

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

Supplemental Information

Facility THREE MILE ISLAND UNIT 1 DPR-50 Licensee Metropolitan Edison Company

1. Regulatory Limits

- Fission and activation gases:
- Iodines:
- Particulates, half-lives > 8 days: Environmental Tech. Specs., Appendix B, Article 2.2
- Liquid effluents:

Maximum Permissible Concentrations

Provide the MPC's used in determining allowable release rates or concentrations:

- Fission and activation gases:
- Iodines:
- Particulates, half-lives > 8 days: 10 CFR 20, Appendix B
- Liquid effluents:

Average Energy: 2.8×10^{-10} MeV, 8×10^{-10} MeV

Provide the average energy (E) of the fissionable mixture in releases of fission and activation gases, if applicable.

Measurements and Approximations of Total Radioactivity

Provide the methods used to measure or approximate the total radioactivity in effluents and the methods used to determine radionuclide composition.

- Fission and activation gases: GeLi Spectrometry, Liquid Scintillation
- Iodines: GeLi Spectrometry
- Particulates: GeLi Spectrometry, Gas Flow Proportional
- Liquid effluents: GeLi Spectrometry, Liquid Scintillation

5. Batch Releases

Provide the following information regarding batch releases of radioactive materials in liquid and gaseous effluents.

	3rd Quarter	4th Quarter
a. Liquid		
1. Number of batch releases:	37	37
2. Total time period for batch releases:	15457 min	20316 min
3. Maximum time period for a batch release:	995 min	1670 min
4. Average time period for batch releases:	418 min	549 min
5. Minimum time period for a batch release:	135 min	160 min
6. Average stream flow during periods of release:	753420 ft ³ /min	1058100 ft ³ /min

b. Gaseous

1. Number of batch releases:	28	22
2. Total time period for batch releases:	45417 min	88980 min
3. Maximum time period for a batch release:	23513 min	17890 min
4. Average time period for batch releases:	162 min	4040 min
5. Minimum time period for a batch release:	525 min	440 min

6. Abnormal Releases

a. Liquid

1. Number of releases:	None	None
2. Total activity released:		

b. Gaseous

1. Number of releases:		1
2. Total activity released:	None	7.94 Ci

1-21-45

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TABLE 1C

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR) - 1978

GASEOUS EFFLUENTS-GROUND-LEVEL RELEASES

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1st	Quarter 4th	Quarter 3rd	Quarter 4th

1. Fission gases

krypton-85	CI	< MDA E	< MDA E	< MDA E	4.39 E-
krypton-85m	CI	< MDA E	< MDA E	< MDA E	1.36 E-
krypton-87	CI	< MDA E	< MDA E	< MDA E	< MDA E
krypton-88	CI	< MDA E	< MDA E	< MDA E	< MDA E
xenon-135	CI	< MDA E	< MDA E	2.28 E3	3.28 E3
xenon-135m	CI	< MDA E	< MDA E	2.29 E1	3.19 E1
xenon-135m	CI	< MDA E	< MDA E	< MDA E	< MDA E
xenon-138	CI	< MDA E	< MDA E	< MDA E	< MDA E
Others (specify) Ar-1	CI	< MDA E	< MDA E	1.29 E1	3.76 E1
Xe-131m	CI	< MDA E	< MDA E	9.65 E1	4.95 E1
Xe-133m	CI	< MDA E	< MDA E	7.34 E0	8.47 E0
unidentified	CI	< MDA E	< MDA E	< MDA E	< MDA E
Total for period	CI	< MDA E	< MDA E	2.29 E3	3.36 E3

2. Iodines

Iodine-131	CI	1.11 E-2	1.72 E-5	4.36 E1	1.65 E1
Iodine-133	CI	< MDA E	< MDA E	< MDA E	< MDA E
Iodine-135	CI	< MDA E	< MDA E	< MDA E	< MDA E
Total for period	CI	1.11 E-2	1.72 E-5	4.36 E1	1.65 E1

3. Particulates

Strontium-89	CI	< MDA E	< MDA E	< MDA E	< MDA E
Strontium-90	CI	< MDA E	1.08 E-6	5.69 E-6	< MDA E
Cesium-137	CI	3.55 E3	6.31 E-7	3.55 E-5	< MDA E
Cesium-137	CI	6.04 E0	2.51 E-	0.70 E-5	2.50 E-6
Barium-140	CI	< MDA E	< MDA E	< MDA E	< MDA E
Others (specify)	CI	< MDA E	< MDA E	< MDA E	< MDA E
Co-58	CI	2.98 E-2	< MDA E	5.31 E-5	< MDA E
Co-60	CI	< MDA E	6.13 E-7	< MDA E	< MDA E
unidentified	CI	< MDA E	< MDA E	< MDA E	< MDA E

TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR) - 1978

LIQUID EFFLUENTS

Nucleus Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3 Quarter*	4 Quarter*	3 Quarter	4 Quarter
strontium-89	Cl	E	E	1.10 E-4	6.69 E-4
strontium-90	Cl	E	E	4.63 E-5	4.84 E-5
cesium-134	Cl	E	E	3.56 E-2	2.98 E-2
cesium-137	Cl	E	E	3.20 E-2	4.96 E-2
barium-138	Cl	E	E	1.90 E-2	<MDA E
rubidium-88	Cl	E	E	2.28 E-3	1.03 E-2
rubidium-90	Cl	E	E	2.13 E-3	2.25 E-3
iron-59	Cl	E	E	<MDA E	<MDA E
zinc-65	Cl	E	E	<MDA E	<MDA E
manganese-54	Cl	E	E	4.30 E-4	4.15 E-4
chromium-51	Cl	E	E	6.64 E-5	<MDA E
zirconium-niobium-95	Cl	E	E	7.10 E-4	1.09 E-4
molybdenum-99	Cl	E	E	<MDA E	<MDA E
technetium-99m	Cl	E	E	<MDA E	<MDA E
barium-lanthanum-140	Cl	E	E	<MDA E	<MDA E
cerium-141	Cl	E	E	<MDA E	<MDA E
I-135	Cl	E	E	<MDA E	1.50 E-5
Co-57	Cl	E	E	5.50 E-6	1.15 E-5
Ag-110m	Cl	E	E	1.01 E-5	3.50 E-5
Ag-110	Cl	E	E	1.50 E-5	3.02 E-5
Sr-90	Cl	E	E	1.50 E-5	1.50 E-5
Ag-108	Cl	E	E	<MDA E	1.11 E-5
TOTAL for period (above)	Cl	E	E	1.13 E-1	9.38 E-2
Xenon-133	Cl	E	E	1.19 E-1	3.50 E-2
Xenon-135	Cl	E	E	<MDA E	8.92 E-2

* There were no continuous mode liquid effluents, therefore continuous mode columns for the 3rd and 4th quarters are not applicable.

MINIMUM DETECTABLE ACTIVITIES

A. GASES

Kr85	-	3.755-5
Xe133	-	4.27E-7
Others	-	1.005-5

B. PARTICULATES FILTER

Na23	-	4.88E-13
Si28	-	2.31E-14
Si29	-	2.01E-14
Cs134	-	4.99E-13
Cs137	-	6.04E-13
Ba140	-	1.31E-12
La140	-	5.28E-13

C. CHARCOAL FILTER

I131	-	3.32E-13
I133	-	2.70E-13
I135	-	4.07E-12

D. LIQUIDS

Na24	-	1.49E-7
Na22	-	6.05E-7
Mn54	-	6.71E-7
Co58	-	1.34E-7
Pb210	-	2.92E-7
Co60	-	2.35E-7
Zn65	-	1.31E-7
Mn56	-	2.29E-7
Co60	-	1.85E-7
Aq110m	-	1.50E-7
I131	-	1.90E-7
I132	-	1.49E-7
I133	-	2.04E-7
I135	-	7.14E-7
Cs134	-	1.34E-7
Cs136	-	1.36E-7
Cs137	-	1.20E-7
Ba-La-140	-	5.61E-7
Ce141	-	3.68E-7

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

Supplemental Information

Facility THREE MILE ISLAND UNIT 2 DPR-72 Licensee Metropolitan Edison Company

1. Regulatory Limits

- Fission and activation gases: Env. Tech. Specs., Article 2.1
- Iodines:
- Particulates, half-lives > 8 days:
- Liquid effluents:

2. Maximum Permissible Concentrations

Provide the MPCs used in determining allowable release rates or concentrations.

- Fission and activation gases:
- Iodines:
- Particulates, half-lives > 8 days: 10 CFR Part 20, Appendix B
- Liquid effluents:

Average Energy Release Rate: 0.056 MW
Provide the average energy release rate in MW for the period of the release.

Measurements and Approximations of Total Radioactivity

Provide the methods used to measure or approximate the total radioactivity in effluents and the methods used to determine radionuclide composition.

- Fission and activation gases: GeLi Spectrometry, Liquid Scintillation
- Iodines: GeLi Spectrometry, Liquid Scintillation
- Particulates: GeLi Spectrometry, Liquid Scintillation; Gas Flow Proportional
- Liquid effluents: GeLi Spectrometry

3. Batch Releases

Provide the following information relating to batch releases of radioactive materials in liquid and gaseous effluents.

a. Liquid

1. Number of batch releases:	48	48
2. Total time period for batch releases:	12629 min	17765 min
3. Maximum time period for a batch release:	725 min	14729 min
4. Average time period for batch releases:	263 min	995 min
5. Minimum time period for a batch release:	110 min	190 min
6. Average streamflow during periods of release:	753420 ft ³ /min	1058100 ft ³ /min

b. Gaseous

1. Number of batch releases:	7	9
2. Total time period for batch releases:	9756	17200
3. Maximum time period for a batch release:	2880	14085
4. Average time period for batch releases:	1394	1911
5. Minimum time period for a batch release:	7	10

4. Abnormal Releases

a. Liquid

1. Number of releases:	None	None
2. Total activity released:		

b. Gaseous

1. Number of releases:	None	1
2. Total activity released:		8.44 Ci

TABLE 1C

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
GASEOUS EFFLUENTS—GROUND-LEVEL RELEASES

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3 Quarter	4 Quarter	3 Quarter	4 Quarter

1. Fission gases

krypton-85	CI	<MDA E	<MDA E	<MDA E	<MDA E
krypton-85m	CI	<MDA E	<MDA E	<MDA E	<MDA E
krypton-87	CI	<MDA E	<MDA E	<MDA E	<MDA E
krypton-88	CI	<MDA E	<MDA E	<MDA E	<MDA E
radon-222	CI	<MDA E	<MDA E	<MDA E	<MDA E
radon-220	CI	<MDA E	<MDA E	<MDA E	<MDA E
radon-219	CI	<MDA E	<MDA E	<MDA E	<MDA E
xenon-135m	CI	<MDA E	<MDA E	<MDA E	<MDA E
xenon-135	CI	<MDA E	<MDA E	<MDA E	<MDA E
Others (specify)	CI	<MDA E	<MDA E	<MDA E	<MDA E
AT-41	CI	<MDA E	<MDA E	<MDA E	<MDA E
unidentified	CI	<MDA E	<MDA E	<MDA E	<MDA E
Total for period	CI	MDA E	MDA E	3.43 E-3	8.44 E-3

2. Iodines

iodine-121	CI	4.67 E-5	4.32 E-5	<MDA E	<MDA E
iodine-133	CI	<MDA E	<MDA E	<MDA E	<MDA E
iodine-135	CI	<MDA E	<MDA E	<MDA E	<MDA E
Total for period	CI	4.67 E-5	4.32 E-5	<MDA E	<MDA E

3. Particulates

strontium-89	CI	<MDA E	<MDA E	<MDA E	<MDA E
strontium-90	CI	<MDA E	<MDA E	<MDA E	<MDA E
cesium-134	CI	5.20 E-4	2.68 E-3	2.46 E-3	2.28 E-3
cesium-137	CI	5.62 E-4	2.68 E-3	2.46 E-3	2.28 E-3
barium-lanthanum-140	CI	<MDA E	<MDA E	<MDA E	<MDA E
Others (specify) Co-60	CI	1.21 E-3	<MDA E	4.47 E-6	<MDA E
	CI	E	E	E	E
	CI	E	E	E	E
unidentified	CI	E	E	E	E

MINIMUM DETECTABLE ACTIVITIES

A. GASES

Kr85	-	3.755-5
Xe133	-	4.27E-7
CH4	-	1.005-5

B. PARTICULATES FILTER

Na24	-	3.755-13
Mn54	-	3.755-13
Cs137	-	3.755-13
Co60	-	3.755-13
Sr90	-	3.755-13
Cs137	-	3.755-13
Ba140	-	3.755-13
La140	-	3.755-13

C. CHARCOAL FILTER

I131	-	3.32E-13
I133	-	2.70E-13
I135	-	4.07E-12

D. LIQUIDS

Na24	-	1.47E-7
Mn54	-	5.95E-7
Cs137	-	1.34E-7
Co60	-	2.92E-7
Sr90	-	2.35E-7
Kr85	-	3.31E-7
Na24	-	2.29E-7
Mo99	-	1.85E-7
Ag110m	-	1.50E-7
I131	-	1.90E-7
I132	-	1.49E-7
I133	-	2.04E-7
I135	-	7.14E-7
Cs134	-	1.34E-7
Cs136	-	1.36E-7
Cs137	-	1.20E-7
So-La-140	-	5.61E-7
Ce141	-	3.58E-7

0-1.0

WIND SPEED AND DIRECTION
LESS THAN OR EQUAL
TO 100 FT

THE DIAPYCNES FROM 100 FT. TO 150 FT. DIFFERENCE BETWEEN 150 FT. AND 35 FT.

100

100

1900

ESS	C	SS	MS	W
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

SPEED (MPH)	N	NINE	NE	ENE	W
10					
20					
30					
40					
50					
60					
70					
80					
90					
100					

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

[illegible]

Year	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																														
12,5	14,5	16,5	18,5	20,5	22,5	24,5	26,5	28,5	30,5	32,5	34,5	36,5	38,5	40,5	42,5	44,5	46,5	48,5	50,5	52,5	54,5	56,5	58,5	60,5	62,5	64,5	66,5	68,5	70,5	72,5	74,5	76,5	78,5	80,5	82,5	84,5	86,5	88,5	90,5	92,5	94,5	96,5	98,5	100,5	102,5	104,5	106,5	108,5	110,5	112,5	114,5	116,5	118,5	120,5	122,5	124,5	126,5	128,5	130,5	132,5	134,5	136,5	138,5	140,5	142,5	144,5	146,5	148,5	150,5	152,5	154,5	156,5	158,5	160,5	162,5	164,5	166,5	168,5	170,5	172,5	174,5	176,5	178,5	180,5	182,5	184,5	186,5	188,5	190,5	192,5	194,5	196,5	198,5	200,5	202,5	204,5	206,5	208,5	210,5	212,5	214,5	216,5	218,5	220,5	222,5	224,5	226,5	228,5	230,5	232,5	234,5	236,5	238,5	240,5	242,5	244,5	246,5	248,5	250,5	252,5	254,5	256,5	258,5	260,5	262,5	264,5	266,5	268,5	270,5	272,5	274,5	276,5	278,5	280,5	282,5	284,5	286,5	288,5	290,5	292,5	294,5	296,5	298,5	300,5	302,5	304,5	306,5	308,5	310,5	312,5	314,5	316,5	318,5	320,5	322,5	324,5	326,5	328,5	330,5	332,5	334,5	336,5	338,5	340,5	342,5	344,5	346,5	348,5	350,5	352,5	354,5	356,5	358,5	360,5	362,5	364,5	366,5	368,5	370,5	372,5	374,5	376,5	378,5	380,5	382,5	384,5	386,5	388,5	390,5	392,5	394,5	396,5	398,5	400,5	402,5	404,5	406,5	408,5	410,5	412,5	414,5	416,5	418,5	420,5	422,5	424,5	426,5	428,5	430,5	432,5	434,5	436,5	438,5	440,5	442,5	444,5	446,5	448,5	450,5	452,5	454,5	456,5	458,5	460,5	462,5	464,5	466,5	468,5	470,5	472,5	474,5	476,5	478,5	480,5	482,5	484,5	486,5	488,5	490,5	492,5

[illegible]

	31	18	19	20	21	22	23	24	25	26	27	28	29	30	31
TOTAL	7.0	4.0	4.3	6.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
PERCENT	6.9	5.1	5.6	6.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
AV SPD															
AVERAGE SPEED FOR THIS TABLE EQUATION															

100

HOURS IN ABOVE TABLE WITH VARIABLE DENSITY

FREQUENCY/VARIABLES OF WIND SPEED AND DIRECTION
LOG #/100FT) GREATER THAN -1.0-BUY LESS
78070101 TO 78090204 SITE MI

FOR TEMPERATURE OF

AND DIRECTION FROM 100FT LEVEL
ON THE DIFFERENCE BETWEEN 150FT AND 33FT

[Faint, illegible vertical text]

WIND DIRECTION

100

[illegible]

SPEED(RPM)	N	NNB	LINE	ENGINE
CALC	0	0	0	0
CAL+ - 3.5	2	0	0	0

[illegible]

(Faint vertical text or markings)

[illegible]

2	5.0	0.0	7.4	0.0	5.2	4.1
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PERCENT
ΔV SPB 5.2 0.0 7.7 4.6 3.6
AVERAGE SPEED FOR THIS TABLE EQUALS
HOURS IN ABOVE TABLE WITH VARIABLE SPEED

100

[illegible]

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -.9 BUT LESS THAN OR EQUAL TO -.6

PERIOD OF RECORD FROM 78070101 TO 78093024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

SPEED (MPH)	WIND DIRECTION										NW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW			
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+ - 3.5	1	2	0	0	0	0	1	1	0	1	1	15	28.8	2.29
3.6 - 7.5	1	0	0	0	0	0	0	0	2	2	1	22	42.3	5.25
7.6 - 12.5	1	0	0	1	0	0	1	0	2	1	0	13	25.0	9.15
12.6 - 18.5	0	1	0	0	0	0	0	0	0	0	0	1	1.9	15.60
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	1	1.9	22.20
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	3	3	0	4	0	0	2	1	5	5	2	52	100.0	4.43
PERCENT	5.8	5.8	0.0	7.7	15.4	5.8	3.2	1.9	9.6	9.6	3.8	100.0		
AV SPD	4.0	5.6	0.0	6.9	5.6	5.4	5.7	2.4	6.6	5.4	5.4			

AVERAGE SPEED FOR THIS TABLE EQUALS 5.4
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION 4

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -.8 BUT LESS THAN -.3

PERIOD OF RECORD FROM 78070101 TO 78093024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

SPEED (MPH)	WIND DIRECTION										NW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW			
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+ - 3.5	10	7	6	10	0	0	0	5	3	2	0	111	25.0	2.57
3.6 - 7.5	15	14	16	23	0	0	0	16	12	14	0	217	48.0	5.36
7.6 - 12.5	4	1	3	8	0	0	0	15	13	14	0	107	24.1	8.98
12.6 - 18.5	1	0	0	0	0	0	0	0	2	0	0	9	2.0	14.08
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	30	22	27	41	0	0	0	26	24	17	0	444	100.0	4.62
PERCENT	6.8	5.0	6.1	9.2	0.0	0.0	0.0	5.9	5.4	3.8	0.0	100.0		
AV SPD	5.4	4.7	5.3	5.2	4.8	5.4	5.7	5.7	6.7	6.7	6.7			

AVERAGE SPEED FOR THIS TABLE EQUALS 5.4
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION 4

REQUEST NUMBER 001-0

JOINT THE DAILY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEGREES F) GREATER THAN .3 BUT LESS THAN OR EQUAL TO .8

PERIOD OF RECORD FROM 78070101 TO 78093024

PERIOD OF RECORD FROM 100FT LEVEL

PERIOD OF RECORD FROM 150FT AND 33FT

DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+	28	16	18	20	0	0	0	0	0	0	0	0	0	0	241	31.6	2.41
3.6	28	21	19	42	0	0	0	0	0	0	0	0	0	0	404	53.0	5.11
7.6	7	5	2	4	0	0	0	0	0	0	0	0	0	0	107	14.0	6.70
12.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	13.24
18.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	19.00
24.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	63	42	39	67	0	0	0	0	0	0	0	0	0	0	762	100.0	3.97
PERCENT	8.3	5.5	5.1	8.8	0	0	0	0	0	0	0	0	0	0	100.0		
AV SPD	4.5	4.5	4.1	4.8	0	0	0	0	0	0	0	0	0	0			

AVERAGE SPEED FOR THIS TABLE EQUALS

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION

REQUEST NUMBER 001-0

JOINT THE DAILY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEGREES F) GREATER THAN .8 BUT LESS THAN OR EQUAL TO 2.0

PERIOD OF RECORD FROM 78070101 TO 78093024

PERIOD OF RECORD FROM 100FT LEVEL

PERIOD OF RECORD FROM 150FT AND 33FT

DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+	11	13	11	17	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.6	4	7	8	17	0	0	0	0	0	0	0	0	0	0	181	58.2	2.33
7.6	2	0	0	2	0	0	0	0	0	0	0	0	0	0	120	38.6	4.63
12.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	3.2	8.80
18.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	17	20	19	20	0	0	0	0	0	0	0	0	0	0	311	100.0	2.97
PERCENT	5.5	6.4	6.1	6.4	0	0	0	0	0	0	0	0	0	0	100.0		
AV SPD	4.2	3.2	3.2	3.6	0	0	0	0	0	0	0	0	0	0			

AVERAGE SPEED FOR THIS TABLE EQUALS

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION

FOR TEMPERATURE
JOINTLY FOR THE
OF WIND SPEED AND DIRECTION
DEGREES F/100FT) GREATER THAN 2.2

PERIODICITY 78070101 Y0 78093024

TEMPERATURES BETWEEN 150°F AND 230°F.

SECTION

SPEED (MPH)	N	NNE	NE	E	ENE	E	SSE	S	SSW	SW	WSW	W	NNW	TOTAL	PERCENT	GED MEAN SPD (MPH)
ALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
ALM +	2	1	2	3	3	1	2	0	2	1	0	0	2	20	61.9	2.19
3.6 -	0	0	0	0	0	0	2	1	2	0	0	0	2	24	38.1	4.27
7.6 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
12.6 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
18.6 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
24.6 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2.6 +	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
TOTAL	2	1	2	3	3	1	4	1	4	1	0	0	3	62	100.0	2.32
PERCENT	3.2	1.6	3.2	12.7	12.7	1.6	6.3	1.6	6.3	1.6	0.0	0.0	7.9	100.0		

AVERAGE SPEED FOR THIS TABLE EQUALS
MOURS IN ABOVE TABLE WITH VARIABLE DIRECT

UNIT 1 + For Specific Periods in Third

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) LESS THAN OR EQUAL

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PERIOD OF RECORD FROM 78070311 TO 78093024

TEMPERATURE, DIFFERENCE BETWEEN 150°F AND 335°F

DIRECTIONS

[illegible]

25

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION

PERIOD OF RECORD FROM 7807031 TO 24007024

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN ISOFT AND 33FT:

WIND DIRECTION

[illegible]

STAGE 1 WITH
THIS VALUE

REQUEST NUMBER 001-24

FOR TEMPERATURE DIFFERENCE(DEC/F) GREATER THAN -.9 BUT LESS THAN OR EQUAL TO -.9

PERIOD OF RECORD FROM 78070311 TO 78093024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

FEED(NPH)	N	NNE	NE	ENE	E	ENE	ESE	SE	SSE	S	SSW	SW	WSW	W	NNW	TOTAL	PERCENT	GED MEAN SPD(MPH)
ALH+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.1	2.35
7.5	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0	0	42.1	4.55
12.5	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	36.8	8.97
18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
22.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
TOTAL	5.3	5.3	0.0	10.5	0.0	0.0	0.0	0.0	10.5	0.0	5.3	15.8	26.1	0.0	0.0	100.0	4.65	

REQUEST NUMBER 901-24

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION FOR TEMPERATURE DIFFERENCES ± 8 BUT LESS THAN ± 10 (FOOT) GREATER THAN

PERIOD OF RECORD FROM 78070311 TO 78093024
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

[illegible]

FEED	W	NNE	NE	ENE	S	SE	SSE	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2.0	17	16	17	25	11	20	9	19	10	24	24	22	17	18	305	30.1
3.0	33	21	13	40	12	29	12	29	33	36	40	46	35	48	477	47.0
4.0	11	0	5	15	4	9	4	10	2	1	9	12	14	30	261	15.8
5.0	2	0	0	0	0	0	0	2	0	0	0	0	2	17	29	2.9
6.0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	2.2
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
TOTAL	63	45	35	81	25	57	25	60	45	61	87	109	93	110	1014	100.0
PERCENT	5.2	4.4	3.5	8.0	2.5	5.6	2.5	5.9	4.4	6.0	8.7	10.9	9.2	10.8	100.0	

REQUEST NUMBER 001-23

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) LESS THAN OR EQUAL TO -1.0

PERIOD OF RECORD FROM 78073012 TO 78091012

WIND SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

DIRECTIONS

SPEED(MPH)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEOM MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.6	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	42.9	5.51
7.6	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	52.4	9.76
12.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.8	15.50
18.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	6	0	0	5	0	0	0	0	0	0	0	0	0	0	0	21	0.0	7.52
PERCENT	28.6	0.0	0.0	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		
AV SPD	11.3	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3		

AVERAGE SPEED FOR THIS TABLE EQUALS 8.4

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION 0

REQUEST NUMBER 001-23

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -1.0 BUT LESS THAN 0.0

PERIOD OF RECORD FROM 78073012 TO 78091012

WIND SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEOM MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	12.5	3.10
7.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	37.5	5.37
12.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	50.0	8.73
18.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	8	0.0	5.97
PERCENT	0.0	0.0	12.5	37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		
AV SPD	0.0	0.0	7.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0		

AVERAGE SPEED FOR THIS TABLE EQUALS 6.9

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION 0

REQUEST NUMBER 901-21

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN
-9 BUT LESS THAN 00, EQUAL TO 00, AND GREATER THAN 00

SILENT

PERIOD OF RECORD FROM 78073012 TO 78091813

SPEED AND DIRECTION FROM 100 FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 100 FT AND 33 FT

TEMPERATURE DIFFERENCE BETWEEN 100 FT AND 33 FT

[illegible]

REQUEST NUMBER 901-23

FOR TEMPERATURE DIFFERENCE (DEG. F) 100 FT GREATER THAN
- .8 BUT LESS THAN 100 FT GREATER THAN - .3

IMMUNOLOGY

PERIOD OF RECORD FROM 78073012 TO 78091813

SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 300FT

TEMPERATURE DIFFERENCE BETWEEN DOCT AND 33°C

[illegible]

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .3 BUT LESS THAN OR EQUAL TO .8

PERIOD OF RECORD FROM 78073012 TO 78091813

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

SITE T-1

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+	2	3	0	2	1	0	0	0	0	0	0	0	0	0	0	11	28.9
3.5	2	3	0	2	1	0	0	0	0	0	0	0	0	0	0	11	28.9
7.5	2	3	2	6	4	1	0	0	0	0	0	0	0	0	1	24	63.2
12.5	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7.0
18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
32.5+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	5	8	2	8	5	1	0	0	0	2	0	0	0	0	1	38	0.0
PERCENT	13.2	21.1	5.3	21.1	13.2	2.6	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	2.6	100.0	0.0
AV SPD	4.3	5.5	4.9	4.9	5.2	7.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	4.7	4.7	2.11

AVERAGE SPEED FOR THIS TABLE EQUALS 4.9

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 8

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .8 BUT LESS THAN OR EQUAL TO 2.2

PERIOD OF RECORD FROM 78073012 TO 78091813

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

SITE T-1

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALM+	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	7	2.40
3.5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	3.19
7.5	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	1	7.1
12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
32.5+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	0	0	1	2	4	1	0	0	0	0	0	0	0	0	14	14	0.0
PERCENT	0.0	0.0	7.1	21.4	28.6	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	3.33
AV SPD	0.0	0.0	2.7	5.4	5.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	0.00

AVERAGE SPEED FOR THIS TABLE EQUALS 5.0

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 3

REQUEST NUMBER 901-23

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN 2.2

SITE T41

PERIOD OF RECORD FROM 78073012 TO 78091813

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

ED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	66.7	2.25
12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	33.3	4.30
18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	100.0	2.87
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	33.3	33.3	0.0	0.0	0.0	0.0	100.0	
AV SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	4.4	2.5	0.0	0.0	0.0	0.0		

AV SPD FOR THIS TABLE EQUALS 3.1

URS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

ECD	N	NFE	NE	ENE	SUBS	AIRY	P.S.	L.E.	SSH	SH	HBM	M	F.M.H.	NW	NNH	TOTAL	PERCENT
-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
LA	7	3	3	2	6	1	1	1	1	2	1	0	0	0	2	31	20.3
UM	8	8	8	22	17	9	1	1	0	1	4	0	0	0	1	85	56.3
JG	2	2	3	7	4	3	1	0	1	0	0	0	0	0	2	22	21.2
-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.7
2-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
8-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
4-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
TOTAL	19	13	14	30	23	9	2	1	2	2	3	5	4	4	0	151	100.0
PERCENT	12.6	8.6	9.3	19.9	15.2	7	2	1	1.3	2.0	3.2	3.3	2.6	2.6	0	100.0	

REQUEST NUMBER 901-10

VALUES OF WIND SPEED AND DIRECTION

50

EQUAL TO

JOINT FREQUENCY POLLS OF 1980 AND 1981

SIZE, YMI

PERIOD OF RECORD FROM 78100101 TO 7812312A

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150 FT AND 133

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	TOTAL	PERCENT	GEO HEAD SPD(MPH)
CALM +	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.3	3.30
7.5	2	0	1	1	0	1	0	0	1	0	0	0	0	0	1	8	38.1	5.37
12.5	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	8	38.1	9.00
17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.8	16.60
22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.8	20.30
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	21	0.0	6.21

REQUEST NUMBER 901-10

1

10

...THE WIND SPEED AND DIRECTION...

SIZE THIS

PERIOD OF RECORD FROM 78100101 TO - 78123124

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150 FT AND 300 FT

WIND DIRECTION

[illegible]

TO STU 2.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1 13.2 13.3 13.4 13.5 13.6 13.7 13.8 13.9 14.0 14.1 14.2 14.3 14.4 14.5 14.6 14.7 14.8 14.9 15.0 15.1 15.2 15.3 15.4 15.5 15.6 15.7 15.8 15.9 16.0 16.1 16.2 16.3 16.4 16.5 16.6 16.7 16.8 16.9 17.0 17.1 17.2 17.3 17.4 17.5 17.6 17.7 17.8 17.9 18.0 18.1 18.2 18.3 18.4 18.5 18.6 18.7 18.8 18.9 19.0 19.1 19.2 19.3 19.4 19.5 19.6 19.7 19.8 19.9 20.0 20.1 20.2 20.3 20.4 20.5 20.6 20.7 20.8 20.9 21.0 21.1 21.2 21.3 21.4 21.5 21.6 21.7 21.8 21.9 22.0 22.1 22.2 22.3 22.4 22.5 22.6 22.7 22.8 22.9 23.0 23.1 23.2 23.3 23.4 23.5 23.6 23.7 23.8 23.9 24.0 24.1 24.2 24.3 24.4 24.5 24.6 24.7 24.8 24.9 25.0 25.1 25.2 25.3 25.4 25.5 25.6 25.7 25.8 25.9 26.0 26.1 26.2 26.3 26.4 26.5 26.6 26.7 26.8 26.9 27.0 27.1 27.2 27.3 27.4 27.5 27.6 27.7 27.8 27.9 28.0 28.1 28.2 28.3 28.4 28.5 28.6 28.7 28.8 28.9 29.0 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9 30.0 30.1 30.2 30.3 30.4 30.5 30.6 30.7 30.8 30.9 31.0 31.1 31.2 31.3 31.4 31.5 31.6 31.7 31.8 31.9 32.0 32.1 32.2 32.3 32.4 32.5 32.6 32.7 32.8 32.9 33.0 33.1 33.2 33.3 33.4 33.5 33.6 33.7 33.8 33.9 34.0 34.1 34.2 34.3 34.4 34.5 34.6 34.7 34.8 34.9 35.0 35.1 35.2 35.3 35.4 35.5 35.6 35.7 35.8 35.9 36.0 36.1 36.2 36.3 36.4 36.5 36.6 36.7 36.8 36.9 37.0 37.1 37.2 37.3 37.4 37.5 37.6 37.7 37.8 37.9 38.0 38.1 38.2 38.3 38.4 38.5 38.6 38.7 38.8 38.9 39.0 39.1 39.2 39.3 39.4 39.5 39.6 39.7 39.8 39.9 40.0 40.1 40.2 40.3 40.4 40.5 40.6 40.7 40.8 40.9 41.0 41.1 41.2 41.3 41.4 41.5 41.6 41.7 41.8 41.9 42.0 42.1 42.2 42.3 42.4 42.5 42.6 42.7 42.8 42.9 43.0 43.1 43.2 43.3 43.4 43.5 43.6 43.7 43.8 43.9 44.0 44.1 44.2 44.3 44.4 44.5 44.6 44.7 44.8 44.9 45.0 45.1 45.2 45.3 45.4 45.5 45.6 45.7 45.8 45.9 46.0 46.1 46.2 46.3 46.4 46.5 46.6 46.7 46.8 46.9 47.0 47.1 47.2 47.3 47.4 47.5 47.6 47.7 47.8 47.9 48.0 48.1 48.2 48.3 48.4 48.5 48.6 48.7 48.8 48.9 49.0 49.1 49.2 49.3 49.4 49.5 49.6 49.7 49.8 49.9 50.0 50.1 50.2 50.3 50.4 50.5 50.6 50.7 50.8 50.9 51.0 51.1 51.2 51.3 51.4 51.5 51.6 51.7 51.8 51.9 52.0 52.1 52.2 52.3 52.4 52.5 52.6 52.7 52.8 52.9 53.0 53.1 53.2 53.3 53.4 53.5 53.6 53.7 53.8 53.9 54.0 54.1 54.2 54.3 54.4 54.5 54.6 54.7 54.8 54.9 55.0 55.1 55.2 55.3 55.4 55.5 55.6 55.7 55.8 55.9 56.0 56.1 56.2 56.3 56.4 56.5 56.6 56.7 56.8 56.9 57.0 57.1 57.2 57.3 57.4 57.5 57.6 57.7 57.8 57.9 58.0 58.1 58.2 58.3 58.4 58.5 58.6 58.7 58.8 58.9 59.0 59.1 59.2 59.3 59.4 59.5 59.6 59.7 59.8 59.9 60.0 60.1 60.2 60.3 60.4 60.5 60.6 60.7 60.8 60.9 61.0 61.1 61.2 61.3 61.4 61.5 61.6 61.7 61.8 61.9 62.0 62.1 62.2 62.3 62.4 62.5 62.6 62.7 62.8 62.9 63.0 63.1 63.2 63.3 63.4 63.5 63.6 63.7 63.8 63.9 64.0 64.1 64.2 64.3 64.4 64.5 64.6 64.7 64.8 64.9 65.0 65.1 65.2 65.3 65.4 65.5 65.6 65.7 65.8 65.9 66.0 66.1 66.2 66.3 66.4 66.5 66.6 66.7 66.8 66.9 67.0 67.1 67.2 67.3 67.4 67.5 67.6 67.7 67.8 67.9 68.0 68.1 68.2 68.3 68.4 68.5 68.6 68.7 68.8 68.9 69.0 69.1 69.2 69.3 69.4 69.5 69.6 69.7 69.8 69.9 70.0 70.1 70.2 70.3 70.4 70.5 70.6 70.7 70.8 70.9 71.0 71.1 71.2 71.3 71.4 71.5 71.6 71.7 71.8 71.9 72.0 72.1 72.2 72.3 72.4 72.5 72.6 72.7 72.8 72.9 73.0 73.1 73.2 73.3 73.4 73.5 73.6 73.7 73.8 73.9 74.0 74.1 74.2 74.3 74.4 74.5 74.6 74.7 74.8 74.9 75.0 75.1 75.2 75.3 75.4 75.5 75.6 75.7 75.8 75.9 76.0 76.1 76.2 76.3 76.4 76.5 76.6 76.7 76.8 76.9 77.0 77.1 77.2 77.3 77.4 77.5 77.6 77.7 77.8 77.9 78.0 78.1 78.2 78.3 78.4 78.5 78.6 78.7 78.8 78.9 79.0 79.1 79.2 79.3 79.4 79.5 79.6 79.7 79.8 79.9 80.0 80.1 80.2 80.3 80.4 80.5 80.6 80.7 80.8 80.9 81.0 81.1 81.2 81.3 81.4 81.5 81.6 81.7 81.8 81.9 82.0 82.1 82.2 82.3 82.4 82.5 82.6 82.7 82.8 82.9 83.0 83.1 83.2 83.3 83.4 83.5 83.6 83.7 83.8 83.9 84.0 84.1 84.2 84.3 84.4 84.5 84.6 84.7 84.8 84.9 85.0 85.1 85.2 85.3 85.4 85.5 85.6 85.7 85.8 85.9 86.0 86.1

AVERAGE SPEED FOR THE FOLLOWING CATEGORIES

4

姓名	性别	年龄	职业	住址	电话	备注
王德胜	男	45	教师	XX路XX号	XXXXXX	
李小红	女	38	医生	XX街XX号	XXXXXX	
张小明	男	25	学生	XX村XX组	XXXXXX	
赵大刚	男	52	工人	XX厂XX车间	XXXXXX	
孙丽娟	女	41	护士	XX医院XX科	XXXXXX	
周国强	男	33	工程师	XX公司XX部	XXXXXX	
吴小芳	女	29	会计	XX单位XX处	XXXXXX	
郑大伟	男	48	经理	XX企业XX室	XXXXXX	
陈美玲	女	35	作家	XX小区XX栋	XXXXXX	
黄志强	男	55	农民	XX乡XX村	XXXXXX	
徐小华	女	22	歌手	XX酒吧XX台	XXXXXX	
郭大勇	男	40	警察	XX派出所XX室	XXXXXX	
马丽娟	女	30	记者	XX报社XX部	XXXXXX	
周国强	男	50	教授	XX大学XX系	XXXXXX	
吴小芳	女	28	律师	XX律所XX楼	XXXXXX	
郑大伟	男	42	画家	XX画室XX号	XXXXXX	
陈美玲	女	36	厨师	XX餐厅XX厨	XXXXXX	
黄志强	男	58	工人	XX厂XX班	XXXXXX	
徐小华	女	24	舞蹈家	XX舞团XX队	XXXXXX	
郭大勇	男	44	消防员	XX消防队XX班	XXXXXX	
马丽娟	女	32	主持人	XX电视台XX部	XXXXXX	
周国强	男	54	科学家	XX研究所XX室	XXXXXX	
吴小芳	女	26	模特	XX经纪公司XX部	XXXXXX	
郑大伟	男	46	作家	XX书店XX室	XXXXXX	
陈美玲	女	34	教师	XX学校XX班	XXXXXX	
黄志强	男	56	农民	XX农场XX队	XXXXXX	
徐小华	女	23	歌手	XX音乐厅XX台	XXXXXX	
郭大勇	男	43	警察	XX公安局XX处	XXXXXX	
马丽娟	女	31	记者	XX报社XX部	XXXXXX	
周国强	男	51	教授	XX大学XX系	XXXXXX	
吴小芳	女	27	律师	XX律所XX楼	XXXXXX	
郑大伟	男	41	画家	XX画室XX号	XXXXXX	
陈美玲	女	37	厨师	XX餐厅XX厨	XXXXXX	
黄志强	男	57	工人	XX厂XX班	XXXXXX	
徐小华	女	25	舞蹈家	XX舞团XX队	XXXXXX	
郭大勇	男	45	消防员	XX消防队XX班	XXXXXX	
马丽娟	女	33	主持人	XX电视台XX部	XXXXXX	
周国强	男	53	科学家	XX研究所XX室	XXXXXX	
吴小芳	女	29	模特	XX经纪公司XX部	XXXXXX	
郑大伟	男	47	作家	XX书店XX室	XXXXXX	
陈美玲	女	35	教师	XX学校XX班	XXXXXX	
黄志强	男	59	农民	XX农场XX队	XXXXXX	
徐小华	女	27	歌手	XX音乐厅XX台	XXXXXX	
郭大勇	男	47	警察	XX公安局XX处	XXXXXX	
马丽娟	女	35	记者	XX报社XX部	XXXXXX	
周国强	男	55	教授	XX大学XX系	XXXXXX	
吴小芳	女	31	律师	XX律所XX楼	XXXXXX	
郑大伟	男	49	画家	XX画室XX号	XXXXXX	
陈美玲	女	39	厨师	XX餐厅XX厨	XXXXXX	
黄志强	男	61	工人	XX厂XX班	XXXXXX	
徐小华	女	31	舞蹈家	XX舞团XX队	XXXXXX	
郭大勇	男	49	消防员	XX消防队XX班	XXXXXX	
马丽娟	女	37	主持人	XX电视台XX部	XXXXXX	
周国强	男	57	科学家	XX研究所XX室	XXXXXX	
吴小芳	女	33	模特	XX经纪公司XX部	XXXXXX	
郑大伟	男	51	作家	XX书店XX室	XXXXXX	
陈美玲	女	41	教师	XX学校XX班	XXXXXX	
黄志强	男	63	农民	XX农场XX队	XXXXXX	
徐小华	女	33	歌手	XX音乐厅XX台	XXXXXX	
郭大勇	男	51	警察	XX公安局XX处	XXXXXX	
马丽娟	女	39	记者	XX报社XX部	XXXXXX	
周国强	男	59	教授	XX大学XX系	XXXXXX	
吴小芳	女	35	律师	XX律所XX楼	XXXXXX	
郑大伟	男	53	画家	XX画室XX号	XXXXXX	
陈美玲	女	43	厨师	XX餐厅XX厨	XXXXXX	
黄志强	男	65	工人	XX厂XX班	XXXXXX	

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .3 BUT LESS THAN OR EQUAL TO .8
SITE 1M1

REQUEST NUMBER 901-10

PERIOD OF RECORD FROM 78100101 TO 78123124

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALC - 3.5	12	9	10	14	9	19	6	7	10	10	11	12	15	11	10	17	182	15.6	2.28
3.5 - 7.5	19	17	42	45	37	18	15	21	25	33	32	28	26	21	23	32	434	37.2	5.46
7.5 - 12.5	9	0	5	8	41	24	10	1	15	30	9	5	47	55	49	33	344	29.5	9.39
12.5 - 18.5	1	0	0	3	0	0	0	0	0	7	2	2	33	22	23	14	157	13.5	14.75
18.5 - 24.5	0	0	0	3	0	0	0	0	0	1	0	0	12	5	2	6	47	4.0	20.71
24.5 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	.2	26.78
32.5+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	41	26	57	73	87	61	31	29	50	81	54	50	155	182	107	102	1166	0.0	5.58
PERCENT	3.5	2.2	4.9	6.3	7.5	5.2	2.7	2.5	4.3	6.9	4.6	4.3	11.6	15.6	9.2	8.7	100.0		
AV SPD	5.6	4.1	5.3	6.2	7.2	5.9	6.3	5.1	6.1	7.5	5.7	6.9	10.7	12.4	9.8	8.9			

AVERAGE SPEED FOR THIS TABLE EQUALS

8.2

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 75

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .8 BUT LESS THAN OR EQUAL TO 2.2
SITE 1M1

REQUEST NUMBER 901-10

PERIOD OF RECORD FROM 78100101 TO 78123124

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALC - 3.5	10	8	7	11	7	10	1	10	6	5	11	15	13	13	11	26	170	52.5	2.25
3.5 - 7.5	18	2	2	6	5	4	0	1	7	14	12	12	13	10	9	20	125	38.6	5.07
7.5 - 12.5	1	0	0	0	0	2	0	1	4	5	2	0	0	0	3	5	25	7.7	8.54
12.5 - 18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	4	1.2	13.74
18.5 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.5 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	33	10	9	17	12	16	1	12	17	24	25	22	26	19	25	52	324	0.0	3.13
PERCENT	10.8	3.1	2.8	5.2	3.7	4.9	.3	3.7	5.2	7.4	7.7	6.8	8.6	6.9	7.7	16.0	100.0		
AV SPD	4.0	2.5	2.6	3.6	3.3	3.8	1.7	3.1	4.9	5.7	4.6	3.1	4.6	3.3	5.3	4.2			

AVERAGE SPEED FOR THIS TABLE EQUALS

4.1

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 68

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (D.C. F/100FT) GREATER THAN 2.2

SITE INT

PERIOD OF RECORD FROM 78100101 TO 78123124

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

D (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	NNW	NNW	TOTAL	PERCENT	GED MEAN SPD (MPH)
3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
7.5	10	9	5	8	18	7	10	13	13	12	15	14	9	11	182	65.9	2.02
12.5	17	2	2	3	4	0	0	7	7	13	15	10	3	8	91	33.0	4.70
18.5	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3	1.1	8.42
24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	17	11	7	11	22	7	11	20	20	26	30	24	17	19	276	0.0	2.51
GEOM	6.2	4.0	2.5	4.0	8.0	4.0	2.5	4.0	7.2	9.4	10.9	8.7	12.7	12.7	100.0	6.9	100.0
W SPD	3.2	2.3	2.7	3.1	2.7	2.9	2.2	2.1	3.1	4.0	3.7	3.5	3.3	3.4	100.0	3.4	100.0

PAGE SPEED FOR THIS TABLE EQUALS 3.2
AS IN ABOVE TABLE WITH VARIABLE DIRECTION

Addendum 5

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION FOR TEMPERATURE DIFFERENCE (DEG. F/100FT) LESS THAN OR EQUAL

SPEED AND DIRECTION FROM 100 FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 100 FT AND 33 FT

REQUEST NUMBER 001-23

PERIOD OF RECORD FROM 781001 TO 78123124

SPEED AND DIRECTION FROM 100FT LEVEL

WIND DIRECTION	WIND SPEED (KNOTS)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	NW	NNW	TOTAL	PERCENT	G20 MEAN SPD (KNOTS)
ALM	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
21.0	7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.0	7.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	23.3	4.88
7.0	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	44.4	9.56
12.0	18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	22.2	14.62
17.0	24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
22.0	32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9.0	7.73
PERCENT		11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		
AV SPD		5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9		

AVERAGE SPEED FOR THIS TABLE EQUALS 5.9
 THIS IS ABOVE TABLE WITH VARIABLE DIRECTION

REQUEST NUMBER 901-25

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN --.8 BUT LESS THAN OR EQUAL TO --.8

SITE TMI
PERIOD OF RECORD FROM 78100101 TO 78123124
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

SPEED(MPH)	WIND DIRECTION										NMW	NMW TOTAL	PERCENT	GEO MEAN SPD(MPH)
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW		
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
AVG SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
AVERAGE SPEED FOR THIS TABLE EQUALS 0.1													0.0	0.00
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION													5	7.92

REQUEST NUMBER 901-25

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN --.8 BUT LESS THAN OR EQUAL TO --.3

SITE TMI
PERIOD OF RECORD FROM 78100101 TO 78123124
SPEED AND DIRECTION FROM 100FT LEVEL
TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

SPEED(MPH)	WIND DIRECTION										NMW	NMW TOTAL	PERCENT	GEO MEAN SPD(MPH)
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW		
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
AVG SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
AVERAGE SPEED FOR THIS TABLE EQUALS 0.5													0.0	0.00
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION													95	6.74

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F) 100 FT OR GREATER THAN -.3 BUT LESS THAN OR EQUAL TO .3

SITE ID

PERIOD OF RECORD FROM 78100101 TO 78123124

WIND SPEED AND DIRECTION FROM 100 FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 100 FT AND 33 FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CALC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CALC	3.5	4	3	3	3	3	3	3	4	3	0	0	0	0	0	0	89	12.3	2.26
7.5	9	8	33	35	35	35	35	35	17	22	2	0	0	0	0	0	263	36.4	5.49
12.5	8	0	4	5	5	5	5	5	18	20	1	0	0	0	0	0	217	30.1	9.50
16.5	0	0	0	3	3	3	3	3	0	7	1	0	0	0	0	0	116	16.1	14.76
20.5	0	0	0	3	3	3	3	3	0	0	0	0	0	0	0	0	35	4.8	20.62
24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	.3	26.78
32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	23	12	40	55	55	55	55	55	23	22	3	0	0	0	0	0	722	0.0	6.03
PERCENT	3.2	1.7	5.5	7.6	7.6	7.6	7.6	7.6	4.0	3.3	0.4	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.00
AV SPD	6.1	3.7	5.6	6.6	6.6	6.6	6.6	6.6	6.0	5.8	0.9	0.0	0.0	0.0	0.0	0.0	8.7	0.0	6.03

AVERAGE SPEED FOR THIS TABLE EQUALS

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION

2.2

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

FOR TEMPERATURE DIFFERENCE

PERIOD OF RECORD FROM 78100101 TO 78123124

WIND SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 100FT AND 33FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN
0-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.6-7.5	6	1	1	4	0	0	0	0	0	0	0	0	0	0	0	55	42.0	2.33
7.6-12.5	7	1	2	4	0	0	0	0	0	0	0	0	0	0	0	57	43.5	5.29
12.6-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	13.0	8.57
18.6-24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.5	13.63
24.6-32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	13	2	3	8	0	0	0	7	6	1	0	0	0	0	0	131	100.0	3.58
BL-CRT	5.9	1.5	2.3	6.1	0.0	0.0	0.0	5.3	6.9	0.4	0.0	0.0	0.0	0.0	0.0	22.6	16.4	0.00
AVERAGE	3.7	3.0	3.8	4.3	0.0	0.0	0.0	5.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	16.6	10.0	0.00

AVERAGE SPEED FOR THIS TABLE EQUALS 3.7 HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION

[illegible]

REQUEST NUMBER 901-22

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) LESS THAN OR EQUAL TO -1.0
SITE TMI

PERIOD OF RECORD FROM 78100802 TO 78122603

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

DIRECTIONS

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
ALP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
CLM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.0 - 7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
7.5 - 12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
12.5 - 17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	100.0	9.80
17.5 - 22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
22.5 - 27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
27.5 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5 - 37.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	100.0	9.80
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
AV SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	9.8	9.8

AVERAGE SPEED FOR THIS TABLE EQUALS 9.8
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

REQUEST NUMBER 901-22

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -1.0 BUT LESS THAN OR EQUAL TO -0.9
SITE TMI

PERIOD OF RECORD FROM 78100802 TO 78122603

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD (MPH)
CLM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.0 - 7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
7.5 - 12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
12.5 - 17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
17.5 - 22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
22.5 - 27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
27.5 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5 - 37.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
AV SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00

AVERAGE SPEED FOR THIS TABLE EQUALS 0.0
HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION = 0

JOINT FREQUENCY TABLE OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -.9 BUT LESS THAN OR EQUAL TO -.8

SITE 1M1

PERIOD OF RECORD FROM 78100802 TO 78122603

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
0-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5-7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
7.5-12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
18.5-24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.5-32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.00
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
AV SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00

AVERAGE SPEED FOR THIS TABLE EQUALS 0.0

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION 0

JOINT FREQUENCY TABLE OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN -.8 BUT LESS THAN OR EQUAL TO -.3

SITE 1M1

PERIOD OF RECORD FROM 78100802 TO 78122603

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEO MEAN SPD(MPH)
0-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
3.5-7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
7.5-12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
18.5-24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.5-32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.5+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
AV SPD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00

AVERAGE SPEED FOR THIS TABLE EQUALS 0.0

HOURS IN ABOVE TABLE WITH VARIABLE DIRECTION 0

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .3 BUT LESS THAN OR EQUAL TO .8

REQUEST NUMBER 901-22

PERIOD OF RECORD FROM 78100802 TO 78122603

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

WIND (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEOM MEAN SPD (MPH)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
0+ - 3.5	2	1	0	0	0	1	0	0	0	1	1	2	0	0	1	1	13	5.9	2.53
3.6 - 7.5	7	4	17	26	3	4	5	0	5	1	6	10	6	7	3	109	49.3	5.50	
7.6 - 12.5	1	0	1	4	11	3	0	0	0	8	1	2	10	12	8	66	29.9	9.38	
12.6 - 18.5	0	0	0	0	0	0	0	0	0	1	1	2	10	7	2	26	11.8	14.89	
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	2.3	21.43	
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	.9	26.78	
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00	
TOTAL	10	5	18	30	14	8	5	0	5	11	9	10	36	12	27	11	221	0.0	6.49
PERCENT	4.5	2.3	8.1	13.6	6.3	3.6	2.3	0.0	2.3	5.0	4.1	7.2	16.3	5.4	12.2	5.0	100.0		
AV SPD	5.2	4.4	5.7	6.3	6.5	6.2	6.0	5.5	5.7	9.0	6.8	7.0	12.0	10.1	10.4	8.1			

AVERAGE SPEED FOR THIS TABLE EQUALS 6.5
WORKS IN ABOVE TABLE WITH VARIABLE DIRECTION

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN .8 BUT LESS THAN OR EQUAL TO 2.2

REQUEST NUMBER 901-22

PERIOD OF RECORD FROM 78100802 TO 78122603

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

WIND (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	GEOM MEAN SPD (MPH)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
0+ - 3.5	2	1	0	0	0	0	0	0	1	0	0	1	4	1	1	1	12	44.4	2.30
3.6 - 7.5	1	0	0	4	2	0	0	0	0	0	0	0	2	0	0	3	12	44.4	5.14
7.6 - 12.5	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	3	11.1	9.30
12.6 - 18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
18.6 - 24.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
24.6 - 32.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
32.6+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	3	1	0	4	2	0	0	0	2	0	0	1	7	1	1	5	27	0.0	3.43
PERCENT	11.1	3.7	0.0	14.8	7.4	0.0	0.0	0.0	7.4	0.0	0.0	3.7	25.9	3.7	3.7	18.5	100.0		
AV SPD	3.5	2.5	0.0	5.9	6.0	0.0	0.0	0.0	5.5	0.0	0.0	2.0	11.1	5.0	5.4	8.3			

AVERAGE SPEED FOR THIS TABLE EQUALS 6.5
WORKS IN ABOVE TABLE WITH VARIABLE DIRECTION

JOINT FREQUENCY TABLES OF WIND SPEED AND DIRECTION
FOR TEMPERATURE DIFFERENCE (DEG F/100FT) GREATER THAN 2.25
STATE TX

PERIOD OF RECORD FROM 78100802 TO 78122603

SPEED AND DIRECTION FROM 100FT LEVEL

TEMPERATURE DIFFERENCE BETWEEN 150FT AND 33FT

WIND DIRECTION

WIND DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSH	SW	WSW	W	WNW	NW	NNW	TOTAL	PERCENT	DEO MEAN SPD(MPH)
0-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
5-10	4	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	8	88.9	2.28
10-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11.1	5.80
15-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
20-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
25-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
30-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
35-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
40-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
45-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
50-55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
55-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
60-65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
65-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
70-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
75-80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
80-85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
85-90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
90-95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
95-100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00
TOTAL	4	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	9	9.0	2.45
PERCENT	44.4	0.0	11.1	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		
AV SPD	2.3	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

VERGE SPEED FOR THIS TABLE EQUALS 2.7
OURS IN ABOVE TABLE WITH VARIABLE DIRECTION

[illegible]