4	0	0.0	0	0.0	35	1.2
260	9	.3	11	.4	13	.4	0	0.0	0	0.0	33	1.1
270	21	.7	26	.9	26	.9	0	0.0	0	0.0	73	2.5
280	35	1.2	38	1.3	30	1.0	0	0.0	0	0.0	103	3.5
290	18	.6	36	1.2	12	.4	0	0.0	0	0.0	66	2.2
300	30	1.0	42	1.4	12	.4	0	0.0	0	0.0	84	2.8
310	45	1.5	14	.5	11	.4	0	0.0	0	0.0	70	2.4
320	14	.5	14	.5	0	0.0	0	0.0	0	0.0	28	.9
330	27	.9	12	.4	12	.4	0	0.0	0	0.0	51	1.7
340	27	.9	17	.6	3	.1	0	0.0	0	0.0	47	1.6
350	17	.6	7	.2	2	.1	0	0.0	0	0.0	26	.9
360	10	.3	0	0.0	1	.0	0	0.0	0	0.0	11	.4
	636	21.4	368	12.4	159	5.3	1	.0	0	0.0	1164	39.1
MEAN WIND SPEED 3												

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS				LOCATION 75FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		19 PLUS	SUM	PERCENT			
	SUM	PERCENT	SUM	PERCENT	8-12	13-18						
					SUM	PERCENT	SUM	PERCENT				
10	37	1.2	8	.3	8	.3	0	0.0	53	1.8		
20	24	.8	8	.3	4	.1	0	0.0	36	1.2		
30	25	.8	13	.4	4	.1	0	0.0	42	1.4		
40	18	.6	1	.0	2	.1	0	0.0	21	.7		
50	14	.5	2	.1	1	.0	0	0.0	17	.6		
60	27	.9	3	.1	1	.0	0	0.0	31	1.0		
70	56	1.9	28	.9	1	.0	0	0.0	85	2.9		
80	32	1.1	14	.5	0	0.0	0	0.0	46	1.5		
90	51	1.7	8	.3	0	0.0	0	0.0	59	2.0		
100	71	2.4	8	.3	0	0.0	0	0.0	79	2.7		
110	53	1.8	19	.6	0	0.0	0	0.0	72	2.4		
120	70	2.4	41	1.4	3	.1	0	0.0	114	3.8		
130	49	1.6	49	1.6	9	.3	0	0.0	107	3.6		
140	30	1.0	44	1.5	10	.3	0	0.0	84	2.8		
150	40	1.3	69	2.3	11	.4	5	.2	126	4.2		
160	31	1.0	39	1.3	16	.5	2	.1	88	3.0		
170	13	.4	18	.6	12	.4	5	.2	48	1.6		
180	21	.7	26	.9	14	.5	13	.4	76	2.6		
190	29	1.0	22	.7	14	.5	4	.1	70	2.4		
200	6	.2	19	.6	8	.3	1	.0	34	1.1		
210	5	.2	9	.3	6	.2	0	0.0	20	.7		
220	18	.6	10	.3	4	.1	0	0.0	32	1.1		
230	13	.4	10	.3	7	.2	1	.0	31	1.0		
240	17	.6	14	.5	23	.8	5	.2	59	2.0		
250	19	.6	22	.7	29	1.0	7	.2	77	2.6		
260	11	.4	15	.5	25	.8	8	.3	60	2.0		
270	26	.9	41	1.4	47	1.6	15	.5	130	4.4		
280	46	1.5	61	2.0	68	2.3	24	.8	199	6.7		
290	25	.8	55	1.8	60	2.0	34	1.1	176	5.9		
300	44	1.5	71	2.4	63	2.1	36	1.2	215	7.2		
310	57	1.9	43	1.4	61	2.0	17	.6	178	6.0		
320	27	.9	40	1.3	32	1.1	12	.4	111	3.7		
330	34	1.1	40	1.3	50	1.7	26	.9	158	5.3		
340	37	1.2	58	1.9	36	1.2	5	.2	138	4.6		
350	28	.9	20	.7	9	.3	0	0.0	57	1.9		
360	22	.7	15	.5	8	.3	1	.0	49	1.6		
	1126	37.8	966	32.4	646	21.7	221	7.4	19	.6	2978	100.0
MISSING HOURS 1438												
MEAN WIND SPEED 5												
2 744												

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS				LOCATION 320FT TURBULENCE CLASS				1				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
40	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	1	.0	2	.1	0	0.0	0	0.0	0	0.0	3	.1
160	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.1
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
190	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
280	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
310	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
320	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.1
330	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
360	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
	23	.6	7	.2	1	.0	0	0.0	0	0.0	31	.8
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS				LOCATION 320FT TURBULENCE CLASS				2				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT		
10	4	.1	9	.2	6	.2	2	.1	1	.0	22	.6
20	4	.1	13	.3	3	.1	6	.2	0	0.0	26	.7
30	1	.0	12	.3	5	.1	1	.0	0	0.0	19	.5
40	2	.1	12	.3	5	.1	0	0.0	0	0.0	19	.5
50	4	.1	11	.3	3	.1	2	.1	1	.0	21	.5
60	2	.1	10	.3	9	.2	0	0.0	0	0.0	21	.5
70	1	.0	7	.2	20	.5	12	.3	0	0.0	40	1.0
80	2	.1	13	.3	17	.4	11	.3	0	0.0	43	1.1
90	1	.0	12	.3	11	.3	4	.1	0	0.0	28	.7
100	5	.1	19	.5	7	.2	0	0.0	0	0.0	31	.8
110	4	.1	13	.3	27	.7	3	.1	0	0.0	47	1.2
120	8	.2	15	.4	25	.7	7	.2	0	0.0	55	1.4
130	5	.1	16	.4	27	.7	7	.2	0	0.0	55	1.4
140	4	.1	28	.7	13	.3	9	.2	1	.0	55	1.4
150	5	.1	28	.7	37	1.0	2	.1	0	0.0	72	1.9
160	1	.0	15	.4	22	.6	2	.1	0	0.0	40	1.0
170	6	.2	8	.2	11	.3	10	.3	2	.1	37	1.0
180	6	.2	7	.2	25	.7	16	.4	1	.0	55	1.4
190	3	.1	5	.1	22	.6	15	.4	0	0.0	45	1.2
200	2	.1	4	.1	20	.5	8	.2	1	.0	35	.9
210	4	.1	10	.3	11	.3	12	.3	1	.0	38	1.0
220	1	.0	2	.1	3	.1	6	.2	0	0.0	12	.3
230	3	.1	3	.1	4	.1	6	.2	9	.2	25	.7
240	0	0.0	8	.2	8	.2	10	.3	5	.1	31	.8
250	2	.1	5	.1	8	.2	14	.4	2	.1	31	.8
260	0	0.0	2	.1	9	.2	14	.4	6	.2	31	.8
270	1	.0	3	.1	6	.2	11	.3	8	.2	29	.8
280	1	.0	5	.1	12	.3	21	.5	29	.8	68	1.8
290	1	.0	2	.1	17	.4	42	1.1	41	1.1	103	2.7
300	4	.1	4	.1	22	.6	38	1.0	48	1.3	116	3.0
310	1	.0	9	.2	13	.3	58	1.5	56	1.5	137	3.6
320	1	.0	7	.2	26	.7	40	1.0	41	1.1	115	3.0
330	2	.1	5	.1	36	.9	39	1.0	36	.9	118	3.1
340	1	.0	7	.2	29	.8	20	.5	14	.4	71	1.9
350	1	.0	17	.4	25	.7	17	.4	4	.1	64	1.7
360	1	.0	9	.2	10	.3	11	.3	1	.0	32	.8
	94	2.5	355	9.3	554	14.5	476	12.5	308	8.1	1787	46.8
MEAN WIND SPEED 12												

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION 320FT TURBULENCE CLASS

3

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	20-24	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
80	1	.1	1	.1	0	0.0	0	0.0	0	0.0	2	.1
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	2	.1	1	.1	0	0.0	0	0.0	0	0.0	3	.1
130	2	.1	1	.1	0	0.0	0	0.0	0	0.0	3	.1
140	1	.1	1	.1	0	0.0	0	0.0	0	0.0	2	.1
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	2	.1	1	.1	0	0.0	0	0.0	0	0.0	3	.1
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
230	0	0.0	0	0.0	2	.1	0	0.0	0	0.0	2	.1
240	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	1	.1
250	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2	.1
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	2	.1	3	.1	3	.1	0	0.0	0	0.0	7	.2
310	3	.1	1	.1	0	0.0	0	0.0	0	0.0	7	.2
320	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	2	.1
330	1	.1	4	.1	0	0.0	0	0.0	0	0.0	4	.1
340	1	.1	7	.2	2	.1	0	0.0	0	0.0	10	.3
350	0	0.0	1	.1	1	.1	0	0.0	0	0.0	2	.1
360	2	.1	1	.1	2	.1	0	0.0	0	0.0	5	.1
	21	.5	28	.7	12	.3	0	0.0	0	0.0	61	1.6

MEAN WIND SPEED 4

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION 320FT TURBULENCE CLASS

4

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	20-24	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	1	.1	1	.1	2	.1
40	0	0.0	0	0.0	0	0.0	1	.1	2	.1	3	.1
50	0	0.0	0	0.0	0	0.0	1	.1	0	0.0	1	.1
60	0	0.0	0	0.0	0	0.0	2	.1	0	0.0	2	.1
70	0	0.0	0	0.0	0	0.0	6	.2	0	0.0	6	.2
80	0	0.0	0	0.0	1	.1	3	.1	0	0.0	4	.1
90	0	0.0	0	0.0	0	0.0	2	.1	0	0.0	2	.1
100	0	0.0	0	0.0	2	.1	1	.1	0	0.0	3	.1
110	0	0.0	0	0.0	1	.1	5	.1	0	0.0	6	.2
120	0	0.0	0	0.0	0	0.0	6	.2	0	0.0	6	.2
130	0	0.0	0	0.0	1	.1	2	.1	0	0.0	3	.1
140	0	0.0	0	0.0	6	.2	6	.2	4	.1	16	.4
150	0	0.0	1	.1	2	.1	5	.1	6	.2	14	.4
160	0	0.0	0	0.0	5	.1	4	.1	0	0.0	9	.2
170	0	0.0	0	0.0	1	.1	6	.2	4	.1	11	.3
180	0	0.0	0	0.0	1	.1	7	.2	6	.2	14	.4
190	0	0.0	0	0.0	2	.1	7	.2	3	.1	12	.3
200	0	0.0	0	0.0	1	.1	10	.3	13	.3	24	.6
210	0	0.0	0	0.0	2	.1	1	.1	2	.1	5	.1
220	0	0.0	0	0.0	2	.1	3	.1	3	.1	8	.2
230	0	0.0	0	0.0	0	0.0	4	.1	1	.1	5	.1
240	0	0.0	0	0.0	0	0.0	2	.1	1	.1	3	.1
250	0	0.0	0	0.0	2	.1	2	.1	2	.1	6	.2
260	0	0.0	0	0.0	2	.1	4	.1	8	.2	13	.3
270	0	0.0	0	0.0	2	.1	3	.1	13	.3	15	.4
280	0	0.0	0	0.0	1	.1	8	.2	13	.3	22	.6
290	0	0.0	0	0.0	2	.1	28	.7	14	.4	44	1.2
300	0	0.0	0	0.0	1	.1	15	.4	30	.8	46	1.2
310	0	0.0	0	0.0	1	.1	34	.9	46	1.2	81	2.1
320	0	0.0	0	0.0	3	.1	10	.3	29	.8	42	1.1
330	0	0.0	1	.1	2	.1	17	.4	21	.5	41	1.1
340	0	0.0	0	0.0	0	0.0	9	.2	17	.4	26	.7
350	0	0.0	0	0.0	0	0.0	3	.1	5	.1	8	.2
360	0	0.0	0	0.0	1	.1	2	.1	1	.1	4	.1
	0	0.0	2	.1	43	1.1	220	5.8	242	6.3	507	13.3

MEAN WIND SPEED 18

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION 320FT TURBULENCE CLASS

5

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	PERCENT	SUM	PERCENT		
10	7	.2	12	.3	2	.1	0	0.0	0	0.0	21	.5
20	4	.1	7	.2	0	0.0	0	0.0	0	0.0	11	.3
30	7	.2	7	.2	3	.1	0	0.0	0	0.0	17	.4
40	2	.1	3	.1	1	.0	0	0.0	0	0.0	6	.2
50	6	.2	8	.2	3	.1	0	0.0	0	0.0	17	.4
60	8	.2	16	.4	2	.1	0	0.0	0	0.0	26	.7
70	6	.2	17	.4	8	.2	0	0.0	0	0.0	31	.8
80	10	.3	8	.2	4	.1	0	0.0	0	0.0	22	.6
90	12	.3	11	.3	4	.1	0	0.0	0	0.0	27	.7
100	10	.3	17	.4	7	.2	0	0.0	0	0.0	34	.9
110	5	.1	12	.3	9	.2	1	.0	0	0.0	27	.7
120	10	.3	29	.8	23	.6	3	.1	0	0.0	65	1.7
130	2	.1	8	.2	28	.7	5	.1	0	0.0	43	1.1
140	3	.1	19	.5	35	.9	6	.2	0	0.0	63	1.6
150	8	.2	14	.4	32	.8	5	.1	0	0.0	59	1.5
160	5	.1	14	.4	23	.6	4	.1	0	0.0	46	1.2
170	6	.2	15	.4	23	.6	5	.1	1	.0	50	1.3
180	9	.2	7	.2	12	.3	7	.2	0	0.0	35	.9
190	5	.1	9	.2	22	.6	12	.3	0	0.0	48	1.3
200	4	.1	9	.2	9	.2	4	.1	0	0.0	26	.7
210	8	.2	9	.2	6	.2	4	.1	0	0.0	27	.7
220	4	.1	6	.2	8	.2	1	.0	2	.1	21	.5
230	9	.2	6	.2	10	.3	3	.1	2	.1	30	.8
240	12	.3	7	.2	17	.4	3	.1	0	0.0	39	1.0
250	4	.1	3	.1	11	.3	4	.1	0	0.0	22	.6
260	5	.1	1	.0	11	.3	16	.4	2	.1	25	.7
270	1	.0	5	.1	16	.4	23	.6	0	0.0	49	1.3
280	7	.2	5	.1	9	.2	34	.9	3	.1	58	1.5
290	3	.1	7	.2	14	.4	47	1.2	11	.3	84	2.2
300	8	.2	12	.3	26	.7	43	1.1	5	.1	94	2.5
310	6	.2	11	.3	17	.4	28	.7	3	.1	65	1.7
320	1	.0	8	.2	27	.7	18	.5	2	.1	56	1.5
330	9	.2	11	.3	20	.5	18	.5	0	0.0	58	1.5
340	5	.1	13	.3	26	.7	4	.1	2	.1	50	1.3
350	4	.1	15	.4	18	.5	0	0.0	0	0.0	37	1.0
360	13	.3	21	.5	13	.3	0	0.0	0	0.0	47	1.2
228		6.0	382	10.0	495	13.0	298	7.8	33	.9	1436	37.6

MEAN WIND SPEED 8

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION 320FT ALL CLASSES

DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	13-18	19 PLUS	PERCENT	SUM	PERCENT		
10	11	.3	21	.5	8	.2	2	.1	1	.0	43	1.1
20	8	.2	20	.5	3	.1	6	.2	0	0.0	37	1.0
30	9	.2	20	.5	8	.2	2	.1	1	.0	40	1.0
40	6	.2	15	.4	6	.2	1	.0	2	.1	30	.8
50	10	.3	19	.5	6	.2	3	.1	1	.0	39	1.0
60	10	.3	26	.7	11	.3	2	.1	0	0.0	49	1.3
70	8	.2	24	.6	28	.7	18	.5	0	0.0	78	2.0
80	14	.4	22	.6	22	.6	14	.4	0	0.0	72	1.9
90	13	.3	23	.6	15	.4	6	.2	0	0.0	57	1.5
100	15	.4	36	.9	14	.4	1	.0	0	0.0	68	1.8
110	9	.2	25	.7	37	1.0	9	.2	0	0.0	80	2.1
120	20	.5	45	1.2	48	1.3	16	.4	0	0.0	179	3.4
130	9	.2	25	.7	56	1.5	14	.4	0	0.0	104	2.7
140	8	.2	48	1.3	54	1.4	21	.5	5	.1	136	3.6
150	14	.4	45	1.2	71	1.9	12	.3	6	.2	148	3.9
160	7	.2	32	.8	50	1.3	10	.3	0	0.0	99	2.6
170	12	.3	23	.6	35	.9	21	.5	7	.2	98	2.6
180	19	.5	15	.4	38	1.0	30	.8	7	.2	109	2.9
190	8	.2	15	.4	46	1.2	34	.9	3	.1	106	2.8
200	6	.2	13	.3	30	.8	22	.6	14	.4	85	2.2
210	14	.4	19	.5	19	.5	17	.4	3	.1	72	1.9
220	6	.2	8	.2	13	.3	10	.3	5	.1	42	1.1
230	12	.3	10	.3	16	.4	13	.3	12	.3	63	1.6
240	13	.3	16	.4	25	.7	15	.4	6	.2	75	2.0
250	7	.2	9	.2	21	.5	20	.5	4	.1	60	1.6
260	1	.0	3	.1	15	.4	34	.9	16	.4	69	1.8
270	8	.2	8	.2	24	.6	37	1.0	18	.5	95	2.5
280	10	.3	12	.3	22	.6	63	1.6	45	1.2	152	4.0
290	4	.1	9	.2	35	.9	117	3.1	66	1.7	231	6.0
300	14	.4	19	.5	51	1.3	96	2.5	83	2.2	263	6.9
310	13	.3	21	.5	34	.9	120	3.1	105	2.7	293	7.7
320	3	.1	17	.4	57	1.5	68	1.8	72	1.9	217	5.7
330	14	.4	21	.5	58	1.5	74	1.9	57	1.5	224	5.9
340	7	.2	27	.7	57	1.5	33	.9	33	.9	157	4.1
350	6	.2	33	.8	44	1.2	20	.5	9	.2	112	2.9
360	18	.5	31	.8	26	.7	13	.3	2	.1	90	2.4
366		9.6	774	20.3	1105	28.9	994	26.0	583	15.3	3822	100.0

MEAN WIND SPEED 11
3 744

MISSING HOURS 594

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION SAT. TURBULENCE CLASS

1

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT	SUM		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
30	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
40	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.1
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.1
											13	0.4

MEAN WIND SPEED 2

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION SAT. TURBULENCE CLASS

2

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT	SUM		
10	5	0.2	7	0.3	1	0.0	1	0.0	1	0.0	15	0.7
20	1	0.0	4	0.2	0	0.0	0	0.0	0	0.0	5	0.2
30	0	0.0	6	0.3	1	0.0	0	0.0	0	0.0	7	0.3
40	1	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1
50	2	0.1	0	0.0	1	0.0	0	0.0	0	0.0	3	0.1
60	10	0.5	7	0.3	1	0.0	0	0.0	0	0.0	18	0.9
70	11	0.5	2	0.1	0	0.0	0	0.0	0	0.0	13	0.6
80	4	0.2	2	0.1	0	0.0	0	0.0	0	0.0	6	0.3
90	5	0.2	2	0.1	0	0.0	0	0.0	0	0.0	7	0.3
100	8	0.4	7	0.3	0	0.0	0	0.0	0	0.0	15	0.7
110	11	0.5	8	0.4	0	0.0	0	0.0	0	0.0	19	0.9
120	21	1.0	11	0.5	7	0.3	0	0.0	0	0.0	39	1.9
130	17	0.8	19	0.9	6	0.3	0	0.0	0	0.0	42	2.1
140	7	0.3	23	1.1	4	0.2	0	0.0	0	0.0	34	1.7
150	22	1.1	32	1.6	11	0.5	2	0.1	0	0.0	67	3.3
160	11	0.5	20	1.0	21	1.0	6	0.3	0	0.0	58	2.9
170	9	0.4	13	0.6	13	0.6	5	0.2	0	0.0	40	2.0
180	15	0.7	8	0.4	12	0.6	3	0.1	1	0.0	39	1.9
190	3	0.1	4	0.2	2	0.1	0	0.0	0	0.0	9	0.4
200	4	0.2	2	0.1	0	0.0	0	0.0	0	0.0	6	0.3
210	8	0.4	7	0.3	2	0.1	0	0.0	0	0.0	17	0.8
220	2	0.1	1	0.0	3	0.1	0	0.0	0	0.0	6	0.3
230	1	0.0	5	0.2	3	0.1	0	0.0	0	0.0	9	0.4
240	6	0.3	7	0.3	3	0.1	1	0.0	0	0.0	17	0.8
250	0	0.0	12	0.6	3	0.1	0	0.0	0	0.0	15	0.7
260	1	0.0	2	0.1	4	0.2	0	0.0	0	0.0	7	0.3
270	10	0.5	8	0.4	2	0.1	0	0.0	0	0.0	20	1.0
280	4	0.2	14	0.7	10	0.5	3	0.1	0	0.0	31	1.5
290	2	0.1	6	0.3	19	0.9	18	0.9	1	0.0	46	2.3
300	8	0.4	12	0.6	35	1.7	27	1.3	8	0.4	90	4.5
310	3	0.1	11	0.5	26	1.3	43	2.1	23	1.1	106	5.3
320	2	0.1	15	0.7	22	1.1	25	1.2	17	0.8	81	4.0
330	11	0.5	17	0.8	27	1.3	26	1.3	22	1.1	103	5.1
340	7	0.3	8	0.4	7	0.3	17	0.8	10	0.5	49	2.4
350	1	0.0	5	0.2	8	0.4	5	0.2	1	0.0	20	1.0
360	14	0.7	6	0.3	4	0.2	0	0.0	0	0.0	24	1.2
											1056	54.1

MEAN WIND SPEED 8

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS				LOCATION SAT. TURBULENCE CLASS				3			
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT	
1°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
2°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
3°	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1
4°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
5°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
8°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
9°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
10°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
11°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
12°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
13°	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1
14°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
15°	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2
16°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
17°	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	2
18°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
19°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
20°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
21°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
22°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
23°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
24°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
25°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
26°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
27°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
28°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
29°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
30°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
31°	0	0.0	3	.1	0	0.0	0	0.0	0	0.0	3
32°	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3
33°	0	0.0	1	.0	2	.1	0	0.0	0	0.0	3
34°	0	0.0	2	.1	1	.0	0	0.0	0	0.0	3
35°	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2
36°	4	.2	0	0.0	0	0.0	0	0.0	0	0.0	4
	11	.5	12	.6	5	.2	0	0.0	0	0.0	28
MEAN WIND SPEED	4										1.4

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS				LOCATION SAT. TURBULENCE CLASS				4			
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT	
1°	1	.0	0	0.0	2	.1	0	0.0	4	.2	7
2°	1	.0	0	0.0	1	.0	1	.0	0	0.0	3
3°	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1
4°	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	1
5°	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2
6°	0	0.0	0	0.0	4	.2	1	.0	0	0.0	5
7°	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2
8°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
9°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
10°	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	2
11°	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2
12°	0	0.0	2	.1	2	.1	0	0.0	0	0.0	4
13°	0	0.0	3	.1	1	.0	0	0.0	0	0.0	4
14°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
15°	0	0.0	5	.2	1	.0	0	0.0	0	0.0	6
16°	1	.0	5	.2	4	.2	4	.2	0	0.0	14
17°	0	0.0	1	.0	5	.2	1	.0	0	0.0	7
18°	2	.1	2	.1	2	.1	3	.1	1	.0	10
19°	3	.1	0	0.0	0	0.0	1	.0	0	0.0	4
20°	0	0.0	0	0.0	1	.0	2	.1	0	0.0	3
21°	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1
22°	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
23°	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
24°	1	.0	3	.1	1	.0	0	0.0	0	0.0	5
25°	2	.1	1	.0	1	.0	0	0.0	0	0.0	4
26°	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2
27°	0	0.0	3	.1	4	.2	1	.0	0	0.0	8
28°	3	.1	2	.1	2	.1	0	0.0	0	0.0	7
29°	0	0.0	3	.1	10	.5	2	.1	0	0.0	15
30°	0	0.0	7	.3	10	.5	7	.3	1	.0	25
31°	0	0.0	2	.1	7	.3	20	1.0	14	.7	43
32°	0	0.0	2	.1	3	.1	28	1.4	9	.4	42
33°	1	.0	1	.0	3	.1	4	.2	9	.4	18
34°	1	.0	0	0.0	0	0.0	10	.5	10	.5	21
35°	1	.0	0	0.0	0	0.0	3	.1	1	.0	5
36°	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1
	20	1.0	46	2.3	68	3.4	92	4.6	50	2.5	276
MEAN WIND SPEED	12										13.8

PBAPS

WIND ROSE FOR STATION 12 OCT-DEC, 2YRS

LOCATION SAT, TURBULENCE CLASS

5

DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	7	.3	0	0.0	0	0.0	0	0.0	0	0.0	7	.3
20	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
30	7	.3	0	0.0	0	0.0	0	0.0	0	0.0	7	.3
40	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
50	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
60	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
70	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	4	.2	2	.1	0	0.0	0	0.0	0	0.0	6	.3
100	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	6	.3
110	5	.2	4	.2	0	0.0	0	0.0	0	0.0	9	.4
120	6	.3	2	.1	1	.0	0	0.0	0	0.0	9	.4
130	8	.4	6	.3	3	.1	0	0.0	0	0.0	17	.8
140	8	.4	8	.4	1	.0	0	0.0	0	0.0	17	.8
150	13	.6	10	.5	0	0.0	0	0.0	0	0.0	23	1.1
160	18	.9	11	.5	2	.1	0	0.0	0	0.0	31	1.5
170	11	.5	2	.1	1	.0	0	0.0	0	0.0	14	.7
180	17	.8	2	.1	0	0.0	0	0.0	0	0.0	19	.9
190	13	.6	0	0.0	0	0.0	0	0.0	0	0.0	13	.6
200	4	.2	0	0.0	0	0.0	0	0.0	0	0.0	4	.2
210	13	.6	3	.1	0	0.0	0	0.0	0	0.0	16	.8
220	9	.4	1	.0	0	0.0	0	0.0	0	0.0	10	.5
230	6	.3	6	.3	0	0.0	0	0.0	0	0.0	12	.6
240	25	1.2	3	.1	0	0.0	0	0.0	0	0.0	28	1.4
250	17	.8	11	.5	1	.0	0	0.0	0	0.0	29	1.4
260	17	.8	2	.1	0	0.0	0	0.0	0	0.0	19	.9
270	37	1.8	5	.2	0	0.0	0	0.0	0	0.0	42	2.1
280	22	1.1	4	.2	0	0.0	0	0.0	0	0.0	26	1.3
290	15	.7	7	.3	1	.0	0	0.0	0	0.0	23	1.1
300	23	1.1	11	.5	0	0.0	1	.0	0	0.0	35	1.7
310	10	.5	6	.3	5	.2	0	0.0	0	0.0	21	1.0
320	17	.8	14	.7	4	.2	1	.0	0	0.0	36	1.8
330	34	1.7	10	.5	4	.2	0	0.0	0	0.0	48	2.4
340	20	1.0	9	.4	1	.0	0	0.0	0	0.0	30	1.5
350	17	.8	1	.0	2	.1	0	0.0	0	0.0	20	1.0
360	15	.7	0	0.0	0	0.0	0	0.0	0	0.0	15	.7
	435	21.7	140	7.0	26	1.3	2	.1	0	0.0	603	30.1

PBAPS

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 30FT		TURBULENCE CLASS		1				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
20	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
30	17	.1	0	0.0	0	0.0	0	0.0	0	0.0	17	.1
40	11	.1	1	.0	0	0.0	0	0.0	0	0.0	12	.1
50	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
60	14	.1	1	.0	0	0.0	0	0.0	0	0.0	15	.1
70	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0
80	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
90	14	.1	0	0.0	0	0.0	0	0.0	0	0.0	14	.1
100	10	.1	0	0.0	0	0.0	0	0.0	0	0.0	10	.1
110	9	.1	0	0.0	0	0.0	0	0.0	0	0.0	9	.1
120	23	.2	2	.0	0	0.0	0	0.0	0	0.0	25	.2
130	32	.2	1	.0	0	0.0	0	0.0	0	0.0	33	.2
140	15	.1	0	0.0	0	0.0	0	0.0	0	0.0	15	.1
150	28	.2	0	0.0	0	0.0	0	0.0	0	0.0	28	.2
160	15	.1	1	.0	0	0.0	0	0.0	0	0.0	16	.1
170	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
180	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
220	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
230	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
260	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
270	11	.1	0	0.0	0	0.0	0	0.0	0	0.0	11	.1
280	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0
290	3	.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0
300	23	.2	3	.0	0	0.0	0	0.0	0	0.0	26	.2
310	15	.1	1	.0	0	0.0	0	0.0	0	0.0	16	.1
320	5	.0	2	.0	0	0.0	0	0.0	0	0.0	7	.0
330	11	.1	3	.0	0	0.0	0	0.0	0	0.0	14	.1
340	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
360	16	.1	1	.0	0	0.0	0	0.0	0	0.0	17	.1
317	2.1		21	.1	2	.0	0	0.0	0	0.0	340	2.2
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 30FT		TURBULENCE CLASS		2				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	66	.4	98	.6	64	.4	1	.0	0	0.0	229	1.5
20	29	.2	49	.3	21	.1	1	.0	0	0.0	100	.7
30	41	.3	35	.2	14	.1	0	0.0	0	0.0	90	.6
40	37	.2	30	.2	5	.0	1	.0	0	0.0	73	.5
50	12	.1	22	.1	2	.0	1	.0	0	0.0	37	.2
60	30	.2	20	.1	6	.0	0	0.0	0	0.0	56	.4
70	35	.2	34	.2	12	.1	2	.0	0	0.0	83	.5
80	23	.2	15	.1	12	.1	0	0.0	0	0.0	50	.3
90	55	.4	38	.3	9	.1	0	0.0	0	0.0	102	.7
100	60	.4	28	.2	11	.1	0	0.0	0	0.0	99	.7
110	77	.5	38	.3	19	.1	1	.0	0	0.0	135	.9
120	158	1.0	81	.5	28	.2	2	.0	3	.0	272	1.8
130	327	2.2	98	.6	10	.1	6	.0	0	0.0	441	2.9
140	285	1.9	42	.3	3	.0	2	.0	0	0.0	332	2.2
150	378	2.5	42	.3	1	.0	0	0.0	0	0.0	421	2.8
160	360	2.4	24	.2	0	0.0	0	0.0	0	0.0	384	2.5
170	96	.6	4	.0	0	0.0	0	0.0	0	0.0	100	.7
180	94	.6	2	.0	0	0.0	0	0.0	0	0.0	96	.6
190	63	.4	1	.0	0	0.0	0	0.0	0	0.0	64	.4
200	22	.1	0	0.0	0	0.0	0	0.0	0	0.0	22	.1
210	27	.2	0	0.0	1	.0	0	0.0	0	0.0	28	.2
220	49	.3	0	0.0	1	.0	0	0.0	0	0.0	50	.3
230	11	.1	0	0.0	0	0.0	0	0.0	0	0.0	11	.1
240	34	.2	1	.0	1	.0	0	0.0	0	0.0	36	.2
250	40	.3	2	.0	0	0.0	0	0.0	0	0.0	42	.3
260	43	.3	0	0.0	0	0.0	0	0.0	0	0.0	52	.3
270	141	.9	50	.3	0	0.0	0	0.0	0	0.0	191	1.3
280	311	2.1	54	.4	6	.0	0	0.0	0	0.0	371	2.4
290	426	2.8	200	1.3	26	.2	9	.1	0	0.0	661	4.4
300	342	2.3	520	3.4	194	1.3	36	.2	1	.0	1093	7.2
310	135	.9	301	2.0	262	1.7	35	.2	0	0.0	733	4.8
320	57	.4	143	.9	118	.8	2	.0	0	0.0	320	2.1
330	65	.4	118	.8	76	.5	12	.1	0	0.0	271	1.8
340	60	.4	105	.7	90	.6	12	.1	1	.0	268	1.8
350	56	.4	119	.8	90	.6	13	.1	0	0.0	278	1.8
360	79	.5	102	.7	80	.5	6	.0	0	0.0	267	1.8
4124	27.2		2425	16.0	1162	7.7	142	.9	5	.0	7858	51.9
MEAN WIND SPEED 4												

PBAPS

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 30FT		TURBULENCE CLASS		3				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	3	.0	5	.0	0	0.0	0	0.0	0	0.0	8	.1
20	5	.0	2	.0	0	0.0	0	0.0	0	0.0	7	.0
30	11	.1	3	.0	3	.0	0	0.0	0	0.0	17	.1
40	6	.0	0	0.0	1	.0	0	0.0	0	0.0	7	.0
50	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
60	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
70	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
80	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
90	12	.1	0	0.0	0	0.0	0	0.0	0	0.0	12	.1
100	7	.0	1	.0	0	0.0	0	0.0	0	0.0	8	.1
110	5	.0	0	0.0	0	0.0	2	0.0	0	0.0	5	.0
120	30	.2	6	.0	0	0.0	0	0.0	0	0.0	36	.2
130	44	.3	12	.1	0	0.0	0	0.0	0	0.0	56	.4
140	23	.2	4	.0	0	0.0	0	0.0	0	0.0	27	.2
150	42	.3	4	.0	0	0.0	0	0.0	0	0.0	46	.3
160	37	.2	3	.0	0	0.0	0	0.0	0	0.0	40	.3
170	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
180	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
190	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
220	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
250	6	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.1
260	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
270	4	.0	1	.0	1	.0	0	0.0	0	0.0	6	.0
280	11	.1	1	.0	1	.0	0	0.0	0	0.0	13	.1
290	4	.0	5	.0	0	0.0	0	0.0	0	0.0	9	.1
300	17	.1	22	.1	4	.0	0	0.0	0	0.0	43	.3
310	12	.1	17	.1	6	.0	0	0.0	0	0.0	35	.2
320	5	.0	12	.1	2	.0	0	0.0	0	0.0	19	.1
330	14	.1	9	.1	3	.0	0	0.0	0	0.0	26	.2
340	3	.0	6	.0	1	.0	0	0.0	0	0.0	10	.1
350	1	.0	3	.0	0	0.0	0	0.0	0	0.0	4	.0
360	6	.0	11	.1	0	0.0	0	0.0	0	0.0	17	.1
	342	2.3	130	.9	23	.2	0	0.0	0	0.0	495	3.3
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 30FT		TURBULENCE CLASS		4				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	0	0.0	4	.0	0	0.0	0	0.0	5	.0
20	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
30	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
60	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	3	.0	1	.0	1	.0	0	0.0	0	0.0	5	.0
110	3	.0	0	0.0	0	0.0	1	.0	0	0.0	4	.0
120	2	.0	7	.0	2	.0	3	.0	5	.0	19	.1
130	10	.1	11	.1	3	.0	0	0.0	0	0.0	24	.2
140	13	.1	6	.0	2	.0	0	0.0	0	0.0	21	.1
150	15	.1	23	.2	1	.0	0	0.0	0	0.0	39	.3
160	26	.2	26	.2	7	.0	0	0.0	0	0.0	59	.4
170	4	.0	2	.0	0	0.0	0	0.0	0	0.0	6	.0
180	7	.0	1	.0	0	0.0	0	0.0	0	0.0	8	.1
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	3	.0	0	0.0	1	.0	0	0.0	0	0.0	4	.0
270	13	.1	0	0.0	4	.0	0	0.0	0	0.0	17	.1
280	26	.2	12	.1	11	.1	0	0.0	0	0.0	49	.3
290	22	.1	30	.2	18	.1	2	.0	0	0.0	72	.5
300	47	.3	93	.6	115	.8	41	.3	0	0.0	296	2.0
310	11	.1	87	.6	182	1.2	87	.6	5	.0	372	2.5
320	2	.0	24	.2	64	.4	33	.2	1	.0	124	.8
330	2	.0	12	.1	24	.2	18	.1	0	0.0	56	.4
340	0	0.0	13	.1	11	.1	5	.0	0	0.0	29	.2
350	3	.0	7	.0	4	.0	0	0.0	0	0.0	14	.1
360	2	.0	4	.0	3	.0	0	0.0	0	0.0	9	.1
	222	1.5	365	2.4	458	3.0	190	1.3	11	.1	1246	8.2
MEAN WIND SPEED 8												

PBAPS

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 30FT		TURBULENCE CLASS		5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	39	.3	4	.0	5	.0	0	0.0	0	0.0	48	.3
20	23	.2	4	.0	1	.0	0	0.0	0	0.0	28	.2
30	34	.2	4	.0	1	.0	0	0.0	0	0.0	39	.3
40	44	.3	3	.0	0	0.0	2	.0	0	0.0	49	.3
50	17	.1	1	.0	0	0.0	0	0.0	0	0.0	18	.1
60	38	.3	3	.0	0	0.0	0	0.0	0	0.0	41	.3
70	46	.3	0	0.0	0	0.0	0	0.0	0	0.0	46	.3
80	28	.2	1	.0	0	0.0	0	0.0	0	0.0	29	.2
90	71	.5	5	.0	0	0.0	0	0.0	0	0.0	76	.5
100	71	.5	1	.0	0	0.0	0	0.0	0	0.0	72	.5
110	37	.2	0	0.0	1	.0	0	0.0	0	0.0	38	.3
120	93	.6	5	.0	0	0.0	0	0.0	0	0.0	98	.6
130	114	.8	7	.0	0	0.0	0	0.0	0	0.0	121	.8
140	79	.5	4	.0	0	0.0	0	0.0	0	0.0	83	.5
150	121	.8	2	.0	0	0.0	0	0.0	0	0.0	123	.8
160	125	.8	0	0.0	0	0.0	0	0.0	0	0.0	125	.8
170	42	.3	0	0.0	0	0.0	0	0.0	0	0.0	42	.3
180	62	.4	1	.0	0	0.0	0	0.0	0	0.0	63	.4
190	55	.4	0	0.0	0	0.0	0	0.0	0	0.0	55	.4
200	35	.2	0	0.0	0	0.0	0	0.0	0	0.0	35	.2
210	67	.4	0	0.0	0	0.0	0	0.0	0	0.0	67	.4
220	90	.6	1	.0	0	0.0	0	0.0	0	0.0	91	.6
230	38	.3	0	0.0	0	0.0	0	0.0	0	0.0	38	.3
240	92	.6	0	0.0	0	0.0	0	0.0	0	0.0	92	.6
250	185	1.2	1	.0	0	0.0	0	0.0	0	0.0	186	1.2
260	298	2.0	3	.0	0	0.0	0	0.0	0	0.0	301	2.0
270	597	3.9	40	.3	0	0.0	0	0.0	0	0.0	646	4.3
280	1084	7.2	93	.6	0	0.0	0	0.0	0	0.0	1179	7.8
290	599	4.0	77	.5	1	.0	0	0.0	0	0.0	677	4.5
300	292	1.9	40	.3	0	0.0	0	0.0	0	0.0	332	2.2
310	88	.6	10	.1	2	.0	0	0.0	0	0.0	100	.7
320	33	.2	1	.0	0	0.0	0	0.0	0	0.0	34	.2
330	67	.4	5	.0	0	0.0	0	0.0	0	0.0	72	.5
340	37	.2	4	.0	0	0.0	0	0.0	0	0.0	41	.3
350	25	.2	4	.0	0	0.0	0	0.0	0	0.0	29	.2
360	78	.5	12	.1	1	.0	0	0.0	0	0.0	91	.6
	4846	32.0	345	2.3	12	.1	2	.0	0	0.0	5205	34.4
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 30FT		ALL CLASSES						
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12		SUM	PERCENT	SUM	PERCENT		
10	111	.7	107	.7	73	.5	1	.0	0	0.0	292	1.9
20	58	.4	57	.4	22	.1	1	.0	0	0.0	138	.9
30	104	.7	43	.3	19	.1	0	0.0	0	0.0	166	1.1
40	98	.6	34	.2	6	.0	3	.0	0	0.0	141	.9
50	36	.2	24	.2	3	.0	1	.0	0	0.0	64	.4
60	90	.6	25	.2	6	.0	0	0.0	0	0.0	121	.8
70	89	.6	35	.2	12	.1	2	.0	0	0.0	138	.9
80	55	.4	18	.1	12	.1	0	0.0	0	0.0	85	.6
90	153	1.0	43	.3	9	.1	0	0.0	0	0.0	205	1.4
100	151	1.0	31	.2	12	.1	0	0.0	0	0.0	194	1.3
110	131	.9	38	.3	20	.1	2	.0	0	0.0	191	1.3
120	306	2.0	101	.7	30	.2	5	.0	0	0.0	450	3.0
130	527	3.5	129	.9	13	.1	6	.0	0	0.0	675	4.5
140	415	2.7	56	.4	5	.0	2	.0	0	0.0	478	3.2
150	584	3.9	71	.5	2	.0	0	0.0	0	0.0	657	4.3
160	563	3.7	54	.4	7	.0	0	0.0	0	0.0	624	4.1
170	150	1.0	6	.0	0	0.0	0	0.0	0	0.0	156	1.0
180	168	1.1	4	.0	0	0.0	0	0.0	0	0.0	172	1.1
190	122	.8	1	.0	0	0.0	0	0.0	0	0.0	123	.8
200	58	.4	0	0.0	0	0.0	0	0.0	0	0.0	58	.4
210	97	.6	0	0.0	1	.0	0	0.0	0	0.0	98	.6
220	148	1.0	2	.0	1	.0	0	0.0	0	0.0	151	1.0
230	51	.3	0	0.0	0	0.0	0	0.0	0	0.0	51	.3
240	129	.9	1	.0	1	.0	0	0.0	0	0.0	131	.9
250	233	1.5	5	.0	0	0.0	0	0.0	0	0.0	238	1.6
260	352	2.3	12	.1	1	.0	0	0.0	0	0.0	365	2.4
270	766	5.1	100	.7	5	.0	0	0.0	0	0.0	871	5.8
280	1439	9.5	161	1.1	18	.1	0	0.0	0	0.0	1618	10.7
290	1054	7.0	314	2.1	45	.3	11	.1	0	0.0	1424	9.4
300	721	4.8	678	4.5	313	2.1	77	.5	1	.0	1790	11.8
310	261	1.7	416	2.7	452	3.0	122	.8	5	.0	1256	8.3
320	102	.7	182	1.2	186	1.2	35	.2	1	.0	506	3.3
330	159	1.0	147	1.0	103	.7	30	.2	0	0.0	439	2.9
340	103	.7	128	.8	102	.7	17	.1	1	.0	351	2.3
350	86	.6	133	.9	94	.6	13	.1	0	0.0	326	2.2
360	181	1.2	130	.9	84	.6	6	.0	0	0.0	401	2.6
	9851	65.0	3286	21.7	1657	10.9	334	2.2	16	MISSING HOURS 11	15144	100.0
MEAN WIND SPEED 3												
2 744												

PBAPS

WIND ROSE FOR STATION 11 ANNUAL,2YRS				LOCATION 100FT TURBULENCE CLASS				1				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
20	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
30	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
40	8	.1	0	0.0	0	0.0	0	0.0	0	0.0	8	.1
50	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
60	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
70	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
80	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
90	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
100	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
110	8	.1	1	.0	0	0.0	0	0.0	0	0.0	9	.1
120	26	.2	0	0.0	0	0.0	0	0.0	0	0.0	26	.2
130	43	.3	3	.0	0	0.0	0	0.0	0	0.0	46	.4
140	13	.1	0	0.0	0	0.0	0	0.0	0	0.0	13	.1
150	20	.2	3	.0	0	0.0	0	0.0	0	0.0	23	.2
160	9	.1	2	.0	0	0.0	0	0.0	0	0.0	11	.1
170	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
180	14	.1	0	0.0	0	0.0	0	0.0	0	0.0	14	.1
190	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	6	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.1
220	8	.1	0	0.0	0	0.0	0	0.0	0	0.0	8	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	15	.1	2	.0	0	0.0	0	0.0	0	0.0	17	.1
250	8	.1	3	.0	0	0.0	0	0.0	0	0.0	11	.1
260	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
270	24	.2	8	.1	0	0.0	0	0.0	0	0.0	32	.2
280	10	.1	3	.0	0	0.0	0	0.0	0	0.0	13	.1
290	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
300	14	.1	0	0.0	0	0.0	0	0.0	0	0.0	14	.1
310	6	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.1
320	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
330	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
340	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0
350	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
360	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0

PBAPS

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 100FT TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	0-12	13-18	SUM	PERCENT	SUM	PERCENT		
10	2	.0	4	.0	3	.0	0	0.0	0	0.0	9	.1
20	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
30	8	.1	1	.0	0	0.0	0	0.0	0	0.0	9	.1
40	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
50	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
60	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
70	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
80	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
90	7	.1	2	.0	0	0.0	0	0.0	0	0.0	9	.1
100	8	.1	2	.0	0	0.0	0	0.0	0	0.0	10	.1
110	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
120	15	.1	3	.0	0	0.0	0	0.0	0	0.0	18	.1
130	42	.3	21	.2	1	.0	0	0.0	0	0.0	64	.5
140	14	.1	10	.1	1	.0	0	0.0	0	0.0	25	.2
150	25	.2	13	.1	3	.0	0	0.0	0	0.0	41	.3
160	8	.1	1	.0	0	0.0	0	0.0	0	0.0	9	.1
170	5	.0	7	.1	0	0.0	0	0.0	0	0.0	12	.1
180	6	.0	7	.1	0	0.0	0	0.0	0	0.0	13	.1
190	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
220	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
230	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
240	5	.0	4	.0	0	0.0	0	0.0	0	0.0	9	.1
250	5	.0	8	.1	2	.0	0	0.0	0	0.0	15	.1
260	4	.0	2	.0	3	.0	2	.0	0	0.0	11	.1
270	7	.1	7	.1	4	.0	1	.0	0	0.0	19	.1
280	13	.1	19	.1	4	.0	0	0.0	0	0.0	36	.3
290	5	.0	4	.0	2	.0	0	0.0	0	0.0	11	.1
300	10	.1	8	.1	6	.0	2	.0	0	0.0	26	.2
310	8	.1	3	.0	3	.0	0	0.0	0	0.0	14	.1
320	3	.0	2	.0	1	.0	0	0.0	0	0.0	6	.0
330	8	.1	12	.1	1	.0	0	0.0	0	0.0	21	.2
340	6	.0	3	.0	0	0.0	0	0.0	0	0.0	9	.1
350	1	.0	4	.0	2	.0	0	0.0	0	0.0	7	.1
360	5	.0	0	0.0	2	.0	0	0.0	0	0.0	7	.1
	252	2.0	153	1.2	38	.3	5	.0	0	0.0	448	3.5
MEAN WIND SPEED 3												

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 100FT TURBULENCE CLASS				4				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	0-12	13-18	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	1	.0	3	.0	0	0.0	0	0.0	4	.0
20	0	0.0	0	0.0	2	.0	2	.0	4	.0	6	.1
30	0	0.0	0	0.0	1	.0	3	.0	1	.0	5	.0
40	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
50	0	0.0	0	0.0	1	.0	2	.0	0	0.0	3	.0
60	0	0.0	5	.0	0	0.0	3	.0	0	0.0	8	.1
70	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
80	0	0.0	0	0.0	0	0.0	0	0.0	10	.1	10	.1
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	3	.0	3	.0
110	0	0.0	0	0.0	1	.0	3	.0	0	0.0	4	.0
120	0	0.0	2	.0	3	.0	2	.0	0	0.0	7	.1
130	2	.0	24	.2	33	.3	3	.0	0	0.0	62	.5
140	2	.0	4	.0	3	.0	2	.0	2	.0	13	.1
150	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
160	0	0.0	2	.0	0	0.0	0	0.0	1	.0	3	.0
170	0	0.0	6	.0	4	.0	2	.0	3	.0	15	.1
180	3	.0	6	.0	9	.1	2	.0	0	0.0	20	.2
190	0	0.0	3	.0	2	.0	0	0.0	0	0.0	5	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	2	.0	5	.0	1	.0	0	0.0	0	0.0	8	.1
250	0	0.0	21	.2	21	.2	1	.0	0	0.0	43	.3
260	0	0.0	9	.1	23	.2	18	.1	1	.0	51	.4
270	3	.0	5	.0	16	.1	26	.2	0	0.0	50	.4
280	0	0.0	5	.0	21	.2	27	.2	2	.0	55	.4
290	0	0.0	37	.3	68	.5	74	.6	14	.1	193	1.5
300	2	.0	12	.1	49	.4	40	.3	18	.1	121	.9
310	0	0.0	16	.1	64	.5	26	.2	7	.1	113	.9
320	0	0.0	6	.0	15	.1	28	.2	4	.0	53	.4
330	0	0.0	12	.1	32	.2	37	.3	2	.0	83	.6
340	0	0.0	3	.0	8	.1	13	.1	5	.0	29	.2
350	0	0.0	3	.0	6	.0	6	.0	0	0.0	15	.1
360	0	0.0	0	0.0	2	.0	5	.0	0	0.0	7	.1
16	.1	190	1.5	389	3.0	326	2.5	77	.6	998	7.7	
MEAN WIND SPEED 11												

PBAPS

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 100FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	46	.4	5	.0	0	0.0	0	0.0	0	0.0	51	.4
20	29	.2	1	.0	0	0.0	0	0.0	0	0.0	30	.2
30	50	.4	2	.0	0	0.0	0	0.0	0	0.0	52	.4
40	62	.5	7	.1	0	0.0	0	0.0	0	0.0	69	.5
50	20	.2	1	.0	0	0.0	0	0.0	0	0.0	21	.2
60	32	.2	0	0.0	0	0.0	0	0.0	0	0.0	32	.2
70	44	.3	1	.0	0	0.0	0	0.0	0	0.0	45	.3
80	36	.3	2	.0	0	0.0	0	0.0	0	0.0	38	.3
90	40	.3	2	.0	0	0.0	0	0.0	0	0.0	42	.3
100	80	.6	5	.0	0	0.0	0	0.0	0	0.0	85	.7
110	69	.5	3	.0	0	0.0	0	0.0	0	0.0	72	.6
120	155	1.2	4	.0	0	0.0	0	0.0	0	0.0	159	1.2
130	207	1.6	3	.0	0	0.0	0	0.0	0	0.0	210	1.6
140	128	1.0	3	.0	1	.0	0	0.0	0	0.0	132	1.0
150	188	1.5	8	.1	0	0.0	0	0.0	0	0.0	196	1.5
160	223	1.7	3	.0	0	0.0	0	0.0	0	0.0	226	1.7
170	126	1.0	1	.0	0	0.0	0	0.0	0	0.0	127	1.0
180	133	1.0	0	0.0	0	0.0	0	0.0	0	0.0	133	1.0
190	108	.8	4	.0	0	0.0	0	0.0	0	0.0	112	.9
200	47	.4	4	.0	0	0.0	0	0.0	0	0.0	51	.4
210	109	.8	1	.0	1	.0	0	0.0	0	0.0	111	.9
220	195	1.5	3	.0	0	0.0	0	0.0	0	0.0	198	1.5
230	94	.7	7	.1	0	0.0	0	0.0	0	0.0	101	.8
240	166	1.3	22	.2	0	0.0	0	0.0	0	0.0	188	1.5
250	249	1.9	36	.3	1	.0	0	0.0	0	0.0	286	2.2
260	170	1.3	52	.4	8	.1	0	0.0	0	0.0	230	1.8
270	244	1.9	39	.3	2	.0	0	0.0	0	0.0	285	2.2
280	233	1.8	21	.2	3	.0	0	0.0	0	0.0	257	2.0
290	122	.9	30	.2	1	.0	0	0.0	0	0.0	153	1.2
300	119	.9	20	.2	2	.0	0	0.0	0	0.0	141	1.1
310	108	.8	6	.0	0	0.0	0	0.0	0	0.0	114	.9
320	56	.4	0	0.0	0	0.0	0	0.0	0	0.0	56	.4
330	77	.6	3	.0	1	.0	0	0.0	0	0.0	81	.6
340	59	.5	3	.0	1	.0	0	0.0	0	0.0	63	.5
350	31	.2	9	.1	1	.0	0	0.0	0	0.0	40	.3
360	63	.5	5	.0	1	.0	0	0.0	0	0.0	69	.5
	3918	30.3	315	2.4	23	.2	0	0.0	0	0.0	4256	32.9
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION 100FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	78	.6	65	.5	29	.2	12	.1	1	.0	185	1.4
20	59	.5	38	.3	25	.2	23	.2	7	.1	152	1.2
30	86	.7	37	.3	18	.1	13	.1	1	.0	155	1.2
40	92	.7	28	.2	21	.2	8	.1	0	0.0	149	1.2
50	45	.3	19	.1	18	.1	5	.0	0	0.0	87	.7
60	63	.5	31	.2	18	.1	8	.1	0	0.0	120	.9
70	74	.6	28	.2	17	.1	4	.0	1	.0	124	1.0
80	52	.4	24	.2	27	.2	10	.1	11	.1	124	1.0
90	84	.7	24	.2	26	.2	12	.1	1	.0	147	1.1
100	150	1.2	39	.3	23	.2	9	.1	4	.0	224	1.7
110	135	1.0	62	.5	26	.2	16	.1	7	.1	246	1.9
120	340	2.6	161	1.2	66	.5	16	.1	3	.0	586	4.5
130	518	4.0	255	2.0	110	.9	12	.1	0	0.0	895	6.9
140	293	2.3	104	.8	38	.3	6	.0	2	.0	443	3.4
150	389	3.0	105	.8	45	.3	4	.0	0	0.0	543	4.2
160	339	2.6	60	.5	12	.1	1	.0	1	.0	413	3.2
170	209	1.6	61	.5	15	.1	2	.0	3	.0	290	2.2
180	210	1.6	55	.4	12	.1	3	.0	0	0.0	280	2.2
190	144	1.1	19	.1	2	.0	0	0.0	0	0.0	165	1.3
200	64	.5	6	.0	0	0.0	0	0.0	0	0.0	70	.5
210	128	1.0	6	.0	1	.0	0	0.0	0	0.0	135	1.0
220	231	1.8	9	.1	1	.0	0	0.0	0	0.0	241	1.9
230	126	1.0	27	.2	1	.0	0	0.0	0	0.0	154	1.2
240	234	1.8	108	.8	3	.0	0	0.0	0	0.0	345	2.7
250	328	2.5	217	1.7	39	.3	1	.0	0	0.0	585	4.5
260	232	1.8	182	1.4	74	.6	33	.3	1	.0	522	4.0
270	344	2.7	197	1.5	92	.7	49	.4	0	0.0	682	5.3
280	341	2.6	239	1.8	187	1.4	74	.6	2	.0	843	6.5
290	219	1.7	223	1.7	216	1.7	115	.9	21	.2	794	6.1
300	225	1.7	200	1.5	161	1.2	65	.5	20	.2	671	5.2
310	195	1.5	174	1.3	190	1.5	61	.5	8	.1	628	4.9
320	96	.7	125	1.0	142	1.1	69	.5	4	.0	436	3.4
330	137	1.1	146	1.1	165	1.3	87	.7	3	.0	538	4.2
340	104	.8	91	.7	128	1.0	71	.5	11	.1	405	3.1
350	67	.5	98	.8	91	.7	36	.3	1	.0	293	2.3
360	102	.8	76	.6	57	.4	16	.1	1	.0	252	2.0
	6533	50.6	3339	25.8	2096	16.2	840	6.5	114	1.9	12922	100.0
											MISSING HOURS	4622
MEAN WIND SPEED 4												
3 744												

PBAPS

[illegible]

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION HILL TURBULENCE CLASS				2				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	27	.2	44	.3	25	.2	12	.1	2	.0	110	.9
20	35	.3	82	.6	27	.2	3	.0	1	.0	148	1.2
30	35	.3	81	.6	23	.2	5	.0	0	0.0	144	1.1
40	43	.3	73	.6	27	.2	5	.0	0	0.0	148	1.2
50	53	.4	59	.5	53	.4	30	.2	1	.0	196	1.5
60	60	.5	57	.4	53	.4	17	.1	5	.0	192	1.5
70	49	.4	45	.4	33	.3	20	.2	3	.0	150	1.2
80	66	.5	62	.5	47	.4	15	.1	4	.0	194	1.5
90	91	.7	83	.7	54	.4	20	.2	1	.0	249	2.0
100	66	.5	83	.6	26	.2	14	.1	0	0.0	186	1.5
110	108	.8	108	.8	39	.3	10	.1	3	.0	268	2.1
120	75	.6	109	.9	30	.2	4	.0	0	0.0	218	1.7
130	62	.5	72	.6	44	.3	2	.0	0	0.0	180	1.4
140	65	.5	96	.8	61	.5	8	.1	0	0.0	230	1.8
150	68	.5	78	.6	70	.5	16	.1	0	0.0	232	1.8
160	63	.5	70	.5	68	.5	31	.2	0	0.0	232	1.8
170	67	.5	71	.6	43	.3	19	.1	0	0.0	200	1.6
180	69	.5	85	.7	19	.1	13	.1	0	0.0	186	1.5
190	56	.4	85	.7	31	.2	9	.1	0	0.0	180	1.4
200	48	.4	82	.6	32	.3	9	.1	0	0.0	171	1.3
210	55	.4	83	.7	43	.4	20	.2	1	.0	207	1.6
220	55	.4	99	.8	55	.4	33	.3	1	.0	243	1.9
230	48	.4	83	.7	75	.6	47	.4	5	.0	258	2.0
240	62	.5	107	.9	80	.6	46	.4	1	.0	298	2.3
250	51	.4	76	.6	52	.4	4	.0	0	0.0	183	1.4
260	40	.3	59	.5	27	.2	3	.0	0	0.0	129	1.0
270	68	.5	94	.7	56	.4	6	.0	0	0.0	224	1.8
280	56	.4	105	.8	54	.4	10	.1	0	0.0	225	1.8
290	48	.4	126	1.0	60	.5	14	.1	0	0.0	248	1.9
300	62	.5	119	.9	69	.5	15	.1	0	0.0	265	2.1
310	42	.3	56	.4	43	.3	9	.1	0	0.0	150	1.2
320	32	.3	57	.4	17	.1	2	.0	0	0.0	108	.8
330	38	.3	73	.6	39	.3	8	.1	0	0.0	158	1.2
340	37	.3	66	.5	46	.4	10	.1	0	0.0	159	1.2
350	27	.2	52	.4	50	.4	5	.0	1	.0	135	1.1
360	23	.2	45	.4	58	.5	13	.1	0	0.0	139	1.1
1950	15.4		2824	22.2	1634	12.8	506	4.0	29	.2	6943	54.5
MEAN WIND SPEED 6												

PBAPS

WIND ROSE FOR STATION 11 ANNUAL.2YRS				LOCATION HILL		TURBULENCE CLASS		3						
DIRECTION	0-3			4-7			SPEEDS(MI/HR)			19 PLUS			SUM	PERCENT
	SUM	PERCENT		SUM	PERCENT		SUM	PERCENT		SUM	PERCENT			
10	1	.0	3	.0	3	.0	0	0.0	0	0.0	0	0.0	4	.0
20	1	.0	5	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.1
30	7	.1	7	.1	3	.0	0	0.0	0	0.0	0	0.0	17	.1
40	3	.0	3	.0	0	.0	1	.0	0	0.0	0	0.0	7	.1
50	4	.0	7	.1	1	.0	1	.0	0	0.0	0	0.0	13	.1
60	6	.0	7	.1	3	.0	3	.0	0	0.0	0	0.0	19	.1
70	3	.0	3	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.1
80	4	.0	3	.0	3	.0	0	0.0	0	0.0	0	0.0	10	.1
90	6	.0	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	9	.1
100	4	.0	5	.0	3	.0	0	0.0	0	0.0	0	0.0	12	.1
110	4	.0	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	8	.1
120	3	.0	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
130	4	.0	4	.0	2	.0	0	0.0	0	0.0	0	0.0	10	.1
140	4	.0	3	.0	1	.0	1	.0	0	0.0	0	0.0	9	.1
150	1	.0	4	.0	2	.0	0	0.0	0	0.0	0	0.0	7	.1
160	1	.0	9	.1	6	.0	10	.1	0	0.0	0	0.0	26	.2
170	2	.0	6	.0	15	.1	1	.0	0	0.0	0	0.0	24	.2
180	6	.0	10	.1	2	.0	0	0.0	0	0.0	0	0.0	18	.1
190	2	.0	17	.1	15	.1	2	.0	0	0.0	0	0.0	36	.3
200	3	.0	8	.1	6	.0	0	0.0	0	0.0	0	0.0	17	.1
210	4	.0	13	.1	2	.0	1	.0	0	0.0	0	0.0	20	.2
220	1	.0	5	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.1
230	7	.1	9	.1	6	.0	0	0.0	0	0.0	0	0.0	22	.2
240	8	.1	8	.1	3	.0	0	0.0	0	0.0	0	0.0	19	.1
250	2	.0	6	.0	1	.0	0	0.0	0	0.0	0	0.0	9	.1
260	5	.0	3	.0	1	.0	0	0.0	0	0.0	0	0.0	9	.1
270	4	.0	1	.0	1	.0	0	0.0	0	0.0	0	0.0	9	.1
280	2	.0	1	.0	3	.0	0	0.0	0	0.0	0	0.0	6	.0
290	2	.0	4	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.1
300	3	.0	4	.0	5	.0	0	0.0	0	0.0	0	0.0	12	.1
310	3	.0	3	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.1
320	1	.0	1	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
330	3	.0	3	.0	3	.0	0	0.0	0	0.0	0	0.0	11	.1
340	5	.0	5	.0	1	.0	0	0.0	0	0.0	0	0.0	11	.1
350	2	.0	4	.0	3	.0	1	.0	0	0.0	0	0.0	10	.1
360	2	.0	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
123	1.0		191	1.5	99	.8	21	.2	0	0.0			434	3.4
MEAN WIND SPEED 5														

WIND ROSE FOR STATION 11 ANNUAL.2YRS				LOCATION HILL		TURBULENCE CLASS		4				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	6	.0	6	.0	0	0.0	0	0.0	12	.1
20	0	0.0	4	.0	5	.0	1	.0	0	0.0	10	.1
30	0	0.0	6	.0	5	.0	0	0.0	0	0.0	11	.1
40	0	0.0	5	.0	7	.1	1	.0	0	0.0	13	.1
50	0	0.0	5	.0	10	.1	6	.0	0	0.0	21	.2
60	0	0.0	1	.0	12	.1	7	.1	0	0.0	20	.2
70	3	0.0	2	.0	8	.1	1	.0	2	.0	13	.1
80	0	0.0	3	.0	13	.1	18	.1	3	.0	37	.3
90	0	0.0	11	.1	15	.1	20	.2	3	.0	49	.4
100	11	.1	19	.1	15	.1	15	.1	1	.0	60	.5
110	4	.0	23	.2	17	.1	5	.0	2	.0	51	.4
120	6	.0	12	.1	11	.1	9	.1	0	0.0	38	.3
130	1	.0	5	.0	11	.1	2	.0	0	0.0	19	.1
140	0	0.0	8	.1	11	.1	2	.0	0	0.0	21	.2
150	2	.0	5	.0	5	.0	6	.0	1	.0	19	.1
160	1	.0	5	.0	7	.1	6	.0	1	.0	20	.2
170	2	.0	9	.1	11	.1	1	.0	0	0.0	22	.2
180	1	.0	12	.1	9	.1	3	.0	0	0.0	25	.2
190	1	.0	13	.1	14	.1	6	.0	0	0.0	34	.3
200	0	0.0	3	.0	5	.0	6	.0	0	0.0	14	.1
210	3	.0	9	.1	5	.0	7	.1	0	0.0	24	.2
220	4	.0	9	.1	8	.1	14	.1	4	.0	38	.3
230	3	.0	10	.1	16	.1	17	.1	13	.1	59	.5
240	3	.0	16	.1	42	.3	31	.2	0	0.0	92	.7
250	3	.0	19	.1	13	.1	9	.1	0	0.0	44	.3
260	7	.1	15	.1	9	.1	2	.0	0	0.0	33	.3
270	4	.0	30	.2	19	.1	11	.1	0	0.0	64	.5
280	8	.1	32	.3	15	.1	6	.0	1	.0	62	.5
290	3	.0	18	.1	16	.1	1	.0	3	.0	41	.3
300	1	.0	5	.0	9	.1	1	.0	0	0.0	16	.1
310	0	0.0	1	.0	3	.0	2	.0	0	0.0	6	.0
320	1	.0	7	.1	3	.0	2	.0	0	0.0	13	.1
330	1	.0	7	.1	3	.0	2	.0	0	0.0	13	.1
340	0	0.0	3	.0	5	.0	1	.0	0	0.0	9	.1
350	0	0.0	4	.0	9	.1	1	.0	0	0.0	14	.1
360	0	0.0	3	.0	2	.0	0	0.0	0	0.0	5	.0
70	.5		342	2.7	374	2.9	222	1.7	34	.3	1042	8.2
MEAN WIND SPEED 9												

PBAPS

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION HILL TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	35	.3	6	.0	0	0.0	0	0.0	0	0.0	41	.3
20	54	.4	17	.1	3	.0	0	0.0	0	0.0	74	.6
30	91	.7	24	.2	3	.0	0	0.0	0	0.0	118	.9
40	79	.6	13	.1	5	.0	0	0.0	0	0.0	97	.8
50	101	.8	7	.1	0	0.0	0	0.0	0	0.0	108	.8
60	113	.9	11	.1	1	.0	0	0.0	1	.0	126	1.0
70	70	.5	7	.1	0	0.0	0	0.0	0	0.0	77	.6
80	110	.9	9	.1	1	.0	0	0.0	0	0.0	120	1.0
90	117	.9	2	.0	2	.0	1	.0	0	0.0	122	1.0
100	96	.8	17	.1	0	0.0	0	0.0	0	0.0	113	.9
110	122	1.0	31	.2	1	.0	0	0.0	0	0.0	154	1.2
120	117	.9	20	.2	0	0.0	0	0.0	0	0.0	137	1.1
130	83	.7	8	.1	0	0.0	0	0.0	0	0.0	91	.7
140	106	.8	10	.1	1	.0	0	0.0	0	0.0	117	.9
150	126	1.0	13	.1	3	.0	0	0.0	0	0.0	142	1.1
160	108	.8	18	.1	2	.0	0	0.0	0	0.0	128	1.0
170	120	.9	10	.1	4	.0	0	0.0	0	0.0	143	1.1
180	129	1.0	11	.1	1	.0	0	0.0	0	0.0	141	1.1
190	113	.9	26	.2	0	0.0	0	0.0	0	0.0	139	1.1
200	109	.9	37	.3	1	.0	0	0.0	0	0.0	147	1.2
210	158	1.2	25	.2	0	0.0	0	0.0	0	0.0	183	1.4
220	113	.9	24	.2	0	0.0	0	0.0	0	0.0	137	1.1
230	121	.9	9	.1	6	.0	0	0.0	0	0.0	136	1.1
240	117	.9	17	.1	1	.0	0	0.0	0	0.0	135	1.1
250	104	.8	10	.1	0	0.0	0	0.0	0	0.0	114	.9
260	136	1.1	9	.1	0	0.0	0	0.0	0	0.0	145	1.1
270	136	1.1	8	.1	0	0.0	0	0.0	0	0.0	144	1.1
280	98	.8	7	.1	1	.0	0	0.0	0	0.0	106	.8
290	107	.8	14	.1	1	.0	0	0.0	0	0.0	122	1.0
300	89	.7	13	.1	0	0.0	0	0.0	0	0.0	102	.8
310	38	.3	8	.1	4	.0	0	0.0	0	0.0	50	.4
320	33	.3	1	.0	1	.0	0	0.0	0	0.0	35	.3
330	80	.7	5	.0	2	.0	0	0.0	0	0.0	95	.7
340	41	.3	7	.1	1	.0	0	0.0	0	0.0	49	.4
350	49	.4	11	.1	4	.0	0	0.0	0	0.0	64	.5
360	60	.5	13	.1	2	.0	0	0.0	0	0.0	75	.6
3495	27.4		487	3.8	51	.4	1	.0	1	.0	4035	31.7
MEAN WIND SPEED 1												

WIND ROSE FOR STATION 11 ANNUAL, 2YRS				LOCATION HILL ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS(MT/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	67	.5	60	.5	32	.3	12	.1	2	.0	173	1.4
20	93	.7	112	.9	37	.3	4	.0	1	.0	247	1.9
30	137	1.1	119	.9	36	.3	5	.0	0	0.0	297	2.3
40	133	1.0	95	.7	39	.3	7	.1	0	0.0	274	2.2
50	162	1.3	78	.6	64	.5	37	.3	1	.0	342	2.7
60	188	1.5	82	.6	69	.5	27	.2	6	.0	372	2.9
70	127	1.0	61	.5	42	.3	21	.2	5	.0	256	2.0
80	193	1.5	79	.6	64	.5	33	.3	7	.1	376	3.0
90	218	1.7	100	.8	71	.6	41	.3	4	.0	434	3.4
100	183	1.4	125	1.0	45	.4	29	.2	1	.0	383	3.0
110	240	1.9	167	1.3	58	.5	15	.1	5	.0	485	3.8
120	205	1.6	148	1.2	43	.3	13	.1	0	0.0	409	3.2
130	150	1.2	90	.7	58	.5	5	.0	0	0.0	303	2.4
140	175	1.4	118	.9	75	.6	12	.1	0	0.0	380	3.0
150	197	1.5	103	.8	82	.6	22	.2	1	.0	405	3.2
160	174	1.4	109	.9	84	.7	48	.4	1	.0	416	3.3
170	193	1.5	113	.9	77	.6	21	.2	0	0.0	404	3.2
180	208	1.6	124	1.0	33	.3	19	.1	0	0.0	384	3.0
190	174	1.4	151	1.2	63	.5	16	.1	0	0.0	404	3.2
200	163	1.3	138	1.1	46	.4	19	.1	0	0.0	366	2.9
210	225	1.8	139	1.1	58	.5	32	.3	1	.0	455	3.6
220	180	1.4	145	1.1	67	.5	47	.4	5	.0	444	3.5
230	187	1.5	113	.9	103	.8	65	.5	18	.1	486	3.8
240	194	1.5	158	1.2	126	1.0	78	.6	1	.0	557	4.4
250	161	1.3	113	.9	66	.5	13	.1	0	0.0	353	2.8
260	190	1.5	91	.7	37	.3	5	.0	0	0.0	323	2.5
270	214	1.7	137	1.1	76	.6	17	.1	0	0.0	444	3.5
280	165	1.3	146	1.1	73	.6	16	.1	1	.0	401	3.1
290	161	1.3	163	1.3	79	.6	15	.1	3	.0	421	3.3
300	157	1.2	142	1.1	83	.7	16	.1	0	0.0	398	3.1
310	85	.7	69	.5	51	.4	11	.1	0	0.0	216	1.7
320	68	.5	66	.5	22	.2	4	.0	0	0.0	160	1.3
330	132	1.0	90	.7	47	.4	10	.1	0	0.0	279	2.2
340	85	.7	83	.7	53	.4	11	.1	0	0.0	232	1.8
350	81	.6	73	.6	68	.5	7	.1	1	.0	230	1.8
360	92	.7	64	.5	62	.5	13	.1	0	0.0	231	1.8
5757	45.2		3964	31.1	2189	17.2	766	6.0	64	.5	12740	100.0
										MISSING HOURS	4804	
MEAN WIND SPEED 4												

PBAPS

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION 75FT TURBULENCE CLASS				1				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	8	.1	0	0.0	0	0.0	0	0.0	0	0.0	8	.1
20	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
30	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0
40	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
50	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
60	10	.1	0	0.0	0	0.0	0	0.0	0	0.0	10	.1
70	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	8	.1	1	.0	0	0.0	0	0.0	0	0.0	9	.1
100	14	.1	3	.0	0	0.0	0	0.0	0	0.0	17	.1
110	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
120	9	.1	1	.0	1	.0	0	0.0	0	0.0	11	.1
130	7	.0	1	.0	0	0.0	0	0.0	0	0.0	8	.1
140	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
150	7	.0	1	.0	0	0.0	0	0.0	0	0.0	8	.1
160	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
170	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
220	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
230	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
260	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
270	1	.0	3	.0	1	.0	0	0.0	0	0.0	5	.0
280	2	.0	0	0.0	1	.0	0	0.0	0	0.0	3	.0
290	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
300	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
310	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
320	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
330	3	.0	0	0.0	0	0.0	1	.0	0	0.0	4	.0
340	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
360	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
											142	1.0
											116	.8
											21	.1
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PBAPS

WIND ROSE FOR STATION 12			ANNUAL, 2YRS			LOCATION 75FT			TURBULENCE CLASS			3		
DIRECTION	0-3			4-7			SPEEDS (MI/HR)			19 PLUS			SUM	PERCENT
	SUM	PERCENT		SUM	PERCENT		SUM	PERCENT		SUM	PERCENT			
10	4	.0		11	.1		2	.0	0	0.0	0	0.0	17	.1
20	7	.0		7	.0		1	.0	0	0.0	0	0.0	15	.1
30	8	.1		5	.0		3	.0	0	0.0	0	0.0	16	.1
40	13	.1		3	.0		0	0.0	0	0.0	0	0.0	16	.1
50	7	.0		2	.0		0	0.0	0	0.0	0	0.0	9	.1
60	9	.1		2	.0		0	0.0	0	0.0	0	0.0	11	.1
70	9	.1		1	.0		0	0.0	0	0.0	0	0.0	10	.1
80	10	.1		0	0.0		0	0.0	0	0.0	0	0.0	10	.1
90	15	.1		0	0.0		0	0.0	0	0.0	0	0.0	15	.1
100	22	.1		1	.0		0	0.0	0	0.0	0	0.0	23	.2
110	12	.1		4	.0		0	0.0	0	0.0	0	0.0	16	.1
120	17	.1		10	.1		0	0.0	0	0.0	0	0.0	27	.2
130	8	.1		4	.0		0	0.0	0	0.0	0	0.0	12	.1
140	6	.0		3	.0		0	0.0	0	0.0	0	0.0	9	.1
150	4	.0		5	.0		4	.0	0	0.0	0	0.0	13	.1
160	6	.0		5	.0		1	.0	0	0.0	0	0.0	12	.1
170	0	0.0		4	.0		0	0.0	0	0.0	0	0.0	4	.0
180	4	.0		4	.0		1	.0	0	0.0	0	0.0	9	.1
190	6	.0		2	.0		1	.0	0	0.0	0	0.0	9	.1
200	1	.0		2	.0		1	.0	0	0.0	0	0.0	4	.0
210	4	.0		1	.0		1	.0	0	0.0	0	0.0	6	.0
220	2	.0		6	.0		0	0.0	0	0.0	0	0.0	8	.1
230	3	.0		4	.0		0	0.0	0	0.0	0	0.0	7	.0
240	3	.0		5	.0		1	.0	0	0.0	0	0.0	9	.1
250	1	.0		3	.0		1	.0	0	0.0	0	0.0	5	.0
260	1	.0		1	.0		1	.0	0	0.0	0	0.0	3	.0
270	2	.0		3	.0		3	.0	0	0.0	0	0.0	8	.1
280	4	.0		3	.0		3	.0	0	0.0	0	0.0	10	.1
290	0	0.0		4	.0		0	0.0	0	0.0	0	0.0	4	.0
300	2	.0		3	.0		5	.0	3	.0	0	0.0	13	.1
310	7	.0		4	.0		1	.0	2	.0	0	0.0	14	.1
320	0	0.0		3	.0		2	.0	0	0.0	0	0.0	5	.0
330	4	.0		9	.1		2	.0	1	.0	0	0.0	16	.1
340	6	.0		12	.1		14	.1	1	.0	0	0.0	33	.2
350	6	.0		6	.0		4	.0	0	0.0	0	0.0	16	.1
360	6	.0		12	.1		3	.0	0	0.0	0	0.0	21	.1
219	1.5		154	1.0		55	.4		7	.0	0	0.0	435	3.0
MEAN WIND SPEED 4														

WIND ROSE FOR STATION 12				ANNUAL, 2YRS		LOCATION 75FT		TURBULENCE CLASS		4		
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	1	.0	5	.0	15	.1	14	.1	0	0.0	35	.2
20	3	.0	5	.0	6	.0	11	.1	1	.0	26	.2
30	4	.0	8	.1	9	.1	10	.1	2	.0	33	.2
40	1	.0	11	.1	11	.1	0	0.0	0	0.0	23	.2
50	1	.0	9	.1	1	.0	0	0.0	0	0.0	11	.1
60	1	.0	3	.0	7	.0	0	0.0	0	0.0	11	.1
70	5	.0	10	.1	1	.0	0	0.0	0	0.0	16	.1
80	1	.0	9	.1	1	.0	0	0.0	0	0.0	11	.1
90	2	.0	9	.1	11	.1	0	0.0	0	0.0	22	.1
100	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
110	1	.0	0	0.0	4	.0	0	0.0	0	0.0	5	.0
120	2	.0	4	.0	5	.0	0	0.0	0	0.0	11	.1
130	4	.0	9	.1	8	.1	2	.0	0	0.0	23	.2
140	4	.0	17	.1	4	.0	0	0.0	0	0.0	25	.2
150	6	.0	13	.1	15	.1	5	.0	0	0.0	39	.3
160	6	.0	12	.1	9	.0	5	.0	1	.0	29	.2
170	2	.0	7	.0	14	.1	6	.0	0	0.0	29	.2
180	6	.0	13	.1	37	.3	23	.2	4	.0	83	.6
190	4	.0	8	.1	23	.2	27	.2	8	.1	70	.5
200	1	.0	4	.0	16	.1	14	.1	1	.0	36	.2
210	2	.0	11	.1	10	.1	7	.0	4	.0	34	.2
220	4	.0	4	.0	2	.0	1	.0	1	.0	12	.1
230	0	0.0	2	.0	6	.0	0	0.0	0	0.0	8	.1
240	0	0.0	1	.0	8	.1	3	.0	0	0.0	12	.1
250	4	.0	10	.1	10	.1	3	.0	0	0.0	27	.2
260	0	0.0	2	.0	19	.1	4	.0	1	.0	26	.2
270	3	.0	13	.1	27	.2	13	.1	1	.0	57	.4
280	0	0.0	18	.1	43	.3	24	.2	1	.0	86	.6
290	1	.0	12	.1	51	.3	20	.1	2	.0	86	.6
300	2	.0	17	.1	74	.5	59	.4	9	.1	161	1.1
310	1	.0	12	.1	48	.3	61	.4	19	.1	141	1.0
320	0	0.0	11	.1	33	.2	22	.1	8	.1	74	.5
330	0	0.0	18	.1	64	.4	57	.4	19	.1	158	1.1
340	1	.0	10	.1	71	.5	72	.5	25	.2	179	1.2
350	1	.0	3	.0	14	.1	23	.2	6	.0	47	.3
360	1	.0	3	.0	23	.2	16	.1	0	0.0	43	.3
78	.5		303	2.1	696	4.7	902	3.4	113	.8	1692	11.5
MEAN WIND SPEED 11												

PBAPS

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION 75FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	72	.5	19	.1	5	.0	0	0.0	0	0.0	96	.7
20	53	.4	19	.1	2	.0	0	0.0	0	0.0	74	.5
30	57	.4	14	.1	1	.0	0	0.0	1	.0	73	.5
40	41	.3	6	.0	0	0.0	0	0.0	0	0.0	47	.3
50	29	.2	7	.0	1	.0	0	0.0	0	0.0	37	.3
60	55	.4	5	.0	0	0.0	0	0.0	0	0.0	60	.4
70	77	.5	12	.1	4	.0	0	0.0	0	0.0	93	.6
80	33	.2	13	.1	1	.0	0	0.0	0	0.0	47	.3
90	57	.4	10	.1	1	.0	0	0.0	0	0.0	68	.5
100	95	.6	24	.2	4	.0	0	0.0	0	0.0	123	.8
110	64	.4	31	.2	4	.0	0	0.0	0	0.0	99	.7
120	109	.7	74	.5	5	.0	0	0.0	0	0.0	188	1.3
130	91	.6	64	.4	10	.1	2	.0	0	0.0	167	1.1
140	59	.4	57	.4	6	.0	0	0.0	0	0.0	122	.8
150	100	.7	65	.4	5	.0	0	0.0	0	0.0	170	1.2
160	83	.6	75	.5	5	.0	0	0.0	0	0.0	163	1.1
170	51	.3	43	.3	6	.0	0	0.0	0	0.0	100	.7
180	72	.5	47	.3	14	.1	1	.0	0	0.0	134	.9
190	89	.6	72	.5	27	.2	1	.0	0	0.0	189	1.3
200	35	.2	45	.3	19	.1	0	0.0	0	0.0	99	.7
210	42	.3	35	.2	9	.1	0	0.0	0	0.0	86	.6
220	63	.4	31	.2	4	.0	1	.0	0	0.0	99	.7
230	21	.1	24	.2	7	.0	0	0.0	0	0.0	52	.4
240	56	.4	43	.3	27	.2	0	0.0	0	0.0	126	.9
250	49	.3	49	.3	56	.4	4	.0	0	0.0	158	1.1
260	34	.2	56	.4	62	.4	7	.0	0	0.0	159	1.1
270	64	.4	73	.5	76	.5	10	.1	0	0.0	223	1.5
280	86	.6	104	.7	88	.6	5	.0	0	0.0	283	1.9
290	62	.4	103	.7	63	.4	0	0.0	0	0.0	228	1.6
300	103	.7	113	.8	55	.4	2	.0	0	0.0	273	1.9
310	120	.8	80	.5	36	.2	0	0.0	0	0.0	236	1.6
320	72	.5	70	.5	13	.1	0	0.0	0	0.0	155	1.1
330	112	.8	88	.6	37	.3	4	.0	0	0.0	241	1.6
340	98	.7	79	.5	22	.1	1	.0	0	0.0	200	1.4
350	57	.4	37	.3	10	.1	0	0.0	0	0.0	104	.7
360	64	.4	21	.1	12	.1	0	0.0	0	0.0	97	.7
	2425	16.5	1708	11.6	697	4.7	38	.3	1	.0	4869	33.2
MEAN WIND SPEED 4												

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION 75FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	133	.9	113	.8	107	.7	26	.2	0	0.0	379	2.6
20	109	.7	128	.9	87	.6	26	.2	1	.0	351	2.4
30	118	.8	161	1.1	65	.4	17	.1	3	.0	364	2.5
40	111	.8	103	.7	37	.3	1	.0	0	0.0	292	1.7
50	87	.6	42	.3	16	.1	1	.0	0	0.0	146	1.0
60	144	1.0	60	.4	19	.1	1	.0	0	0.0	224	1.5
70	192	1.3	80	.5	11	.1	0	0.0	0	0.0	283	1.9
80	96	.7	48	.3	2	.0	1	.0	0	0.0	147	1.0
90	179	1.2	54	.4	16	.1	1	.0	0	0.0	250	1.7
100	227	1.5	75	.5	10	.1	2	.0	0	0.0	314	2.1
110	169	1.2	106	.7	27	.2	1	.0	0	0.0	303	2.1
120	230	1.6	209	1.4	63	.4	8	.1	1	.0	511	3.5
130	170	1.2	198	1.3	87	.6	20	.1	0	0.0	475	3.2
140	112	.8	181	1.2	74	.5	6	.0	0	0.0	373	2.5
150	179	1.2	230	1.6	91	.6	13	.1	1	.0	514	3.5
160	143	1.0	208	1.4	55	.4	10	.1	1	.0	417	2.8
170	90	.6	130	.9	68	.5	30	.2	1	.0	319	2.2
180	130	.9	176	1.2	176	1.2	82	.6	12	.1	576	3.9
190	142	1.0	180	1.2	171	1.2	78	.5	10	.1	581	4.0
200	58	.4	103	.7	89	.6	36	.2	1	.0	287	2.0
210	64	.4	113	.8	66	.4	27	.2	7	.0	277	1.9
220	89	.6	74	.5	35	.2	6	.0	2	.0	206	1.4
230	38	.3	46	.3	36	.2	5	.0	0	0.0	125	.9
240	88	.6	78	.5	94	.6	13	.1	1	.0	274	1.9
250	84	.6	95	.6	123	.8	31	.2	2	.0	335	2.3
260	50	.3	73	.5	123	.8	28	.2	1	.0	275	1.9
270	102	.7	142	1.0	185	1.3	68	.6	7	.0	524	3.6
280	119	.8	173	1.2	250	1.7	124	.8	9	.1	675	4.6
290	82	.6	171	1.2	198	1.3	100	.7	14	.1	565	3.9
300	155	1.1	204	1.4	275	1.9	155	1.1	39	.3	828	5.6
310	149	1.0	171	1.2	191	1.3	141	1.0	32	.2	684	4.7
320	96	.7	140	1.0	120	.8	52	.4	14	.1	422	2.9
330	160	1.1	204	1.4	233	1.6	148	1.0	30	.2	775	5.3
340	136	.9	229	1.6	317	2.2	166	1.1	29	.2	877	6.0
350	80	.5	111	.8	133	.9	49	.3	7	.0	380	2.6
360	108	.7	125	.9	119	.8	34	.2	0	0.0	386	2.6
	4419	30.1	4734	32.3	3769	25.7	1527	10.4	225	1.5	14674	100.0
											MISSING HOURS	2870
MEAN WIND SPEED 6												
2 744												

PBAPS

WIND ROSE FOR STATION 12 ANNUAL,2YRS				LOCATION J20FT TURBULENCE CLASS				1				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	6	.0	1	.3	0	0.0	0	0.0	0	0.0	7	.0
40	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
50	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
60	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
70	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
80	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
90	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.0
100	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
110	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
120	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
130	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	4	.0	3	.0	0	0.0	0	0.0	0	0.0	7	.0
160	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	9	.1	0	0.0	0	0.0	0	0.0	0	0.0	9	.1
190	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
200	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
210	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
220	2	.0	1	.0	1	.0	0	0.0	0	0.0	4	.0
230	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
240	7	.0	1	.0	1	.0	0	0.0	0	0.0	9	.1
250	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
260	3	.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0
270	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
280	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
310	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
320	2	.0	1	.0	1	.0	0	0.0	0	0.0	4	.0
330	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0
340	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
350	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
360	6	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.0
107	.7		22	.1	3	.0	0	0.0	0	0.0	132	.9
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 12 ANNUAL,2YRS				LOCATION J20FT TURBULENCE CLASS				2				
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	10	.1	53	.3	80	.5	66	.4	3	.0	212	1.4
20	12	.1	59	.4	82	.5	38	.2	2	.0	193	1.2
30	7	.0	49	.3	79	.5	25	.2	0	0.0	160	1.0
40	11	.1	47	.3	67	.4	27	.2	1	.0	153	1.0
50	16	.1	29	.2	39	.3	23	.1	1	.0	108	.7
60	10	.1	42	.3	47	.3	18	.1	0	0.0	122	.8
70	14	.1	39	.3	54	.3	20	.1	2	.0	129	.8
80	20	.1	42	.3	48	.3	18	.1	0	0.0	128	.8
90	17	.1	55	.4	40	.3	17	.1	0	0.0	137	.9
100	27	.2	59	.4	40	.3	11	.1	1	.0	138	.9
110	20	.1	75	.5	68	.4	20	.1	2	.0	185	1.2
120	22	.1	72	.5	96	.6	31	.2	6	.0	227	1.5
130	17	.1	66	.4	105	.7	58	.4	6	.0	252	1.6
140	10	.1	55	.4	78	.5	30	.2	5	.0	178	1.1
150	16	.1	71	.5	119	.8	22	.1	0	0.0	228	1.5
160	11	.1	56	.4	130	.8	31	.2	4	.0	232	1.5
170	13	.1	42	.3	95	.6	78	.5	11	.1	239	1.5
180	15	.1	57	.4	173	1.1	114	.7	19	.1	378	2.4
190	7	.0	64	.4	142	.9	91	.6	9	.1	313	2.0
200	5	.0	32	.2	110	.7	46	.3	11	.1	204	1.3
210	8	.1	52	.3	72	.5	47	.3	10	.1	189	1.2
220	8	.1	31	.2	64	.4	39	.3	2	.0	144	.9
230	8	.1	34	.2	47	.3	34	.2	15	.1	138	.9
240	3	.0	34	.2	39	.3	39	.3	22	.1	137	.9
250	4	.0	22	.1	55	.4	61	.4	6	.0	148	1.0
260	3	.0	15	.1	46	.3	57	.4	24	.2	145	.9
270	4	.0	15	.1	50	.3	72	.5	65	.4	206	1.3
280	4	.0	21	.1	61	.4	106	.7	80	.5	272	1.8
290	1	.0	9	.1	59	.4	115	.7	95	.6	279	1.8
300	7	.0	23	.1	72	.5	143	.9	110	.7	355	2.3
310	3	.0	23	.1	62	.4	170	1.1	121	.8	379	2.4
320	6	.0	19	.1	97	.6	140	.9	100	.6	362	2.3
330	11	.1	50	.3	162	1.0	179	1.2	71	.5	473	3.0
340	7	.0	56	.4	128	.8	133	.9	45	.3	369	2.4
350	2	.0	57	.4	97	.6	72	.5	16	.1	244	1.6
360	9	.1	41	.3	79	.5	54	.3	15	.1	198	1.3
368	2.4		1571	10.1	2890	18.6	2245	14.5	880	5.7	7954	51.2
MEAN WIND SPEED 11												

PBAPS

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION 320FT TURBULENCE CLASS				3				
DIRECTION	0-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	6	.0	1	.0	0	0.0	0	0.0	8	.1
20	5	.0	4	.0	1	.0	0	0.0	0	0.0	10	.1
30	6	.0	4	.0	0	0.0	0	0.0	0	0.0	10	.1
40	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0
50	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
60	13	.1	2	.0	0	0.0	0	0.0	0	0.0	15	.1
70	14	.1	0	0.0	0	0.0	0	0.0	0	0.0	14	.1
80	7	.0	2	.0	0	0.0	0	0.0	0	0.0	9	.1
90	17	.1	0	0.0	0	0.0	0	0.0	0	0.0	17	.1
100	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
110	6	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.1
120	12	.1	5	.0	0	0.0	0	0.0	0	0.0	17	.1
130	4	.0	5	.0	0	0.0	0	0.0	0	0.0	9	.1
140	3	.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0
150	2	.0	2	.0	0	0.0	1	.0	0	0.0	5	.0
160	4	.0	7	.0	3	.0	0	0.0	0	0.0	14	.1
170	3	.0	7	.0	4	.0	0	0.0	0	0.0	14	.1
180	6	.0	6	.0	2	.0	0	0.0	0	0.0	14	.1
190	4	.0	1	.0	2	.0	0	0.0	0	0.0	7	.0
200	5	.0	0	0.0	1	.0	0	0.0	0	0.0	6	.0
210	8	.1	3	.0	2	.0	0	0.0	0	0.0	13	.1
220	7	.0	2	.0	4	.0	0	0.0	0	0.0	13	.1
230	5	.0	1	.0	5	.0	0	0.0	0	0.0	11	.1
240	4	.0	2	.0	2	.0	0	0.0	0	0.0	8	.1
250	5	.0	6	.0	2	.0	0	0.0	0	0.0	13	.1
260	3	.0	2	.0	2	.0	0	0.0	0	0.0	7	.0
270	5	.0	3	.0	1	.0	0	0.0	0	0.0	9	.1
280	4	.0	7	.0	3	.0	1	.0	0	0.0	15	.1
290	0	0.0	1	.0	4	.0	2	.0	0	0.0	7	.0
300	6	.0	7	.0	6	.0	1	.0	2	.0	22	.1
310	4	.0	5	.0	9	.1	0	0.0	0	0.0	18	.1
320	2	.0	5	.0	3	.0	0	0.0	0	0.0	10	.1
330	3	.0	18	.1	10	.1	0	0.0	0	0.0	31	.2
340	2	.0	24	.2	8	.1	0	0.0	0	0.0	34	.2
350	1	.0	4	.0	6	.0	1	.0	0	0.0	12	.1
360	10	.1	4	.0	4	.0	0	0.0	0	0.0	18	.1
193	1.2		150	1.0	85	.5	6	.0	2	.0	436	2.8
MEAN WIND SPED 4												

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION 320FT TURBULENCE CLASS				4				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	1	.0	15	.1	13	.1	29	.2
20	0	0.0	0	0.0	1	.0	10	.1	5	.0	16	.1
30	0	0.0	0	0.0	3	.0	4	.0	12	.1	19	.1
40	0	0.0	0	0.0	2	.0	5	.0	9	.1	16	.1
50	0	0.0	0	0.0	0	0.0	4	.0	8	.1	12	.1
60	0	0.0	1	.0	3	.0	5	.0	11	.1	20	.1
70	0	0.0	0	0.0	0	0.0	9	.1	1	.0	10	.1
80	0	0.0	0	0.0	2	.0	5	.0	0	0.0	7	.0
90	0	0.0	0	0.0	1	.0	2	.0	20	.1	23	.1
100	1	.0	0	0.0	5	.0	3	.0	2	.0	11	.1
110	0	0.0	0	0.0	1	.0	6	.0	0	0.0	7	.0
120	0	0.0	1	.0	0	0.0	7	.0	0	0.0	8	.1
130	0	0.0	0	0.0	3	.0	6	.0	2	.0	11	.1
140	0	0.0	0	0.0	9	.1	14	.1	4	.0	27	.2
150	0	0.0	2	.0	3	.0	10	.1	13	.1	28	.2
160	0	0.0	0	0.0	8	.1	9	.1	4	.0	21	.1
170	0	0.0	2	.0	10	.1	18	.1	14	.1	44	.3
180	0	0.0	1	.0	17	.1	55	.4	19	.1	92	.6
190	1	.0	2	.0	13	.1	38	.2	14	.1	68	.4
200	0	0.0	0	0.0	8	.1	26	.2	21	.1	55	.4
210	0	0.0	0	0.0	14	.1	7	.0	7	.0	28	.2
220	0	0.0	0	0.0	6	.0	8	.1	4	.0	18	.1
230	0	0.0	0	0.0	5	.0	16	.1	6	.0	27	.2
240	0	0.0	1	.0	1	.0	17	.1	3	.0	22	.1
250	0	0.0	2	.0	3	.0	12	.1	11	.1	28	.2
260	0	0.0	0	0.0	1	.0	12	.1	13	.1	26	.2
270	0	0.0	0	0.0	6	.0	31	.2	24	.2	61	.4
280	0	0.0	0	0.0	1	.0	35	.2	34	.2	70	.5
290	0	0.0	0	0.0	5	.0	67	.4	40	.3	112	.7
300	0	0.0	0	0.0	8	.1	44	.3	87	.6	139	.9
310	0	0.0	0	0.0	6	.0	77	.5	105	.7	188	1.2
320	0	0.0	0	0.0	7	.0	58	.4	74	.5	139	.9
330	0	0.0	1	.0	7	.0	91	.6	86	.6	185	1.2
340	0	0.0	0	0.0	2	.0	53	.3	71	.5	126	.8
350	0	0.0	0	0.0	6	.0	29	.2	29	.2	64	.4
360	0	0.0	0	0.0	5	.0	32	.2	23	.1	60	.4
2 .0 13 .1 173 1.1 840 5.4 789 5.1 1817 11.7												
MEAN WIND SPEED 18												

PBAPS

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION 320FT TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	22	.1	44	.3	35	.2	11	.1	0	0.0	112	.7
20	21	.1	21	.1	26	.2	8	.1	1	.0	77	.5
30	32	.2	27	.2	18	.1	0	0.0	0	0.0	77	.5
40	16	.1	25	.2	7	.0	1	.0	0	0.0	49	.3
50	30	.2	28	.2	12	.1	0	0.0	0	0.0	70	.5
60	32	.2	33	.2	10	.1	0	0.0	0	0.0	75	.5
70	18	.1	35	.2	11	.1	0	0.0	0	0.0	64	.4
80	27	.2	21	.1	5	.0	0	0.0	0	0.0	53	.3
90	28	.2	32	.2	9	.1	0	0.0	0	0.0	69	.4
100	29	.2	35	.2	19	.1	0	0.0	0	0.0	83	.5
110	28	.2	30	.2	22	.1	6	.0	0	0.0	86	.6
120	30	.2	52	.3	35	.2	12	.1	2	.0	131	.8
130	18	.1	39	.3	50	.3	7	.0	0	0.0	114	.7
140	17	.1	53	.3	64	.4	9	.1	0	0.0	143	.9
150	24	.2	58	.4	79	.5	11	.1	0	0.0	172	1.1
160	27	.2	57	.4	68	.4	19	.1	0	0.0	171	1.1
170	24	.2	49	.3	64	.4	21	.1	1	.0	159	1.0
180	30	.2	52	.3	58	.4	35	.2	2	.0	177	1.1
190	26	.2	49	.3	79	.5	44	.3	1	.0	199	1.3
200	15	.1	52	.3	56	.4	21	.1	2	.0	146	.9
210	30	.2	54	.3	68	.4	19	.1	0	0.0	171	1.1
220	23	.1	54	.3	39	.3	9	.1	3	.0	128	.8
230	24	.2	41	.3	45	.3	20	.1	5	.0	135	.9
240	34	.2	60	.4	52	.3	27	.2	4	.0	177	1.1
250	23	.1	40	.3	47	.3	63	.4	2	.0	175	1.1
260	14	.1	29	.2	47	.3	67	.4	8	.1	165	1.1
270	25	.2	41	.3	64	.4	80	.5	16	.1	226	1.5
280	20	.1	33	.2	35	.2	87	.6	10	.1	185	1.2
290	12	.1	29	.2	57	.4	97	.6	23	.1	218	1.4
300	26	.2	40	.3	63	.4	84	.5	13	.1	226	1.5
310	21	.1	33	.2	70	.5	102	.7	10	.1	236	1.5
320	13	.1	38	.2	102	.7	70	.5	5	.0	228	1.5
330	18	.1	42	.3	103	.7	70	.5	2	.0	235	1.5
340	12	.1	47	.3	86	.6	29	.2	3	.0	177	1.1
350	17	.1	55	.4	51	.3	11	.1	0	0.0	134	.9
360	28	.2	53	.3	49	.3	8	.1	0	0.0	138	.9
834		5.4	1481	9.5	1705	11.0	1048	6.8	113	.7	5181	33.4
MEAN WIND SPEED 8												

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION 320FT ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	SUM	PERCENT	SUM	PERCENT			
10	36	.2	103	.7	117	.8	92	.6	16	.1	364	2.3
20	38	.2	84	.5	110	.7	56	.4	8	.1	296	1.9
30	51	.3	81	.5	100	.6	29	.2	12	.1	273	1.8
40	36	.2	73	.5	76	.5	33	.2	10	.1	228	1.5
50	53	.3	57	.4	51	.3	27	.2	9	.1	197	1.3
60	59	.4	83	.5	60	.4	23	.1	11	.1	236	1.5
70	49	.3	75	.5	65	.4	29	.2	3	.0	221	1.4
80	56	.4	66	.4	55	.4	23	.1	0	0.0	200	1.3
90	64	.4	89	.6	58	.4	19	.1	20	.1	250	1.6
100	65	.4	94	.6	64	.4	14	.1	3	.0	240	1.5
110	58	.4	107	.7	91	.6	32	.2	2	.0	290	1.9
120	66	.4	131	.8	131	.8	50	.3	8	.1	386	2.5
130	42	.3	110	.7	158	1.0	71	.5	8	.1	389	2.5
140	30	.2	110	.7	151	1.0	53	.3	9	.1	353	2.3
150	46	.3	136	.9	201	1.3	44	.3	13	.1	440	2.8
160	44	.3	121	.8	209	1.3	59	.4	8	.1	441	2.8
170	40	.3	100	.6	173	1.1	117	.8	26	.2	456	2.9
180	60	.4	116	.7	250	1.6	204	1.3	40	.3	670	4.3
190	38	.2	117	.8	236	1.5	173	1.1	24	.2	588	3.8
200	26	.2	85	.5	175	1.1	93	.6	34	.2	413	2.7
210	49	.3	109	.7	156	1.0	73	.5	17	.1	404	2.6
220	40	.3	88	.6	114	.7	56	.4	9	.1	307	2.0
230	38	.2	77	.5	102	.7	70	.5	26	.2	313	2.0
240	48	.3	98	.6	95	.6	83	.5	29	.2	353	2.3
250	34	.2	70	.5	107	.7	136	.9	19	.1	366	2.4
260	23	.1	48	.3	96	.6	136	.9	45	.3	348	2.2
270	38	.2	59	.4	121	.8	183	1.2	105	.7	506	3.3
280	34	.2	61	.4	100	.6	229	1.5	124	.8	548	3.5
290	13	.1	39	.3	125	.8	281	1.8	158	1.0	616	4.0
300	42	.3	70	.5	149	1.0	272	1.8	212	1.4	745	4.8
310	31	.2	62	.4	147	.9	349	2.2	236	1.5	825	5.3
320	23	.1	63	.4	210	1.4	268	1.7	179	1.2	743	4.8
330	37	.2	112	.7	282	1.8	340	2.2	159	1.0	930	6.0
340	21	.1	128	.8	224	1.4	215	1.4	119	.8	707	4.6
350	23	.1	116	.7	160	1.0	113	.7	45	.3	457	2.9
360	53	.3	99	.6	137	.9	94	.6	38	.2	421	2.7
1504		9.7	3237	20.9	4856	31.3	4139	26.7	1784	11.5	15520	100.0
											MISSING HOURS 2024	
MEAN WIND SPEED 11												
3 744												

N-89

WIND ROSE FOR			STATION 12		ANNUAL, 2 YRS		LOCATION SAT.		TURBULENCE CLASS		2	
DIRECTION	0-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	20	.3	30	.5	20	.3	9	.1	1	.0	80	1.2
20	5	.1	27	.4	24	.4	4	.1	0	0.0	60	.9
30	6	.1	26	.4	17	.3	1	.0	0	0.0	50	.8
40	6	.1	9	.1	7	.1	1	.0	0	0.0	23	.3
50	6	.1	11	.2	4	.1	2	.0	0	0.0	23	.3
60	24	.4	21	.3	3	.0	1	.0	0	0.0	49	.7
70	26	.4	10	.2	3	.0	0	0.0	0	0.0	39	.6
80	11	.2	8	.1	2	.0	0	0.0	0	0.0	21	.3
90	21	.3	9	.1	2	.0	2	.0	0	0.0	34	.5
100	18	.3	19	.3	5	.1	0	0.0	0	0.0	42	.6
110	31	.5	24	.4	1	.0	1	.0	0	0.0	57	.9
120	43	.6	43	.6	25	.4	0	0.0	0	0.0	111	1.7
130	47	.7	56	.8	42	.6	5	.1	1	.0	151	2.3
140	23	.3	57	.9	42	.6	6	.1	0	0.0	128	1.9
150	58	.9	108	1.6	80	1.2	3	.0	0	0.0	249	3.7
160	37	.6	73	1.1	99	1.5	38	.6	1	.0	248	3.7
170	22	.3	46	.7	88	1.3	42	.6	3	.0	201	3.0
180	36	.5	39	.6	78	1.2	43	.6	13	.2	209	3.1
190	24	.4	28	.4	34	.5	10	.2	2	.0	98	1.5
200	12	.2	14	.2	7	.1	4	.1	0	0.0	37	.6
210	24	.4	23	.3	19	.3	5	.1	2	.0	73	1.1
220	11	.2	9	.1	19	.3	1	.0	1	.0	41	.6
230	3	.0	12	.2	10	.2	1	.0	0	0.0	26	.4
240	16	.2	17	.3	20	.3	2	.0	0	0.0	55	.8
250	9	.1	20	.3	14	.2	1	.0	0	0.0	44	.7
260	14	.2	17	.3	15	.2	1	.0	0	0.0	47	.7
270	31	.5	15	.2	17	.3	4	.1	0	0.0	67	1.0
280	15	.2	27	.4	28	.4	7	.1	0	0.0	77	1.2
290	10	.2	16	.2	35	.5	34	.5	1	.0	96	1.4
300	26	.4	22	.3	60	.9	40	.6	8	.1	156	2.3
310	16	.2	29	.4	47	.7	58	.9	24	.4	174	2.6
320	16	.2	24	.4	57	.9	47	.7	18	.3	162	2.4
330	31	.5	49	.7	59	.9	71	1.1	29	.4	239	3.6
340	30	.5	51	.8	56	.8	66	1.0	12	.2	215	3.2
350	7	.1	23	.3	29	.4	37	.6	6	.1	102	1.5
360	23	.3	35	.5	26	.4	14	.2	3	.0	101	1.5
758	11.4	1047	15.7	1094	16.4	561	8.4	125	1.9	3585	53.8	

MEAN WIND SPEED 8

PBAPS

WIND ROSE FOR STATION 12			ANNUAL, 2YRS		LOCATION SAT.		TURBULENCE CLASS		3	
					SPEEDS (MI/HR)					
					0-3		4-7		8-12	
					13-18		19 PLUS			
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	4	.1	0	0.0	1	.0	0	0.0	0	0.0
20	0	0.0	2	.0	0	0.0	0	0.0	0	0.0
30	3	.0	2	.0	0	0.0	0	0.0	0	0.0
40	3	.0	1	.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0
70	5	.1	0	0.0	0	0.0	0	0.0	0	0.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0
100	2	.0	0	0.0	0	0.0	0	0.0	0	0.0
110	1	.0	1	.0	0	0.0	0	0.0	0	0.0
120	4	.1	2	.0	0	0.0	0	0.0	0	0.0
130	3	.0	1	.0	0	0.0	0	0.0	0	0.0
140	2	.0	4	.1	1	.0	0	0.0	0	0.0
150	5	.1	7	.1	4	.1	0	0.0	0	0.0
160	3	.0	3	.0	0	0.0	0	0.0	0	0.0
170	5	.1	1	.0	1	.0	0	0.0	0	0.0
180	3	.0	1	.0	0	0.0	1	.0	0	0.0
190	2	.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	1	.0	0	0.0	0	0.0	0	0.0
210	2	.0	0	0.0	0	0.0	0	0.0	0	0.0
220	2	.0	0	0.0	1	.0	0	0.0	0	0.0
230	3	.0	0	0.0	0	0.0	0	0.0	0	0.0
240	5	.1	0	0.0	0	0.0	0	0.0	0	0.0
250	1	.0	1	.0	0	0.0	0	0.0	0	0.0
260	3	.0	1	.0	1	.0	0	0.0	0	0.0
270	1	.0	2	.0	0	0.0	0	0.0	0	0.0
280	2	.0	1	.0	0	0.0	0	0.0	0	0.0
290	2	.0	0	0.0	0	0.0	0	0.0	0	0.0
300	5	.1	1	.0	0	0.0	0	0.0	0	0.0
310	1	.0	5	.1	2	.0	2	.0	0	0.0
320	0	0.0	3	.0	5	.1	0	0.0	0	0.0
330	3	.0	5	.1	4	.1	0	0.0	0	0.0
340	1	.0	5	.1	3	.0	0	0.0	0	0.0
350	1	.0	4	.1	1	.0	0	0.0	0	0.0
360	7	.1	0	0.0	0	0.0	0	0.0	0	0.0
87	1.3		54	.8	24	.4	3	.0	0	0.0
MEAN WIND SPEED										4

WIND ROSE FOR STATION 12				ANNUAL, 2YRS		LOCATION SAT.		TURBULENCE CLASS		4							
		0-3		4-7		SPEEDS(MI/HR)				13-18		19 PLUS		SUM		PERCENT	
DIRECTION		SUM PERCENT		SUM PERCENT		8-12		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT	
10	1	.0	1	.0	4	.1	2	.0	4	.1	12	.2	5	.1	1	.0	
20	1	.0	2	.0	1	.0	1	.0	0	0.0	2	.0	1	.0	1	.0	
30	0	0.0	1	.0	0	0.0	1	.0	0	0.0	2	.0	1	.0	1	.0	
40	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	1	.0	1	.0	1	.0	
50	1	.0	0	0.0	1	.0	1	.0	0	0.0	3	.0	0	0.0	0	0.0	
60	0	0.0	2	.0	5	.1	2	.0	0	0.0	9	.1	0	0.0	0	0.0	
70	1	.0	0	0.0	2	.0	0	0.0	0	0.0	3	.0	0	0.0	0	0.0	
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	
100	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	
110	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	
120	2	.0	3	.0	3	.0	0	0.0	0	0.0	8	.1	2	.0	0	0.0	
130	1	.0	6	.1	2	.0	0	0.0	0	0.0	9	.1	0	0.0	0	0.0	
140	1	.0	2	.0	3	.0	0	0.0	0	0.0	6	.1	0	0.0	0	0.0	
150	1	.0	8	.1	4	.1	1	.0	0	0.0	14	.2	0	0.0	0	0.0	
160	4	.1	11	.2	12	.2	10	.2	0	0.0	37	.6	3	.0	0	0.0	
170	1	.0	6	.1	19	.3	13	.2	3	.0	42	.6	5	.1	0	0.0	
180	7	.1	9	.1	16	.2	28	.4	5	.1	65	1.0	0	0.0	0	0.0	
190	5	.1	2	.0	7	.1	3	.0	0	0.0	17	.3	0	0.0	0	0.0	
200	1	.0	1	.0	2	.0	5	.1	0	0.0	9	.1	0	0.0	0	0.0	
210	2	.0	2	.0	1	.0	3	.0	0	0.0	8	.1	0	0.0	0	0.0	
220	4	.1	1	.0	1	.0	0	0.0	0	0.0	6	.1	0	0.0	0	0.0	
230	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	
240	1	.0	5	.1	1	.0	0	0.0	0	0.0	7	.1	0	0.0	0	0.0	
250	4	.1	4	.1	1	.0	0	0.0	0	0.0	9	.1	0	0.0	0	0.0	
260	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0	0	0.0	0	0.0	
270	2	.0	4	.1	4	.1	1	.0	0	0.0	11	.2	0	0.0	0	0.0	
280	4	.1	3	.0	3	.0	0	0.0	0	0.0	10	.2	0	0.0	0	0.0	
290	0	0.0	7	.1	12	.2	3	.0	0	0.0	22	.4	0	0.0	0	0.0	
300	4	.1	9	.1	17	.3	8	.1	1	.0	39	.6	1	.0	0	0.0	
310	2	.0	4	.1	13	.2	25	.4	14	.2	58	.9	2	.0	0	0.0	
320	1	.0	8	.1	10	.2	33	.5	9	.1	61	.9	1	.0	0	0.0	
330	2	.0	3	.0	8	.1	6	.1	9	.1	28	.4	0	0.0	0	0.0	
340	1	.0	1	.0	7	.1	18	.3	12	.2	39	.6	0	0.0	0	0.0	
350	2	.0	1	.0	3	.0	8	.1	4	.1	18	.3	0	0.0	0	0.0	
360	1	.0	1	.0	5	.1	3	.0	0	0.0	10	.2	0	0.0	0	0.0	
59		.9	112	1.7	169	2.5	175	2.6	62	.9	577	8.7					
MEAN WIND SPEED		11															

PBAPS

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION SAT. TURBULENCE CLASS				5				
DIRECTION	0-3		4-7		SPEEDS (MI/HR)				19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12		13-18		SUM	PERCENT		
10	17	.3	4	.1	3	.0	0	0.0	0	0.0	24	.4
20	12	.2	5	.1	0	0.0	0	0.0	0	0.0	17	.3
30	19	.3	1	.0	0	0.0	0	0.0	0	0.0	20	.3
40	9	.1	2	.0	2	.0	0	0.0	0	0.0	13	.2
50	6	.1	0	0.0	0	0.0	0	0.0	0	0.0	6	.1
60	12	.2	4	.1	1	.0	0	0.0	0	0.0	17	.3
70	9	.1	0	0.0	0	0.0	0	0.0	0	0.0	9	.1
80	3	.0	0	0.0	1	.0	0	0.0	0	0.0	4	.1
90	14	.2	7	.1	0	0.0	0	0.0	0	0.0	21	.3
100	20	.3	4	.1	0	0.0	0	0.0	0	0.0	24	.4
110	13	.2	13	.2	2	.0	0	0.0	0	0.0	28	.4
120	17	.3	14	.2	4	.1	0	0.0	0	0.0	35	.5
130	24	.4	24	.4	9	.1	0	0.0	0	0.0	57	.9
140	33	.5	24	.4	10	.2	1	.0	0	0.0	68	1.0
150	44	.7	23	.3	2	.0	0	0.0	0	0.0	69	1.0
160	44	.7	33	.5	8	.1	0	0.0	0	0.0	85	1.3
170	26	.4	28	.4	18	.3	0	0.0	0	0.0	72	1.1
180	56	.8	37	.6	14	.2	0	0.0	0	0.0	107	1.6
190	60	.9	29	.4	3	.0	1	.0	0	0.0	93	1.4
200	31	.5	11	.2	4	.1	0	0.0	0	0.0	46	.7
210	42	.6	13	.2	2	.0	0	0.0	0	0.0	57	.9
220	34	.5	10	.2	0	0.0	0	0.0	0	0.0	44	.7
230	25	.4	11	.2	0	0.0	0	0.0	0	0.0	36	.5
240	65	1.0	11	.2	1	.0	0	0.0	0	0.0	77	1.2
250	50	.8	21	.3	1	.0	0	0.0	0	0.0	72	1.1
260	46	.7	10	.2	2	.0	0	0.0	0	0.0	58	.9
270	97	1.5	28	.4	1	.0	0	0.0	0	0.0	126	1.9
280	110	1.7	24	.4	0	0.0	0	0.0	0	0.0	134	2.0
290	79	1.2	21	.3	7	.1	0	0.0	0	0.0	107	1.6
300	118	1.8	37	.6	3	.0	1	.0	0	0.0	159	2.4
310	72	1.1	36	.5	15	.2	0	0.0	0	0.0	123	1.8
320	61	.9	32	.5	11	.2	5	.1	0	0.0	109	1.6
330	97	1.5	44	.7	8	.1	0	0.0	0	0.0	149	2.2
340	69	1.0	32	.5	3	.0	0	0.0	0	0.0	104	1.6
350	35	.5	11	.2	2	.0	0	0.0	0	0.0	48	.7
360	35	.5	9	.1	0	0.0	0	0.0	0	0.0	44	.7
1504	22.6		613	9.2	137	2.1	8	.1	0	0.0	2262	33.9
MEAN WIND SPEED 2												

WIND ROSE FOR STATION 12 ANNUAL, 2YRS				LOCATION SAT. ALL CLASSES								
DIRECTION	0-3		4-7		SPEEDS (MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	44	.7	35	.5	28	.4	11	.2	5	.1	123	1.8
20	19	.3	36	.5	25	.4	5	.1	0	0.0	85	1.3
30	30	.5	32	.5	17	.3	2	.0	0	0.0	81	1.2
40	21	.3	12	.2	9	.1	1	.0	1	.0	44	.7
50	13	.2	11	.2	5	.1	3	.0	0	0.0	32	.5
60	38	.6	27	.4	5	.1	3	.0	0	0.0	77	1.2
70	42	.6	10	.2	5	.1	0	0.0	0	0.0	57	.9
80	16	.2	8	.1	3	.0	0	0.0	0	0.0	27	.4
90	39	.6	17	.3	2	.0	2	.0	0	0.0	60	.9
100	42	.6	25	.4	5	.1	0	0.0	0	0.0	72	1.1
110	45	.7	39	.6	4	.1	1	.0	0	0.0	89	1.3
120	71	1.1	64	1.0	32	.5	0	0.0	0	0.0	167	2.5
130	77	1.2	88	1.3	53	.8	5	.1	1	.0	224	3.4
140	61	.9	87	1.3	56	.8	7	.1	0	0.0	211	3.2
150	110	1.7	148	2.2	90	1.4	4	.1	0	0.0	352	5.3
160	89	1.3	121	1.8	119	1.8	48	.7	1	.0	378	5.7
170	57	.9	83	1.2	126	1.9	55	.8	6	.1	327	4.9
180	105	1.6	86	1.3	108	1.6	72	1.1	18	.3	389	5.8
190	91	1.4	59	.9	44	.7	14	.2	2	.0	210	3.2
200	45	.7	27	.4	13	.2	9	.1	0	0.0	94	1.4
210	73	1.1	39	.6	22	.3	8	.1	2	.0	144	2.2
220	54	.8	20	.3	21	.3	1	.0	1	.0	97	1.5
230	33	.5	24	.4	10	.2	1	.0	0	0.0	68	1.0
240	87	1.3	33	.5	22	.3	2	.0	0	0.0	144	2.2
250	65	1.0	46	.7	16	.2	1	.0	0	0.0	128	1.9
260	64	1.0	29	.4	20	.3	1	.0	0	0.0	114	1.7
270	134	2.0	49	.7	24	.4	5	.1	0	0.0	212	3.2
280	131	2.0	55	.8	31	.5	7	.1	0	0.0	224	3.4
290	91	1.4	44	.7	54	.8	37	.6	1	.0	227	3.4
300	157	2.4	69	1.0	80	1.2	49	.7	9	.1	364	5.5
310	92	1.4	75	1.1	77	1.2	85	1.3	38	.6	367	5.5
320	78	1.2	67	1.0	83	1.2	85	1.3	27	.4	340	5.1
330	133	2.0	101	1.5	79	1.2	77	1.2	38	.6	428	6.4
340	102	1.5	89	1.3	69	1.0	84	1.3	24	.4	368	5.5
350	45	.7	39	.6	36	.5	45	.7	10	.2	175	2.6
360	68	1.0	46	.7	31	.5	17	.3	3	.0	165	2.5
2462	36.9		1840	27.6	1428	21.4	747	11.2	187	2.8	6664	100.0
MISSING HOURS 10880												
MEAN WIND SPEED 6												

PBAPS

Table N.3.1

Three-Year Annual Meteorology Summaries by Location,
Wind Direction, Wind Speed, and Turbulence Class

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

TURBULANCE CLASS
(100 FT)

1

SPEEDS (MI/HR)												
2-3			4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
20	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
30	9	.0	0	0.0	0	0.0	0	0.0	0	0.0	9	.0
40	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0
50	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
60	7	.0	1	.0	0	0.0	0	0.0	0	0.0	8	.0
70	3	.0	1	.0	0	0.0	1	0.0	0	0.0	4	.0
80	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
90	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
100	7	.0	0	0.0	0	0.0	0	0.0	0	0.0	7	.0
110	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
120	10	.0	2	.0	0	0.0	0	0.0	0	0.0	12	.1
130	16	.1	1	.0	0	0.0	0	0.0	0	0.0	17	.1
140	11	.0	0	0.0	0	0.0	0	0.0	0	0.0	11	.0
150	16	.1	0	0.0	0	0.0	0	0.0	0	0.0	16	.1
160	7	.0	3	.0	0	0.0	0	0.0	0	0.0	10	.0
170	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
180	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
260	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
270	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
280	6	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.0
290	4	.0	2	.0	0	0.0	0	0.0	0	0.0	6	.0
300	20	.1	8	.0	0	0.0	0	0.0	0	0.0	28	.1
310	19	.1	4	.0	0	0.0	1	0.0	0	0.0	24	.1
320	6	.0	3	.0	2	.0	0	0.0	0	0.0	11	.0
330	8	.0	4	.0	0	0.0	0	0.0	0	0.0	12	.0
340	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	12	.1	3	.0	0	0.0	0	0.0	0	0.0	15	.1
											237	1.0
											195	.9
											59	.2
											3	.0
											0	0.0
											0	0.0
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PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

TURBULANCE CLASS
(100 FT)

3

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	9	.0	5	.0	0	0.0	0	0.0	0	0.0	14	.1
20	7	.0	2	.0	0	0.0	0	0.0	0	0.0	9	.0
30	11	.0	4	.0	3	.0	0	0.0	0	0.0	18	.1
40	4	.0	0	0.0	1	.0	0	0.0	0	0.0	5	.0
50	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
60	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
70	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
80	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
90	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
100	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
110	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
120	16	.1	6	.0	0	0.0	0	0.0	0	0.0	22	.1
130	21	.1	13	.1	0	0.0	0	0.0	0	0.0	34	.1
140	12	.1	6	.0	0	0.0	0	0.0	0	0.0	18	.1
150	43	.2	5	.0	0	0.0	0	0.0	0	0.0	48	.2
160	31	.1	3	.0	0	0.0	0	0.0	0	0.0	34	.1
170	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	3	.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	2	.0	1	.0	1	.0	0	0.0	0	0.0	4	.0
280	3	.0	3	.0	1	.0	0	0.0	0	0.0	7	.0
290	4	.0	5	.0	0	0.0	0	0.0	0	0.0	9	.0
300	18	.1	22	.1	4	.0	0	0.0	0	0.0	44	.2
310	12	.1	19	.1	6	.0	0	0.0	0	0.0	44	.2
320	6	.0	13	.1	3	.0	0	0.0	0	0.0	22	.1
330	14	.1	9	.0	4	.0	0	0.0	0	0.0	27	.1
340	3	.0	6	.0	1	.0	0	0.0	0	0.0	10	.0
350	7	.0	5	.0	0	0.0	0	0.0	0	0.0	12	.1
360	5	.0	14	.1	0	0.0	0	0.0	0	0.0	19	.1
262	1.1		146	.6	25	.1	0	0.0	0	0.0	433	1.9

MEAN WIND SPEED 2

NUMBER OF CALM HRS 325

PERCENT CALM 1.5

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

TURBULANCE CLASS
(100 FT)

4

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	4	.0	4	.0	0	0.0	8	.0
20	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
30	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
60	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
70	0	0.0	0	0.0	0	0.0	3	.0	0	0.0	3	.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
110	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
120	2	.0	16	.1	3	.0	3	.0	5	.0	29	.1
130	11	.0	12	.1	3	.0	0	0.0	0	0.0	26	.1
140	17	.1	16	.1	2	.0	0	0.0	0	0.0	35	.2
150	38	.2	46	.2	1	.0	0	0.0	0	0.0	85	.4
160	35	.2	32	.1	7	.0	0	0.0	0	0.0	74	.3
170	4	.0	3	.0	0	0.0	0	0.0	0	0.0	7	.0
180	4	.0	7	.0	0	0.0	0	0.0	0	0.0	11	.0
190	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	2	.0
260	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
270	9	.0	0	0.0	4	.0	0	0.0	0	0.0	13	.0
280	30	.1	17	.1	11	.0	0	0.0	0	0.0	58	.3
290	31	.1	63	.3	20	.1	2	.0	0	0.0	116	.5
300	58	.3	228	1.0	197	.9	60	.3	2	.0	545	2.4
310	13	.1	138	.6	293	1.3	143	.6	5	.0	592	2.6
320	2	.0	31	.1	75	.3	37	.2	1	.0	146	.6
330	2	.0	24	.1	47	.2	28	.1	0	0.0	101	.4
340	0	0.0	18	.1	34	.1	10	.0	0	0.0	62	.3
350	3	.0	7	.0	10	.0	1	.0	0	0.0	21	.1
360	2	.0	4	.0	6	.0	3	.0	0	0.0	15	.1
269	1.2		669	2.9	720	3.1	296	1.3	13	.1	1967	8.6

MEAN WIND SPEED 7

NUMBER OF CALM HRS 123

PERCENT CALM .5

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

TURBULANCE CLASS
(100 FT)

9

SPEEDS (MI/HR)												
2-3			4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	11	.0	4	.0	5	.0	0	0.0	0	0.0	20	.1
20	6	.0	4	.0	1	.0	0	0.0	0	0.0	11	.0
30	2	.0	5	.0	1	.0	0	0.0	0	0.0	8	.0
40	6	.0	3	.0	0	0.0	2	.0	0	0.0	11	.0
50	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
60	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	3	.0
70	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
80	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
90	1	.0	5	.0	0	0.0	2	0.0	0	0.0	13	.1
100	1	.1	1	.0	0	0.0	0	0.0	0	0.0	19	.1
110	6	.0	0	0.0	1	.0	0	0.0	0	0.0	7	.0
120	10	.0	8	.0	0	0.0	0	0.0	0	0.0	18	.1
130	22	.1	8	.0	0	0.0	0	0.0	0	0.0	30	.1
140	13	.1	4	.0	0	0.0	0	0.0	0	0.0	17	.1
150	15	.1	2	.0	0	0.0	0	0.0	0	0.0	17	.1
160	14	.1	0	0.0	0	0.0	0	0.0	0	0.0	14	.1
170	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
180	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
220	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
250	15	.1	1	.0	0	0.0	0	0.0	0	0.0	16	.1
260	72	.3	3	.0	0	0.0	0	0.0	0	0.0	75	.3
270	155	.7	54	.2	0	0.0	0	0.0	0	0.0	209	.9
280	663	2.9	137	.6	0	0.0	0	0.0	0	0.0	800	3.5
290	351	1.5	90	.4	1	.0	0	0.0	0	0.0	442	1.9
300	125	.5	43	.2	1	.0	0	0.0	0	0.0	169	.7
310	27	.1	12	.1	2	.0	0	0.0	0	0.0	41	.2
320	6	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.0
330	10	.0	5	.0	0	0.0	0	0.0	0	0.0	15	.1
340	8	.0	5	.0	0	0.0	0	0.0	0	0.0	13	.1
350	5	.0	5	.0	0	0.0	0	0.0	0	0.0	10	.0
360	15	.1	15	.1	1	.0	0	0.0	0	0.0	31	.1
	1606	7.0	423	1.8	13	.1	2	.0	0	0.0	2044	8.9

MEAN WIND SPEED 1

NUMBER OF CALM HRS 5087

PERCENT CALM	22,2
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WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

ALL CLASSES

SPEEDS (MI/HR)												
2-3		4-7		8-12		13-18		19 PLUS		SUM		PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	112	.5	171	.7	92	.4	5	.0	0	0.0	380	1.7
20	45	.2	39	.4	28	.1	2	.0	0	0.0	164	.7
30	63	.3	59	.3	27	.1	1	.0	0	0.0	150	.7
40	43	.2	40	.2	11	.0	3	.0	0	0.0	97	.4
50	16	.1	31	.1	6	.0	1	.0	0	0.0	54	.2
60	38	.2	41	.2	7	.0	1	.0	0	0.0	87	.4
70	22	.1	10	.2	13	.1	12	.1	0	0.0	87	.4
80	20	.1	15	.1	13	.1	2	.0	0	0.0	60	.3
90	60	.3	57	.2	9	.0	1	.0	0	0.0	127	.6
100	76	.3	49	.2	13	.1	1	.0	0	0.0	139	.6
110	64	.3	64	.3	24	.1	2	.0	0	0.0	154	.7
120	141	.6	142	.6	35	.2	5	.0	8	.0	331	1.4
130	273	1.2	164	.7	17	.1	6	.0	0	0.0	460	2.0
140	264	1.2	102	.4	6	.0	2	.0	0	0.0	374	1.6
150	422	1.8	127	.6	2	.0	0	0.0	0	0.0	551	2.4
160	335	1.5	71	.3	7	.0	0	0.0	0	0.0	413	1.8
170	64	.3	10	.0	0	0.0	0	0.0	0	0.0	74	.3
180	41	.2	16	.1	0	0.0	0	0.0	0	0.0	57	.2
190	12	.1	3	.0	0	0.0	0	0.0	0	0.0	15	.1
200	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
210	9	.0	1	.0	1	.0	0	0.0	0	0.0	11	.0
220	17	.1	2	.0	1	.0	0	0.0	0	0.0	20	.1
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	14	.1	2	.0	1	.0	0	0.0	0	0.0	17	.1
250	25	.1	5	.0	0	0.0	0	0.0	0	0.0	30	.1
260	97	.4	14	.1	1	.0	0	0.0	0	0.0	112	.5
270	286	1.2	110	.5	5	.0	0	0.0	0	0.0	401	1.7
280	1090	4.8	266	1.2	18	.1	0	0.0	0	0.0	1374	6.0
290	822	3.6	450	2.0	50	.2	11	.0	0	0.0	1333	5.8
300	595	2.6	1081	4.7	481	2.1	104	.5	3	.0	2264	9.9
310	218	1.0	639	2.8	659	2.9	195	.9	5	.0	1716	7.5
320	71	.3	222	1.0	220	1.0	40	.2	1	.0	554	2.4
330	94	.4	220	1.0	159	.7	43	.2	0	0.0	516	2.3
340	71	.3	194	.8	167	.7	27	.1	1	.0	460	2.0
350	72	.3	196	.9	150	.7	17	.1	0	0.0	435	1.9
360	129	.6	211	.9	124	.5	14	.1	0	0.0	478	2.1
	5724	25.0	4915	21.4	2347	10.2	495	2.2	18	.1	13499	58.1

MISSING HOURS 3386

MEAN WIND SPEED 3

TOTAL NUMBER OF CALM HRS 9419

PERCENT CALM	41.1
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PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FY

TURBULANCE CLASS
(100 FT)

		SPEEDS (MI/HR)											
		2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
10	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0	
20	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0	
30	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0	
40	8	.0	0	0.0	0	0.0	0	0.0	0	0.0	8	.0	
50	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0	
60	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0	
70	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0	
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
90	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0	
100	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0	
110	3	.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0	
120	12	.1	2	.0	0	0.0	0	0.0	0	0.0	14	.1	
130	26	.1	3	.0	0	0.0	0	0.0	0	0.0	29	.1	
140	10	.0	0	0.0	0	0.0	0	0.0	0	0.0	10	.0	
150	19	.1	3	.0	0	0.0	0	0.0	0	0.0	22	.1	
160	11	.1	3	.0	0	0.0	0	0.0	0	0.0	14	.1	
170	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0	
180	8	.0	1	.0	0	0.0	0	0.0	0	0.0	9	.0	
190	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0	
200	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0	
210	6	.0	3	.0	0	0.0	0	0.0	0	0.0	9	.0	
220	7	.0	2	.0	0	0.0	0	0.0	0	0.0	9	.0	
230	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0	
240	7	.0	5	.0	0	0.0	0	0.0	0	0.0	12	.1	
250	13	.1	6	.0	0	0.0	0	0.0	0	0.0	19	.1	
260	2	.0	3	.0	0	0.0	0	0.0	0	0.0	5	.0	
270	16	.1	12	.1	0	0.0	0	0.0	0	0.0	28	.1	
280	9	.0	8	.0	0	0.0	0	0.0	0	0.0	17	.1	
290	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0	
300	13	.1	2	.0	0	0.0	0	0.0	0	0.0	15	.1	
310	8	.0	7	.0	0	0.0	0	0.0	0	0.0	15	.1	
320	6	.0	3	.0	2	.0	0	0.0	0	0.0	11	.1	
330	5	.0	5	.0	1	.0	0	0.0	0	0.0	11	.1	
340	5	.0	2	.0	0	0.0	0	0.0	0	0.0	7	.0	
350	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0	
360	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0	
	242	1.2	79	.4	3	.0	0	0.0	0	0.0	324	1.2	

MEAN WIND SPEED .. 1

NUMBER OF CALM HRS 357

PERCENT CALM

1.7

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

TURBULANCE CLASS
(100 FT)

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	29	.1	91	.4	71	.3	23	.1	2	.0	216	1.1
20	33	.2	57	.3	62	.3	26	.1	3	.0	183	.9
30	26	.1	63	.3	67	.3	17	.1	0	0.0	173	.8
40	19	.1	49	.2	44	.2	11	.1	6	.0	129	.6
50	20	.1	35	.2	28	.1	4	.0	0	0.0	87	.4
60	20	.1	43	.2	26	.1	6	.0	0	0.0	101	.5
70	31	.2	39	.2	26	.1	5	.0	1	.0	102	.5
80	11	.1	36	.2	32	.2	12	.1	1	.0	92	.4
90	30	.1	34	.2	30	.1	13	.1	1	.0	108	.5
100	52	.3	54	.3	27	.1	9	.0	1	.0	143	.7
110	46	.2	85	.4	32	.2	16	.1	8	.0	187	.9
120	130	.6	195	1.0	99	.5	20	.1	4	.0	448	2.2
130	193	.9	247	1.2	112	.5	14	.1	0	0.0	566	2.8
140	116	.6	136	.7	50	.2	6	.0	0	0.0	308	1.5
150	175	.9	153	.7	54	.3	7	.0	0	0.0	389	1.9
160	97	.5	98	.5	25	.1	4	.0	0	0.0	224	1.1
170	65	.3	67	.3	27	.1	1	.0	0	0.0	160	.8
180	65	.3	72	.4	27	.1	10	.0	0	0.0	174	.9
190	65	.3	68	.3	20	.1	4	.0	0	0.0	157	.8
200	29	.1	36	.2	1	.0	0	0.0	0	0.0	66	.3
210	25	.1	16	.1	1	.0	0	0.0	0	0.0	42	.2
220	25	.1	16	.1	4	.0	0	0.0	0	0.0	45	.2
230	35	.2	32	.2	1	.0	0	0.0	0	0.0	68	.3
240	57	.3	95	.5	5	.0	1	.0	0	0.0	158	.8
250	90	.4	203	1.0	16	.1	0	0.0	0	0.0	309	1.5
260	78	.4	191	.9	42	.2	13	.1	0	0.0	324	1.6
270	94	.5	240	1.1	94	.5	22	.1	0	0.0	440	2.2
280	102	.5	279	1.4	194	.9	48	.2	0	0.0	623	3.0
290	84	.4	222	1.1	186	.9	45	.2	7	.0	544	2.7
300	86	.4	265	1.3	202	1.0	42	.2	2	.0	597	2.9
310	87	.4	242	1.2	204	1.0	51	.2	1	.0	585	2.9
320	42	.2	174	.9	173	.8	51	.2	0	0.0	440	2.2
330	52	.3	196	1.0	211	1.0	74	.4	1	.0	534	2.6
340	39	.2	156	.8	205	1.0	88	.4	6	.0	494	2.4
350	37	.2	139	.7	129	.6	47	.2	1	.0	353	1.7
360	35	.2	128	.6	104	.5	37	.2	1	.0	305	1.5
	2220	10.9	4250	20.8	2631	12.9	727	3.6	46	.2	9874	48.3

MEAN WIND SPEED 5

NUMBER OF CALM HRS 1115

PERCENT CALM

5,5

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

TURBULANCE CLASS
(100 FT)

3

DIRECTION	SPEEDS(MI/HR)					SUM	PERCENT
	2-3	4-7	8-12	13-18	19 PLUS		
10	3	4	3	0	0	10	.0
20	2	2	0	0	0	4	.0
30	6	2	0	0	0	8	.0
40	6	3	0	0	0	9	.0
50	3	1	0	0	0	4	.0
60	3	2	0	0	0	5	.0
70	1	1	0	0	0	2	.0
80	1	0	0	0	0	1	.0
90	5	2	0	0	0	7	.0
100	3	3	0	0	0	6	.0
110	3	0	0	0	0	3	.0
120	8	5	0	0	0	13	.1
130	27	24	1	0	0	52	.3
140	12	16	1	0	0	29	.1
150	28	25	3	0	0	56	.3
160	14	5	0	0	0	19	.1
170	5	10	0	0	0	15	.1
180	7	12	0	0	0	19	.1
190	8	3	0	0	0	11	.1
200	0	5	0	0	0	5	.0
210	3	3	0	0	0	6	.0
220	4	4	1	0	0	9	.0
230	0	1	0	0	0	1	.0
240	7	7	0	0	0	14	.1
250	7	8	2	0	0	17	.1
260	6	2	3	2	0	13	.1
270	6	10	4	1	0	21	.1
280	14	21	6	0	0	41	.2
290	5	6	2	0	0	13	.1
300	7	11	6	2	0	26	.1
310	12	5	3	0	0	20	.1
320	2	6	2	0	0	10	.0
330	8	16	1	0	0	25	.1
340	10	6	0	0	0	16	.1
350	2	6	2	0	0	10	.0
360	3	1	2	0	0	6	.0
	241	238	42	5	0	526	2.6

MEAN WIND SPEED 3.

NUMBER OF CALM HRS 192

PERCENT CALM

.9

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

TURBULANCE CLASS
(100 FT)

4

DIRECTION	SPEEDS(MI/HR)					SUM	PERCENT
	2-3	4-7	8-12	13-18	19 PLUS		
10	0	2	13	15	0	30	.1
20	0	0	11	6	4	21	.0
30	0	0	8	16	3	27	.1
40	0	0	0	1	0	1	.0
50	0	0	1	8	0	9	.0
60	0	5	0	4	0	9	.0
70	0	2	0	1	0	3	.0
80	0	0	0	1	10	11	.1
90	0	0	0	0	0	0	.0
100	0	0	0	0	3	3	.0
110	0	0	2	5	0	7	.0
120	1	8	23	8	0	40	.2
130	6	36	41	10	0	93	.5
140	8	22	10	2	2	44	.2
150	6	6	13	1	0	26	.1
160	0	2	2	1	1	6	.0
170	0	6	4	3	3	16	.1
180	0	9	17	9	0	35	.2
190	0	7	11	0	0	18	.1
200	0	1	4	1	0	6	.0
210	2	2	6	1	0	11	.1
220	6	6	4	0	0	16	.1
230	1	1	1	0	0	3	.0
240	5	15	2	0	0	22	.1
250	1	35	24	1	0	61	.3
260	0	15	28	18	1	62	.3
270	3	26	32	28	0	89	.4
280	0	19	51	35	2	107	.5
290	0	41	92	79	14	226	1.1
300	1	22	104	63	19	209	1.0
310	0	29	113	54	8	204	1.0
320	0	10	38	47	11	106	.5
330	0	12	70	54	6	142	.7
340	0	4	34	40	27	105	.5
350	0	5	28	35	0	68	.3
360	0	4	20	41	0	65	.3
	40	352	807	588	114	1901	9.3

MEAN WIND SPEED 11

NUMBER OF CALM HRS 23

PERCENT CALM

.1

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

TURBULANCE CLASS
(100 FT)

5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	11	.1	6	.0	0	0.0	0	0.0	0	0.0	17	.1
20	11	.1	1	.0	1	0.0	0	0.0	0	0.0	13	.1
30	13	.1	2	.0	0	0.0	0	0.0	0	0.0	15	.1
40	11	.1	9	.0	0	0.0	0	0.0	0	0.0	20	.1
50	7	.0	2	.0	0	0.0	0	0.0	0	0.0	9	.0
60	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
70	8	.0	2	.0	0	0.0	0	0.0	0	0.0	10	.0
80	10	.0	2	.0	0	0.0	0	0.0	0	0.0	12	.1
90	10	.0	2	.0	0	0.0	0	0.0	0	0.0	12	.1
100	16	.1	5	.0	0	0.0	0	0.0	0	0.0	21	.1
110	10	.0	4	.0	0	0.0	0	0.0	0	0.0	14	.1
120	24	.1	5	.0	0	0.0	0	0.0	0	0.0	29	.1
130	29	.1	5	.0	0	0.0	0	0.0	0	0.0	34	.2
140	28	.1	7	.0	2	0.0	0	0.0	0	0.0	37	.2
150	37	.2	14	.1	1	0.0	0	0.0	0	0.0	52	.3
160	26	.1	5	.0	2	0.0	0	0.0	0	0.0	33	.2
170	19	.1	5	.0	0	0.0	0	0.0	0	0.0	24	.1
180	20	.1	3	.0	0	0.0	0	0.0	0	0.0	23	.1
190	19	.1	7	.0	1	0.0	2	0.0	0	0.0	27	.1
200	12	.1	4	.0	0	0.0	0	0.0	0	0.0	16	.1
210	8	.0	1	.0	1	0.0	0	0.0	0	0.0	10	.0
220	42	.2	5	.0	0	0.0	0	0.0	0	0.0	47	.2
230	26	.1	7	.0	0	0.0	0	0.0	0	0.0	33	.2
240	53	.3	25	.1	0	0.0	0	0.0	0	0.0	78	.4
250	91	.4	53	.3	1	0.0	2	0.0	0	0.0	145	.7
260	103	.5	75	.4	8	0.0	0	0.0	0	0.0	186	.9
270	98	.5	59	.3	4	0.0	0	0.0	0	0.0	161	.8
280	85	.4	48	.2	5	0.0	0	0.0	0	0.0	138	.7
290	51	.2	47	.2	3	0.0	0	0.0	0	0.0	101	.5
300	28	.1	29	.1	2	0.0	0	0.0	0	0.0	59	.3
310	35	.2	19	.1	0	0.0	0	0.0	0	0.0	54	.3
320	14	.1	3	.0	0	0.0	0	0.0	0	0.0	17	.1
330	16	.1	10	.0	1	0.0	0	0.0	0	0.0	27	.1
340	13	.1	6	.0	1	0.0	0	0.0	0	0.0	20	.1
350	4	.0	9	.0	1	0.0	0	0.0	0	0.0	14	.1
360	18	.1	6	.0	1	0.0	0	0.0	0	0.0	25	.1
1012	4.9		492	2.4	35	.2	0	0.0	0	0.0	1539	7.5

MEAN WIND SPEED 1

NUMBER OF CALM HRS 4601

PERCENT CALM 22.5

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

ALL CLASSES

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	47	.2	103	.5	87	.4	38	.2	2	.0	277	1.4
20	48	.2	62	.3	74	.4	32	.2	7	.0	223	1.1
30	49	.2	68	.3	75	.4	33	.2	3	.0	228	1.1
40	44	.2	61	.3	44	.2	12	.1	6	.0	167	.8
50	32	.2	39	.2	29	.1	12	.1	0	0.0	112	.5
60	30	.1	57	.3	26	.1	10	.0	0	0.0	123	.6
70	43	.2	44	.2	26	.1	6	.0	1	.0	120	.6
80	22	.1	38	.2	32	.2	13	.1	11	.1	116	.6
90	47	.2	38	.2	30	.1	13	.1	1	.0	129	.6
100	76	.4	63	.3	27	.1	9	.0	4	.0	179	.9
110	62	.3	91	.4	34	.2	21	.1	8	.0	216	1.1
120	175	.9	215	1.1	122	.6	28	.1	4	.0	544	2.7
130	281	1.4	315	1.5	154	.8	24	.1	0	0.0	774	3.8
140	174	.9	181	.9	63	.3	8	.0	2	.0	428	2.1
150	265	1.3	201	1.0	71	.3	8	.0	0	0.0	545	2.7
160	146	.7	113	.6	29	.1	5	.0	1	.0	296	1.4
170	94	.5	89	.4	31	.2	4	.0	3	.0	221	1.1
180	100	.5	97	.5	44	.2	19	.1	0	0.0	260	1.3
190	98	.5	85	.4	32	.2	4	.0	0	0.0	219	1.1
200	43	.2	46	.2	5	.0	1	.0	0	0.0	95	.5
210	44	.2	25	.1	8	.0	1	.0	0	0.0	78	.4
220	84	.4	33	.2	9	.0	0	0.0	0	0.0	126	.6
230	64	.3	42	.2	2	.0	0	0.0	0	0.0	108	.5
240	129	.6	147	.7	7	.0	1	.0	0	0.0	284	1.4
250	202	1.0	305	1.5	43	.2	1	.0	0	0.0	551	2.7
260	189	.9	286	1.4	81	.4	33	.2	1	.0	590	2.9
270	217	1.1	337	1.6	134	.7	51	.2	0	0.0	739	3.6
280	210	1.0	375	1.8	256	1.3	83	.4	2	.0	926	4.5
290	143	.7	317	1.5	283	1.4	124	.6	21	.1	888	4.3
300	135	.7	329	1.6	314	1.5	107	.5	21	.1	906	4.4
310	142	.7	302	1.5	320	1.6	105	.5	9	.0	878	4.3
320	64	.3	126	.6	215	1.1	99	.5	11	.1	584	2.9
330	81	.4	239	1.2	284	1.4	128	.6	7	.0	739	3.6
340	67	.3	174	.9	240	1.2	128	.6	33	.2	642	3.1
350	45	.2	159	.8	160	.8	82	.4	1	.0	447	2.2
360	61	.3	139	.7	127	.6	78	.4	1	.0	406	2.0
3755	18.4		5411	25.5	3518	17.2	1320	6.5	160	.8	14164	69.3

MISSING HOURS 5852

MEAN WIND SPEED 4

TOTAL NUMBER OF CALM HRS 6288

PERCENT CALM 30.7

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

TURBULANCE CLASS
(100 FT)

1

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	5	.0	1	.0	2	.0	0	0.0	0	0.0	8	.0
20	2	.0	5	.0	1	.0	0	0.0	0	0.0	8	.0
30	6	.0	4	.0	3	.0	0	0.0	1	.0	14	.1
40	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0
50	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
60	8	.0	6	.0	0	0.0	0	0.0	0	0.0	14	.1
70	3	.0	4	.0	0	0.0	0	0.0	0	0.0	7	.0
80	3	.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0
90	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.0
100	2	.0	5	.0	1	.0	0	0.0	0	0.0	8	.0
110	2	.0	1	.0	1	.0	0	0.0	0	0.0	4	.0
120	5	.0	5	.0	2	.0	0	0.0	0	0.0	12	.1
130	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.0
140	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.0
150	2	.0	3	.0	2	.0	0	0.0	0	0.0	7	.0
160	2	.0	7	.0	1	.0	1	.0	0	0.0	11	.1
170	1	.0	10	.1	4	.0	0	0.0	0	0.0	15	.1
180	6	.0	13	.1	3	.0	3	.0	0	0.0	25	.1
190	8	.0	18	.1	3	.0	0	0.0	0	0.0	29	.1
200	2	.0	12	.1	3	.0	4	.0	0	0.0	21	.1
210	6	.0	21	.1	4	.0	4	.0	0	0.0	35	.2
220	10	.1	18	.1	5	.0	8	.0	0	0.0	41	.2
230	11	.1	5	.0	0	0.0	2	.0	0	0.0	18	.1
240	7	.0	11	.1	1	.0	1	.0	0	0.0	20	.1
250	6	.0	3	.0	0	0.0	0	0.0	0	0.0	9	.0
260	3	.0	5	.0	1	.0	0	0.0	0	0.0	9	.0
270	2	.0	2	.0	1	.0	0	0.0	0	0.0	5	.0
280	2	.0	3	.0	0	0.0	0	0.0	0	0.0	5	.0
290	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
300	5	.0	4	.0	0	0.0	0	0.0	0	0.0	9	.0
310	5	.0	2	.0	0	0.0	0	0.0	0	0.0	7	.0
320	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
330	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0
340	3	.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0
350	4	.0	2	.0	2	.0	0	0.0	0	0.0	8	.0
360	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
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	145	.7	181	.9	43	.2	25	.1	1	.0	395	2.0

MEAN WIND SPEED 3

NUMBER OF CALM HRS 175

PERCENT CALM

.9

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

TURBULANCE CLASS
(100 FT)

2

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	33	.2	85	.5	48	.2	20	.1	3	.0	192	1.0
20	30	.2	100	.6	32	.2	7	.0	2	.0	180	.9
30	35	.2	112	.6	27	.1	9	.0	3	.0	186	1.0
40	34	.2	88	.5	30	.2	8	.0	4	.0	164	.8
50	47	.2	77	.4	54	.3	31	.2	1	.0	207	1.1
60	44	.2	71	.4	54	.3	18	.1	5	.0	192	1.0
70	56	.3	75	.4	43	.2	22	.1	3	.0	203	1.0
80	59	.3	97	.5	54	.3	16	.1	5	.0	231	1.2
90	81	.4	116	.6	69	.4	20	.1	1	.0	287	1.5
100	68	.3	102	.5	36	.2	17	.1	0	0.0	223	1.1
110	91	.5	143	.7	51	.3	10	.1	3	.0	298	1.5
120	89	.5	156	.8	45	.2	4	.0	0	0.0	294	1.5
130	70	.4	100	.5	47	.2	2	.0	0	0.0	219	1.1
140	64	.3	104	.5	62	.3	8	.0	0	0.0	238	1.2
150	64	.3	94	.5	74	.4	16	.1	0	0.0	248	1.3
160	70	.4	91	.5	71	.4	31	.2	0	0.0	263	1.4
170	61	.3	94	.5	52	.3	21	.1	0	0.0	228	1.2
180	50	.3	143	.7	32	.2	15	.1	0	0.0	240	1.2
190	47	.2	110	.6	42	.2	12	.1	0	0.0	211	1.1
200	43	.2	97	.5	33	.2	9	.0	0	0.0	182	.9
210	48	.2	94	.5	53	.3	20	.1	1	.0	216	1.1
220	42	.2	113	.6	59	.3	33	.2	2	.0	249	1.3
230	49	.3	106	.5	79	.4	47	.2	6	.0	287	1.5
240	96	.5	154	.8	87	.4	46	.2	6	.0	389	2.0
250	120	.6	176	.9	67	.3	7	.0	4	.0	374	1.9
260	88	.5	140	.7	43	.2	6	.0	0	0.0	267	1.4
270	91	.5	177	.9	110	.6	19	.1	0	0.0	397	2.0
280	78	.4	177	.9	98	.5	31	.2	0	0.0	384	2.0
290	58	.3	163	.8	82	.4	20	.1	0	0.0	323	1.7
300	77	.4	184	.9	107	.6	20	.1	0	0.0	388	2.0
310	67	.3	99	.5	57	.3	10	.1	1	.0	234	1.2
320	40	.2	83	.4	34	.2	2	.0	0	0.0	159	.8
330	55	.3	126	.6	58	.3	8	.0	2	.0	249	1.3
340	63	.3	131	.7	71	.4	11	.1	0	0.0	276	1.4
350	42	.2	123	.6	73	.4	12	.1	1	.0	251	1.3
360	41	.2	142	.7	118	.6	24	.1	3	.0	328	1.7
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	2191	11.3	4246	21.8	2152	11.1	612	3.1	56	.3	9257	47.6

MEAN WIND SPEED 5

NUMBER OF CALM HRS 1206

PERCENT CALM

6.2

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

TURBULANCE CLASS
(100 FT)

3

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	3	.0	7	.0	0	0.0	0	0.0	1	.0	11	.1
20	3	.0	5	.0	1	.0	1	.0	0	0.0	10	.1
30	6	.0	8	.0	3	.0	0	0.0	0	0.0	17	.1
40	6	.0	6	.0	1	.0	1	.0	0	0.0	14	.1
50	4	.0	9	.0	1	.0	1	.0	2	.0	17	.1
60	4	.0	7	.0	3	.0	3	.0	0	0.0	17	.1
70	4	.0	3	.0	1	.0	0	0.0	0	0.0	8	.0
80	5	.0	3	.0	3	.0	0	0.0	0	0.0	11	.1
90	2	.0	4	.0	0	0.0	0	0.0	0	0.0	6	.0
100	6	.0	5	.0	3	.0	0	0.0	0	0.0	14	.1
110	2	.0	4	.0	0	0.0	0	0.0	0	0.0	6	.0
120	3	.0	2	.0	1	.0	0	0.0	0	0.0	6	.0
130	4	.0	4	.0	2	.0	0	0.0	0	0.0	10	.1
140	5	.0	4	.0	1	.0	1	.0	0	0.0	11	.1
150	3	.0	6	.0	2	.0	0	0.0	0	0.0	11	.1
160	2	.0	13	.1	7	.0	10	.1	0	0.0	32	.2
170	3	.0	12	.1	19	.1	1	.0	0	0.0	35	.2
180	7	.0	15	.1	3	.0	0	0.0	0	0.0	25	.1
190	7	.0	22	.1	15	.1	2	.0	0	0.0	46	.2
200	3	.0	10	.1	6	.0	0	0.0	0	0.0	19	.1
210	5	.0	17	.1	2	.0	1	.0	0	0.0	25	.1
220	3	.0	9	.0	3	.0	0	0.0	0	0.0	15	.1
230	5	.0	9	.0	7	.0	0	0.0	0	0.0	21	.1
240	15	.1	13	.1	3	.0	0	0.0	0	0.0	31	.2
250	4	.0	10	.1	1	.0	0	0.0	0	0.0	15	.1
260	3	.0	3	.0	1	.0	0	0.0	0	0.0	7	.0
270	3	.0	4	.0	1	.0	0	0.0	0	0.0	8	.0
280	3	.0	5	.0	3	.0	0	0.0	0	0.0	11	.1
290	2	.0	4	.0	2	.0	0	0.0	0	0.0	8	.0
300	1	.0	5	.0	5	.0	0	0.0	0	0.0	11	.1
310	2	.0	3	.0	1	.0	0	0.0	0	0.0	6	.0
320	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
330	2	.0	7	.0	3	.0	1	.0	0	0.0	13	.1
340	3	.0	5	.0	1	.0	0	0.0	0	0.0	9	.0
350	6	.0	5	.0	3	.0	1	.0	0	0.0	15	.1
360	5	.0	6	.0	1	.0	1	.0	0	0.0	13	.1
144		.7	255	1.3	110	.6	24	.1	3	.0	536	2.8

MEAN WIND SPEED 5

NUMBER OF CALM HRS 98

PERCENT CALM .5

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

TURBULANCE CLASS
(100 FT)

4

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	0	0.0	6	.0	8	.0	2	.0	1	.0	17	.1
20	0	0.0	4	.0	6	.0	2	.0	0	0.0	12	.1
30	0	0.0	6	.0	7	.0	1	.0	2	.0	16	.1
40	0	0.0	5	.0	8	.0	2	.0	1	.0	16	.1
50	0	0.0	6	.0	10	.1	6	.0	0	0.0	22	.1
60	0	0.0	2	.0	12	.1	7	.0	0	0.0	21	.1
70	0	0.0	2	.0	9	.0	1	.0	2	.0	14	.1
80	0	0.0	3	.0	19	.1	18	.1	3	.0	43	.2
90	0	0.0	11	.1	19	.1	22	.1	3	.0	55	.3
100	10	.1	20	.1	16	.1	16	.1	1	.0	63	.3
110	4	.0	25	.1	24	.1	10	.1	2	.0	65	.3
120	7	.0	19	.1	25	.1	10	.1	0	0.0	61	.3
130	1	.0	14	.1	12	.1	2	.0	0	0.0	29	.1
140	0	0.0	10	.1	12	.1	2	.0	0	0.0	24	.1
150	2	.0	9	.0	6	.0	7	.0	1	.0	25	.1
160	1	.0	5	.0	7	.0	6	.0	1	.0	20	.1
170	2	.0	9	.0	11	.1	1	.0	0	0.0	23	.1
180	1	.0	14	.1	9	.0	6	.0	4	.0	34	.2
190	1	.0	14	.1	16	.1	11	.1	1	.0	43	.2
200	0	0.0	3	.0	5	.0	6	.0	0	0.0	14	.1
210	4	.0	9	.0	7	.0	8	.0	0	0.0	28	.1
220	5	.0	10	.1	9	.0	14	.1	4	.0	42	.2
230	4	.0	11	.1	17	.1	17	.1	13	.1	62	.3
240	11	.1	38	.2	44	.2	35	.2	0	0.0	128	.7
250	11	.1	40	.2	20	.1	11	.1	0	0.0	82	.4
260	6	.0	30	.2	24	.1	9	.0	0	0.0	69	.4
270	4	.0	37	.2	57	.3	25	.1	7	.0	130	.7
280	7	.0	51	.3	57	.3	18	.1	1	.0	134	.7
290	5	.0	44	.2	40	.2	13	.1	5	.0	107	.6
300	8	.0	40	.2	47	.2	23	.1	0	0.0	118	.6
310	3	.0	22	.1	31	.2	8	.0	0	0.0	64	.3
320	1	.0	26	.1	7	.0	3	.0	0	0.0	37	.2
330	2	.0	39	.2	20	.1	2	.0	0	0.0	63	.3
340	2	.0	17	.1	31	.2	6	.0	0	0.0	56	.3
350	0	0.0	12	.1	23	.1	4	.0	0	0.0	39	.2
360	1	.0	3	.0	15	.1	8	.0	3	.0	30	.2
103		.5	616	3.2	690	3.5	342	1.8	55	.3	1806	9.3

MEAN WIND SPEED 9

NUMBER OF CALM HRS 17

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

TURBULANCE CLASS
(100 FT)

5

DIRECTION	2-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	10	.1	8	.0	0	0.0	0	0.0	0	0.0	18	.1
20	24	.1	20	.1	3	0.0	0	0.0	0	0.0	47	.2
30	21	.1	26	.1	3	0.0	0	0.0	0	0.0	50	.3
40	21	.1	14	.1	5	0.0	0	0.0	0	0.0	40	.2
50	38	.2	10	.1	0	0.0	0	0.0	0	0.0	48	.2
60	28	.1	14	.1	1	0.0	0	0.0	1	.0	44	.2
70	27	.1	9	.0	0	0.0	0	0.0	0	0.0	36	.2
80	35	.2	15	.1	1	0.0	0	0.0	0	0.0	51	.3
90	49	.3	8	.0	2	0.0	1	.0	0	0.0	60	.3
100	33	.2	18	.1	0	0.0	0	0.0	0	0.0	51	.3
110	45	.2	32	.2	1	0.0	0	0.0	0	0.0	78	.4
120	37	.2	21	.1	0	0.0	0	0.0	0	0.0	58	.3
130	33	.2	8	.0	0	0.0	0	0.0	0	0.0	41	.2
140	18	.1	10	.1	1	0.0	0	0.0	0	0.0	29	.1
150	39	.2	14	.1	3	0.0	0	0.0	0	0.0	56	.3
160	45	.2	23	.1	2	0.0	0	0.0	0	0.0	70	.4
170	44	.2	20	.1	5	0.0	0	0.0	0	0.0	69	.4
180	48	.2	17	.1	3	0.0	0	0.0	0	0.0	68	.3
190	52	.3	34	.2	1	0.0	0	0.0	0	0.0	87	.4
200	43	.2	41	.2	1	0.0	0	0.0	0	0.0	85	.4
210	60	.3	30	.2	0	0.0	0	0.0	0	0.0	90	.5
220	59	.3	27	.1	0	0.0	0	0.0	0	0.0	86	.4
230	59	.3	17	.1	6	0.0	0	0.0	0	0.0	82	.4
240	66	.3	35	.2	1	0.0	0	0.0	0	0.0	122	.6
250	120	.6	44	.2	1	0.0	0	0.0	0	0.0	165	.8
260	78	.4	32	.2	1	0.0	0	0.0	0	0.0	111	.6
270	57	.3	17	.1	1	0.0	0	0.0	0	0.0	75	.4
280	50	.3	10	.1	1	0.0	0	0.0	0	0.0	61	.3
290	34	.2	15	.1	1	0.0	0	0.0	0	0.0	50	.3
300	29	.1	17	.1	0	0.0	0	0.0	0	0.0	46	.2
310	12	.1	9	.0	4	0.0	0	0.0	0	0.0	25	.1
320	9	.0	1	.0	1	0.0	0	0.0	0	0.0	11	.1
330	25	.1	6	.0	2	0.0	0	0.0	0	0.0	33	.2
340	14	.1	8	.0	1	0.0	0	0.0	0	0.0	23	.1
350	8	.0	11	.1	4	0.0	0	0.0	0	0.0	23	.1
360	13	.1	15	.1	3	0.0	0	0.0	0	0.0	31	.2
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1383		7.1	676	3.5	59	.3	1	.0	1	.0	2120	10.9

MEAN WIND SPEED 1

NUMBER OF CALM HRS 3834

PERCENT CALM 19.7

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

ALL CLASSES

DIRECTION	2-3		4-7		SPEEDS(MI/HR)		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	8-12	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	51	.3	110	.6	58	.3	22	.1	5	.0	246	1.3
20	59	.3	143	.7	43	.2	10	.1	2	.0	257	1.3
30	68	.3	156	.8	43	.2	10	.1	6	.0	283	1.5
40	66	.3	134	.6	44	.2	11	.1	5	.0	240	1.2
50	94	.5	99	.5	65	.3	38	.2	3	.0	299	1.5
60	84	.4	100	.5	70	.4	28	.1	6	.0	288	1.5
70	90	.5	97	.5	53	.3	23	.1	5	.0	268	1.4
80	102	.5	120	.6	77	.4	34	.2	8	.0	341	1.8
90	134	.7	141	.7	90	.5	43	.2	4	.0	412	2.1
100	119	.6	150	.8	56	.3	33	.2	1	.0	359	1.8
110	144	.7	205	1.1	77	.4	20	.1	5	.0	451	2.3
120	141	.7	203	1.0	73	.4	14	.1	0	0.0	431	2.2
130	108	.6	127	.7	62	.3	5	.0	0	0.0	302	1.6
140	87	.4	129	.7	77	.4	12	.1	0	0.0	305	1.6
150	110	.6	126	.6	87	.4	23	.1	1	.0	347	1.8
160	120	.6	139	.7	88	.5	48	.2	1	.0	396	2.0
170	111	.6	145	.7	91	.5	23	.1	0	0.0	370	1.9
180	112	.6	202	1.0	50	.3	24	.1	4	.0	392	2.0
190	115	.6	198	1.0	77	.4	25	.1	1	.0	416	2.1
200	91	.5	163	.8	48	.2	19	.1	0	0.0	321	1.7
210	123	.6	171	.9	66	.3	33	.2	1	.0	394	2.0
220	119	.6	177	.9	76	.4	55	.3	6	.0	433	2.2
230	128	.7	148	.8	109	.6	66	.3	19	.1	470	2.4
240	195	1.0	271	1.4	136	.7	82	.4	6	.0	690	3.5
250	261	1.3	273	1.4	89	.5	18	.1	4	.0	645	3.3
260	178	.9	200	1.0	70	.4	15	.1	0	0.0	463	2.4
270	157	.8	237	1.2	170	.9	44	.2	7	.0	615	3.2
280	140	.7	246	1.3	159	.8	49	.3	1	.0	595	3.1
290	101	.5	227	1.2	125	.6	33	.2	5	.0	491	2.5
300	120	.6	290	1.3	159	.8	43	.2	0	0.0	572	2.9
310	89	.5	135	.7	93	.5	18	.1	1	.0	336	1.7
320	51	.3	111	.6	44	.2	5	.0	0	0.0	211	1.1
330	88	.5	179	.9	83	.4	11	.1	2	.0	363	1.9
340	85	.4	163	.8	104	.5	17	.1	0	0.0	369	1.9
350	60	.3	193	.8	105	.5	17	.1	1	.0	336	1.7
360	65	.3	166	.9	137	.7	33	.2	6	.0	407	2.1
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3966		20.4	5974	30.7	3054	15.7	1004	5.2	116	.6	14114	72.6

MISSING HOURS 6860

MEAN WIND SPEED 4

TOTAL NUMBER OF CALM HRS 5330

PERCENT CALM 27.4

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)				LOCATION 75FT		TURBULENCE CLASS (320 FT)		1			
SPEEDS(MI/HR)											
2-3		4-7		8-12		13-18		19 PLUS		SUM PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	
10	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3
20	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2
30	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6
40	7	.0	2	.0	0	0.0	0	0.0	0	0.0	9
50	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6
60	12	.1	3	.0	0	0.0	0	0.0	0	0.0	12
70	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6
80	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2
90	6	.0	1	.0	0	0.0	0	0.0	0	0.0	7
100	8	.0	3	.0	0	0.0	0	0.0	0	0.0	11
110	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6
120	17	.1	1	.0	1	.0	0	0.0	0	0.0	19
130	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4
140	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2
150	6	.0	1	.0	0	0.0	0	0.0	0	0.0	7
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
170	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
190	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1
210	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2
220	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3
230	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2
240	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3
250	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2
260	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1
270	1	.0	3	.0	1	.0	0	0.0	0	0.0	5
280	1	.0	1	.0	1	.0	0	0.0	0	0.0	3
290	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4
300	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2
310	1	.0	3	.0	0	0.0	0	0.0	0	0.0	4
320	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4
330	3	.0	1	.0	0	0.0	1	.0	0	0.0	5
340	2	.0	2	.0	1	.0	0	0.0	0	0.0	5
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
360	7	.0	2	.0	0	0.0	0	0.0	0	0.0	9
	119	.5	35	.2	5	.0	1	.0	0	0.0	160
											.7

MEAN WIND SPEED

2

NUMBER OF CALM HRS 117

PERCENT CALM

.5

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)					LOCATION 75FT		TURBULENCE CLASS (320 FT)				2	
SPEEDS(MI/HR)												
2-3			4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	53	.2	122	.5	114	.5	15	.1	0	0.0	304	1.3
20	49	.2	146	.6	92	.4	21	.1	0	0.0	308	1.3
30	51	.2	209	.9	90	.4	12	.1	0	0.0	362	1.6
40	64	.3	124	.5	37	.2	3	.0	0	0.0	228	1.0
50	42	.2	38	.2	17	.1	1	.0	0	0.0	98	.4
60	67	.3	66	.3	13	.1	5	.0	0	0.0	151	.7
70	93	.4	72	.3	9	.0	0	0.0	0	0.0	174	.7
80	54	.2	34	.1	2	.0	1	.0	0	0.0	91	.4
90	89	.4	90	.2	5	.0	1	.0	0	0.0	145	.6
100	108	.5	63	.3	6	.0	3	.0	0	0.0	180	.8
110	90	.4	85	.4	19	.1	1	.0	0	0.0	195	.8
120	97	.4	183	.8	67	.3	8	.0	1	.0	396	1.9
130	72	.3	209	.9	114	.5	17	.1	0	0.0	412	1.8
140	47	.2	144	.6	99	.4	9	.0	0	0.0	299	1.3
150	51	.2	222	1.0	109	.5	16	.1	1	.0	399	1.7
160	40	.2	186	.8	74	.3	9	.0	1	.0	310	1.3
170	42	.2	116	.5	75	.3	30	.1	2	.0	265	1.1
180	47	.2	162	.7	178	.8	75	.3	9	.0	471	2.0
190	52	.2	157	.7	174	.7	68	.3	2	.0	453	2.0
200	25	.1	100	.4	102	.4	39	.2	0	0.0	266	1.1
210	13	.1	109	.5	73	.3	22	.1	3	.0	220	.9
220	15	.1	71	.3	48	.2	14	.1	1	.0	149	.6
230	12	.1	40	.2	39	.2	6	.0	0	0.0	97	.4
240	15	.1	61	.3	94	.4	16	.1	2	.0	188	.8
250	27	.1	62	.3	64	.3	36	.2	7	.0	216	.9
260	12	.1	31	.1	57	.2	28	.1	0	0.0	128	.5
270	31	.1	81	.3	120	.5	83	.4	11	.0	325	1.4
280	23	.1	83	.3	170	.7	146	.6	13	.1	435	1.9
290	22	.1	73	.3	136	.6	114	.5	18	.1	363	1.6
300	37	.2	107	.5	248	1.1	163	.7	33	.1	588	2.9
310	23	.1	116	.5	188	.8	139	.6	17	.1	483	2.1
320	23	.1	84	.4	135	.6	54	.2	13	.1	309	1.3
330	40	.2	162	.7	209	.9	145	.6	15	.1	571	2.8
340	36	.2	224	1.0	355	1.5	174	.8	8	.0	799	3.4
350	19	.1	113	.5	184	.8	58	.2	3	.0	377	1.6
360	33	.1	142	.6	132	.6	27	.1	1	.0	335	1.4
	1614	7.0	4047	17.4	3668	15.8	1561	6.7	161	.7	11051	47.6

MEAN WIND SPEED

7

NUMBER OF CALM HRS 721

PERCENT CALM

3.1

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 75FT

TURBULENCE CLASS
(320 FT)

3

DIRECTION	SPEEDS(MI/HR)						SUM	PERCENT
	2-3	4-7	8-12	13-18	19 PLUS			
SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	6	13	2	3	0	21	.1	
20	8	11	1	0	0	20	.1	
30	11	9	3	0	0	23	.1	
40	18	4	0	0	0	22	.1	
50	6	3	0	0	0	9	.0	
60	9	3	0	0	0	12	.1	
70	6	3	0	0	0	9	.0	
80	9	0	0	0	0	9	.0	
90	13	0	0	0	0	13	.1	
100	27	2	0	0	0	29	.1	
110	12	6	0	0	0	18	.1	
120	18	14	0	0	0	32	.1	
130	7	11	0	0	0	18	.1	
140	6	3	0	0	0	9	.0	
150	5	7	4	0	0	16	.1	
160	6	7	1	0	0	14	.1	
170	1	6	0	0	0	7	.0	
180	4	9	3	0	0	16	.1	
190	4	4	1	0	0	9	.0	
200	1	2	1	0	0	4	.0	
210	4	3	1	0	0	8	.0	
220	1	6	0	0	0	7	.0	
230	1	6	0	0	0	7	.0	
240	2	9	2	0	0	13	.1	
250	1	6	3	0	0	10	.0	
260	1	6	1	0	0	8	.0	
270	1	6	3	0	0	10	.0	
280	2	4	3	0	0	9	.0	
290	0	6	0	0	0	6	.0	
300	3	10	6	0	0	22	.1	
310	7	6	1	0	0	16	.1	
320	2	4	2	0	0	8	.0	
330	4	12	2	0	0	19	.1	
340	7	17	15	1	0	40	.2	
350	4	8	4	0	0	16	.1	
360	10	17	4	0	0	31	.1	
227	1.0	243	63	.3	8	541	2.3	

MEAN WIND SPEED 3

NUMBER OF CALM HRS 136

PERCENT CALM .6

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 75FT

TURBULENCE CLASS
(320 FT)

4

DIRECTION	SPEEDS(MI/HR)						SUM	PERCENT
	2-3	4-7	8-12	13-18	19 PLUS			
SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	1	0	16	22	0	47	.2	
20	3	0	7	14	1	30	.1	
30	2	0	11	12	5	38	.2	
40	0	12	13	0	0	25	.1	
50	0	0	1	1	0	11	.0	
60	1	0	7	12	0	24	.1	
70	4	12	5	0	0	21	.1	
80	1	10	1	0	0	12	.1	
90	1	18	11	0	0	30	.1	
100	3	9	0	0	0	12	.1	
110	0	4	8	0	0	12	.1	
120	1	12	17	1	0	31	.1	
130	2	15	23	7	0	47	.2	
140	3	19	16	2	0	40	.2	
150	5	20	23	8	0	56	.2	
160	4	16	11	0	2	41	.2	
170	1	10	21	7	1	40	.2	
180	6	16	47	26	9	104	.4	
190	3	11	40	38	14	106	.5	
200	1	7	23	18	1	50	.2	
210	2	14	15	9	4	43	.2	
220	4	5	7	2	1	19	.1	
230	0	4	6	2	0	12	.1	
240	0	1	9	5	2	17	.1	
250	2	10	16	8	2	38	.2	
260	0	2	21	6	1	30	.1	
270	2	16	29	14	1	62	.3	
280	0	20	60	42	17	139	.6	
290	0	13	72	35	4	124	.5	
300	2	28	138	85	15	268	1.2	
310	1	18	132	93	38	282	1.2	
320	1	16	57	34	13	121	.5	
330	1	26	95	86	45	253	1.1	
340	1	19	97	104	34	251	1.1	
350	0	9	27	47	9	89	.4	
360	1	4	27	21	6	59	.3	
59	.3	423	1109	768	225	2584	11.1	

MEAN WIND SPEED 11

NUMBER OF CALM HRS 29

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 75FT

TURBULENCE CLASS
(320 FT)

5

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	33	.1	34	.1	7	.0	0	0.0	0	0.0	74	.3
20	42	.2	29	.1	6	.0	0	0.0	0	0.0	77	.3
30	33	.1	34	.1	5	.0	0	0.0	1	.0	73	.3
40	26	.1	12	.1	0	0.0	0	0.0	0	0.0	38	.2
50	17	.1	7	.0	1	.0	0	0.0	0	0.0	25	.1
60	39	.2	6	.0	0	0.0	0	0.0	0	0.0	45	.2
70	39	.2	12	.1	4	.0	0	0.0	0	0.0	55	.2
80	15	.1	14	.1	1	.0	0	0.0	0	0.0	30	.1
90	20	.1	11	.0	1	.0	0	0.0	0	0.0	32	.1
100	41	.2	28	.1	4	.0	0	0.0	0	0.0	73	.3
110	60	.3	40	.2	4	.0	0	0.0	0	0.0	104	.4
120	71	.3	91	.4	6	.0	0	0.0	0	0.0	168	.7
130	78	.3	106	.5	18	.1	2	.0	0	0.0	204	.9
140	57	.2	78	.3	10	.0	0	0.0	0	0.0	145	.6
150	86	.4	92	.4	13	.1	0	0.0	0	0.0	191	.8
160	78	.3	108	.5	13	.1	0	0.0	1	.0	200	.9
170	51	.2	68	.3	8	.0	0	0.0	0	0.0	127	.5
180	60	.3	69	.3	21	.1	3	.0	0	0.0	153	.7
190	70	.3	107	.5	38	.2	10	.0	2	.0	227	1.0
200	32	.1	45	.2	35	.2	0	0.0	0	0.0	152	.7
210	37	.2	72	.3	17	.1	0	0.0	0	0.0	126	.5
220	42	.2	54	.2	10	.0	1	.0	0	0.0	107	.5
230	36	.1	40	.2	13	.1	0	0.0	0	0.0	89	.4
240	41	.2	64	.3	35	.2	0	0.0	0	0.0	140	.6
250	31	.1	78	.3	70	.3	4	.0	0	0.0	183	.8
260	39	.2	97	.4	91	.4	8	.0	0	0.0	235	1.0
270	43	.2	125	.5	105	.5	14	.1	0	0.0	287	1.2
280	61	.3	171	.7	149	.6	10	.0	0	0.0	391	1.7
290	65	.3	165	.7	98	.4	2	.0	0	0.0	330	1.4
300	93	.4	188	.8	103	.4	4	.0	0	0.0	388	1.7
310	82	.4	165	.7	71	.3	0	0.0	0	0.0	318	1.4
320	71	.3	121	.5	25	.1	1	.0	0	0.0	218	.9
330	97	.4	139	.6	54	.2	4	.0	0	0.0	294	1.3
340	84	.4	132	.6	41	.2	6	.0	0	0.0	263	1.1
350	53	.2	58	.2	12	.1	0	0.0	0	0.0	123	.5
360	40	.2	32	.1	13	.1	0	0.0	0	0.0	85	.4
1857 8.2 2732 11.8 1102 4.7 69 .3 4 .0											5764	24.8

MEAN WIND SPEED 3

NUMBER OF CALM HRS 2108

PERCENT CALM 9.1

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 75FT

ALL CLASSES

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	95	.4	178	.8	139	.6	37	.2	0	0.0	449	1.9
20	104	.4	191	.8	106	.5	35	.2	1	.0	437	1.9
30	102	.4	261	1.1	109	.5	24	.1	6	.0	502	2.2
40	115	.5	154	.7	50	.2	3	.0	0	0.0	322	1.4
50	71	.3	57	.2	19	.1	2	.0	0	0.0	149	.6
60	128	.6	79	.3	20	.1	17	.1	0	0.0	244	1.1
70	147	.6	110	.4	18	.1	0	0.0	0	0.0	265	1.1
80	81	.3	58	.2	4	.0	1	.0	0	0.0	144	.6
90	129	.6	80	.3	17	.1	1	.0	0	0.0	227	1.0
100	187	.8	105	.5	10	.0	3	.0	0	0.0	305	1.3
110	167	.7	136	.6	31	.1	1	.0	0	0.0	335	1.4
120	204	.9	301	1.3	91	.4	9	.0	1	.0	606	2.6
130	161	.7	343	1.5	155	.7	26	.1	0	0.0	685	3.0
140	114	.5	245	1.1	125	.5	11	.0	0	0.0	495	2.1
150	153	.7	342	1.5	149	.6	24	.1	1	.0	669	2.9
160	128	.6	317	1.4	99	.4	17	.1	4	.0	565	2.4
170	96	.4	200	.9	104	.4	38	.2	3	.0	441	1.9
180	117	.5	256	1.1	249	1.1	104	.4	18	.1	744	3.2
190	131	.6	279	1.2	253	1.1	116	.5	18	.1	797	3.4
200	60	.3	194	.8	161	.7	57	.2	1	.0	473	2.0
210	57	.2	199	.9	106	.5	30	.1	7	.0	399	1.7
220	65	.3	136	.6	65	.3	17	.1	2	.0	285	1.2
230	44	.2	91	.4	58	.2	8	.0	0	0.0	201	.9
240	60	.3	136	.6	140	.6	21	.1	4	.0	361	1.6
250	61	.3	158	.7	173	.7	48	.2	9	.0	449	1.9
260	52	.2	146	.6	171	.7	42	.2	1	.0	402	1.7
270	78	.3	231	1.0	258	1.1	111	.5	12	.1	690	3.0
280	87	.4	279	1.2	383	1.7	198	.9	30	.1	977	4.2
290	90	.4	258	1.1	306	1.3	191	.7	22	.1	827	3.6
300	137	.6	333	1.4	495	2.1	255	1.1	48	.2	1268	5.5
310	114	.5	308	1.3	392	1.7	234	1.0	55	.2	1103	4.8
320	99	.4	227	1.0	219	.9	89	.4	26	.1	660	2.8
330	145	.6	340	1.5	360	1.6	237	1.0	60	.3	1142	4.9
340	130	.6	390	1.7	559	2.2	287	1.2	42	.2	1358	5.9
350	76	.3	185	.8	227	1.0	105	.5	12	.1	605	2.6
360	91	.4	197	.8	174	.8	48	.2	7	.0	519	2.2
3876 16.7 7480 32.2 5947 25.6 2407 10.4 390 1.7											20100	86.6

MISSING HOURS 3093

MEAN WIND SPEED 6

TOTAL NUMBER OF CALM HRS 3111

PERCENT CALM 13.4

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

TURBULENCE CLASS
(320 FT)

1

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
20	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	2	0.0
30	2	0.0	2	0.0	0	0.0	0	0.0	0	0.0	4	0.0
40	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.0
50	3	0.0	2	0.0	0	0.0	0	0.0	0	0.0	5	0.0
60	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.0
70	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
80	4	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.0
90	2	0.0	4	0.0	1	0.0	0	0.0	0	0.0	7	0.0
100	6	0.0	2	0.0	0	0.0	0	0.0	0	0.0	8	0.0
110	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
120	4	0.0	4	0.0	1	0.0	0	0.0	0	0.0	9	0.0
130	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.0
140	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
150	4	0.0	4	0.0	0	0.0	0	0.0	0	0.0	8	0.0
160	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
190	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	3	0.0
200	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
210	3	0.0	2	0.0	0	0.0	0	0.0	0	0.0	5	0.0
220	3	0.0	1	0.0	1	0.0	0	0.0	0	0.0	5	0.0
230	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
240	5	0.0	2	0.0	2	0.0	0	0.0	0	0.0	9	0.0
250	3	0.0	0	0.0	0	0.0	1	0.0	0	0.0	4	0.0
260	3	0.0	0	0.0	0	0.0	2	0.0	0	0.0	5	0.0
270	6	0.0	2	0.0	2	0.0	0	0.0	0	0.0	10	0.0
280	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.0
290	0	0.0	1	0.0	1	0.0	0	0.0	0	0.0	2	0.0
300	3	0.0	0	0.0	1	0.0	0	0.0	0	0.0	4	0.0
310	1	0.0	3	0.0	0	0.0	0	0.0	0	0.0	4	0.0
320	3	0.0	1	0.0	1	0.0	0	0.0	0	0.0	5	0.0
330	3	0.0	1	0.0	0	0.0	0	0.0	1	0.0	5	0.0
340	0	0.0	3	0.0	0	0.0	1	0.0	1	0.0	5	0.0
350	3	0.0	3	0.0	1	0.0	0	0.0	0	0.0	7	0.0
360	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.0
95	4		54	.2	12	.1	4	.0	2	.0	167	.7

MEAN WIND SPEED 3

NUMBER OF CALM HRS 70

PERCENT CALM .3

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

TURBULENCE CLASS
(320 FT)

2

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	7	.0	82	.4	121	.5	88	.4	3	.0	302	1.3
20	15	.1	79	.3	107	.5	73	.3	6	.0	280	1.2
30	11	.0	66	.3	119	.5	40	.2	1	.0	237	1.0
40	10	.0	61	.3	90	.4	42	.2	2	.0	205	.9
50	17	.1	43	.2	57	.2	28	.1	1	.0	146	.6
60	14	.1	62	.3	66	.3	20	.1	1	.0	163	.7
70	13	.1	43	.2	74	.3	26	.1	2	.0	158	.7
80	22	.1	60	.3	66	.3	22	.1	2	.0	172	.7
90	16	.1	73	.3	69	.3	20	.1	0	0.0	178	.8
100	26	.1	81	.4	61	.3	15	.1	1	.0	184	.8
110	23	.1	85	.4	103	.4	38	.2	3	.0	252	1.1
120	24	.1	85	.4	130	.6	47	.2	7	.0	293	1.3
130	20	.1	93	.4	149	.6	79	.3	7	.0	348	1.5
140	11	.0	68	.3	126	.5	51	.2	7	.0	263	1.1
150	17	.1	87	.4	167	.7	40	.2	2	.0	313	1.4
160	13	.1	73	.3	185	.8	63	.3	7	.0	341	1.5
170	14	.1	59	.3	145	.6	104	.5	15	.1	339	1.5
180	16	.1	70	.3	207	.9	169	.7	27	.1	489	2.1
190	10	.0	83	.4	202	.9	146	.6	15	.1	450	2.0
200	7	.0	41	.2	170	.7	83	.4	14	.1	315	1.4
210	8	.0	71	.3	114	.5	65	.3	14	.1	272	1.2
220	9	.0	45	.2	100	.4	58	.3	4	.0	216	.9
230	10	.0	50	.2	80	.3	61	.3	18	.1	219	1.0
240	5	.0	59	.3	82	.4	66	.3	24	.1	238	1.0
250	9	.0	41	.2	87	.4	85	.4	11	.0	233	1.0
260	4	.0	26	.1	65	.3	87	.4	29	.1	211	.9
270	4	.0	29	.1	72	.3	107	.5	78	.3	290	1.3
280	2	.0	31	.1	86	.4	175	.8	121	.5	419	1.8
290	2	.0	14	.1	82	.4	175	.8	148	.6	421	1.8
300	5	.0	27	.1	97	.4	196	.9	156	.7	481	2.1
310	3	.0	54	.2	78	.3	247	1.1	188	.8	550	2.4
320	7	.0	28	.1	125	.5	212	.9	150	.7	522	2.3
330	13	.1	69	.3	217	.9	264	1.1	119	.5	682	3.0
340	8	.1	89	.4	203	.9	240	1.0	71	.3	611	2.7
350	2	.0	78	.3	149	.6	128	.6	29	.1	386	1.7
360	9	.0	67	.3	121	.5	89	.4	15	.1	301	1.3
95	16		215	.9	417	1.8	344	1.5	129	.5	1140	5.0

MEAN WIND SPEED 11

NUMBER OF CALM HRS 10

PERCENT CALM .4

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

TURBULENCE CLASS
(320 FT)

3

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM PERCENT	
	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT	
10	1	.1	8	.0	2	.0	1	0.0	0	0.0	11	.0
20	4	.0	5	.0	1	.0	1	0.0	0	0.0	10	.0
30	5	.0	7	.0	2	.0	1	0.0	0	0.0	14	.1
40	5	.0	4	.0	5	.0	1	0.0	0	0.0	13	.1
50	3	.1	1	.0	1	.0	1	0.0	0	0.0	5	.0
60	12	.1	4	.0	0	0.0	1	0.0	0	0.0	16	.1
70	11	.1	2	.0	0	0.0	1	0.0	0	0.0	13	.1
80	5	.1	3	.0	1	.0	1	0.0	0	0.0	9	.0
90	12	.1	4	.0	0	0.0	1	0.0	0	0.0	16	.1
100	6	.1	2	.0	0	0.0	1	0.0	0	0.0	8	.0
110	6	.1	4	.0	0	0.0	1	0.0	0	0.0	10	.0
120	10	.1	11	.0	1	.0	1	0.0	0	0.0	22	.1
130	5	.1	5	.0	2	.0	0	0.0	0	0.0	12	.1
140	2	.1	3	.0	3	.0	1	0.0	0	0.0	5	.0
150	3	.1	4	.0	2	.0	1	.0	0	0.0	10	.0
160	5	.1	9	.0	4	.1	3	0.0	0	0.0	17	.1
170	3	.1	7	.0	4	.1	3	0.0	0	0.0	14	.1
180	5	.1	7	.0	3	.1	1	.0	0	0.0	16	.1
190	4	.1	4	.0	5	.1	0	0.0	0	0.0	13	.1
200	4	.1	4	.0	1	.2	0	0.0	0	0.0	9	.0
210	1	.1	9	.0	4	.0	0	0.0	0	0.0	13	.1
220	6	.1	2	.0	4	.0	0	0.0	0	0.0	12	.1
230	4	.1	2	.0	6	.0	0	0.0	0	0.0	12	.1
240	2	.0	6	.0	3	.0	0	0.0	0	0.0	11	.0
250	6	.1	8	.0	4	.0	0	0.0	0	0.0	18	.1
260	3	.0	4	.0	2	.0	1	.0	0	0.0	10	.0
270	1	.0	4	.0	3	.0	1	.0	0	0.0	9	.0
280	3	.1	9	.0	5	.0	1	.0	0	0.0	18	.1
290	0	0.0	4	.0	6	.0	2	.0	0	0.0	12	.1
300	5	.1	9	.0	6	.0	1	.0	2	.0	23	.1
310	2	.0	7	.0	9	.0	0	0.0	0	0.0	18	.1
320	2	.0	6	.0	4	.0	0	0.0	0	0.0	12	.1
330	2	.0	22	.1	11	.0	1	.0	0	0.0	36	.2
340	4	.0	28	.1	10	.0	0	0.0	0	0.0	42	.2
350	2	.0	5	.0	8	.0	1	.0	0	0.0	16	.1
360	9	.0	9	.0	5	.0	0	0.0	0	0.0	23	.1
163	7		234	1.0	119	.5	10	.0	2	.0	528	2.3

MEAN WIND SPEED 4

NUMBER OF CALM HRS 96

PERCENT CALM .4

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

TURBULENCE CLASS
(320 FT)

4

DIRECTION	2-3		4-7		8-12		13-18		19 PLUS		SUM PERCENT	
	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT	
10	1	.0	0	0.0	2	.0	22	.1	24	.1	49	.2
20	0	0.0	0	0.0	1	.0	12	.1	9	.0	22	.1
30	0	0.0	0	0.0	4	.0	7	.0	14	.1	25	.1
40	0	0.0	0	0.0	2	.0	8	.0	12	.1	22	.1
50	0	0.0	0	0.0	3	.0	6	.0	13	.1	19	.1
60	0	0.0	2	.0	2	.0	6	.0	3	.0	31	.1
70	0	0.0	0	0.0	2	.0	6	.0	1	.0	14	.1
80	0	0.0	2	.0	2	.0	9	.0	1	.0	9	.0
90	0	0.0	1	.0	1	.0	9	.0	20	.1	30	.1
100	1	.0	1	.0	7	.0	10	.0	2	.0	21	.1
110	0	0.0	2	.0	2	.0	10	.0	0	0.0	14	.1
120	0	0.0	2	.0	8	.0	14	.1	2	.0	26	.1
130	0	0.0	0	0.0	10	.0	25	.1	10	.0	45	.2
140	0	0.0	0	0.0	11	.0	22	.1	8	.0	41	.2
150	0	0.0	2	.0	7	.0	16	.1	15	.1	40	.2
160	0	0.0	0	0.0	8	.0	14	.1	6	.0	28	.1
170	0	0.0	3	.0	14	.1	28	.1	22	.1	67	.3
180	0	0.0	1	.0	19	.1	66	.3	25	.1	111	.5
190	1	.0	2	.0	16	.1	57	.2	28	.1	104	.5
200	0	0.0	0	0.0	9	.0	32	.1	23	.1	64	.3
210	0	0.0	0	0.0	14	.1	11	.0	10	.0	35	.2
220	0	0.0	0	0.0	6	.0	11	.0	5	.0	22	.1
230	0	0.0	1	.0	5	.0	19	.1	10	.0	35	.2
240	0	0.0	1	.0	2	.0	22	.1	8	.0	33	.1
250	0	0.0	2	.0	4	.0	14	.1	14	.1	34	.1
260	0	0.0	0	0.0	1	.0	16	.1	15	.1	32	.1
270	0	0.0	0	0.0	6	.0	33	.1	24	.1	63	.3
280	0	0.0	0	0.0	2	.0	38	.2	58	.3	98	.4
290	0	0.0	0	0.0	6	.0	82	.4	72	.3	160	.7
300	0	0.0	1	.0	8	.0	61	.3	143	.6	213	.9
310	0	0.0	0	0.0	8	.0	108	.5	136	.6	252	1.1
320	0	0.0	0	0.0	8	.0	87	.4	106	.5	201	.9
330	0	0.0	1	.0	11	.0	130	.6	120	.5	262	1.1
340	1	.0	0	0.0	6	.0	75	.3	101	.4	183	.8
350	0	0.0	0	0.0	9	.0	43	.2	51	.2	103	.4
360	0	0.0	0	0.0	5	.0	52	.2	36	.2	93	.4
4	.0		21	.1	229	1.0	1181	5.1	1166	5.1	2601	11.3

MEAN WIND SPEED 18

NUMBER OF CALM HRS 3

PERCENT CALM .0

PBAPS

WIND ROSE FOR STATION 12 • 3YRS(8/67-7/70)										LOCATION 320FT		TURBULENCE CLASS (320 FT)		5		
SPEEDS(MI/HR)																
2-3			4-7			8-12			13-18			19 PLUS			SUM PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	19	.1	66	.3	57	.2	17	.1	0	0.0	159	.7				
20	15	.1	34	.1	39	.2	11	.0	1	.0	100	.4				
30	17	.1	46	.2	33	.1	0	0.0	0	0.0	96	.4				
40	14	.1	39	.2	22	.1	2	.0	0	0.0	77	.3				
50	22	.1	44	.2	18	.1	1	.0	0	0.0	85	.4				
60	26	.1	44	.2	18	.1	0	0.0	0	0.0	88	.4				
70	21	.1	48	.2	16	.1	0	0.0	0	0.0	85	.4				
80	28	.1	28	.1	14	.1	0	0.0	0	0.0	70	.3				
90	25	.1	36	.2	18	.1	0	0.0	0	0.0	79	.3				
100	19	.1	51	.2	24	.1	0	0.0	0	0.0	94	.4				
110	19	.1	46	.2	32	.1	6	.0	0	0.0	103	.4				
120	21	.1	66	.3	47	.2	18	.1	2	.0	154	.7				
130	16	.1	57	.2	72	.3	14	.1	0	0.0	159	.7				
140	15	.1	72	.3	98	.4	13	.1	0	0.0	198	.9				
150	23	.1	85	.4	110	.5	24	.1	0	0.0	242	1.1				
160	18	.1	81	.4	105	.5	27	.1	1	.0	232	1.0				
170	22	.1	63	.3	106	.5	34	.1	2	.0	227	1.0				
180	24	.1	81	.4	107	.5	41	.2	2	.0	255	1.1				
190	22	.1	70	.3	118	.5	52	.2	3	.0	265	1.2				
200	14	.1	68	.3	92	.4	39	.2	4	.0	217	.9				
210	21	.1	71	.3	101	.4	43	.2	2	.0	238	1.0				
220	23	.1	75	.3	95	.4	30	.1	5	.0	228	1.0				
230	18	.1	68	.3	81	.4	41	.2	5	.0	213	.9				
240	24	.1	79	.3	87	.4	50	.2	4	.0	244	1.1				
250	21	.1	65	.3	79	.3	96	.4	2	.0	263	1.1				
260	21	.1	59	.3	77	.3	95	.4	11	.0	263	1.1				
270	23	.1	63	.3	99	.4	108	.5	17	.1	310	1.3				
280	19	.1	56	.2	71	.3	131	.6	27	.1	304	1.3				
290	12	.1	43	.2	97	.4	154	.7	36	.2	342	1.5				
300	24	.1	54	.2	102	.4	136	.6	17	.1	333	1.4				
310	16	.1	44	.2	118	.5	151	.7	16	.1	345	1.5				
320	15	.1	56	.2	141	.6	112	.5	10	.0	334	1.5				
330	21	.1	72	.3	156	.7	98	.4	5	.0	352	1.5				
340	11	.0	77	.3	139	.6	63	.3	4	.0	294	1.3				
350	19	.1	72	.3	86	.4	26	.1	0	0.0	203	.9				
360	26	.1	82	.4	78	.3	11	.0	0	0.0	197	.9				
714	3.1		2161	9.4	2753	12.0	1644	7.2	176	.8	7448	32.4				

MEAN WIND SPEED 8

NUMBER OF CALM HRS 473

PERCENT CALM 2.1

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)										LOCATION 320FT		ALL CLASSES			
										SPEEDS(MI/HR)					
2-3		4-7		8-12		13-18		19 PLUS		SUM		PERCENT			
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT					
10	28	.1	158	.7	182	.8	127	.6	27	.1	522	2.3			
20	34	.1	170	.8	148	.6	94	.4	16	.1	414	1.8			
30	35	.2	171	.8	158	.7	47	.2	15	.1	376	1.6			
40	35	.2	180	.8	114	.5	52	.2	14	.1	323	1.4			
50	58	.2	40	.1	76	.3	35	.2	14	.1	260	1.1			
60	48	.3	122	.5	87	.4	26	.1	21	.1	304	1.3			
70	47	.2	14	.0	92	.4	35	.2	5	.0	273	1.2			
80	59	.3	92	.4	83	.4	28	.1	3	.0	263	1.2			
90	55	.2	117	.5	89	.4	29	.1	20	.1	310	1.3			
100	58	.3	137	.6	92	.4	25	.1	3	.0	313	1.4			
110	51	.2	137	.6	137	.6	54	.2	3	.0	382	1.7			
120	59	.3	168	.7	187	.8	79	.3	11	.0	504	2.2			
130	44	.2	156	.7	233	1.0	118	.5	17	.1	568	2.5			
140	28	.1	144	.6	235	1.0	86	.4	15	.1	508	2.2			
150	47	.2	182	.8	286	1.2	81	.4	17	.1	613	2.7			
160	39	.2	163	.7	302	1.3	104	.5	14	.1	622	2.7			
170	39	.2	132	.6	269	1.2	168	.7	39	.2	647	2.8			
180	48	.2	159	.7	336	1.5	277	1.2	54	.2	874	3.8			
190	37	.2	161	.7	342	1.5	249	1.1	46	.2	835	3.6			
200	25	.1	114	.5	272	1.2	154	.7	41	.2	606	2.6			
210	33	.1	152	.7	233	1.0	119	.5	26	.1	563	2.5			
220	41	.2	123	.5	206	.9	99	.4	14	.1	483	2.1			
230	34	.1	122	.5	172	.7	121	.5	33	.1	482	2.1			
240	36	.2	147	.6	176	.8	140	.6	36	.2	535	2.3			
250	39	.2	116	.5	174	.8	196	.9	27	.1	592	2.4			
260	31	.1	92	.4	145	.6	201	.9	55	.2	524	2.3			
270	34	.1	98	.4	182	.8	249	1.1	110	.5	682	3.0			
280	31	.1	97	.4	164	.7	345	1.5	206	.9	843	3.7			
290	14	.1	62	.3	192	.8	413	1.8	256	1.1	937	4.1			
300	37	.2	91	.4	214	.9	394	1.7	318	1.4	1054	4.6			
310	22	.1	88	.4	213	.9	506	2.2	340	1.5	1169	5.1			
320	27	.1	91	.4	279	1.2	411	1.8	266	1.2	1074	4.7			
330	39	.2	165	.7	395	1.7	493	2.1	245	1.1	1337	5.8			
340	24	.1	197	.9	358	1.6	376	1.6	177	.8	1135	4.9			
350	26	.1	158	.7	253	1.1	198	.9	80	.3	715	3.1			
360	47	.2	159	.7	209	.9	152	.7	51	.2	618	2.7			
1386	6.0		4623	20.1	7285	31.7	6286	27.4	2644	11.5	22224	96.7			

MISSING HOURS 3333

MEAN WIND SPEED 11

TOTAL NUMBER OF CALM HRS 747

PERCENT CALM 3.3

PBAPS

WIND ROSE FOR STATION 12 • 3YRS(8/67-7/70)

LOCATION SAT

TURBULENCE CLASS
(320 FT)

1

DIRECTION	SPEEDS(MI/HR)						SUM	PERCENT
	2-3	4-7	8-12	13-16	17 PLUS			
SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	1	0	0	0	0	1	0	0
20	0	0	0	0	0	0	0	0
30	1	2	0	0	0	3	0	0
40	2	0	0	0	0	2	0	0
50	0	0	0	0	0	0	0	0
60	1	0	0	0	0	1	0	0
70	0	0	0	0	0	0	0	0
80	1	0	1	0	0	2	0	0
90	1	1	1	0	0	3	0	0
100	1	0	0	0	0	1	0	0
110	0	0	0	0	0	0	0	0
120	2	0	0	0	0	2	0	0
130	2	1	0	0	0	3	0	0
140	2	1	0	0	0	3	0	0
150	2	2	0	0	0	4	0	0
160	1	1	0	0	0	2	0	0
170	1	2	0	0	0	3	0	0
180	0	0	0	0	0	0	0	0
190	0	1	0	0	0	1	0	0
200	1	0	0	0	0	1	0	0
210	1	1	1	0	0	3	0	0
220	3	0	0	0	0	3	0	0
230	0	0	0	0	0	0	0	0
240	1	0	0	0	0	1	0	0
250	2	0	0	0	0	2	0	0
260	0	0	1	0	0	1	0	0
270	2	0	2	0	0	4	0	0
280	0	0	0	0	0	0	0	0
290	0	0	0	0	0	0	0	0
300	2	0	0	0	0	2	0	0
310	2	1	0	0	0	3	0	0
320	0	1	0	0	0	1	0	0
330	1	1	0	0	0	2	0	0
340	0	0	0	0	0	0	0	0
350	0	0	1	0	0	1	0	0
360	1	1	0	0	0	2	0	0
34	3	18	7	1	1	62	0	6

MEAN WIND SPEED 2

NUMBER OF CALM HRS 54

PERCENT CALM 6

WIND ROSE FOR STATION 12 • 3YRS(8/67-7/70)

LOCATION SAT

TURBULENCE CLASS
(320 FT)

2

DIRECTION	SPEEDS(MI/HR)						SUM	PERCENT
	2-3	4-7	8-12	13-16	17 PLUS			
SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT			
10	18	53	29	15	1	116	1,2	
20	4	42	32	11	0	89	0,9	
30	3	19	22	5	1	70	0,7	
40	7	25	10	1	0	43	0,4	
50	4	15	6	2	0	27	0,3	
60	17	10	4	1	0	52	0,5	
70	18	14	3	0	0	35	0,3	
80	9	14	5	1	0	30	0,3	
90	15	23	5	5	0	48	0,5	
100	22	30	11	4	0	67	0,7	
110	33	34	14	2	0	83	0,8	
120	32	58	26	2	0	118	1,2	
130	42	74	51	9	1	176	1,7	
140	24	83	57	7	0	171	1,7	
150	43	128	99	16	2	286	2,8	
160	38	97	121	44	2	302	3,0	
170	23	58	108	52	5	244	2,4	
180	38	49	95	46	13	241	2,4	
190	25	43	44	10	2	124	1,2	
200	13	25	15	5	0	58	0,6	
210	16	37	25	6	1	86	0,9	
220	11	22	31	3	0	66	0,7	
230	2	21	14	4	0	41	0,4	
240	12	26	27	2	0	67	0,7	
250	10	33	19	2	0	64	0,6	
260	8	24	21	3	0	56	0,6	
270	21	22	21	7	1	72	0,7	
280	18	38	35	11	1	103	1,0	
290	7	25	43	37	1	113	1,1	
300	19	48	77	48	5	204	2,0	
310	15	64	73	71	3	257	2,6	
320	19	25	93	70	35	272	2,7	
330	24	73	96	83	45	321	3,2	
340	26	89	88	95	22	320	3,2	
350	11	40	52	54	10	167	1,7	
360	12	47	41	32	3	135	1,3	
659	5,5	1598	1513	15,0	765	4726	46,9	

MEAN WIND SPEED 7

NUMBER OF CALM HRS 520

PERCENT CALM 5,5

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

TURBULENCE CLASS
(320 FT)

3

DIRECTION	SPEEDS(MI/HR)					SUM	PERCENT
	2-3	4-7	8-12	13-18	19 PLUS		
10	4	0	1	0	0	5	.0
20	0	2	0	0	0	2	.0
30	1	2	0	0	0	3	.0
40	4	1	0	0	0	5	.0
50	0	0	0	0	0	0	0.0
60	1	0	0	0	0	1	.0
70	1	0	0	0	0	1	.0
80	1	0	0	0	0	1	.0
90	0	0	0	0	0	0	0.0
100	2	0	0	0	0	2	.0
110	1	1	0	0	0	2	.0
120	5	3	0	0	0	8	.1
130	2	2	0	1	0	5	.0
140	5	7	1	1	0	14	.1
150	5	10	5	0	0	20	.2
160	3	6	1	0	0	10	.1
170	3	1	1	0	0	5	.0
180	2	1	3	0	0	7	.1
190	1	0	1	1	0	3	.0
200	0	1	0	0	0	1	.0
210	3	2	0	0	0	5	.0
220	1	0	4	0	0	5	.0
230	1	0	0	0	0	1	.0
240	0	0	0	0	0	0	0.0
250	0	1	0	0	0	1	.0
260	1	2	1	0	0	4	.0
270	0	2	0	0	0	2	.0
280	0	1	0	0	0	1	.0
290	1	0	0	0	0	1	.0
300	4	5	0	1	0	10	.1
310	2	6	3	2	0	13	.1
320	1	5	5	0	0	11	.1
330	2	9	5	0	0	16	.2
340	3	8	3	1	0	15	.1
350	1	6	1	0	0	8	.1
360	5	2	1	0	0	8	.1
	66	86	36	8	0	196	1.9

MEAN WIND SPEED 4

NUMBER OF CALM HRS 68

PERCENT CALM .7

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

TURBULENCE CLASS
(320 FT)

4

DIRECTION	SPEEDS(MI/HR)					SUM	PERCENT
	2-3	4-7	8-12	13-18	19 PLUS		
10	0	3	7	2	4	16	.2
20	0	5	4	1	0	10	.1
30	0	2	1	1	0	4	.0
40	0	2	2	0	1	5	.0
50	1	2	1	1	0	5	.0
60	0	1	5	2	0	8	.1
70	0	0	2	7	3	12	.1
80	0	0	0	3	1	4	.0
90	2	0	0	0	0	2	.0
100	0	2	0	0	0	2	.0
110	0	2	1	1	0	4	.0
120	1	5	6	1	0	13	.1
130	2	9	2	2	0	15	.1
140	2	3	7	1	0	13	.1
150	1	18	16	2	0	37	.4
160	3	16	16	14	0	49	.5
170	1	7	20	17	3	48	.5
180	3	10	21	31	5	70	.7
190	4	2	8	4	0	18	.2
200	1	1	2	5	0	9	.1
210	1	4	4	3	0	12	.1
220	1	2	2	0	0	5	.0
230	0	1	0	0	0	1	.0
240	0	5	2	0	1	8	.1
250	4	4	2	0	0	10	.1
260	0	5	2	0	0	7	.1
270	2	7	4	2	0	15	.1
280	4	5	3	4	1	17	.2
290	1	8	12	6	0	27	.3
300	2	20	26	11	2	61	.6
310	1	8	25	29	3	79	.8
320	1	27	19	38	4	100	1.0
330	2	17	16	8	15	58	.6
340	2	10	23	25	19	79	.8
350	0	6	16	9	6	37	.4
360	1	4	10	4	0	19	.2
	44	221	287	234	91	877	8.7

MEAN WIND SPEED 10

NUMBER OF CALM HRS 40

PERCENT CALM .4

PBAPS

WIND ROSE FOR STATION 12 -- 3YRS(8/67-7/70)

LOCATION SAT

TURBULENCE CLASS
(320 FT)

5

SPEEDS(MI/HR)												
2-3			4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	11	.1	10	.1	3	.0	2	0.0	0	0.0	24	.2
20	12	.1	9	.1	4	.0	2	0.0	0	0.0	25	.2
30	6	.1	1	.0	4	.0	2	0.0	0	0.0	13	.1
40	3	.0	4	.0	3	.0	1	0.0	0	0.0	10	.1
50	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
60	3	.0	4	.0	2	.0	0	0.0	0	0.0	9	.1
70	5	.0	2	.0	2	.0	0	0.0	0	0.0	9	.1
80	4	.0	1	.0	2	.0	0	0.0	0	0.0	7	.1
90	11	.1	7	.1	5	0.0	0	0.0	0	0.0	18	.2
100	7	.1	10	.1	3	.0	0	0.0	0	0.0	20	.2
110	11	.1	21	.2	4	.0	0	0.0	0	0.0	36	.4
120	12	.1	19	.2	5	.0	0	0.0	0	0.0	36	.4
130	15	.1	34	.3	14	.1	1	.0	1	.0	65	.6
140	27	.3	29	.3	16	.2	4	.0	0	0.0	76	.8
150	21	.2	31	.3	4	.0	0	0.0	0	0.0	56	.6
160	25	.2	38	.4	16	.2	3	.0	0	0.0	82	.8
170	17	.2	34	.3	25	.2	0	0.0	0	0.0	76	.8
180	48	.5	53	.5	21	.2	0	0.0	0	0.0	122	1.2
190	49	.5	39	.4	6	.1	5	.0	0	0.0	95	.9
200	38	.3	18	.2	6	.1	0	0.0	0	0.0	54	.5
210	25	.2	21	.2	2	.0	0	0.0	0	0.0	48	.5
220	25	.2	16	.2	1	.0	0	0.0	0	0.0	42	.4
230	29	.3	15	.1	1	.0	0	0.0	0	0.0	45	.4
240	35	.3	22	.2	2	.0	0	0.0	0	0.0	59	.6
250	30	.3	27	.3	2	.0	0	0.0	0	0.0	59	.6
260	38	.4	14	.1	4	.0	0	0.0	0	0.0	56	.6
270	84	.8	40	.4	2	.0	0	0.0	0	0.0	126	1.3
280	103	1.0	44	.4	3	.0	0	0.0	0	0.0	150	1.5
290	60	.6	38	.4	12	.1	0	0.0	0	0.0	110	1.1
300	86	.9	62	.6	9	.1	3	.0	0	0.0	160	1.6
310	55	.5	63	.6	21	.2	5	.0	5	.0	149	1.5
320	49	.5	63	.6	23	.2	8	.1	2	.0	145	1.4
330	60	.6	56	.6	17	.2	7	.1	0	0.0	140	1.4
340	42	.4	49	.5	10	.1	2	.0	0	0.0	103	1.0
350	27	.3	19	.2	6	.1	0	0.0	0	0.0	52	.5
360	12	.1	12	.1	3	.0	0	0.0	0	0.0	27	.3
1081	10.7		924	9.2	258	2.6	36	.4	8	.1	2307	22.9

MEAN WIND SPEED 3

NUMBER OF CALM HRS 1180

PERCENT CALM 11.7

WIND ROSE FOR STATION 12 -- 3YRS(8/67-7/70)

LOCATION SAT

ALL CLASSES

SPEEDS (MI/HR)															
2-3			4-7			8-12			13-18			19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
10	34	.3	66	.7	40	.4	17	.2	5	.0			162	1.6	
20	16	.2	56	.6	40	.4	12	.1	0	0.0			124	1.2	
30	11	.1	46	.5	27	.3	8	.1	1	.0			93	.9	
40	16	.2	32	.3	15	.1	1	.0	1	.0			65	.6	
50	7	.1	17	.2	7	.1	3	.0	0	0.0			34	.3	
60	22	.2	36	.4	11	.1	3	.0	0	0.0			72	.7	
70	24	.2	16	.2	7	.1	7	.1	3	.0			57	.6	
80	15	.1	15	.1	8	.1	4	.0	2	.0			44	.4	
90	29	.3	31	.3	6	.1	5	.0	0	0.0			71	.7	
100	32	.3	42	.4	14	.1	4	.0	0	0.0			92	.9	
110	45	.4	58	.6	19	.2	3	.0	0	0.0			125	1.2	
120	52	.5	87	.9	37	.4	3	.0	0	0.0			179	1.8	
130	63	.6	121	1.2	67	.7	13	.1	2	.0			265	2.6	
140	60	.6	123	1.2	81	.8	13	.1	0	0.0			277	2.8	
150	72	.7	189	1.9	124	1.2	18	.2	0	0.0			403	4.0	
160	70	.7	158	1.6	154	1.5	61	.6	2	.0			445	4.4	
170	45	.4	102	1.0	154	1.5	69	.7	6	.1			376	3.7	
180	91	.9	113	1.1	140	1.4	78	.8	18	.2			440	4.4	
190	79	.8	85	.8	59	.6	16	.2	2	.0			241	2.4	
200	45	.4	45	.4	23	.2	10	.1	0	0.0			123	1.2	
210	46	.5	65	.6	32	.3	9	.1	2	.0			154	1.5	
220	41	.4	40	.4	38	.4	3	.0	1	.0			123	1.2	
230	32	.3	37	.4	15	.1	4	.0	0	0.0			88	.9	
240	48	.5	53	.5	31	.3	2	.0	1	.0			135	1.3	
250	46	.5	65	.6	23	.2	2	.0	0	0.0			136	1.4	
260	47	.5	45	.4	29	.3	3	.0	0	0.0			124	1.2	
270	109	1.1	71	.7	29	.3	9	.1	1	.0			219	2.2	
280	125	1.2	86	.9	41	.4	15	.1	2	.0			271	2.7	
290	69	.7	71	.7	67	.7	43	.4	1	.0			251	2.5	
300	115	1.1	133	1.3	112	1.1	63	.6	14	.1			437	4.3	
310	76	.8	142	1.4	122	1.2	107	1.1	54	.5			501	5.0	
320	70	.7	151	1.5	140	1.4	116	1.2	52	.5			529	5.3	
330	89	.9	156	1.5	134	1.3	98	1.0	62	.6			539	5.4	
340	73	.7	156	1.5	124	1.2	123	1.2	41	.4			517	5.1	
350	39	.4	71	.7	76	.8	63	.6	16	.2			265	2.6	
360	31	.3	66	.7	55	.5	36	.4	3	.0			191	1.9	
1884	18.7		2847	28.3	2101	20.9	1044	10.4	292	2.9			8168	81.1	

MISSING HOURS 16234

MEAN WIND SPEED 6

TOTAL NUMBER OF CALM HRS 1902

PERCENT CALM 18.9

Table N.4.1

Three-Year Annual Meteorology Summaries by Location,
Wind Direction, Wind Speed, and Lapse Rate

PBAPS

WIND ROSE FOR STATION 11-3 VRS(8/67-7/70)

LOCATION 30FT

LAPSE RATE(OC/100M)*
(10L-30FT)

LE-1.9

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	12	.1	27	.1	6	.0	0	0.0	0	0.0	45	.2
20	5	.0	11	.1	2	.0	0	0.0	0	0.0	18	.1
30	6	.0	6	.0	4	.0	0	0.0	0	0.0	16	.1
40	3	.0	4	.0	3	.0	0	0.0	0	0.0	10	.1
50	1	.0	5	.0	0	0.0	0	0.0	0	0.0	6	.0
60	3	.0	4	.0	0	0.0	0	0.0	0	0.0	7	.0
70	1	.0	4	.0	2	.0	0	0.0	0	0.0	7	.0
80	4	.0	2	.0	0	0.0	0	0.0	0	0.0	6	.0
90	4	.0	3	.0	0	0.0	0	0.0	0	0.0	7	.0
100	8	.0	6	.0	2	.0	0	0.0	0	0.0	16	.1
110	11	.1	4	.0	1	.0	0	0.0	0	0.0	16	.1
120	21	.1	37	.2	4	.0	0	0.0	0	0.0	42	.3
130	17	.1	13	.1	0	0.0	0	0.0	0	0.0	30	.2
140	8	.0	1	.0	0	0.0	0	0.0	0	0.0	9	.0
150	24	.1	19	.1	0	0.0	0	0.0	0	0.0	43	.2
160	64	.3	19	.1	6	.0	0	0.0	0	0.0	49	.3
170	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
180	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
190	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
250	3	.0	4	.0	0	0.0	0	0.0	0	0.0	7	.0
260	2	.0	0	0.0	1	.0	0	0.0	0	0.0	3	.0
270	2	.0	2	.0	1	.0	0	0.0	0	0.0	5	.0
280	3	.0	3	.0	1	.0	0	0.0	0	0.0	7	.0
290	9	.0	4	.0	1	.0	0	0.0	0	0.0	14	.1
300	17	.1	9	.0	2	.0	0	0.0	0	0.0	28	.2
310	9	.0	32	.2	32	.2	2	.0	0	0.0	75	.4
320	2	.0	6	.0	17	.1	1	.0	0	0.0	26	.1
330	3	.0	13	.1	8	.0	0	0.0	0	0.0	24	.1
340	4	.0	20	.1	18	.1	0	0.0	0	0.0	40	.2
350	7	.0	17	.1	9	.0	0	0.0	0	0.0	33	.2
360	19	.1	34	.2	12	.1	1	.0	0	0.0	66	.4
281	1.5		310	1.7	131	.7	4	.0	0	0.0	726	4.0

MEAN WIND SPEED 3

NUMBER OF CALM HRS 382

PERCENT CALM 1.6

WIND ROSE FOR STATION 11-3 VRS(8/67-7/70)

LOCATION 30FT

LAPSE RATE(OC/100M)*
(100-30FT)

-1.89/-1.7

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
20	1	.0	1	.0	0	0.0	1	.0	0	0.0	3	.0
30	1	.0	3	.0	2	.0	0	0.0	0	0.0	6	.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
90	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
120	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
130	2	.0	3	.0	0	0.0	0	0.0	0	0.0	5	.0
140	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
150	2	.0	4	.0	0	0.0	0	0.0	0	0.0	6	.0
160	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
170	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	1	.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
290	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
300	0	0.0	2	.0	1	.0	0	0.0	0	0.0	2	.0
310	1	.0	7	.0	18	.1	1	.0	0	0.0	27	.1
320	1	.0	2	.0	4	.0	0	0.0	1	.0	6	.0
330	1	.0	1	.0	9	.0	0	0.0	0	0.0	6	.0
340	1	.0	2	.0	2	.0	0	0.0	0	0.0	12	.1
350	0	0.0	1	.0	3	.0	0	0.0	0	0.0	3	.0
360	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	5	.0
17	.1		37	.2	46	.3	2	.0	1	.0	103	.6

MEAN WIND SPEED 6

NUMBER OF CALM HRS 14

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 11-3 YMS(R/67-7/70)

LOCATION 30FT

LAPSE RATE(OC/100M)*
(100-30FT)

-1.69/-1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
20	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
30	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	3	.0
40	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
80	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
160	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
290	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
300	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
310	1	.0	3	.0	6	.0	1	.0	0	0.0	11	.1
320	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
330	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
340	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
350	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
360	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
	8	.0	18	.1	16	.1	1	.0	0	0.0	43	.2

MEAN WIND SPEED 6

NUMBER OF CALM HRS 2

PERCENT CALM .0

WIND ROSE FOR STATION 11-3 YMS(R/67-7/70)

LOCATION 30FT

LAPSE RATE(OC/100M)*
(100-30FT)

-1.49/-0.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	13	.1	28	.2	35	.2	5	.0	0	0.0	81	.4
20	10	.1	21	.1	12	.1	0	0.0	0	0.0	43	.2
30	6	.0	13	.1	8	.0	0	0.0	0	0.0	27	.1
40	5	.0	5	.0	1	.0	3	.0	0	0.0	14	.1
50	2	.0	6	.0	2	.0	1	.0	0	0.0	11	.1
60	9	.0	9	.0	3	.0	0	0.0	0	0.0	21	.1
70	3	.0	13	.1	4	.0	2	.0	0	0.0	22	.1
80	1	.0	10	.1	10	.1	0	0.0	0	0.0	21	.1
90	4	.0	13	.1	6	.0	0	0.0	0	0.0	23	.1
100	7	.0	11	.1	5	.0	0	0.0	0	0.0	23	.1
110	6	.0	22	.1	11	.1	1	.0	0	0.0	40	.2
120	18	.1	33	.2	21	.1	1	.0	0	0.0	73	.4
130	43	.2	36	.2	9	.0	5	.0	0	0.0	93	.5
140	36	.2	13	.1	3	.0	2	.0	0	0.0	54	.3
150	68	.4	17	.1	2	.0	0	0.0	0	0.0	87	.5
160	44	.2	11	.1	0	0.0	0	0.0	0	0.0	55	.3
170	13	.1	1	.0	0	0.0	0	0.0	0	0.0	14	.1
180	5	.0	3	.0	0	0.0	0	0.0	0	0.0	8	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
220	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
260	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
270	19	.1	6	.0	4	.0	0	0.0	0	0.0	29	.2
280	49	.3	13	.1	14	.1	0	0.0	0	0.0	76	.4
290	36	.2	33	.2	16	.1	10	.1	0	0.0	95	.5
300	53	.3	193	1.1	135	.7	43	.2	2	.0	426	2.3
310	29	.2	136	.7	167	.9	54	.3	2	.0	393	2.1
320	8	.0	53	.3	71	.4	14	.1	0	0.0	146	.8
330	18	.1	45	.2	34	.2	10	.1	0	0.0	107	.6
340	17	.1	46	.3	41	.2	5	.0	1	.0	110	.6
350	10	.1	26	.1	41	.2	6	.0	0	0.0	83	.5
360	12	.1	26	.1	38	.2	5	.0	0	0.0	81	.4
	550	3.0	842	4.6	693	3.8	172	.9	5	.0	2262	12.3

MEAN WIND SPEED 5

NUMBER OF CALM HRS 626

PERCENT CALM 3.4

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

LAPSE RATE(OC/100M)*
(100=30FT)

-0.49/ 1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	36	.2	77	.4	37	.2	0	0.0	0	0.0	150	.8
20	18	.1	33	.2	8	.0	0	0.0	0	0.0	59	.3
30	26	.1	32	.2	8	.0	0	0.0	0	0.0	66	.4
40	16	.1	23	.1	1	.0	0	0.0	0	0.0	40	.2
50	5	.0	14	.1	1	.0	0	0.0	0	0.0	20	.1
60	11	.1	12	.1	3	.0	0	0.0	0	0.0	26	.1
70	4	.0	14	.1	5	.0	0	0.0	0	0.0	23	.1
80	7	.0	8	.0	0	0.0	0	0.0	0	0.0	15	.1
90	25	.1	29	.2	1	.0	0	0.0	0	0.0	55	.3
100	29	.2	16	.1	0	0.0	0	0.0	0	0.0	45	.2
110	20	.1	16	.1	1	.0	0	0.0	0	0.0	37	.2
120	50	.3	35	.2	4	.0	4	.0	8	.0	101	.6
130	117	.6	51	.3	4	.0	1	.0	0	0.0	173	.9
140	131	.7	53	.3	0	0.0	0	0.0	0	0.0	184	1.0
150	202	1.1	45	.2	0	0.0	0	0.0	0	0.0	247	1.3
160	162	.9	38	.2	1	.0	0	0.0	0	0.0	201	1.1
170	32	.2	9	.0	0	0.0	0	0.0	0	0.0	41	.2
180	23	.1	9	.0	0	0.0	0	0.0	0	0.0	32	.2
190	4	.0	2	.0	0	0.0	0	0.0	0	0.0	6	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	8	.0	0	0.0	1	.0	0	0.0	0	0.0	9	.0
220	9	.0	1	.0	0	0.0	0	0.0	0	0.0	10	.1
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	7	.0	0	0.0	0	0.0	0	0.0	0	0.0	7	.0
250	7	.0	1	.0	0	0.0	0	0.0	0	0.0	8	.0
260	43	.2	5	.0	0	0.0	0	0.0	0	0.0	48	.3
270	150	.8	38	.2	0	0.0	0	0.0	0	0.0	188	1.0
280	575	3.1	102	.6	2	.0	0	0.0	0	0.0	679	3.7
290	478	2.6	220	1.2	24	.1	1	.0	0	0.0	723	3.9
300	352	1.9	370	3.1	332	1.5	34	.2	1	.0	1189	6.5
310	132	.7	322	1.8	191	1.0	44	.2	0	0.0	689	3.8
320	52	.3	121	.7	63	.3	3	.0	0	0.0	239	1.3
330	55	.3	120	.7	67	.4	13	.1	0	0.0	255	1.4
340	29	.2	82	.4	64	.3	6	.0	0	0.0	181	1.0
350	31	.2	102	.6	55	.3	4	.0	0	0.0	192	1.0
360	63	.3	96	.5	46	.3	1	.0	0	0.0	206	1.1
	2910	15.9	2296	12.5	819	4.5	111	.6	9	.0	6145	33.5

MEAN WIND SPEED 2

NUMBER OF CALM HRS 5235

PERCENT CALM 28.5

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

LAPSE RATE(OC/100M)*
(100=30FT)

1.51/ 4.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	10	.1	7	.0	2	.0	0	0.0	0	0.0	19	.1
20	5	.0	3	.0	0	0.0	0	0.0	0	0.0	8	.0
30	5	.0	3	.0	0	0.0	0	0.0	0	0.0	8	.0
40	7	.0	1	.0	0	0.0	0	0.0	0	0.0	8	.0
50	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
60	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0
70	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
80	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
90	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
100	9	.0	0	0.0	0	0.0	0	0.0	0	0.0	9	.0
110	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
120	10	.1	1	.0	0	0.0	0	0.0	0	0.0	11	.1
130	20	.1	4	.0	0	0.0	0	0.0	0	0.0	24	.1
140	19	.1	1	.0	0	0.0	0	0.0	0	0.0	20	.1
150	14	.1	2	.0	0	0.0	0	0.0	0	0.0	16	.1
160	10	.1	0	0.0	0	0.0	0	0.0	0	0.0	10	.1
170	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
180	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
250	9	.0	0	0.0	0	0.0	0	0.0	0	0.0	9	.0
260	15	.1	7	.0	0	0.0	0	0.0	0	0.0	22	.1
270	80	.4	42	.2	0	0.0	0	0.0	0	0.0	122	.7
280	269	1.5	90	.5	0	0.0	0	0.0	0	0.0	359	2.0
290	194	1.1	91	.5	0	0.0	0	0.0	0	0.0	285	1.6
300	96	.5	66	.4	4	.0	0	0.0	0	0.0	166	.9
310	13	.1	10	.1	3	.0	0	0.0	0	0.0	26	.1
320	3	.0	10	.1	0	0.0	0	0.0	0	0.0	13	.1
330	11	.1	9	.0	0	0.0	0	0.0	0	0.0	20	.1
340	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
350	5	.0	4	.0	0	0.0	0	0.0	0	0.0	9	.0
360	7	.0	8	.0	2	.0	0	0.0	0	0.0	17	.1
	838	4.4	366	2.0	11	.1	0	0.0	0	0.0	1215	6.6

MEAN WIND SPEED 1

NUMBER OF CALM HRS 1363

PERCENT CALM 7.4

PBAPS

WIND ROSE FOR STATION 11-3 VHS(8/67-7/70)

LOCATION 30FT

LAPSE RATE (DC/100M) •
(100-30FT)

4.01 / 6.0

		SPEEDS (MI/HR)											
		2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
1A	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0	
2A	1	.3	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
3A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
4A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
5A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
6A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
7A	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
8A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
9A	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0	
10A	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0	
11A	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0	
12A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
13A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
14A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
15A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
16A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
17A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
18A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
19A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
20A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
21A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
22A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
23A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
24A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
25A	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
26A	10	.1	0	0.0	0	0.0	0	0.0	0	0.0	10	.1	
27A	8	.0	2	.0	0	0.0	0	0.0	0	0.0	10	.1	
28A	12	.1	5	.0	0	0.0	0	0.0	0	0.0	17	.1	
29A	6	.0	6	.0	1	.0	0	0.0	0	0.0	13	.1	
30A	4	.0	7	.0	1	.0	0	0.0	0	0.0	12	.1	
31A	2	.0	3	.0	0	0.0	0	0.0	0	0.0	5	.0	
32A	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	3	.0	
33A	1	.0	5	.0	0	0.0	0	0.0	0	0.0	6	.0	
34A	0	0.0	4	.0	0	0.0	0	0.0	0	0.0	4	.0	
35A	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0	
36A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
	56	.3	41	.2	2	.0	0	0.0	0	0.0	99	.3	

MEAN WIND SPEED 1

NUMBER OF CALM HRS 161

PERCENT CALM .9

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 30FT

LAPSE RATE(OC/100M)•
(100=30FT)

QY 6.0

2-3			4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
290	2	.0	3	.0	0	0.0	0	0.0	0	0.0	5	.0
300	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
350	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
360	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
11	.1		8	.0	1	.0	0	0.0	0	0.0	20	.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 26

PERCENT CALY .1

PBAPS

WIND ROSE FOR STATION 11-3 YRS(6/67-7/70)

LOCATION 30FT

ALL CLASSES

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	71	.4	143	.8	81	.4	5	.0	0	0.0	300	1.6
20	40	.2	71	.4	22	.1	1	.0	0	0.0	134	.7
30	44	.2	60	.3	22	.1	0	0.0	0	0.0	126	.7
40	31	.2	36	.2	5	.0	3	.0	0	0.0	75	.4
50	12	.1	25	.1	3	.0	1	.0	0	0.0	41	.2
60	28	.2	26	.1	6	.0	0	0.0	0	0.0	60	.3
70	11	.1	33	.2	11	.1	2	.0	0	0.0	57	.3
80	13	.1	21	.1	12	.1	0	0.0	0	0.0	46	.3
90	43	.2	47	.3	8	.0	0	0.0	0	0.0	98	.5
100	56	.3	34	.2	8	.0	0	0.0	0	0.0	98	.5
110	43	.2	44	.2	14	.1	1	.0	0	0.0	102	.6
120	100	.5	107	.6	30	.2	5	.0	8	.0	250	1.4
130	199	1.1	107	.6	13	.1	6	.0	0	0.0	325	1.8
140	195	1.1	69	.4	3	.0	2	.0	0	0.0	269	1.5
150	312	1.7	87	.5	2	.0	0	0.0	0	0.0	401	2.2
160	283	1.5	68	.4	7	.0	0	0.0	0	0.0	358	2.0
170	52	.3	10	.1	0	0.0	0	0.0	0	0.0	62	.3
180	32	.2	13	.1	0	0.0	0	0.0	0	0.0	45	.2
190	6	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	9	.0	0	0.0	1	.0	0	0.0	0	0.0	10	.1
220	11	.1	2	.0	1	.0	0	0.0	0	0.0	14	.1
230	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
240	11	.1	1	.0	1	.0	0	0.0	0	0.0	13	.1
250	21	.1	5	.0	0	0.0	0	0.0	0	0.0	26	.1
260	73	.4	12	.1	1	.0	0	0.0	0	0.0	86	.5
270	260	1.4	90	.5	5	.0	0	0.0	0	0.0	355	1.9
280	910	5.0	216	1.2	18	.1	0	0.0	0	0.0	1144	6.2
290	725	4.0	360	2.0	43	.2	11	.1	0	0.0	1139	6.2
300	526	2.9	849	4.6	376	2.0	77	.4	3	.0	1831	10.0
310	187	1.0	513	2.8	417	2.3	107	.6	2	.0	1226	6.7
320	67	.4	195	1.1	154	.8	18	.1	1	.0	435	2.4
330	89	.5	194	1.1	114	.6	23	.1	0	0.0	420	2.3
340	53	.3	157	.9	132	.7	11	.1	1	.0	354	1.9
350	55	.3	154	.8	107	.6	10	.1	0	0.0	326	1.8
360	102	.6	167	.9	102	.6	7	.0	0	0.0	378	2.1
	4671	25.5	3918	21.4	1719	9.4	290	1.6	15	.1	10613	57.9

MISSING HOURS 7962

MEAN WIND SPEED 3

TOTAL NUMBER OF CALM HRS 7729

PERCENT CALM 42.1

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)-
(100-30FT)

LE-1,9

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	5	.0	11	.1	8	.0	3	.0	1	.0	28	.2
20	5	.0	11	.1	7	.0	3	.0	0	.0	26	.2
30	2	.0	5	.0	1	.0	4	.0	0	.0	12	.1
40	6	.0	5	.0	2	.0	1	.0	0	.0	14	.1
50	1	.0	1	.0	5	.0	0	.0	0	.0	7	.0
60	3	.0	5	.0	4	.0	0	.0	0	.0	12	.1
70	6	.0	2	.0	3	.0	0	.0	0	.0	11	.1
80	0	.0	1	.0	7	.0	0	.0	0	.0	8	.0
90	4	.0	3	.0	6	.0	0	.0	0	.0	13	.1
100	13	.1	5	.0	1	.0	0	.0	0	.0	19	.1
110	5	.0	8	.0	3	.0	0	.0	0	.0	16	.1
120	21	.1	20	.1	15	.1	6	.0	0	.0	62	.4
130	18	.1	44	.3	28	.2	1	.0	0	.0	91	.5
140	2	.0	1	.0	0	.0	0	.0	0	.0	3	.0
150	6	.0	4	.0	0	.0	0	.0	0	.0	10	.1
160	11	.1	11	.1	0	.0	0	.0	1	.0	23	.1
170	7	.0	24	.1	3	.0	2	.0	3	.0	39	.2
180	18	.1	19	.1	4	.0	2	.0	0	.0	43	.3
190	5	.0	5	.0	2	.0	0	.0	0	.0	12	.1
200	3	.0	2	.0	0	.0	0	.0	0	.0	5	.0
210	2	.0	0	.0	0	.0	0	.0	0	.0	2	.0
220	2	.0	2	.0	0	.0	0	.0	0	.0	4	.0
230	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
240	3	.0	3	.0	0	.0	0	.0	0	.0	6	.0
250	3	.0	9	.1	3	.0	0	.0	0	.0	15	.1
260	0	.0	4	.0	7	.0	7	.0	0	.0	18	.1
270	1	.0	10	.1	9	.1	10	.1	0	.0	30	.2
280	3	.0	10	.1	10	.1	4	.0	0	.0	27	.2
290	1	.0	15	.1	13	.1	6	.0	0	.0	35	.2
300	5	.0	6	.0	5	.0	1	.0	1	.0	18	.1
310	1	.0	9	.1	15	.1	0	.0	0	.0	25	.1
320	5	.0	10	.1	24	.1	4	.0	0	.0	43	.3
330	4	.0	22	.1	15	.1	4	.0	0	.0	45	.3
340	3	.0	12	.1	18	.1	3	.0	0	.0	36	.2
350	6	.0	8	.0	8	.0	0	.0	0	.0	22	.1
360	7	.0	5	.0	4	.0	1	.0	0	.0	17	.1
	187	1.1	312	1.9	830	1.4	62	.4	6	.0	797	4.8

MEAN WIND SPEED 5

NUMBER OF CALM HRS 173

PERCENT CALM 1.0

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)-
(100-30FT)

=1.89/-1.7

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	.0	1	.0	2	.0	0	.0	0	.0	3	.0
20	0	.0	0	.0	1	.0	1	.0	0	.0	3	.0
30	1	.0	0	.0	8	.0	1	.0	0	.0	2	.0
40	0	.0	2	.0	0	.0	0	.0	0	.0	2	.0
50	3	.0	0	.0	2	.0	0	.0	0	.0	5	.0
60	0	.0	0	.0	1	.0	0	.0	0	.0	1	.0
70	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
80	0	.0	0	.0	1	.0	0	.0	0	.0	1	.0
90	1	.0	0	.0	1	.0	0	.0	0	.0	2	.0
100	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
110	0	.0	1	.0	0	.0	0	.0	0	.0	1	.0
120	1	.0	4	.0	2	.0	0	.0	0	.0	7	.0
130	1	.0	1	.0	1	.0	1	.0	0	.0	4	.0
140	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
150	1	.0	0	.0	1	.0	0	.0	0	.0	2	.0
160	0	.0	1	.0	0	.0	0	.0	0	.0	1	.0
170	1	.0	3	.0	0	.0	0	.0	0	.0	4	.0
180	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
190	1	.0	0	.0	0	.0	0	.0	0	.0	1	.0
200	1	.0	0	.0	8	.0	0	.0	0	.0	1	.0
210	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
220	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
230	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
240	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
250	1	.0	2	.0	1	.0	1	.0	0	.0	5	.0
260	0	.0	0	.0	3	.0	4	.0	0	.0	8	.0
270	0	.0	0	.0	1	.0	6	.0	0	.0	7	.0
280	0	.0	1	.0	6	.0	3	.0	0	.0	10	.1
290	1	.0	0	.0	4	.0	1	.0	1	.0	9	.1
300	0	.0	0	.0	1	.0	1	.0	0	.0	3	.0
310	1	.0	4	.0	0	.0	0	.0	0	.0	5	.0
320	0	.0	1	.0	4	.0	1	.0	0	.0	6	.0
330	1	.0	2	.0	3	.0	1	.0	0	.0	7	.0
340	0	.0	1	.0	1	.0	1	.0	0	.0	3	.0
350	0	.0	2	.0	0	.0	1	.0	0	.0	3	.0
360	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
	15	.1	27	.2	36	.2	25	.1	5	.0	106	.6

MEAN WIND SPEED 9

NUMBER OF CALM HRS 3

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)•
(100-30FT)

-1.69/-1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
20	0	0.0	0	0.0	0	0.0	2	.0	1	.0	3	.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	1	.0	2	.0	1	.0	0	0.0	0	0.0	4	.0
50	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
60	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
130	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
260	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
270	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	2	.0
280	1	.0	0	0.0	4	.0	0	0.0	0	0.0	5	.0
290	0	0.0	0	0.0	1	.0	3	.0	0	0.0	4	.0
300	0	0.0	0	0.0	4	.0	0	0.0	0	0.0	4	.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
	3	.0	11	.1	15	.1	10	.1	1	.0	40	.2

MEAN WIND SPEED 9

NUMBER OF CALM HRS 2

PERCENT CALM .0

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)•
(100-30FT)

-1.49/-0.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	7	.0	11	.1	28	.2	13	.1	0	0.0	59	.4
20	8	.0	10	.1	18	.1	11	.1	4	.0	51	.3
30	5	.0	17	.1	17	.1	6	.0	1	.0	46	.3
40	8	.0	15	.1	16	.1	7	.0	0	0.0	46	.3
50	3	.0	8	.0	7	.0	9	.1	0	0.0	27	.2
60	5	.0	10	.1	10	.1	5	.0	0	0.0	30	.2
70	1	.0	13	.1	5	.0	2	.0	0	0.0	21	.1
80	2	.0	11	.1	9	.1	4	.0	2	.0	28	.2
90	6	.0	7	.0	12	.1	9	.1	0	0.0	34	.2
100	6	.0	11	.1	7	.0	4	.0	1	.0	29	.2
110	9	.1	24	.1	11	.1	7	.0	6	.0	57	.3
120	27	.2	47	.3	25	.1	6	.0	3	.0	108	.6
130	56	.3	56	.3	33	.2	5	.0	0	0.0	150	.9
140	17	.1	22	.1	3	.0	1	.0	0	0.0	43	.3
150	24	.1	13	.1	11	.1	0	0.0	0	0.0	48	.3
160	15	.1	9	.1	1	.0	1	.0	0	0.0	26	.2
170	11	.1	12	.1	7	.0	0	0.0	0	0.0	30	.2
180	2	.0	20	.1	8	.0	1	.0	0	0.0	31	.2
190	10	.1	14	.1	2	.0	0	0.0	0	0.0	26	.2
200	6	.0	4	.0	0	0.0	0	0.0	0	0.0	10	.1
210	5	.0	4	.0	0	0.0	0	0.0	0	0.0	9	.1
220	7	.0	2	.0	1	.0	0	0.0	0	0.0	10	.1
230	4	.0	1	.0	0	0.0	0	0.0	0	0.0	5	.0
240	5	.0	12	.1	0	0.0	0	0.0	0	0.0	17	.1
250	9	.1	23	.1	5	.0	0	0.0	0	0.0	37	.2
260	7	.0	34	.2	12	.1	17	.1	1	.0	71	.4
270	7	.0	25	.1	19	.1	17	.1	0	0.0	68	.4
280	8	.0	36	.2	66	.4	40	.2	1	.0	151	.9
290	9	.1	44	.3	78	.5	47	.3	8	.0	186	1.1
300	8	.0	39	.2	76	.5	42	.3	4	.0	149	1.0
310	6	.0	43	.3	53	.3	26	.2	1	.0	129	.8
320	10	.1	31	.2	51	.3	41	.2	7	.0	140	.8
330	9	.1	28	.2	66	.4	41	.2	5	.0	149	.9
340	6	.0	20	.1	61	.4	49	.3	2	.0	138	.8
350	3	.0	27	.2	39	.2	20	.1	1	.0	90	.5
360	3	.0	22	.1	32	.2	33	.2	0	0.0	90	.5
	334	2.0	725	4.3	789	4.7	464	2.8	47	.3	2359	14.2

MEAN WIND SPEED 7

NUMBER OF CALM HRS 304

PERCENT CALM 1.8

PBAPS

WIND ROSE FOR STATION 11-3 VMS(R/6/-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)*
(100-30FT)

-0.49/ 1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	14	.1	45	.3	26	.2	1	.0	0	0.0	86	.5
20	22	.1	30	.2	25	.1	5	.0	1	0.0	83	.5
30	20	.1	33	.2	24	.1	5	.0	0	0.0	82	.5
40	12	.1	18	.1	13	.1	1	.0	0	0.0	44	.3
50	11	.1	13	.1	9	.1	0	0.0	0	0.0	33	.2
60	9	.1	17	.1	3	.0	0	0.0	0	0.0	29	.2
70	19	.1	14	.1	5	.0	0	0.0	1	0.0	39	.2
80	13	.1	10	.1	1	.0	1	.0	9	.1	34	.2
90	15	.1	10	.1	4	.0	1	.0	1	0.0	31	.2
100	29	.2	23	.1	10	.1	4	.0	3	.0	69	.4
110	27	.2	35	.2	11	.1	6	.0	2	.0	81	.5
120	75	.4	94	.6	55	.3	4	.0	1	.0	229	1.4
130	149	.9	150	.9	69	.4	14	.1	0	0.0	382	2.3
140	116	.7	118	.7	31	.2	2	.0	0	0.0	267	1.6
150	178	1.1	129	.8	49	.3	5	.0	0	0.0	361	2.2
160	83	.5	62	.4	11	.1	1	.0	0	0.0	157	.9
170	51	.3	19	.1	13	.1	0	0.0	0	0.0	83	.5
180	52	.3	33	.2	18	.1	8	.0	0	0.0	111	.7
190	43	.3	33	.2	3	.0	0	0.0	0	0.0	79	.5
200	18	.1	11	.1	0	0.0	0	0.0	0	0.0	29	.2
210	25	.1	9	.1	0	0.0	0	0.0	0	0.0	34	.2
220	44	.3	16	.1	2	.0	0	0.0	0	0.0	62	.4
230	34	.2	19	.1	1	.0	0	0.0	0	0.0	54	.3
240	75	.4	89	.5	2	.0	0	0.0	0	0.0	166	1.0
250	117	.7	164	1.0	17	.1	0	0.0	0	0.0	300	1.8
260	109	.7	146	.9	32	.2	2	.0	0	0.0	289	1.7
270	120	.7	185	1.1	53	.3	6	.0	0	0.0	364	2.2
280	119	.7	211	1.3	98	.6	14	.1	0	0.0	442	2.7
290	94	.6	170	1.0	131	.8	34	.2	1	.0	430	2.6
300	79	.5	206	1.2	180	1.1	29	.2	1	.0	495	3.0
310	80	.5	169	1.0	187	1.1	43	.3	1	.0	480	2.9
320	28	.2	98	.6	79	.5	30	.2	3	.0	238	1.4
330	42	.3	129	.8	110	.7	44	.3	2	.0	327	2.0
340	37	.2	87	.5	100	.6	22	.1	2	.0	248	1.5
350	22	.1	86	.5	65	.4	26	.2	0	0.0	199	1.2
360	33	.2	68	.4	58	.3	10	.1	1	.0	170	1.0
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2014	12.1		2751	16.5	1495	9.0	318	1.9	29	.2	6607	39.6

MEAN WIND SPEED 3

NUMBER OF CALM HRS 3710

PERCENT CALM

22.3

WIND ROSE FOR STATION 11-3 VRS(8/6/-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)*
(100-30FT)

1.51/ 4.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	5	.0	11	.1	0	0.0	0	0.0	0	0.0	16	.1
20	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
30	8	.0	2	.0	0	0.0	0	0.0	0	0.0	10	.1
40	7	.0	0	0.0	0	0.0	0	0.0	0	0.0	7	.0
50	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.0
60	4	.0	3	.0	0	0.0	0	0.0	0	0.0	7	.0
70	0	.0	0	0.0	0	0.0	0	0.0	0	0.0	0	.0
80	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
90	6	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.0
100	8	.0	3	.0	0	0.0	0	0.0	0	0.0	11	.1
110	8	.0	6	.0	0	0.0	0	0.0	0	0.0	14	.1
120	23	.1	14	.1	0	0.0	0	0.0	0	0.0	37	.2
130	16	.1	10	.1	5	.0	0	0.0	0	0.0	31	.2
140	9	.1	2	.0	1	.0	0	0.0	0	0.0	12	.1
150	12	.1	6	.0	0	0.0	0	0.0	0	0.0	18	.1
160	12	.1	7	.0	0	0.0	0	0.0	0	0.0	19	.1
170	11	.1	5	.0	0	0.0	0	0.0	0	0.0	16	.1
180	4	.0	2	.0	0	0.0	1	.0	0	0.0	7	.0
190	9	.1	0	0.0	0	0.0	0	0.0	0	0.0	9	.1
200	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	15	.1	2	.0	0	0.0	0	0.0	0	0.0	17	.1
230	14	.1	5	.0	0	0.0	0	0.0	0	0.0	19	.1
240	23	.1	23	.1	1	.0	0	0.0	0	0.0	47	.3
250	40	.2	51	.3	7	.0	0	0.0	0	0.0	98	.6
260	34	.2	32	.2	5	.0	0	0.0	0	0.0	71	.4
270	55	.3	50	.3	9	.1	0	0.0	0	0.0	114	.7
280	90	.3	60	.4	18	.1	0	0.0	0	0.0	128	.8
290	21	.1	38	.2	16	.1	0	0.0	0	0.0	75	.4
300	24	.1	28	.2	3	.0	0	0.0	0	0.0	55	.3
310	17	.1	22	.2	9	.1	0	0.0	0	0.0	48	.3
320	8	.0	11	.1	3	.0	0	0.0	0	0.0	22	.1
330	11	.1	12	.1	6	.0	0	0.0	0	0.0	29	.2
340	9	.1	8	.0	8	.0	1	.0	0	0.0	26	.2
350	7	.0	9	.1	3	.0	1	.0	0	0.0	20	.1
360	6	.0	14	.1	1	.0	0	0.0	0	0.0	21	.1
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493	3.0		441	2.6	95	.6	3	.0	0	0.0	1032	6.2

MEAN WIND SPEED 2

NUMBER OF CALM HRS 1229

PERCENT CALM

7.4

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)-
(100-30FT)

4.01/ 6.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.0
100	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
150	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
160	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
230	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
240	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.0
250	0	0.0	6	.0	1	.0	0	0.0	0	0.0	7	.0
260	6	.0	5	.0	0	0.0	0	0.0	0	0.0	11	.0
270	6	.0	8	.0	0	0.0	0	0.0	0	0.0	14	.0
280	6	.0	3	.0	1	.0	0	0.0	0	0.0	10	.0
290	1	.0	5	.0	1	.0	0	0.0	0	0.0	7	.0
300	3	.0	3	.0	2	.0	0	0.0	0	0.0	8	.0
310	5	.0	4	.0	2	.0	0	0.0	0	0.0	11	.0
320	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
330	1	.0	6	.0	0	0.0	0	0.0	0	0.0	7	.0
340	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
350	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
360	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
	51	.0	53	.0	8	.0	0	0.0	0	0.0	112	.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 149

PERCENT CALM .9

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION 100FT

LAPSE RATE(OC/100M)-
(100-30FT)

GT 6.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
140	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0
150	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
270	2	.0	0	0.0	2	.0	0	0.0	0	0.0	4	.0
280	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
290	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
300	4	.0	1	.0	1	.0	0	0.0	0	0.0	6	.0
310	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	19	.0	8	.0	3	.0	0	0.0	0	0.0	30	.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 15

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 11-3 YRS(6/67-7/70)

LOCATION 100FT

ALL CLASSES

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	32	.2	79	.5	64	.4	17	.1	1	.0	193	1.2
20	38	.2	51	.3	51	.3	22	.1	7	.0	169	1.0
30	37	.2	57	.3	42	.3	16	.1	1	.0	153	.9
40	34	.2	42	.3	32	.2	9	.1	0	0.0	117	.7
50	20	.1	25	.1	24	.1	9	.1	0	0.0	78	.5
60	21	.1	36	.2	18	.1	5	.0	0	0.0	80	.5
70	34	.2	29	.2	13	.1	2	.0	1	.0	79	.5
80	17	.1	24	.1	18	.1	6	.0	11	.1	76	.5
90	34	.2	23	.1	23	.1	10	.1	1	.0	91	.5
100	58	.3	43	.3	18	.1	8	.0	4	.0	131	.8
110	50	.3	74	.4	25	.1	13	.1	8	.0	170	1.0
120	150	.9	181	1.1	97	.6	16	.1	4	.0	448	2.7
130	242	1.5	262	1.6	136	.8	21	.1	0	0.0	661	4.0
140	150	.9	145	.9	35	.2	3	.0	0	0.0	333	2.0
150	225	1.3	153	.9	61	.4	5	.0	0	0.0	444	2.7
160	122	.7	91	.5	12	.1	2	.0	1	.0	228	1.4
170	82	.5	64	.4	23	.1	2	.0	3	.0	174	1.0
180	76	.5	74	.4	30	.2	12	.1	0	0.0	192	1.2
190	68	.4	52	.3	7	.0	0	0.0	0	0.0	127	.8
200	33	.2	17	.1	0	0.0	0	0.0	0	0.0	50	.3
210	32	.2	13	.1	0	0.0	0	0.0	0	0.0	45	.3
220	69	.4	22	.1	3	.0	0	0.0	0	0.0	94	.6
230	52	.3	26	.2	1	.0	0	0.0	0	0.0	79	.5
240	108	.6	129	.8	3	.0	0	0.0	0	0.0	240	1.4
250	170	1.0	258	1.5	34	.2	1	.0	0	0.0	463	2.8
260	156	.9	223	1.3	59	.4	31	.2	1	.0	470	2.8
270	191	1.1	278	1.7	93	.6	41	.2	0	0.0	603	3.6
280	187	1.1	322	1.9	203	1.2	61	.4	1	.0	774	4.6
290	129	.8	273	1.6	244	1.5	93	.6	10	.1	749	4.5
300	123	.7	283	1.7	272	1.6	73	.4	7	.0	758	4.5
310	111	.7	251	1.5	266	1.6	69	.4	2	.0	699	4.2
320	52	.3	181	.9	162	1.0	77	.5	10	.1	452	2.7
330	69	.4	280	1.2	200	1.2	90	.5	7	.0	566	3.4
340	55	.3	131	.8	189	1.1	76	.5	4	.0	455	2.7
350	39	.2	135	.8	116	.7	48	.3	1	.0	339	2.0
360	50	.3	111	.7	97	.6	44	.3	1	.0	303	1.8
											11083	66.5
											MISSING HOURS	9636

MEAN WIND SPEED 4

TOTAL NUMBER OF CALM HRS 5585

PERCENT CALM 33.5

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

LAPSE RATE(OC/100M)•
(100-30FT)

LE-2,9

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	3	.0	2	.0	0	0.0	0	0.0	6	.0
20	6	.0	11	.1	3	.0	0	0.0	0	0.0	20	.1
30	3	.0	5	.0	6	.0	0	0.0	0	0.0	14	.1
40	8	.0	12	.1	2	.0	0	0.0	0	0.0	22	.1
50	10	.1	15	.1	16	.1	11	.4	0	0.0	52	.3
60	8	.0	16	.1	12	.1	6	.4	0	0.0	42	.3
70	3	.0	9	.1	3	.0	3	.0	0	0.0	16	.1
80	8	.0	11	.1	9	.1	2	.0	0	0.0	30	.2
90	8	.0	6	.0	8	.1	3	.0	0	0.0	25	.2
100	10	.1	9	.1	3	.0	0	0.0	0	0.0	22	.1
110	5	.0	15	.1	10	.1	0	0.0	0	0.0	30	.2
120	7	.0	19	.1	10	.1	1	.0	0	0.0	37	.2
130	5	.0	12	.1	8	.0	0	0.0	0	0.0	25	.2
140	4	.0	12	.1	7	.0	0	0.0	0	0.0	23	.1
150	6	.0	17	.1	19	.1	4	.0	0	0.0	46	.3
160	4	.0	12	.1	18	.1	2	.0	1	.0	37	.2
170	8	.0	15	.1	6	.0	0	0.0	0	0.0	29	.2
180	3	.0	17	.1	7	.0	1	.0	0	0.0	28	.2
190	3	.0	15	.1	22	.1	8	.0	0	0.0	48	.3
200	6	.0	19	.1	5	.0	4	.0	0	0.0	37	.2
210	5	.0	12	.1	1	.0	5	.0	0	0.0	23	.1
220	3	.0	29	.2	8	.0	1	.0	0	0.0	41	.2
230	14	.1	38	.2	10	.1	4	.0	0	0.0	66	.4
240	7	.0	26	.2	11	.1	8	.0	0	0.0	52	.3
250	4	.0	0	.0	0	.0	0	0.0	0	0.0	8	.0
260	9	.1	11	.1	3	.0	0	0.0	0	0.0	23	.1
270	4	.0	2	.0	0	.0	0	0.0	0	0.0	6	.0
280	11	.1	11	.1	2	.0	0	0.0	0	0.0	24	.1
290	8	.0	7	.0	9	.1	3	.0	0	0.0	27	.2
300	9	.1	12	.1	3	.0	2	.0	0	0.0	26	.2
310	2	.0	5	.0	1	.0	0	0.0	0	0.0	8	.0
320	4	.0	10	.1	0	.0	1	.0	0	0.0	15	.1
330	1	.0	7	.0	3	.0	0	0.0	0	0.0	11	.1
340	3	.0	9	.1	3	.0	0	0.0	0	0.0	15	.1
350	1	.0	6	.0	4	.0	0	0.0	0	0.0	11	.1
360	2	.0	4	.0	5	.0	0	0.0	0	0.0	11	.1
	203	1.2	443	2.7	242	1.5	69	.4	1	.0	958	5.8

MEAN WIND SPEED 5

NUMBER OF CALM HRS 106

PERCENT CALM .6

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

LAPSE RATE(OC/100M)•
(100-30FT)

-1.89/-1.7

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	2	.0	1	.0	0	0.0	0	0.0	3	.0
20	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
30	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
40	0	0.0	0	0.0	4	.0	1	.0	0	0.0	5	.0
50	0	0.0	0	0.0	2	.0	6	.0	0	0.0	8	.0
60	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	2	.0	3	.0	1	.0	6	.0
90	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
100	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
110	0	0.0	0	0.0	3	.0	1	.0	0	0.0	4	.0
120	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
130	0	0.0	3	.0	4	.0	0	0.0	0	0.0	7	.0
140	0	0.0	1	.0	4	.0	0	0.0	0	0.0	5	.0
150	0	0.0	4	.0	2	.0	0	0.0	0	0.0	6	.0
160	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.0
170	2	.0	0	0.0	2	.0	0	0.0	0	0.0	4	.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
200	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
210	0	0.0	1	.0	2	.0	1	.0	0	0.0	4	.0
220	2	.0	2	.0	0	0.0	1	.0	0	0.0	5	.0
230	1	.0	1	.0	1	.0	4	.0	0	0.0	7	.0
240	1	.0	1	.0	0	0.0	2	.0	0	0.0	4	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
270	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
280	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
290	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
300	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	2	.0	0	0.0	2	.0	0	0.0	4	.0
340	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
350	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
360	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
	12	.1	29	.2	38	.2	25	.2	1	.0	105	.6

MEAN WIND SPEED 6

NUMBER OF CALM HRS 7

PERCENT CALM .0

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION MILL

LAPSE RATE(OC/100M)-
(100-30FT)

=1.49/-1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.0
30	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
40	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
50	1	0.0	0	0.0	3	0.0	1	0.0	0	0.0	5	0.0
60	0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	2	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	2	0.0
90	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	3	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
150	0	0.0	0	0.0	1	0.0	1	0.0	0	0.0	2	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	1	0.0	1	0.0	1	0.0	0	0.0	0	0.0	3	0.0
180	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
190	2	0.0	1	0.0	2	0.0	0	0.0	0	0.0	5	0.0
200	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
230	0	0.0	1	0.0	2	0.0	1	0.0	0	0.0	4	0.0
240	1	0.0	0	0.0	2	0.0	0	0.0	0	0.0	3	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
300	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	2	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	6	.0	9	.1	17	.1	8	.0	2	.0	42	.3

MEAN WIND SPEED 9

NUMBER OF CALM HRS 1

PERCENT CALM .0

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION MILL

LAPSE RATE(OC/100M)-
(100-30FT)

=1.49/-0.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	9	.1	14	.1	15	.1	9	.1	2	.0	49	.3
20	4	.0	28	.2	9	.1	2	.0	1	.0	44	.3
30	4	.0	23	.1	16	.1	4	.0	0	0.0	47	.3
40	5	.0	12	.1	11	.1	5	.0	0	0.0	33	.2
50	5	.0	16	.1	7	.0	17	.1	1	.0	46	.3
60	7	.0	11	.1	16	.1	8	.0	4	.0	46	.3
70	5	.0	9	.1	11	.1	11	.1	3	.0	39	.2
80	6	.0	22	.1	24	.1	17	.1	4	.0	73	.4
90	12	.1	34	.2	25	.2	18	.1	2	.0	91	.6
100	17	.1	25	.2	14	.1	10	.1	1	.0	62	.4
110	26	.2	41	.2	25	.2	9	.1	3	.0	104	.6
120	21	.1	42	.3	14	.1	4	.0	0	0.0	81	.5
130	9	.1	21	.1	17	.1	1	.0	0	0.0	48	.3
140	10	.1	41	.2	28	.2	4	.0	0	0.0	83	.5
150	16	.1	22	.1	24	.1	9	.1	0	0.0	71	.4
160	15	.1	13	.1	20	.1	25	.2	0	0.0	73	.4
170	17	.1	18	.1	14	.1	6	.0	0	0.0	55	.3
180	10	.1	15	.1	9	.1	2	.0	0	0.0	36	.2
190	12	.1	16	.1	6	.0	4	.0	0	0.0	38	.2
200	14	.1	19	.1	8	.0	4	.0	0	0.0	45	.3
210	10	.1	22	.1	13	.1	3	.0	0	0.0	41	.2
220	9	.1	22	.1	15	.1	10	.1	1	.0	57	.3
230	8	.0	19	.1	28	.2	22	.1	4	.0	81	.5
240	14	.1	19	.1	19	.1	19	.1	0	0.0	71	.4
250	22	.1	33	.2	22	.1	10	.1	0	0.0	87	.5
260	13	.1	22	.1	21	.1	4	.0	0	0.0	60	.4
270	8	.0	33	.2	49	.3	11	.1	7	.0	108	.7
280	3	.0	42	.3	39	.2	23	.1	1	.0	108	.7
290	11	.1	33	.2	36	.2	6	.0	3	.0	89	.5
300	14	.1	48	.3	40	.2	5	.0	0	0.0	107	.6
310	14	.1	37	.2	34	.2	4	.0	0	0.0	89	.5
320	5	.0	18	.1	13	.1	1	.0	0	0.0	37	.2
330	8	.0	31	.2	26	.2	3	.0	0	0.0	68	.4
340	10	.1	27	.2	26	.2	9	.1	0	0.0	72	.4
350	12	.1	25	.2	27	.2	9	.1	0	0.0	73	.4
360	5	.0	25	.2	34	.2	16	.1	4	.0	84	.5
	389	2.3	891	5.4	759	4.6	324	2.0	41	.2	2396	14.5

MEAN WIND SPEED 7

NUMBER OF CALM HRS 257

PERCENT CALM 1.6

PBAPS

WIND ROSE FOR STATION 11-3 YRS(6/67-7/70)

LOCATION WILL

LAPSE RATE(OC/100M)*
(100-30FT)

-0.49/ 1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	26	.2	56	.3	30	.2	12	.1	1	.0	125	.8
20	25	.2	56	.3	17	.1	3	.0	0	0.0	101	.6
30	29	.2	56	.3	10	.1	3	.0	0	0.0	98	.6
40	31	.2	49	.3	15	.1	0	0.0	0	0.0	95	.6
50	48	.3	37	.2	19	.1	1	.0	1	.0	106	.6
60	32	.2	40	.2	19	.1	5	.0	1	.0	97	.6
70	53	.3	52	.3	21	.1	4	.0	1	.0	131	.8
80	48	.3	68	.4	14	.1	2	.0	1	.0	133	.8
90	87	.5	84	.5	30	.2	5	.0	0	0.0	206	1.2
100	70	.4	100	.6	17	.1	4	.0	0	0.0	191	1.2
110	109	.7	147	.9	18	.1	7	.0	2	.0	243	1.7
120	86	.5	114	.7	29	.2	4	.0	0	0.0	233	1.4
130	60	.4	69	.4	20	.1	1	.0	0	0.0	150	.9
140	49	.3	58	.4	25	.2	3	.0	0	0.0	135	.8
150	64	.4	61	.4	30	.2	5	.0	1	.0	161	1.0
160	72	.4	79	.5	44	.3	20	.1	0	0.0	215	1.3
170	71	.4	93	.6	64	.4	16	.1	0	0.0	244	1.5
180	78	.5	148	.9	32	.2	16	.1	0	0.0	274	1.7
190	78	.5	127	.8	33	.2	7	.0	0	0.0	245	1.5
200	51	.3	97	.6	28	.2	10	.1	0	0.0	186	1.1
210	59	.4	108	.7	36	.2	21	.1	1	.0	225	1.4
220	55	.3	87	.5	38	.2	21	.1	3	.0	204	1.2
230	63	.4	56	.3	42	.3	23	.1	13	.1	197	1.2
240	111	.7	139	.8	57	.3	28	.2	6	.0	341	2.1
250	157	1.0	167	1.0	45	.3	6	.0	3	.0	378	2.3
260	103	.6	106	.6	32	.2	4	.0	0	0.0	245	1.5
270	89	.5	135	.8	69	.4	10	.1	0	0.0	303	1.8
280	82	.5	135	.8	73	.4	12	.1	0	0.0	302	1.8
290	58	.4	141	.9	42	.3	6	.0	0	0.0	247	1.5
300	70	.4	130	.8	55	.3	11	.1	0	0.0	266	1.6
310	54	.3	67	.4	32	.2	3	.0	1	.0	157	1.0
320	28	.2	53	.3	23	.1	0	0.0	0	0.0	104	.6
330	53	.3	84	.5	33	.2	6	.0	1	.0	177	1.1
340	42	.3	75	.5	57	.3	7	.0	0	0.0	181	1.1
350	25	.2	85	.5	61	.4	6	.0	1	.0	178	1.1
360	25	.2	87	.5	78	.5	12	.1	1	.0	203	1.2
2241	17.6		3246	19.6	1288	7.8	304	1.8	38	.2	7117	43.1

MEAN WIND SPEED 4

NUMBER OF CALM HRS 3077

PERCENT CALM 18.2

WIND ROSE FOR STATION 11-3 YRS(6/67-7/70)

LOCATION WILL

LAPSE RATE(OC/100M)*
(100-30FT)

1.51/ 4.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	6	.0	5	.0	0	0.0	0	0.0	0	0.0	11	.1
20	15	.1	16	.1	2	.0	0	0.0	1	.0	34	.2
30	18	.1	30	.2	4	.0	0	0.0	1	.0	53	.3
40	5	.0	20	.1	3	.0	0	0.0	0	0.0	28	.2
50	9	.1	10	.1	0	0.0	0	0.0	1	.0	20	.1
60	27	.2	14	.1	1	.0	0	0.0	0	0.0	42	.3
70	12	.1	7	.0	0	0.0	0	0.0	0	0.0	19	.1
80	25	.2	4	.0	0	0.0	0	0.0	0	0.0	29	.2
90	16	.1	9	.1	3	.0	0	0.0	0	0.0	28	.2
100	12	.1	19	.1	2	.0	0	0.0	0	0.0	33	.2
110	12	.1	20	.1	0	0.0	0	0.0	0	0.0	32	.2
120	16	.1	11	.1	2	.0	0	0.0	0	0.0	29	.2
130	17	.1	11	.1	1	.0	0	0.0	0	0.0	29	.2
140	17	.1	7	.0	0	0.0	0	0.0	0	0.0	24	.1
150	14	.1	13	.1	1	.0	0	0.0	0	0.0	28	.2
160	15	.1	12	.1	2	.0	0	0.0	0	0.0	29	.2
170	11	.1	9	.1	3	.0	0	0.0	0	0.0	23	.1
180	19	.1	12	.1	1	.0	0	0.0	0	0.0	32	.2
190	15	.1	8	.0	0	0.0	0	0.0	0	0.0	23	.1
200	7	.0	14	.1	0	0.0	0	0.0	0	0.0	21	.1
210	26	.2	20	.1	1	.0	0	0.0	0	0.0	47	.3
220	30	.2	22	.1	2	.0	0	0.0	0	0.0	56	.3
230	30	.2	18	.1	1	.0	0	0.0	0	0.0	49	.3
240	36	.2	42	.3	1	.0	0	0.0	0	0.0	79	.5
250	48	.3	39	.2	1	.0	0	0.0	1	.0	85	.5
260	27	.2	29	.2	2	.0	0	0.0	0	0.0	58	.4
270	23	.1	20	.1	4	.0	0	0.0	0	0.0	47	.3
280	21	.1	12	.1	5	.0	0	0.0	0	0.0	38	.2
290	9	.1	17	.1	0	0.0	0	0.0	0	0.0	26	.2
300	10	.1	6	.0	2	.0	0	0.0	0	0.0	18	.1
310	9	.1	6	.0	0	0.0	0	0.0	0	0.0	15	.1
320	5	.0	5	.0	0	0.0	0	0.0	0	0.0	10	.1
330	11	.1	5	.0	0	0.0	0	0.0	1	.0	17	.1
340	6	.0	5	.0	1	.0	0	0.0	0	0.0	12	.1
350	9	.1	9	.1	1	.0	0	0.0	0	0.0	19	.1
360	9	.1	4	.0	2	.0	0	0.0	0	0.0	15	.1
599	3.6		586	3.1	48	.3	0	0.0	5	.0	1158	7.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 1105

PERCENT CALM 6.7

PBAPS

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

LAPSE RATE(OC/100M)-
(100-30FT)

4.01/ 6.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
30	3	0.0	3	0.0	0	0.0	0	0.0	0	0.0	6	0.0
40	0	0.0	1	0.0	2	0.0	0	0.0	0	0.0	3	0.0
50	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
60	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
90	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
100	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
110	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
140	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
150	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
160	3	0.0	3	0.0	0	0.0	0	0.0	0	0.0	6	0.0
170	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
180	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
190	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	4	0.0	3	0.0	0	0.0	0	0.0	0	0.0	7	0.0
220	5	0.0	6	0.0	0	0.0	0	0.0	0	0.0	11	0.0
230	4	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.0
240	6	0.0	4	0.0	0	0.0	0	0.0	0	0.0	10	0.0
250	4	0.0	4	0.0	0	0.0	0	0.0	0	0.0	8	0.0
260	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	3	0.0
270	1	0.0	6	0.0	0	0.0	0	0.0	0	0.0	7	0.0
280	1	0.0	5	0.0	0	0.0	0	0.0	0	0.0	6	0.0
290	0	0.0	0	0.0	1	0.0	0	0.0	3	0.0	1	0.0
300	1	0.0	2	0.0	0	0.0	0	0.0	0	0.0	3	0.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.0
330	2	0.0	4	0.0	0	0.0	0	0.0	0	0.0	6	0.0
340	2	0.0	1	0.0	1	0.0	0	0.0	0	0.0	4	0.0
350	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
360	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
											115	0.7
											58	.4
											52	.3
											5	.0
											0	0.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 109

PERCENT CALM .7

WIND ROSE FOR STATION 11-3 YRS(8/67-7/70)

LOCATION HILL

LAPSE RATE(OC/100M)-
(100-30FT)

GT 6.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
160	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
170	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
180	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	2	0.0
190	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
200	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
210	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
220	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
230	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
240	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270	2	0.0	2	0.0	0	0.0	0	0.0	0	0.0	4	0.0
280	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
310	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
											24	.1
											13	.1
											11	.1
											0	0.0
											0	0.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 15

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 11-3 YRS(6/67-7/70)

LOCATION WILL

ALL CLASSES

SPEEDS(MI/HR)												
2-3		4-5		6-12		13-18		19 PLUS		SUM	PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	42	.3	80	.4	48	.3	21	.1	3	.0	194	1.2
20	51	.3	141	.7	32	.2	6	.0	2	.0	202	1.2
30	57	.3	149	.7	37	.2	7	.0	1	.0	221	1.3
40	49	.3	94	.6	37	.2	7	.0	0	.0	187	1.1
50	74	.4	78	.4	47	.3	36	.2	3	.0	238	1.4
60	75	.4	82	.4	49	.3	21	.1	6	.0	233	1.4
70	73	.4	77	.4	35	.2	18	.1	4	.0	207	1.3
80	88	.5	105	.6	49	.3	25	.1	7	.0	274	1.7
90	125	.8	134	.8	70	.4	26	.1	2	.0	357	2.2
100	105	.6	155	.9	37	.2	14	.1	1	.0	312	1.9
110	155	.9	223	1.3	57	.3	17	.1	5	.0	457	2.8
120	130	.8	187	1.1	57	.3	9	.1	0	.0	383	2.3
130	94	.6	116	.7	48	.3	2	.0	0	.0	260	1.6
140	81	.5	120	.7	64	.4	7	.0	0	.0	272	1.6
150	101	.6	149	.7	77	.5	19	.1	1	.0	317	1.9
160	110	.7	120	.7	85	.5	48	.3	1	.0	364	2.2
170	112	.7	138	.8	90	.5	22	.1	0	.0	362	2.2
180	113	.7	195	1.2	49	.3	19	.1	0	.0	376	2.3
190	113	.7	169	1.0	65	.4	19	.1	0	.0	366	2.2
200	80	.5	150	.9	45	.3	19	.1	0	.0	294	1.8
210	105	.6	160	1.0	53	.3	30	.2	1	.0	349	2.1
220	108	.7	169	1.0	63	.4	34	.2	4	.0	378	2.3
230	121	.7	134	.8	84	.5	54	.3	17	.1	410	2.5
240	178	1.1	232	1.4	90	.5	57	.3	6	.0	563	3.4
250	235	1.4	243	1.5	68	.4	16	.1	4	.0	566	3.4
260	153	.9	171	1.0	59	.4	8	.0	0	.0	391	2.4
270	127	.8	198	1.2	124	.8	22	.1	7	.0	478	2.9
280	119	.7	207	1.3	119	.7	35	.2	1	.0	481	2.9
290	87	.5	200	1.2	88	.5	15	.1	3	.0	393	2.4
300	105	.6	200	1.2	100	.6	18	.1	0	.0	423	2.6
310	79	.5	145	.7	67	.4	7	.0	1	.0	269	1.6
320	42	.3	86	.5	37	.2	2	.0	0	.0	167	1.0
330	75	.5	133	.8	62	.4	11	.1	2	.0	283	1.7
340	64	.4	117	.7	88	.5	16	.1	0	.0	285	1.7
350	48	.3	128	.8	93	.6	15	.1	1	.0	285	1.7
360	43	.3	122	.7	120	.7	28	.2	5	.0	318	1.9
	3517	21.3	5187	31.4	2393	14.5	730	4.4	88	.5	11915	72.1

MISSING HOURS 9782

MEAN WIND SPEED 4

TOTAL NUMBER OF CALM HRS 4607

PERCENT CALM

27.9

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 251 T

LAPSE RATE (OC/100M) -
(32F-75F)

1 F-1.9

2-3			4-7			SPEEDS (MI/HR) 8-12			13-18			19 PLUS			SUM PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	3	.0	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0		
20	3	.0	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0		
30	8	.0	5	.0	1	0.0	0	0.0	0	0.0	0	0.0	14	.1		
40	9	.0	9	.0	0	0.0	0	0.0	0	0.0	0	0.0	18	.1		
50	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0		
60	6	.0	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	8	.0		
70	5	.0	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	11	.1		
80	4	.0	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0		
90	8	.0	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	11	.1		
100	10	.1	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	13	.1		
110	7	.0	6	.0	1	0.0	0	0.0	0	0.0	0	0.0	14	.1		
120	6	.0	15	.1	2	.0	0	0.0	0	0.0	0	0.0	23	.1		
130	3	.0	9	.0	8	.0	0	0.0	0	0.0	0	0.0	20	.1		
140	1	.0	3	.0	1	0.0	0	0.0	0	0.0	0	0.0	5	.0		
150	2	.0	5	.0	3	.0	0	0.0	0	0.0	0	0.0	10	.1		
160	1	.0	1	.0	1	0.0	0	0.0	0	0.0	0	0.0	3	.0		
170	1	.0	1	.0	1	0.0	1	0.0	0	0.0	0	0.0	4	.0		
180	0	0.0	2	.0	4	.0	0	0.0	0	0.0	0	0.0	6	.0		
190	1	.0	2	.0	1	0.0	1	0.0	0	0.0	0	0.0	5	.0		
200	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0		
210	1	.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	2	.0		
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
240	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0		
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
260	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0		
270	3	.0	1	.0	3	.0	0	0.0	0	0.0	0	0.0	7	.0		
280	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0		
290	1	.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	.0		
300	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0		
310	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	2	.0		
320	0	0.0	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0		
330	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0		
340	0	0.0	3	.0	3	.0	0	0.0	0	0.0	0	0.0	6	.0		
350	0	0.0	5	.0	0	0.0	0	0.0	0	0.0	0	0.0	5	.0		
360	4	.0	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	7	.0		
93	25		97	.5	34	.2	6	.0	0	0.0	0	0.0	230	1.2		

MEAN WIND SPEED

NUMBER OF CALM HRS 44

PERCENT CALM .2

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 75F Y

LAPSE RATE (OC/100M) = -1.89/-1.7
(320-75FT)

		SPEEDS (MI/HR)											
		2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
10	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	3	.0	
20	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0	
30	2	.0	4	.0	0	0.0	0	0.0	0	0.0	12	.1	
40	6	.0	3	.0	2	.0	0	0.0	0	0.0	11	.1	
50	3	.0	4	.0	0	0.0	0	0.0	0	0.0	7	.0	
60	4	.0	2	.0	0	0.0	0	0.0	0	0.0	6	.0	
70	8	.0	1	.0	0	0.0	0	0.0	0	0.0	9	.0	
80	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0	
90	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0	
100	5	.0	1	.0	0	0.0	0	0.0	0	0.0	6	.0	
110	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0	
120	8	.0	6	.0	4	.0	1	.0	0	0.0	19	.1	
130	1	.0	5	.0	8	.0	0	0.0	0	0.0	14	.1	
140	2	.0	1	.0	4	.0	0	0.0	0	0.0	7	.0	
150	0	0.0	5	.0	0	0.0	0	0.0	0	0.0	5	.0	
160	0	0.0	0	0.0	3	.0	0	0.0	0	0.0	3	.0	
170	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
180	0	0.0	0	0.0	3	.0	3	.0	0	0.0	6	.0	
190	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0	
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	.0	
210	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	2	.0	
220	1	.0	1	.0	0	0.0	1	.0	0	0.0	3	.0	
230	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0	
240	0	0.0	1	.0	3	.0	0	0.0	0	0.0	4	.0	
250	0	0.0	0	0.0	0	0.0	1	.0	1	.0	2	.0	
260	1	.0	0	0.0	2	.0	0	0.0	0	0.0	3	.0	
270	0	0.0	3	.0	1	.0	1	.0	0	0.0	5	.0	
280	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	2	.0	
290	1	.0	1	.0	3	.0	1	.0	1	.0	7	.0	
300	0	0.0	1	.0	5	.0	1	.0	0	0.0	7	.0	
310	0	0.0	0	0.0	1	.0	4	.0	0	0.0	5	.0	
320	0	0.0	0	0.0	2	.0	1	.0	0	0.0	3	.0	
330	0	0.0	1	.0	1	.0	2	.0	0	0.0	4	.0	
340	0	0.0	1	.0	3	.0	2	.0	0	0.0	6	.0	
350	0	0.0	2	.0	3	.0	1	.0	0	0.0	6	.0	
360	1	.0	2	.0	1	.0	0	0.0	0	0.0	4	.0	
	49	.3	56	.1	61	.3	19	.1	2	.0	187	1.0	

MEAN WIND SPEED

NUMBER OF CALM HRS 27

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/73)

LOCATION 75FT

LAPSE RATE(OC/100M)-
(320-75FT) -1.69/-1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
20	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
30	0	0.0	4	.0	0	0.0	0	0.0	0	0.0	4	.0
40	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
70	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
80	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
90	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
100	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
110	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
120	5	.0	3	.0	0	0.0	0	0.0	0	0.0	8	.0
130	3	.0	1	.0	7	.0	1	.0	0	0.0	12	.1
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
160	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	1	.0	2	.0	3	.0	2	.0	0	0.0	6	.0
190	0	0.0	2	.0	1	.0	1	.0	0	0.0	4	.0
200	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
210	0	0.0	0	0.0	0	0.0	1	.0	0	0.0	1	.0
220	0	0.0	0	0.0	1	.0	2	.0	0	0.0	3	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	1	.0	2	.0	1	.0	0	0.0	4	.0
250	0	0.0	1	.0	8	.0	2	.0	1	.0	12	.1
260	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
270	1	.0	2	.0	3	.0	5	.0	0	0.0	11	.1
280	0	0.0	0	0.0	4	.0	2	.0	1	.0	7	.0
290	0	0.0	1	.0	0	0.0	5	.0	2	.0	8	.0
300	0	0.0	0	0.0	9	.0	5	.0	0	0.0	14	.1
310	1	.0	0	0.0	0	0.0	5	.0	1	.0	7	.0
320	0	0.0	0	0.0	3	.0	1	.0	0	0.0	4	.0
330	0	0.0	0	0.0	4	.0	0	0.0	1	.0	5	.0
340	0	0.0	3	.0	6	.0	4	.0	0	0.0	13	.1
350	0	0.0	1	.0	7	.0	1	.0	0	0.0	9	.0
360	0	0.0	2	.0	2	.0	0	0.0	0	0.0	4	.0
27	Y1		32	.2	62	.3	39	.2	6	.0	166	.8

MEAN WIND SPEED 8

NUMBER OF CALM HRS 12

PERCENT CALM .1

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/73)

LOCATION 75FT

LAPSE RATE(OC/100M)-
(320-75FT) -1.49/-0.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	23	.1	75	.4	101	.5	25	.1	0	0.0	224	1.1
20	38	.2	78	.4	72	.4	27	.1	0	0.0	215	1.1
30	31	.2	140	.7	66	.3	10	.0	3	.0	250	1.3
40	56	.3	76	.4	30	.2	1	.0	0	0.0	163	.8
50	27	.1	33	.2	12	.1	1	.0	0	0.0	73	.4
60	58	.3	36	.2	11	.1	11	.1	0	0.0	116	.6
70	69	.4	72	.4	7	.0	0	0.0	0	0.0	148	.8
80	38	.2	44	.2	5	.0	1	.0	0	0.0	88	.4
90	53	.3	33	.2	14	.1	0	0.0	0	0.0	100	.5
100	74	.4	44	.2	3	.0	1	.0	0	0.0	122	.6
110	52	.3	66	.3	14	.1	1	.0	0	0.0	133	.7
120	70	.4	116	.6	59	.3	8	.0	1	.0	254	1.3
130	46	.2	159	.8	86	.4	24	.1	0	0.0	315	1.6
140	25	.1	102	.5	77	.4	8	.0	0	0.0	212	1.1
150	36	.2	155	.8	84	.4	16	.1	1	.0	292	1.5
160	39	.2	130	.7	50	.3	7	.0	0	0.0	226	1.2
170	20	.1	82	.4	58	.3	32	.2	4	.0	196	1.0
180	21	.1	95	.5	140	.7	82	.4	16	.1	354	1.8
190	25	.1	101	.5	160	.8	89	.5	10	.1	385	2.0
200	11	.1	64	.3	96	.5	36	.2	1	.0	208	1.1
210	11	.1	61	.3	52	.3	24	.1	7	.0	155	.8
220	13	.1	41	.2	34	.2	10	.1	2	.0	100	.5
230	6	.0	34	.2	37	.2	5	.0	0	0.0	82	.4
240	12	.1	46	.2	77	.4	16	.1	4	.0	155	.8
250	9	.0	34	.2	54	.3	27	.1	5	.0	129	.7
260	2	.0	24	.1	51	.3	28	.1	1	.0	106	.5
270	11	.1	57	.3	88	.4	75	.4	12	.1	243	1.2
280	5	.0	56	.3	147	.7	151	.8	21	.1	380	1.9
290	15	.1	56	.3	127	.6	110	.6	18	.1	315	1.6
300	17	.1	84	.4	224	1.1	177	.9	44	.2	546	2.8
310	18	.1	81	.4	203	1.0	152	.8	43	.2	490	2.5
320	23	.1	61	.3	125	.6	64	.3	23	.1	296	1.5
330	28	.1	123	.6	226	1.2	195	1.0	51	.3	620	3.2
340	27	.1	171	.9	340	1.7	233	1.2	35	.2	806	4.1
350	23	.1	85	.4	127	.6	61	.3	6	.0	302	1.5
360	31	.2	92	.5	93	.5	34	.2	0	0.0	250	1.3
1098	5.4		2808	14.3	3136	16.0	1742	8.9	306	1.6	9050	46.2

MEAN WIND SPEED 8

NUMBER OF CALM HRS 522

PERCENT CALM 2.7

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 75FT

LAPSE RATE(OC/100M)- -0.49/ 1.5
(320-75FT)

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	38	.2	36	.2	14	.1	0	0.0	0	0.0	88	.4
20	31	.2	41	.2	8	.0	5	.0	0	0.0	85	.4
30	23	.1	41	.2	18	.1	2	.0	0	0.0	84	.4
40	17	.1	35	.2	3	.0	0	0.0	0	0.0	55	.3
50	21	.1	11	.1	0	.0	0	0.0	0	0.0	34	.2
60	27	.1	15	.1	6	.0	4	.0	0	0.0	52	.3
70	25	.1	18	.1	7	.0	7	.0	0	0.0	57	.3
80	14	.1	3	.0	1	.0	1	.0	0	0.0	19	.1
90	32	.2	26	.1	5	.0	0	0.0	0	0.0	63	.3
100	45	.2	28	.1	0	0.0	1	.0	0	0.0	74	.4
110	61	.3	38	.2	6	.0	0	0.0	0	0.0	105	.5
120	72	.4	104	.5	13	.1	0	0.0	0	0.0	189	1.0
130	70	.4	104	.5	24	.1	1	.0	0	0.0	199	1.0
140	65	.3	93	.5	20	.1	2	.0	0	0.0	180	.9
150	75	.4	107	.5	37	.2	7	.0	0	0.0	226	1.2
160	62	.3	121	.6	27	.1	10	.1	3	.0	223	1.1
170	55	.3	77	.4	24	.1	4	.0	0	0.0	160	.8
180	67	.3	112	.6	43	.2	7	.0	2	.0	231	1.2
190	80	.4	114	.6	53	.3	14	.1	6	.0	267	1.4
200	38	.2	98	.5	51	.3	9	.0	0	0.0	196	1.0
210	28	.1	105	.5	43	.2	4	.0	0	0.0	180	.9
220	32	.2	76	.4	23	.1	2	.0	0	0.0	133	.7
230	26	.1	42	.2	17	.1	4	.0	0	0.0	89	.5
240	29	.1	55	.3	42	.2	2	.0	0	0.0	128	.7
250	21	.1	86	.4	84	.4	6	.0	1	.0	198	1.0
260	20	.1	65	.3	90	.5	10	.1	0	0.0	185	.9
270	22	.1	97	.5	111	.6	20	.1	0	0.0	250	1.3
280	27	.1	140	.7	170	.9	39	.2	8	.0	384	2.0
290	24	.1	112	.6	142	.7	23	.1	2	.0	303	1.5
300	38	.2	148	.8	197	1.0	42	.2	1	.0	426	2.2
310	33	.2	155	.8	162	.8	21	.1	11	.1	382	2.0
320	33	.2	104	.5	76	.4	11	.1	2	.0	226	1.2
330	45	.2	141	.7	99	.5	22	.1	7	.0	314	1.6
340	41	.2	128	.7	93	.5	17	.1	3	.0	282	1.4
350	24	.1	50	.3	47	.2	19	.1	0	0.0	140	.7
360	22	.1	46	.2	33	.2	7	.0	0	0.0	108	.6
1383		7.1	2772	14.2	1791	9.1	323	1.6	46	.2	6315	32.3

MEAN WIND SPEED 5

NUMBER OF CALM HRS 1055

PERCENT CALM 5.4

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 75FT

LAPSE RATE(OC/100M)- 1.51/ 4.0
(320-75FT)

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	5	.0	5	.0	0	0.0	0	0.0	0	0.0	10	.1
20	9	.0	0	0.0	0	0.0	0	0.0	0	0.0	9	.0
30	3	.0	1	.0	0	0.0	0	0.0	0	0.0	4	.0
40	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
70	7	.0	0	0.0	1	.0	0	0.0	0	0.0	8	.0
80	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.0
90	6	.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.0
100	7	.0	2	.0	1	.0	0	0.0	0	0.0	10	.1
110	5	.0	5	.0	4	.0	0	0.0	0	0.0	12	.1
120	11	.1	9	.0	0	0.0	0	0.0	0	0.0	16	.1
130	20	.1	6	.0	0	0.0	0	0.0	0	0.0	26	.1
140	4	.0	4	.0	0	0.0	0	0.0	0	0.0	10	.1
150	11	.1	6	.0	0	0.0	0	0.0	0	0.0	17	.1
160	6	.0	2	.0	0	0.0	0	0.0	0	0.0	8	.0
170	3	.0	3	.0	0	0.0	0	0.0	0	0.0	6	.0
180	6	.0	1	.0	0	0.0	0	0.0	0	0.0	7	.0
190	10	.1	7	.0	0	0.0	0	0.0	0	0.0	17	.1
200	2	.0	5	.0	0	0.0	0	0.0	0	0.0	7	.0
210	8	.0	8	.0	3	.0	0	0.0	0	0.0	19	.1
220	8	.0	6	.0	3	.0	1	.0	0	0.0	18	.1
230	7	.0	6	.0	0	0.0	0	0.0	0	0.0	13	.1
240	10	.1	13	.1	2	.0	0	0.0	0	0.0	25	.1
250	9	.0	29	.1	7	.0	1	.0	0	0.0	36	.2
260	17	.1	32	.2	16	.1	1	.0	0	0.0	53	.3
270	21	.1	37	.2	18	.1	1	.0	0	0.0	66	.3
280	35	.2	43	.2	12	.1	0	0.0	0	0.0	77	.4
290	35	.2	48	.2	22	.1	1	.0	0	0.0	106	.5
300	16	.1	36	.2	5	.0	0	0.0	0	0.0	57	.3
310	16	.1	19	.1	2	.0	0	0.0	0	0.0	37	.2
320	18	.1	21	.1	5	.0	0	0.0	0	0.0	44	.2
330	23	.1	20	.1	4	.0	0	0.0	0	0.0	47	.2
340	11	.1	9	.0	0	0.0	0	0.0	0	0.0	20	.1
350	9	.0	3	.0	0	0.0	0	0.0	0	0.0	12	.1
360	9	.0	3	.0	0	0.0	0	0.0	0	0.0	12	.1
366		1.9	397	2.0	120	.6	6	.0	0	0.0	889	4.5

MEAN WIND SPEED 2

NUMBER OF CALM HRS 585

PERCENT CALM 3.0

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(6/67-7/70)

LOCATION 75FT

LAPSE RATE(OC/100M)-
(320-75FT)

4.01/ 6.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS	SUM	PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	PERCENT			
10	2	.0	1	.0	0	0.0	0	0.0	0	0.0	.0	
20	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
30	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
60	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
90	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	.0	
100	0	0.0	0	0.0	3	.0	0	0.0	0	0.0	.0	
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
120	1	.0	1	.0	0	0.0	0	0.0	0	0.0	.0	
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
160	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
180	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
200	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
220	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
240	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
250	3	.0	4	.0	0	0.0	0	0.0	0	0.0	.0	
260	4	.0	5	.0	2	.0	0	0.0	0	0.0	.1	
270	3	.0	8	.0	2	.0	0	0.0	0	0.0	.1	
280	10	.1	14	.1	1	.0	0	0.0	0	0.0	.1	
290	14	.1	14	.1	1	.0	0	0.0	0	0.0	.1	
300	13	.1	8	.0	0	0.0	0	0.0	0	0.0	.1	
310	17	.1	9	.0	0	0.0	0	0.0	0	0.0	.1	
320	7	.0	3	.0	0	0.0	0	0.0	0	0.0	.1	
330	12	.1	4	.0	0	0.0	0	0.0	0	0.0	.1	
340	9	.0	3	.0	0	0.0	0	0.0	0	0.0	.1	
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
360	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	.0	
											200	1.0
											116	.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 192

PERCENT CALM 1.0

WIND ROSE FOR STATION 12 - 3YRS(6/67-7/70)

LOCATION 75FT

LAPSE RATE(OC/100M)-
(320-75FT)

GT 6.0

		SPEEDS(MI/HR)											
		2-3		4-7		8-12		13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
140	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
150	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
260	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
280	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	3	.0	
290	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0	
300	2	.0	2	.0	1	.0	0	0.0	0	0.0	5	.0	
310	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0	
320	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0	
330	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0	
340	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0	
350	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
											28	.1	
											20	.1	

MEAN WIND SPEED 1

NUMBER OF CALM HRS 77

PERCENT CALM .4

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(6/67-7/70)

LOCATION 75FT

ALL CLASSES

SPEEDS(MI/HR)												
2-3		4-7		8-12		13-18		19 PLUS		SUM		PERCENT
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	73	.14	123	.6	113	.6	25	.1	0	0.0	336	1.7
20	83	.14	123	.6	80	.4	32	.2	0	0.0	320	1.6
30	70	.14	193	1.0	91	.5	12	.1	3	.0	371	1.9
40	96	.15	123	.6	35	.2	1	.0	0	0.0	255	1.3
50	37	.07	48	.2	14	.1	1	.0	0	0.0	120	.6
60	103	.15	35	.2	17	.1	15	.1	0	0.0	190	1.0
70	116	.16	97	.5	15	.1	7	.0	0	0.0	239	1.2
80	66	.13	50	.3	6	.0	2	.0	0	0.0	124	.6
90	101	.15	64	.3	20	.1	0	0.0	0	0.0	185	.9
100	142	.17	80	.4	7	.0	2	.0	0	0.0	231	1.2
110	128	.17	113	.6	26	.1	1	.0	0	0.0	270	1.4
120	173	.19	250	1.3	78	.4	9	.0	1	.0	511	2.6
130	144	.17	288	1.5	133	.7	26	.1	0	0.0	589	3.0
140	100	.15	203	1.0	102	.5	10	.1	0	0.0	415	2.1
150	126	.16	280	1.4	124	.6	23	.1	1	.0	554	2.8
160	109	.16	256	1.3	81	.4	17	.1	3	.0	466	2.4
170	79	.14	164	.8	83	.4	37	.2	4	.0	367	1.9
180	96	.15	212	1.1	193	1.0	94	.5	18	.1	613	3.1
190	116	.16	227	1.2	217	1.1	105	.5	16	.1	681	3.5
200	92	.13	170	.9	147	.8	46	.2	1	.0	416	2.1
210	49	.07	124	.6	100	.5	30	.2	7	.0	360	1.8
220	57	.09	124	.6	61	.3	16	.1	2	.0	260	1.3
230	39	.07	83	.4	34	.2	19	.1	0	0.0	185	.9
240	54	.09	118	.6	126	.6	39	.2	4	.0	321	1.6
250	47	.07	138	.7	134	.7	37	.2	8	.0	384	2.0
260	36	.06	123	.6	161	.8	39	.2	1	.0	360	1.8
270	57	.09	200	1.0	224	1.1	102	.5	12	.1	595	3.0
280	63	.09	252	1.3	341	1.7	193	1.0	30	.2	879	4.5
290	71	.14	228	1.2	276	1.4	139	.7	23	.1	737	3.8
300	105	.15	291	1.5	458	2.3	227	1.2	45	.2	1126	5.8
310	87	.14	281	1.4	368	1.9	184	.9	53	.3	973	5.0
320	81	.14	189	1.0	210	1.1	77	.4	25	.1	582	3.0
330	104	.15	290	1.5	336	1.7	219	1.1	59	.3	1008	5.1
340	104	.15	329	1.7	449	2.3	256	1.3	38	.2	1176	6.0
350	60	.09	132	.7	184	.9	82	.4	6	.0	484	2.5
360	68	.13	148	.8	129	.7	41	.2	0	0.0	386	2.0
3112		19.9	6243	31.9	5215	26.6	2135	10.9	360	1.8	17065	87.2
MEAN WIND SPEED 6											MISSING HOURS 6725	
TOTAL NUMBER OF CALM HRS 2514											PERCENT CALM 12.8	

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)-
(320-75FT)

LF=1.9

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	3	.0	0	0.0	0	0.0	0	0.0	4	.0
20	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
30	3	.0	3	.0	4	.0	0	0.0	0	0.0	10	.1
40	3	.0	4	.0	3	.0	1	.0	0	0.0	11	.1
50	3	.0	2	.0	2	.0	0	0.0	0	0.0	7	.0
60	3	.0	6	.0	0	0.0	0	0.0	0	0.0	9	.0
70	4	.0	6	.0	3	.0	0	0.0	0	0.0	13	.1
80	3	.0	6	.0	1	.0	0	0.0	0	0.0	10	.1
90	3	.0	11	.1	2	.0	0	0.0	0	0.0	16	.1
100	7	.0	10	.1	2	.0	0	0.0	0	0.0	19	.1
110	5	.0	11	.1	6	.0	2	.0	0	0.0	24	.1
120	1	.0	10	.1	4	.0	0	0.0	0	0.0	15	.1
130	0	0.0	2	.0	11	.1	5	.0	0	0.0	18	.1
140	1	.0	3	.0	1	.0	0	0.0	0	0.0	5	.0
150	0	0.0	0	0.0	3	.0	0	0.0	0	0.0	3	.0
160	0	0.0	2	.0	2	.0	2	.0	0	0.0	6	.0
170	1	.0	1	.0	5	.0	1	.0	0	0.0	8	.0
180	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
190	1	.0	0	0.0	1	.0	1	.0	0	0.0	3	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	3	.0	1	.0	1	.0	0	0.0	5	.0
220	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
250	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
260	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.0
270	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
280	0	0.0	1	.0	0	0.0	0	0.0	1	.0	2	.0
290	0	0.0	0	0.0	0	0.0	1	.0	1	.0	2	.0
300	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
310	0	0.0	1	.0	0	0.0	1	.0	2	.0	4	.0
320	0	0.0	1	.0	1	.0	0	0.0	1	.0	3	.0
330	0	0.0	1	.0	0	0.0	2	.0	1	.0	4	.0
340	1	.0	4	.0	1	.0	0	0.0	1	.0	7	.0
350	1	.0	0	0.0	2	.0	0	0.0	0	0.0	3	.0
360	1	.0	2	.0	1	.0	0	0.0	0	0.0	4	.0
	44	.2	99	.5	62	.3	21	.1	7	.0	233	1.2

MEAN WIND SPEED 7

NUMBER OF CALM HRS 9

PERCENT CALM .0

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)-
(320-75FT)

-1.89/-1.7

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	0	0.0	2	.0	1	.0	0	0.0	4	.0
20	2	.0	2	.0	2	.0	1	.0	0	0.0	7	.0
30	0	0.0	2	.0	4	.0	1	.0	0	0.0	7	.0
40	1	.0	3	.0	1	.0	1	.0	0	0.0	6	.0
50	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
60	3	.0	1	.0	1	.0	0	0.0	0	0.0	5	.0
70	5	.0	2	.0	0	0.0	0	0.0	0	0.0	7	.0
80	1	.0	6	.0	2	.0	0	0.0	0	0.0	9	.0
90	2	.0	4	.0	1	.0	0	0.0	0	0.0	7	.0
100	1	.0	4	.0	2	.0	0	0.0	0	0.0	7	.0
110	3	.0	5	.0	2	.0	0	0.0	0	0.0	10	.1
120	2	.0	3	.0	2	.0	0	0.0	0	0.0	7	.0
130	2	.0	2	.0	12	.1	1	.0	0	0.0	17	.1
140	0	0.0	2	.0	3	.0	2	.0	0	0.0	7	.0
150	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
160	1	.0	0	0.0	4	.0	0	0.0	0	0.0	5	.0
170	0	0.0	1	.0	5	.0	1	.0	0	0.0	7	.0
180	1	.0	0	0.0	2	.0	1	.0	2	.0	6	.0
190	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	1	.0	0	0.0	1	.0	2	.0
210	0	0.0	1	.0	0	0.0	0	0.0	1	.0	2	.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	1	.0	1	.0
240	0	0.0	0	0.0	3	.0	0	0.0	2	.0	5	.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	0	0.0	0	0.0	2	.0	2	.0	0	0.0	4	.0
270	1	.0	0	0.0	3	.0	1	.0	2	.0	7	.0
280	0	0.0	0	0.0	2	.0	2	.0	0	0.0	4	.0
290	0	0.0	0	0.0	1	.0	0	0.0	2	.0	3	.0
300	0	0.0	1	.0	1	.0	0	0.0	2	.0	4	.0
310	0	0.0	0	0.0	0	0.0	1	.0	1	.0	2	.0
320	0	0.0	0	0.0	0	0.0	2	.0	3	.0	5	.0
330	0	0.0	2	.0	1	.0	3	.0	0	0.0	6	.0
340	0	0.0	3	.0	1	.0	0	0.0	0	0.0	6	.0
350	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
360	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
	26	.1	48	.3	64	.3	23	.1	17	.1	178	1.0

MEAN WIND SPEED 8

NUMBER OF CALM HRS 11

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)-
(320-75FT)

-1.69/+1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	.3
20	1	.0	1	.0	2	.0	0	0.0	0	0.0	4	.0
30	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
40	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
60	3	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
90	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	2	.0	2	.0	2	.0	0	0.0	0	0.0	6	.0
120	3	.0	2	.0	1	.0	1	.0	0	0.0	7	.0
130	0	0.0	3	.0	3	.0	2	.0	0	0.0	8	.0
140	0	0.0	0	0.0	2	.0	1	.0	0	0.0	3	.0
150	2	.0	2	.0	1	.0	0	0.0	0	0.0	5	.0
160	1	.0	0	0.0	0	0.0	1	.0	0	0.0	2	.0
170	0	0.0	1	.0	1	.0	2	.0	0	0.0	4	.0
180	0	0.0	0	0.0	4	.0	0	0.0	0	0.0	4	.0
190	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
200	0	0.0	1	.0	1	.0	2	.0	0	0.0	4	.0
210	0	0.0	0	0.0	0	0.0	0	0.0	2	.0	2	.0
220	0	0.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
230	0	0.0	1	.0	2	.0	0	0.0	1	.0	4	.0
240	0	0.0	1	.0	3	.0	0	0.0	1	.0	5	.0
250	0	0.0	1	.0	0	0.0	4	.0	1	.0	6	.0
260	0	0.0	0	0.0	0	0.0	5	.0	0	0.0	5	.0
270	1	.0	0	0.0	3	.0	1	.0	0	0.0	5	.0
280	0	0.0	0	0.0	0	0.0	4	.0	0	0.0	4	.0
290	0	0.0	2	.0	0	0.0	4	.0	3	.0	11	.1
300	0	0.0	0	0.0	0	0.0	2	.0	5	.0	7	.0
310	0	0.0	0	0.0	0	0.0	4	.0	0	0.0	4	.0
320	0	0.0	2	.0	0	0.0	3	.0	2	.0	5	.0
330	0	0.0	1	.0	0	0.0	3	.0	3	.0	7	.0
340	0	0.0	0	0.0	5	.0	4	.0	1	.0	10	.1
350	0	0.0	0	0.0	1	.0	3	.0	0	0.0	4	.0
360	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
17	71		30	.2	36	.2	47	.3	22	.1	152	.8

MEAN WIND SPEED 11

NUMBER OF CALM HRS 5

PERCENT CALM .0

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)-
(320-75FT)

-1.49/+0.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	6	.0	54	.3	81	.4	70	.4	10	.1	221	1.2
20	14	.1	39	.2	70	.4	58	.3	9	.0	190	1.0
30	15	.1	43	.2	65	.3	29	.2	7	.0	159	.8
40	16	.1	34	.2	43	.2	35	.2	9	.0	147	.7
50	17	.1	33	.2	33	.2	24	.1	10	.1	117	.6
60	21	.1	30	.2	41	.2	20	.1	13	.1	125	.7
70	12	.1	21	.1	54	.3	26	.1	4	.0	117	.6
80	18	.1	38	.2	35	.2	20	.1	3	.0	114	.6
90	11	.1	42	.2	36	.2	12	.1	14	.1	115	.6
100	21	.1	44	.2	44	.2	7	.0	1	.0	117	.6
110	17	.1	46	.2	63	.3	25	.1	3	.0	154	.8
120	30	.2	65	.3	89	.5	46	.2	7	.0	237	1.3
130	20	.1	72	.4	110	.6	74	.4	12	.1	288	1.5
140	13	.1	68	.4	90	.5	58	.3	13	.1	242	1.3
150	18	.1	74	.4	115	.6	39	.2	8	.0	252	1.3
160	11	.1	51	.3	130	.7	48	.3	9	.0	249	1.3
170	14	.1	51	.3	88	.5	76	.4	30	.2	259	1.4
180	17	.1	51	.3	120	.6	146	.8	33	.2	367	2.0
190	7	.0	62	.3	127	.7	99	.5	22	.1	317	1.7
200	4	.0	32	.2	84	.4	70	.4	23	.1	213	1.1
210	7	.0	38	.2	69	.4	51	.3	15	.1	180	1.0
220	9	.0	28	.1	55	.3	32	.2	6	.0	130	.7
230	4	.0	26	.1	53	.3	44	.2	15	.1	142	.8
240	6	.0	39	.2	52	.3	38	.2	22	.1	157	.8
250	6	.0	25	.1	54	.3	53	.3	14	.1	142	.8
260	4	.0	12	.1	37	.2	66	.4	28	.1	147	.8
270	9	.0	18	.1	45	.2	84	.5	84	.4	241	1.3
280	9	.0	22	.1	58	.3	135	.7	138	.7	362	1.9
290	1	.0	14	.1	56	.3	144	.8	146	.8	361	1.9
300	12	.1	25	.1	69	.4	153	.8	210	1.1	469	2.5
310	7	.0	34	.2	82	.4	221	1.2	227	1.2	551	2.9
320	14	.1	26	.1	83	.4	177	.9	191	1.0	491	2.6
330	15	.1	69	.4	162	.9	232	1.2	181	1.0	659	3.5
340	12	.1	80	.4	155	.8	220	1.2	141	.8	608	3.2
350	6	.0	54	.3	109	.6	121	.6	49	.3	339	1.8
360	14	.1	57	.3	90	.5	90	.5	28	.1	279	1.5
435	273		1517	8.1	2727	14.6	2844	15.2	1735	9.3	9258	49.4

MEAN WIND SPEED 12

NUMBER OF CALM HRS 201

PERCENT CALM 1.1

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)-
(320-75FT) -0.49/ 1.5

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT	
10	8	.0	38	.2	51	.3	35	.2	8	.0	140	.7
20	6	.0	35	.2	31	.2	21	.1	3	.0	96	.5
30	9	.0	29	.2	29	.2	7	.0	2	.0	76	.4
40	4	.0	22	.1	29	.2	12	.1	2	.0	69	.4
50	8	.0	26	.1	23	.1	8	.0	2	.0	67	.4
60	11	.1	35	.2	31	.2	5	.0	3	.0	85	.5
70	8	.0	19	.1	23	.1	6	.0	0	.0	56	.3
80	10	.1	20	.1	32	.2	6	.0	0	.0	68	.4
90	10	.1	28	.1	29	.2	9	.0	6	.0	82	.4
100	15	.1	39	.2	32	.2	15	.1	1	.0	102	.5
110	9	.0	31	.2	40	.2	24	.1	0	.0	104	.6
120	10	.1	44	.2	59	.3	26	.1	4	.0	143	.8
130	6	.0	31	.2	54	.3	24	.1	2	.0	117	.6
140	7	.0	45	.2	72	.4	17	.1	2	.0	143	.8
150	16	.1	71	.4	103	.5	26	.1	9	.0	225	1.2
160	13	.1	61	.3	95	.5	36	.2	4	.0	209	1.1
170	17	.1	38	.2	95	.5	43	.2	4	.0	197	1.1
180	15	.1	63	.3	119	.6	58	.3	8	.0	263	1.4
190	15	.1	49	.2	125	.7	95	.5	19	.1	303	1.6
200	11	.1	46	.2	107	.6	59	.3	13	.1	236	1.3
210	14	.1	52	.2	97	.5	58	.3	7	.0	228	1.2
220	12	.1	43	.2	87	.5	37	.2	8	.0	187	1.0
230	19	.1	41	.2	65	.3	38	.2	10	.1	173	.9
240	6	.0	53	.3	94	.5	51	.3	7	.0	171	.9
250	13	.1	35	.2	48	.3	79	.4	8	.0	183	1.0
260	15	.1	31	.2	42	.2	80	.4	19	.1	187	1.0
270	10	.1	36	.2	56	.3	104	.6	20	.1	226	1.2
280	7	.0	26	.1	58	.3	124	.7	49	.3	264	1.4
290	4	.0	20	.1	72	.4	188	1.0	72	.4	354	1.9
300	10	.1	25	.1	81	.4	158	.8	73	.4	347	1.9
310	7	.0	20	.1	83	.4	170	.9	61	.3	341	1.8
320	6	.0	25	.1	90	.5	147	.8	34	.2	302	1.6
330	6	.0	29	.2	98	.5	150	.8	40	.2	323	1.7
340	4	.0	38	.2	96	.5	87	.5	13	.1	238	1.3
350	5	.0	42	.2	71	.4	47	.3	13	.1	178	1.0
360	8	.0	27	.1	98	.5	38	.2	11	.1	142	.8
394	119		1313	7.0	2335	12.5	2086	11.1	537	2.9	6625	35.4

MEAN WIND SPEED 10

NUMBER OF CALM HRS 229

PERCENT CALM 1.2

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)-
(320-75FT) 1.51/ 4.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT	
10	3	.0	10	.1	10	.1	0	0.0	0	0.0	23	.1
20	0	0.0	10	.1	9	.0	2	0.0	0	0.0	21	.1
30	0	.0	8	.0	7	.0	0	0.0	0	0.0	17	.1
40	3	.0	11	.1	6	.0	0	0.0	0	0.0	20	.1
50	5	.0	7	.0	4	.0	0	0.0	0	0.0	16	.1
60	1	.0	14	.1	6	.0	0	0.0	0	0.0	21	.1
70	3	.0	12	.1	4	.0	0	0.0	0	0.0	19	.1
80	3	.0	6	.0	2	.0	0	0.0	0	0.0	11	.1
90	8	.0	7	.0	2	.0	0	0.0	0	0.0	17	.1
100	1	.0	6	.0	1	.0	0	0.0	0	0.0	8	.0
110	3	.0	9	.0	3	.0	0	0.0	0	0.0	15	.1
120	3	.0	8	.0	3	.0	0	0.0	0	0.0	14	.1
130	1	.0	13	.1	7	.0	2	.0	0	0.0	23	.1
140	5	.0	4	.0	10	.1	1	.0	0	0.0	20	.1
150	2	.0	6	.0	5	.0	1	.0	0	0.0	14	.1
160	1	.0	12	.1	9	.0	1	.0	0	0.0	23	.1
170	1	.0	14	.1	10	.1	4	.0	0	0.0	29	.2
180	9	.0	8	.0	9	.0	1	.0	0	0.0	23	.1
190	4	.0	19	.1	8	.0	3	.0	0	0.0	34	.2
200	3	.0	16	.1	15	.1	5	.0	1	.0	40	.2
210	3	.0	18	.1	16	.1	0	0.0	0	0.0	37	.2
220	8	.0	21	.1	24	.1	9	.0	0	0.0	62	.3
230	3	.0	31	.2	26	.1	14	.1	1	.0	75	.4
240	11	.1	27	.1	24	.1	12	.1	0	0.0	74	.4
250	5	.0	19	.1	17	.1	14	.1	0	0.0	55	.3
260	3	.0	17	.1	23	.1	18	.1	1	.0	62	.3
270	3	.0	9	.0	18	.1	9	.0	5	.0	44	.2
280	8	.0	16	.1	10	.1	17	.1	6	.0	57	.3
290	4	.0	8	.0	17	.1	16	.1	2	.0	47	.3
300	8	.0	15	.1	8	.0	17	.1	6	.0	54	.3
310	3	.0	10	.1	21	.1	18	.1	10	.1	62	.3
320	0	0.0	10	.1	28	.1	13	.1	3	.0	54	.3
330	5	.0	14	.1	43	.2	9	.0	0	0.0	71	.4
340	3	.0	9	.0	23	.1	6	.0	1	.0	42	.2
350	4	.0	16	.1	10	.1	3	.0	0	0.0	33	.2
360	9	.0	16	.1	21	.1	0	0.0	0	0.0	46	.2
137	77		456	2.4	459	2.5	195	1.0	34	.2	1283	6.9

MEAN WIND SPEED 8

NUMBER OF CALM HRS 81

PERCENT CALM .4

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)- 4.01/ 6.0
(320-75FT)

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	8	.0	1	.0	0	0.0	0	0.0	9	.1
20	1	.0	3	.0	2	.0	0	0.0	0	0.0	6	.0
30	0	0.0	2	.0	5	.0	0	0.0	0	0.0	7	.0
40	0	0.0	3	.0	4	.0	0	0.0	0	0.0	7	.0
50	2	.0	4	.0	2	.0	0	0.0	0	0.0	8	.0
60	1	.0	3	.0	0	0.0	0	0.0	0	0.0	4	.0
70	0	0.0	2	.0	1	.0	0	0.0	0	0.0	3	.0
80	1	.0	1	.0	0	0.0	3	.0	0	0.0	2	.0
90	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
100	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
110	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
120	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
130	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
160	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
170	1	.0	1	.0	3	.0	0	0.0	0	0.0	5	.0
180	0	0.0	5	.0	1	.0	1	.0	0	0.0	7	.0
190	1	.0	1	.0	3	.0	0	0.0	0	0.0	5	.0
200	1	.0	5	.0	5	.0	0	0.0	0	0.0	11	.1
210	2	.0	5	.0	5	.0	1	.0	0	0.0	13	.1
220	2	.0	3	.0	6	.0	0	0.0	0	0.0	11	.1
230	2	.0	1	.0	4	.0	1	.0	0	0.0	8	.0
240	4	.0	5	.0	6	.0	0	0.0	0	0.0	15	.1
250	1	.0	8	.0	7	.0	2	.0	0	0.0	18	.1
260	0	0.0	5	.0	4	.0	4	.0	0	0.0	13	.1
270	4	.0	9	.0	9	.0	3	.0	0	0.0	26	.1
280	1	.0	7	.0	7	.0	4	.0	0	0.0	19	.1
290	1	.0	11	.1	6	.0	0	0.0	0	0.0	18	.1
300	1	.0	3	.0	8	.0	4	.0	1	.0	17	.1
310	2	.0	3	.0	6	.0	4	.0	0	0.0	15	.1
320	2	.0	2	.0	6	.0	3	.0	1	.0	14	.1
330	2	.0	5	.0	6	.0	1	.0	1	.0	15	.1
340	0	0.0	5	.0	9	.0	0	0.0	0	0.0	14	.1
350	0	0.0	5	.0	11	.1	0	0.0	0	0.0	16	.1
360	1	.0	11	.1	2	.0	0	0.0	0	0.0	14	.1
											334	1.8

MEAN WIND SPEED 7

NUMBER OF CALM HRS 29

PERCENT CALM .2

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION 320FT

LAPSE RATE(OC/100M)- GT 6.0
(320-75FT)

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	3	.0	1	.0	0	0.0	0	0.0	4	.0
40	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
80	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
90	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	2	.0
220	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
230	1	.0	2	.0	4	.0	0	0.0	0	0.0	7	.0
240	0	0.0	0	0.0	7	.0	3	.0	0	0.0	10	.1
250	0	0.0	4	.0	2	.0	5	.0	0	0.0	11	.1
260	0	0.0	4	.0	4	.0	1	.0	0	0.0	9	.0
270	0	0.0	0	0.0	3	.0	1	.0	0	0.0	4	.0
280	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
290	2	.0	1	.0	1	.0	0	0.0	0	0.0	4	.0
300	0	0.0	3	.0	3	.0	0	0.0	0	0.0	6	.0
310	1	.0	3	.0	3	.0	1	.0	0	0.0	8	.0
320	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
330	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
340	0	0.0	4	.0	2	.0	0	0.0	0	0.0	6	.0
350	0	0.0	3	.0	2	.0	0	0.0	0	0.0	5	.0
360	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	3	.0
											99	.4

MEAN WIND SPEED 7

NUMBER OF CALM HRS 3

PERCENT CALM .1

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)					LOCATION 320FT		ALL CLASSES					
SPEEDS(MI/HR)												
2-3			4-7		8-12		13-18		19 PLUS		SUM PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	20	.11	114	.6	146	.8	106	.6	18	.1	404	2.2
20	24	.11	92	.5	116	.6	82	.4	12	.1	326	1.7
30	29	.12	92	.5	113	.6	37	.2	9	.0	282	1.5
40	27	.11	79	.4	87	.5	49	.3	11	.1	253	1.4
50	35	.12	75	.4	65	.3	32	.2	12	.1	219	1.2
60	43	.12	89	.5	79	.4	25	.1	16	.1	292	1.6
70	32	.12	63	.3	85	.5	32	.2	4	.0	216	1.2
80	37	.12	78	.4	73	.4	26	.1	3	.0	217	1.2
90	36	.12	96	.5	72	.4	21	.1	20	.1	245	1.3
100	47	.13	104	.6	82	.4	22	.1	2	.0	297	1.4
110	40	.12	105	.6	116	.6	51	.3	3	.0	315	1.7
120	49	.13	133	.7	198	.8	73	.4	11	.1	424	2.3
130	30	.12	126	.7	197	1.1	108	.6	14	.1	479	2.5
140	26	.11	122	.7	178	1.0	79	.4	15	.1	420	2.2
150	37	.12	155	.8	228	1.2	67	.4	17	.1	504	2.7
160	28	.11	126	.7	241	1.3	88	.5	13	.1	496	2.6
170	34	.12	197	.6	207	1.1	127	.7	34	.2	509	2.7
180	38	.12	127	.7	256	1.4	207	1.1	43	.2	671	3.6
190	28	.11	134	.7	269	1.4	198	1.1	41	.2	666	3.6
200	19	.11	100	.5	213	1.1	136	.7	38	.2	506	2.7
210	26	.11	117	.6	190	1.0	111	.6	25	.1	469	2.5
220	31	.12	97	.5	174	.9	80	.4	14	.1	398	2.1
230	29	.12	102	.5	184	.8	97	.5	28	.1	410	2.2
240	27	.11	125	.7	150	.8	105	.6	32	.2	439	2.3
250	26	.11	93	.5	129	.7	157	.8	23	.1	428	2.3
260	22	.11	70	.4	113	.6	177	.9	48	.3	430	2.3
270	29	.12	74	.4	137	.7	204	1.1	111	.6	599	3.0
280	25	.11	73	.4	135	.7	286	1.5	194	1.0	713	3.8
290	12	.11	56	.3	153	.8	351	1.9	228	1.2	800	4.3
300	31	.12	72	.4	171	.9	335	1.8	297	1.6	906	4.8
310	20	.11	71	.4	175	.9	420	2.2	363	1.9	989	5.3
320	23	.11	67	.4	209	1.1	345	1.8	236	1.3	880	4.7
330	28	.11	122	.7	311	1.7	400	2.1	224	1.2	1089	5.8
340	20	.11	143	.8	292	1.6	319	1.7	157	.8	931	5.0
350	16	.11	121	.6	207	1.1	174	.9	62	.3	580	3.1
360	34	.12	118	.6	173	.9	128	.7	39	.2	492	2.6
1098 596 3638 19.4 5854 31.3 5255 28.1 2357 12.6 18162 97.0												
MISSING HOURS 7576												
MEAN WIND SPEED 11												
TOTAL NUMBER OF CALM HRS 566												
PERCENT CALM 3.0												

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE (OC/100M) =
(320-75FT)

LE-1,9

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
20	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
30	1	.0	4	.0	2	.0	0	0.0	0	0.0	7	.1
40	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
50	0	0.0	6	.0	0	0.0	0	0.0	0	0.0	6	.1
60	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
70	0	0.0	1	.0	1	.0	0	0.0	0	0.0	2	.0
80	1	.0	2	.0	0	0.0	0	0.0	0	0.0	3	.0
90	2	.0	4	.0	0	0.0	0	0.0	0	0.0	6	.1
100	2	.0	3	.0	2	.0	0	0.0	0	0.0	7	.1
110	2	.0	4	.0	0	0.0	0	0.0	0	0.0	6	.1
120	3	.0	7	.1	0	0.0	0	0.0	0	0.0	10	.1
130	1	.0	2	.0	0	0.0	1	.0	0	0.0	4	.0
140	5	.1	6	.1	4	.0	0	0.0	0	0.0	15	.2
150	3	.0	9	.1	7	.1	0	0.0	0	0.0	19	.2
160	5	.1	5	.1	3	.0	3	.0	0	0.0	16	.2
170	3	.0	1	.0	3	.0	2	.0	0	0.0	9	.1
180	0	0.0	2	.0	1	.0	0	0.0	0	0.0	3	.0
190	4	.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.0
200	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
210	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
220	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
250	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
260	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
270	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	1	.0	0	0.0	1	.0	0	0.0	0	0.0	2	.0
310	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
320	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
330	1	.0	2	.0	0	0.0	2	.0	0	0.0	3	.1
340	1	.0	2	.0	2	.0	0	0.0	0	0.0	3	.1
350	1	.0	3	.0	3	.0	0	0.0	0	0.0	4	.0
360	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
	49	.3	74	.1	30	.4	8	.1	0	0.0	157	1.0

MEAN WIND SPEED 4

NUMBER OF CALH HRS 43

PERCENT CALM .5

WIND ROSE FOR STATION 12 • 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE (OC/100M) =
(320=75FT)

-1,09/-1,7

DIRECTION	2-3		4-7		SPEEDS (MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
20	1	.0	1	.0	2	.0	0	0.0	0	0.0	4	.0
30	0	0.0	3	.0	0	0.0	0	0.0	0	0.0	3	.0
40	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	1	.0	0	0.0	1	.0	0	0.0	2	.0
70	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
80	0	0.0	2	.0	1	.0	0	0.0	0	0.0	3	.0
90	0	0.0	2	.0	1	.0	0	0.0	0	0.0	3	.0
100	1	.0	1	.0	0	0.0	0	0.0	0	0.0	2	.0
110	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
120	2	.0	2	.0	0	0.0	0	0.0	0	0.0	4	.0
130	2	.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.0
140	1	.0	3	.0	1	.0	0	0.0	0	0.0	5	.0
150	3	.0	5	.0	9	.0	0	0.0	0	0.0	17	.0
160	0	0.0	0	0.0	4	.0	1	.0	0	0.0	5	.0
170	0	0.0	0	0.0	2	.0	1	.0	0	0.0	3	.0
180	2	.0	2	.0	0	0.0	1	.0	0	0.0	5	.0
190	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
200	0	0.0	2	.0	0	0.0	0	0.0	0	0.0	2	.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	2	.0	1	.0	0	0.0	0	0.0	0	0.0	3	.0
230	1	.0	1	.0	0	0.0	1	.0	0	0.0	3	.0
240	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
260	1	.0	1	.0	1	.0	0	0.0	0	0.0	3	.0
270	1	.0	0	0.0	1	.0	1	.0	0	0.0	3	.0
280	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
290	0	0.0	0	0.0	1	.0	1	.0	0	0.0	2	.0
300	0	0.0	1	.0	1	.0	1	.0	0	0.0	3	.0
310	1	.0	0	0.0	2	.0	0	0.0	1	.0	4	.0
320	1	.0	1	.0	1	.0	0	0.0	1	.0	4	.0
330	0	0.0	2	.0	0	0.0	1	.0	1	.0	4	.0
340	1	.0	0	0.0	0	0.0	2	.0	0	0.0	3	.0
350	0	0.0	3	.0	1	.0	3	.0	0	0.0	7	.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	25	13	38	.5	34	.4	16	.2	3	.0	116	1.4

MEAN WIND SPEED 6

NUMBER OF CALM HRS 21

PERCENT CALM .3

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE (OC/100M) - -1.69/-1.5
(320-75FT)

DIRECTION	2-3		4-7		SPEEDS (MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
20	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
30	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
40	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
110	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
120	0	0.0	5	.1	1	.0	0	0.0	0	0.0	6	.1
130	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
140	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
150	2	.0	3	.0	3	.0	1	.0	0	0.0	9	.1
160	2	.0	1	.0	2	.0	1	.0	0	0.0	6	.0
170	0	0.0	1	.0	0	0.0	1	.0	0	0.0	2	.0
180	1	.0	1	.0	0	0.0	1	.0	0	0.0	3	.0
190	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	1	.0	0	0.0	4	.0	0	0.0	0	0.0	5	.1
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	0	0.0	1	.0	0	0.0	0	0.0	0	0.0	1	.0
250	0	0.0	1	.0	2	.0	0	0.0	0	0.0	3	.0
260	1	.0	2	.0	1	.0	0	0.0	0	0.0	4	.0
270	0	0.0	0	0.0	2	.0	0	0.0	0	0.0	2	.0
280	0	0.0	1	.0	1	.0	2	.0	0	0.0	4	.0
290	0	0.0	0	0.0	0	0.0	4	.0	0	0.0	4	.0
300	0	0.0	0	0.0	0	0.0	2	.0	0	0.0	2	.0
310	0	0.0	0	0.0	1	.0	0	0.0	1	.0	2	.0
320	0	0.0	0	0.0	1	.0	4	.0	1	.0	6	.1
330	1	.0	2	.0	2	.0	5	.1	2	.0	12	.1
340	0	0.0	2	.0	3	.0	7	.1	0	0.0	12	.1
350	0	0.0	2	.0	3	.0	3	.0	0	0.0	8	.1
360	0	0.0	0	0.0	1	.0	0	0.0	0	0.0	1	.0
	11	.1	27	.3	30	.4	31	.4	4	.0	103	1.2

MEAN WIND SPEED 8

~~NUMBER OF CALM HRS~~ 18

PERCENT CALM .2

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE(OC/100M) = -1.49/0.5
(320-75FT)

		SPEEDS (MI/HR)											
		2-3		4-7		8-12		13-18		19 PLUS		SUM PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT			
10	12	11	37	4	24	3	14	2	3	0	90	1.1	
20	6	11	26	3	22	3	10	1	0	0	64	.8	
30	1	10	27	3	12	1	4	0	0	0	44	.5	
40	10	11	17	2	10	1	1	0	1	0	39	.5	
50	4	10	9	1	7	1	3	0	0	0	23	.3	
60	10	11	14	2	6	1	1	0	0	0	31	.4	
70	9	11	7	1	4	0	6	1	3	0	29	.3	
80	7	11	6	1	5	1	4	0	2	0	24	.3	
90	8	11	12	1	5	1	5	1	0	0	30	.4	
100	14	12	25	3	6	1	4	0	0	0	49	.6	
110	18	12	28	3	11	1	1	0	0	0	58	.7	
120	19	12	48	6	20	2	0	0	0	0	87	1.0	
130	14	12	74	9	44	5	9	1	2	0	143	1.7	
140	15	12	81	10	57	7	10	1	0	0	163	2.0	
150	18	12	91	11	80	10	14	2	0	0	203	2.4	
160	26	13	76	16	90	11	46	6	2	0	240	2.9	
170	10	11	44	5	73	9	47	6	5	1	179	2.2	
180	18	12	32	4	86	10	59	7	17	2	212	2.5	
190	9	11	35	4	24	3	11	1	2	0	81	1.0	
200	5	11	13	2	12	1	10	1	0	0	40	.5	
210	7	11	22	3	21	3	8	1	2	0	60	.7	
220	3	10	14	2	23	3	3	0	0	0	43	.5	
230	2	10	15	2	8	1	3	0	0	0	28	.3	
240	2	10	15	2	17	2	0	0	1	0	35	.4	
250	7	11	23	3	9	1	1	0	0	0	40	.5	
260	3	10	11	1	18	2	2	0	0	0	34	.4	
270	5	11	11	1	16	2	5	1	1	0	38	.5	
280	5	11	20	2	20	2	8	1	1	0	54	.6	
290	4	10	18	2	39	5	35	4	1	0	97	1.2	
300	6	11	47	6	66	8	50	6	9	1	178	2.1	
310	13	12	49	6	58	7	82	10	40	5	242	2.9	
320	11	11	55	7	80	10	84	10	41	5	271	3.3	
330	6	11	55	7	91	11	63	8	53	6	258	3.2	
340	11	11	60	7	64	8	92	11	39	5	266	3.2	
350	5	11	25	3	42	5	43	5	13	2	128	1.5	
360	10	11	31	4	34	4	31	4	3	0	109	1.3	
	333	470	1173	141	1204	145	769	92	241	29	3720	44.7	

MEAN WIND SPEED 8

NUMBER OF CALM HRS 351

PERCENT CALM 4.2

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE(OC/100M)- -0.49/ 1.5
(320-75FT)

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	11	.1	13	.2	8	.1	1	.0	2	.0	35	.4
20	3	.0	15	.2	6	.1	2	.0	0	.0	26	.3
30	3	.0	8	.1	5	.1	4	.0	1	.0	21	.3
40	4	.0	10	.1	3	.0	0	.0	0	.0	17	.2
50	2	.0	4	.0	0	.0	0	.0	0	.0	6	.1
60	5	.1	8	.1	4	.0	1	.0	0	.0	18	.2
70	8	.1	3	.0	0	.0	1	.0	0	.0	12	.1
80	2	.0	5	.1	2	.0	0	.0	0	.0	9	.1
90	7	.1	11	.1	0	.0	0	.0	0	.0	18	.2
100	7	.1	7	.1	3	.0	0	.0	0	.0	17	.2
110	12	.1	14	.2	7	.1	2	.0	0	.0	35	.4
120	14	.2	13	.2	8	.1	3	.0	0	.0	38	.5
130	28	.3	31	.4	8	.1	3	.0	0	.0	70	.8
140	26	.3	23	.3	13	.2	3	.0	0	.0	65	.8
150	34	.4	46	.6	12	.1	3	.0	0	.0	95	1.1
160	28	.3	49	.6	31	.4	9	.1	0	.0	117	1.4
170	23	.3	33	.4	40	.5	14	.2	0	.0	110	1.3
180	44	.5	42	.5	29	.3	7	.1	1	.0	123	1.5
190	42	.5	28	.3	11	.1	0	.0	0	.0	81	1.0
200	19	.2	19	.2	5	.1	0	.0	0	.0	43	.5
210	20	.2	20	.2	6	.1	1	.0	0	.0	47	.6
220	17	.2	19	.2	4	.0	0	.0	0	.0	40	.5
230	14	.2	10	.1	3	.0	0	.0	0	.0	27	.3
240	21	.3	20	.2	4	.0	1	.0	0	.0	46	.6
250	10	.1	21	.3	2	.0	0	.0	0	.0	33	.4
260	14	.2	15	.2	2	.0	0	.0	0	.0	31	.4
270	35	.4	33	.4	2	.0	1	.0	0	.0	71	.9
280	35	.4	41	.5	7	.1	2	.0	0	.0	85	1.0
290	23	.3	37	.4	22	.3	3	.0	0	.0	85	1.0
300	35	.4	59	.7	33	.4	5	.1	5	.1	137	1.6
310	26	.3	58	.7	49	.6	13	.2	12	.1	198	2.4
320	34	.4	76	.9	45	.5	19	.2	3	.0	177	2.1
330	32	.4	57	.7	25	.3	8	.1	2	.0	124	1.5
340	32	.4	53	.6	22	.3	10	.1	2	.0	119	1.4
350	20	.2	21	.3	16	.2	6	.1	1	.0	64	.8
360	10	.1	17	.2	9	.1	4	.0	0	.0	40	.5
700	824		937	11.3	446	5.4	126	1.5	29	.3	2238	26.9

MEAN WIND SPEED 4

NUMBER OF CALM HRS 732

PERCENT CALM 8.8

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE(OC/100M)- 1.51/ 4.0
(320-75FT)

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
10	1	.0	0	.0	0	.0	0	.0	0	.0	1	.0
20	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
30	2	.0	0	.0	1	.0	0	.0	0	.0	3	.0
40	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
50	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
60	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
70	0	.0	1	.0	1	.0	0	.0	0	.0	2	.0
80	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
90	1	.0	0	.0	0	.0	0	.0	0	.0	1	.0
100	0	.0	0	.0	3	.0	0	.0	0	.0	3	.0
110	0	.0	1	.0	0	.0	0	.0	0	.0	1	.0
120	1	.0	0	.0	0	.0	0	.0	0	.0	1	.0
130	1	.0	0	.0	0	.0	0	.0	0	.0	1	.0
140	1	.0	1	.0	0	.0	0	.0	0	.0	2	.0
150	3	.0	2	.0	0	.0	0	.0	0	.0	5	.1
160	0	.0	1	.0	0	.0	0	.0	0	.0	1	.0
170	2	.0	0	.0	1	.0	0	.0	0	.0	3	.0
180	4	.0	2	.0	2	.0	0	.0	0	.0	8	.1
190	4	.0	0	.0	0	.0	0	.0	0	.0	4	.0
200	3	.0	0	.0	0	.0	0	.0	0	.0	3	.0
210	3	.0	3	.0	0	.0	0	.0	0	.0	6	.1
220	4	.0	0	.0	0	.0	0	.0	0	.0	4	.0
230	8	.1	1	.0	0	.0	0	.0	0	.0	9	.1
240	9	.1	3	.0	0	.0	0	.0	0	.0	12	.1
250	12	.1	4	.0	0	.0	0	.0	0	.0	16	.2
260	8	.1	1	.0	0	.0	0	.0	0	.0	9	.1
270	28	.3	6	.1	0	.0	0	.0	0	.0	34	.4
280	39	.5	11	.1	2	.0	0	.0	0	.0	52	.6
290	17	.2	7	.1	0	.0	0	.0	0	.0	24	.3
300	26	.3	11	.1	1	.0	2	.0	0	.0	40	.5
310	18	.2	11	.1	0	.0	4	.0	0	.0	33	.4
320	9	.1	2	.0	1	.0	2	.0	0	.0	14	.2
330	21	.3	7	.1	0	.0	1	.0	2	.0	31	.4
340	14	.2	8	.1	3	.0	0	.0	0	.0	25	.3
350	6	.1	2	.0	1	.0	1	.0	0	.0	10	.1
360	3	.0	2	.0	1	.0	0	.0	0	.0	6	.1
248	370		87	1.0	17	.2	10	.1	2	.0	364	4.4

MEAN WIND SPEED 2

NUMBER OF CALM HRS 263

PERCENT CALM 3.2

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE(OC/100M)-
(320-75FT)

4.01/ 6.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0
240	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
250	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
260	4	0.0	2	0.0	0	0.0	0	0.0	0	0.0	6	0.0
270	16	0.0	7	0.0	0	0.0	0	0.0	0	0.0	23	0.0
280	11	0.0	4	0.0	0	0.0	0	0.0	0	0.0	15	0.0
290	5	0.0	4	0.0	0	0.0	0	0.0	0	0.0	9	0.0
300	7	0.0	2	0.0	1	0.0	0	0.0	0	0.0	10	0.0
310	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.0
320	2	0.0	1	0.0	2	0.0	0	0.0	1	0.0	6	0.0
330	3	0.0	0	0.0	0	0.0	4	0.0	0	0.0	7	0.0
340	1	0.0	2	0.0	0	0.0	1	0.0	0	0.0	4	0.0
350	2	0.0	2	0.0	0	0.0	0	0.0	0	0.0	4	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	77		26	0.0	4	0.0	5	0.0	1	0.0	96	0.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 69

PERCENT CALM

.8

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

LAPSE RATE(OC/100M)-
(320-75FT)

GT 6.0

DIRECTION	2-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
70	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
80	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
110	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
130	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
140	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
160	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
190	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
200	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
210	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
220	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
230	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
240	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
250	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
260	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
270	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
280	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
290	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
300	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
310	3	0.0	0	0.0	1	0.0	0	0.0	0	0.0	4	0.0
320	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
330	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
340	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
350	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
13	72		0	0.0	1	0.0	1	0.0	0	0.0	15	0.0

MEAN WIND SPEED 2

NUMBER OF CALM HRS 16

PERCENT CALM

.1

PBAPS

WIND ROSE FOR STATION 12 - 3YRS(8/67-7/70)

LOCATION SAT

ALL CLASSES

SPEEDS(MI/HR)													
2-3			4-7		8-12			13-18		19 PLUS		SUM	PERCENT
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT				
10	26	53	52	5	32	4	16	2	5	1	131	1.6	
20	12	44	44	5	30	4	12	1	0	0	98	1.2	
30	7	41	41	5	24	3	8	1	1	0	81	1.0	
40	14	33	33	4	13	2	1	0	1	0	62	.7	
50	6	16	16	2	7	1	3	0	0	0	32	.4	
60	17	22	28	3	11	1	3	0	0	0	59	.7	
70	19	22	13	2	7	1	7	1	3	0	49	.6	
80	10	11	15	2	8	1	4	0	2	0	39	.5	
90	18	12	29	3	6	1	5	1	0	0	58	.7	
100	25	13	36	4	14	2	4	0	0	0	79	.9	
110	34	14	48	6	19	2	3	0	0	0	104	1.3	
120	39	15	75	9	29	3	3	0	0	0	146	1.8	
130	47	16	107	13	52	6	13	2	2	0	221	2.7	
140	48	16	115	14	77	9	13	2	0	0	253	3.0	
150	63	18	156	19	111	13	18	2	0	0	348	4.2	
160	61	17	132	16	130	16	60	7	2	0	385	4.6	
170	38	15	79	7	119	14	65	8	5	1	306	3.7	
180	69	18	81	10	118	14	68	8	18	2	354	4.3	
190	60	17	63	8	36	4	12	1	2	0	173	2.1	
200	29	13	34	4	17	2	10	1	0	0	90	1.1	
210	31	14	45	5	27	3	9	1	2	0	114	1.4	
220	28	13	34	4	32	4	3	0	0	0	97	1.2	
230	26	13	28	3	11	1	4	0	0	0	69	.8	
240	37	14	39	5	21	3	1	0	1	0	99	1.2	
250	30	14	51	6	13	2	1	0	0	0	95	1.1	
260	33	14	33	4	22	3	2	0	0	0	90	1.1	
270	87	180	57	7	21	3	7	1	1	0	173	2.1	
280	91	111	77	9	30	4	12	1	1	0	211	2.5	
290	51	66	66	8	62	7	43	5	1	0	223	2.7	
300	76	119	120	14	103	12	60	7	14	2	373	4.5	
310	64	88	119	14	111	13	99	12	54	6	447	5.4	
320	58	117	135	16	130	16	109	13	47	6	479	5.8	
330	64	88	125	15	118	14	84	10	60	7	451	5.4	
340	60	117	127	15	94	11	113	14	41	5	435	5.2	
350	34	14	58	7	66	8	56	7	14	2	228	2.7	
360	23	13	51	6	45	5	35	4	3	0	157	1.9	
	1435	1773	2362	28.4	1766	21.2	966	11.6	280	3.4	6809	81.9	

MISSING HOURS 47988

MEAN WIND SPEED 6

TOTAL NUMBER OF CALM HRS 1507

PERCENT CALM 18.1

