

Facility BVPS Unit #1 Licensee DUQUESNE LIGHT COMPANY

1. Regulatory Limits

- | | |
|--------------------------------------|---------------|
| a. Fission and activation gases: | Article 2.4-3 |
| b. Iodines: | Article 2.4-3 |
| c. Particulates, half-lives >8 days: | Article 2.4-3 |
| d. Liquid effluents: | Article 2.4-3 |

2. Maximum Permissible Concentrations

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

- | | |
|--------------------------------------|---------------------------------|
| a. Fission and activation gases: | 10 CFR 20, Appendix B, Table II |
| b. Iodines: | 10 CFR 20, Appendix B, Table II |
| c. Particulates, half-lives >8 days: | 10 CFR 20, Appendix B, Table II |
| d. Liquid effluents: | 10 CFR 20, Appendix B, Table II |

3. Average Energy

Provide the average energy (\bar{E}) of the radionuclide mixture in releases of fission and activation gases, if applicable. Not Applicable

4. 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.

- | | |
|----------------------------------|--|
| a. Fission and activation gases: | GeLi Gamma Spectrometry, Liquid Scintillation |
| b. Iodines: | GeLi Gamma Spectrometry |
| c. Particulates: | GeLi Gamma Spectrometry, Low Background Proportional Counter |
| d. Liquid effluents: | GeLi Gamma Spectrometry, Liquid Scintillation |

5. Batch Releases

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

	1 st Quarter	2 nd Quarter
a. Liquid	102	158
1. Number of batch releases:	7650 minutes	14248 minutes
2. Total time period for batch releases:	157 minutes	382 minutes
3. Maximum time period for a batch release:	75 minutes	90 minutes
4. Average time period for batch releases:	42 minutes	38 minutes
5. Minimum time period for a batch release:	40,333 Ft. ³ /sec	61,333 Ft. ³ /sec
6. Average stream flow during periods of release:		

	1 st Quarter	2 nd Quarter
b. Gaseous	4	20
1. Number of batch releases:	2519 minutes	18301 minutes
2. Total time period for batch releases:	738 minutes	2758 minutes
3. Maximum time period for a batch release:	630 minutes	915 minutes
4. Average time period for batch releases:	497 minutes	152 minutes
5. Minimum time period for a batch release:		

6. Abnormal Releases

8309010113 830819
PDR ADDCK 05000334
R PDR

- | | |
|-----------------------------|------|
| a. Liquid | NONE |
| 1. Number of releases: | |
| 2. Total activity released: | |

- | | |
|-----------------------------|---|
| b. Gaseous | 1 |
| 1. Number of releases: | |
| 2. Total activity released: | 3.79E0 Curies (This value is based entirely on xenon-133) |

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter 1st	Quarter 2nd	Est. Total Error, %
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A. Fission & activation gases

1. Total release	Ci	7.06E-1	1.96E+2	2.0E+1
2. Average release rate for period	μ Ci/sec	8.96E-2	2.49E+1	
3. Percent of technical specification limit	%	N/A	N/A	

B. Iodines

1. Total iodine-131	Ci	3.93E-3	4.43E-2	1.5E+1
2. Average release rate for period	μ Ci/sec	4.99E-4	5.62E-3	
3. Percent of technical specification limit	%	1.97E-1	2.22E+0	

C. Particulates

1. Particulates with half-lives >8 days	Ci			2.0E+1
2. Average release rate for period	μ Ci/sec			
3. Percent of technical specification limit	%	N/A	N/A	
4. Gross alpha radioactivity	Ci	1.09E-6	5.15E-7	

D. Tritium *

1. Total release	Ci	4.38E-3	4.64E-2	1.5E+1
2. Average release rate for period	μ Ci/sec	5.56E-4	5.89E-3	
3. Percent of technical specification limit	%	N/A	N/A	

N/A = Not Applicable

The amount of time (in seconds) used to calculate the release rates specified in A.2, B.2, C.2 and D.2 is the average amount of seconds per calendar quarter (7.88E+6 seconds).

B.3 is based on a limit of 2 Ci/quarter.

* The total curies of tritium released for the first and second quarters include average values. These are due to the loss of five samples from gaseous waste discharges for the first and second quarters.

TABLE 1B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

GASEOUS EFFLUENTS - ELEVATED RELEASE

CONTINUOUS MODE

BATCH MODE

Nuclides Released	Unit	Quarter	Quarter	Quarter	Quarter
-------------------	------	---------	---------	---------	---------

1. Fission gases

		1st	2nd	1st	2nd
krypton-85	Ci	6.57E-4	4.84E-4	5.96E-1	3.73E+0
krypton-85m	Ci	LLD	LLD	LLD	LLD
krypton-87	Ci	LLD	LLD	LLD	LLD
krypton-88	Ci	LLD	LLD	LLD	LLD
xenon-133	Ci	2.16E-3	2.05E-3	6.73E-2	8.49E-3
xenon-135	Ci	8.15E-5	1.24E-4	LLD	LLD
xenon-135m	Ci	5.52E-6	4.83E-5	LLD	LLD
xenon-138	Ci	LLD		LLD	LLD
xenon-131m	Ci	LLD	3.04E-6	8.17E-3	LLD
xenon-133m	Ci	1.30E-6	LLD	LLD	LLD
	Ci				
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	2.91E-3	2.71E-3	6.71E-1	3.74E+0

2. Iodines

iodine-131	Ci	3.52E-5	2.25E-4	LLD	LLD
iodine-133	Ci	2.48E-6	1.78E-5	LLD	LLD
iodine-135	Ci	LLD	LLD	LLD	LLD
Total for period	Ci	3.77E-5	2.43E-4	---	---

3. Particulates

strontium-89	Ci	LLD		LLD	LLD
strontium-90	Ci			LLD	LLD
cesium-134	Ci	LLD	2.68E-7	LLD	LLD
cesium-137	Ci	LLD	4.17E-7	LLD	LLD
barium-lanthanum-140	Ci	LLD	LLD	LLD	LLD
manganese - 54	Ci	9.50E-7	LLD	LLD	LLD
cobalt - 58	Ci	LLD	1.24E-7	LLD	LLD
cobalt - 60	Ci	3.88E-5	2.94E-6	LLD	LLD
unidentified	Ci	NONE	NONE	NONE	NONE

LLD = Below the Lower Limit of Detectability, in uCi/cc (Table 4).

TABLE 1C

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

CONTINUOUS MODE

BATCH MODE

Nuclides Released	Unit	Quarter	Quarter	Quarter	Quarter
		No Releases			
1. Fission gases		1st	2nd	1st	2nd
krypton-85	Ci	2.72E-2	4.57E-2		6.53E+0
krypton-85m	Ci	LLD	LLD		LLD
krypton-87	Ci	LLD	LLD		LLD
krypton-88	Ci	LLD	LLD		LLD
* xenon-133	Ci	4.29E-3	3.80E+0		1.76E+2
xenon-135	Ci	2.24E-4	LLD		7.45E-1
xenon-135m	Ci	LLD	1.83E-4		LLD
xenon-138	Ci	LLD	LLD		LLD
xenon-131m	Ci	LLD	LLD		4.27E+0
xenon-133m	Ci	LLD	LLD		7.24E-1
	Ci				
unidentified	Ci	NONE	NONE		NONE
Total for period	Ci	3.17E-2	3.85E+0	✓	1.88E+2

2. Iodines

iodine-131	Ci	3.74E-3	1.42E-2		2.89E-2
iodine-133	Ci	1.49E-4	4.81E-4		4.51E-4
iodine-135	Ci	LLD	LLD		LLD
Total for period	Ci	3.89E-3	1.47E-2	✓	2.94E-2

3. Particulates

strontium-89	Ci	8.55E-6			LLD
strontium-90	Ci				LLD
cesium-134	Ci	LLD	7.28E-5		LLD
cesium-137	Ci	LLD	1.11E-4		LLD
barium-lanthanum-140	Ci	LLD	LLD		LLD
cerium - 141	Ci	2.00E-6	LLD		LLD
manganese - 54	Ci	LLD	1.53E-3		LLD
cobalt - 58	Ci	LLD	5.85E-5		LLD
unidentified	Ci	NONE	NONE	✓	NONE

LLD = Below the Lower Limit of Detectability, in uCi/cc (Table 4).

* The value listed for the second quarter continuous mode (3.80E0 Curies) includes an abnormal release of 3.79 E0 Curies as stated on the Supplemental Information Page.

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Unit	Quarter	Quarter	Est. Total Error, %
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A. Fission & activation products

		1st	2nd	
1. Total release (not including tritium, gases, alpha)	Ci	5.39E-3		2.0E+1
2. Average diluted concentration during period	uCi/ml	6.01E-9		
3. Percent of applicable limit	%	5.39E-2		

B. Tritium

1. Total release	Ci	1.36E+2	1.66E+2	1.5E+1
2. Average diluted concentration during period	uCi/ml	1.52E-4	9.49E-4	
3. Percent of applicable limit	%	5.07E+0	3.16E+1	

C. Dissolved and entrained gases

1. Total release	Ci	5.00E-2	2.27E-1	2.7E+1
2. Average diluted concentration during period	uCi/ml	5.57E-8	1.30E-6	
3. Percent of applicable limit	%	N/A	N/A	

D. Gross alpha radioactivity

1. Total release	Ci	LLD	LLD	2.9E+1
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E. Volume of waste released (prior to dilution)	liters	7.58E+5	1.26E+6	5.0E+0
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F. Volume of dilution water used during period	liters	8.97E+8	1.75E+8	1.0E+1
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LLD = Below the Lower Limit of Detectability, in uCi/cc (Table 4).

N/A = Not Applicable

A.3 is based on a limit of 10 Ci/quarter.

B.3 is based on a limit of 3.00E-3 uCi/ml.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1st	Quarter 2nd	Quarter 1st	Quarter 2nd
strontium-89	Ci	N/A	N/A	1.86E-6	3.90E-6
strontium-90	Ci			LLD	
cesium-134	Ci			3.33E-4	2.86E-3
cesium-137	Ci			4.33E-4	3.34E-3
iodine-131	Ci	↓	↓	1.67E-3	1.56E-3
cobalt-58	Ci			1.32E-4	1.24E-3
cobalt-60	Ci			2.01E-3	2.38E-3
iron-59	Ci			LLD	LLD
zinc-65	Ci			LLD	LLD
manganese-54	Ci			5.19E-5	6.23E-6
chromium-51	Ci	↓	↓	LLD	2.82E-5
zirconium-niobium-95	Ci			4.90E-7	LLD
molybdenum-99	Ci			LLD	2.65E-5
technetium-99M	Ci			1.31E-4	3.33E-3
barium-lanthanum-140	Ci			5.85E-6	6.72E-5
cerium-141	Ci	↓	↓	LLD	3.18E-5
Other (specify) iodine - 133	Ci			4.37E-4	5.72E-4
iodine - 134	Ci			1.62E-6	LLD
cobalt - 57	Ci			2.06E-6	LLD
niobium - 97	Ci			1.76E-4	9.95E-5
silver - 110m	Ci			LLD	8.00E-7
unidentified	Ci	↓	↓	NONE	NONE
Total for period (above)	Ci	↓	↓	5.39E-3	
xenon-133	Ci	↓	↓	3.39E-2	1.87E-1
xenon-135	Ci	↓	↓	8.81E-3	3.19E-2

LLD = Below the Lower Limit of Detectability in uCi/cc (Table 4).

N/A = Not Applicable (Liquids not discharged in a continuous mode).

TABLE 3

1st HALF 1983

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of waste	Unit	6-month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	4.03E+1 1.14E+1	3.00E+1
b. Dry compressible waste, contaminated equip, etc.	m ³ Ci	6.80E+1 8.48E-1	3.00E+1
c. Irradiated components, control rods, etc.	m ³ Ci	NONE NONE	
d. Other (describe)	m ³ Ci	NONE NONE	

2. Estimate of major nuclide composition (by type of waste)

a.	cobalt - 60	%	3.84E+1
	cesium - 137	%	3.64E+1
	cesium - 134	%	2.01E+1
b.	cobalt - 60	%	5.96E+1
	cesium - 137	%	2.45E+1
	cesium - 134	%	1.31E+1
c.		%	
		%	
		%	
d.		%	
		%	
		%	
		%	

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
14	Truck	Barnwell, SC

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
None		

Note: The values listed in A.1.a and A.1.b are cubic meters of waste volume.
The actual burial volumes are slightly larger due to container size.

T A B L E 4
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1983)
LOWER LIMIT OF DETECTION
(NOMINAL)

GAS	
Kr-85	2.0 E-10 $\mu\text{Ci/cc}$ (Teledyne Sample)
Kr-85m	6.67 E-9
Kr-87	2.01 E-8
Kr-88	1.73 E-8
Xe-133	4.15 E-8
Xe-135	9.96 E-9
Xe-135m	1.58 E-8
Xe-138	4.10 E-8
I-131	9.60 E-7
I-133	2.17 E-6
I-135	1.16 E-5
Cs-134	1.29 E-8
Cs-137	1.12 E-8
Ba/La-140	2.02 E-8
H-3	1.0 E-6
Gross Alpha	4.9 E-8
Sr-89	1 E-6
Sr-90	6.2 E-6
Xe-133m	9.98 E-8
Xe-131m	1.59 E-8
Mn-54	1.18 E-8
Ce-144	5.43 E-8

Assume
 1 cc
 Volume

LIQUID	
Cs-134	1.7 E-8 $\mu\text{Ci/cc}$
Cs-137	1.43 E-8
I-131	1.76 E-8
Fe-59	4.62 E-8
Zn-65	8.50 E-8
Mo-99	1.45 E-8
Tc-99m	7.36 E-9
Ba/La-140	6.6 E-8/2.38 E-8
Ce-141	8.56 E-8
Na-24	2.06 E-8
Cr-51	1.48 E-7
Xe-137	7.9 E-8
Xe-135	1.56 E-8
H-3	1 E-6
Gross Alpha	7 E-10
Sr-89	1.3 E-9
Sr-90	3.1 E-9
Co-58	4.4 E-8
Co-60	1.83 E-8
Mn-54	1.39 E-8
Xe-133	5.44 E-8
Zr/Nb-95	3.92 E-8

ASSUME: 1 HR COUNT

BEAVER VALLEY
JOINT FREQUENCY DISTRIBUTION TABLES
FOR
CONTINUOUS RELEASE

FOR
 $\Delta T(150\text{FT}-35\text{FT})$ AND 35-FT WIND
AND
 $\Delta T(500\text{FT}-35\text{FT})$ AND 500-FT WIND

FIRST QUARTER 1983
(JANUARY 1, 1983 - MARCH 31, 1983)

TIME OF DAY: 17:01:48

PROGRAM JFD VERSION 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER DLBV2

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	2	6	2	3	6	2	2	2	0	0	4	6	4	1	1	41
3.51- 7.50	15	6	12	12	17	11	7	3	3	2	4	0	14	20	7	14	149
7.51-12.50	0	0	0	0	0	0	0	0	0	0	3	0	2	3	4	1	13
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	15	10	18	14	20	17	9	5	5	2	7	4	22	27	12	16	203

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	3	8
3.51- 7.50	3	1	0	0	3	0	0	0	1	0	2	0	4	4	2	0	20
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	1	0	1	3	1	0	0	1	1	2	1	7	6	3	3	33

TIME OF DAY: 17:01 48

PROGRAM JFD VERSION 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER DLBV2

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS C

STABILITY BASED ON DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	1	1	0	2	1	1	0	0	1	0	1	2	4	1	0	3	18
3 51- 7 50	0	0	1	4	1	1	0	0	0	1	3	2	1	7	2	4	27
7 51-12 50	0	0	0	0	0	0	0	0	0	0	2	0	5	1	0	0	8
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	1	6	2	2	0	0	1	1	6	4	10	9	2	7	53

STABILITY CLASS D

STABILITY BASED ON DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	23	27	21	35	17	12	8	11	14	9	13	29	28	44	51	25	367
3 51- 7 50	21	6	1	35	25	3	3	1	4	9	21	32	101	63	81	36	442
7 51-12 50	0	0	0	0	0	0	0	0	0	0	6	24	22	9	7	3	71
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	44	33	22	70	42	15	11	12	18	18	40	90	151	116	139	64	888

TIME OF DAY: 17.01.48

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER DLBV2

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	5	13	34	43	26	19	12	12	8	27	24	12	4	7	7	7	260
3 51- 7 50	4	1	3	25	32	6	0	1	0	2	6	6	16	8	8	4	122
7 51-12 50	0	0	0	0	0	0	0	0	0	3	1	6	6	0	0	0	16
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9	14	37	68	58	25	12	13	8	32	31	25	26	15	15	11	401

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	2	0	9	9	26	39	27	24	13	7	0	0	1	1	0	0	158
3 51- 7 50	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	5
7 51-12 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	9	9	26	39	27	24	15	9	1	0	1	1	0	0	166

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
0 76- 3 50	0	0	5	12	34	70	73	40	22	5	1	0	0	0	0	0	262
3 51- 7 50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7 51-12 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	5	12	34	70	73	40	23	5	1	0	0	0	0	0	268

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	13
0 76- 3 50	31	43	75	104	107	148	122	89	60	49	39	48	43	57	60	39	1114
3 51- 7 50	43	16	17	76	78	21	10	5	11	16	37	40	136	102	100	58	766
7 51-12 50	0	0	0	0	0	0	0	0	0	3	12	30	38	15	11	4	113
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	74	59	92	180	183	169	132	94	71	68	88	124	217	174	171	101	2012

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2012

TOTAL NUMBER OF MISSING OBSERVATIONS: 148

PERCENT DATA RECOVERY FOR THIS PERIOD: 93.1 %

MEAN WIND SPEED FOR THIS PERIOD: 3.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
10.09	1.64	2.63	44.14	19.93	8.25	13.32

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	15	10	18	14	20	17	9	5	5	2	7	4	22	27	12	16	0
B	3	1	0	1	3	1	0	0	1	1	2	1	7	6	3	3	0
C	1	1	1	6	2	2	0	0	1	1	6	4	10	9	2	7	0
D	44	33	22	70	42	15	11	12	18	18	40	90	151	116	139	64	3
E	9	14	37	68	58	25	12	13	8	32	31	25	26	15	15	11	2
F	2	0	9	9	26	39	27	24	15	9	1	0	1	1	0	0	3
G	0	0	5	12	34	70	73	40	23	5	1	0	0	0	0	0	5
TOTAL	74	59	92	180	185	169	132	94	71	68	88	124	217	174	171	101	13

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76-3 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 51-7 50	0	0	2	1	1	0	1	0	0	0	0	0	0	0	0	0	5
7 51-12 50	0	0	2	4	3	0	1	2	2	0	0	0	0	2	0	0	16
12 51-18 50	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	4
18 51-24 00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	4	6	4	3	3	2	2	0	0	0	0	2	0	0	26

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76-3 50	5	9	12	6	5	3	2	4	9	2	6	8	11	4	3	2	91
3 51-7 50	12	21	19	10	16	14	12	13	9	11	8	11	23	19	19	10	227
7 51-12 50	41	3	4	19	29	22	9	4	8	8	16	12	50	82	63	69	441
12 51-18 50	6	3	0	30	35	53	22	3	1	0	17	25	96	92	24	8	415
18 51-24 00	0	0	0	0	1	4	5	0	0	0	5	7	41	9	2	0	74
24 00	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	6
TOTAL	64	36	35	65	86	96	50	24	27	21	52	66	224	206	113	89	1254

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	4	5	3	4	5	3	2	7	1	1	4	9	6	3	7	5	69
3.51- 7.50	4	5	3	12	12	10	11	2	4	5	8	11	5	13	6	4	115
7.51-12.50	5	0	8	19	8	10	8	12	4	7	5	7	20	10	8	9	140
12.51-18.50	1	1	2	6	5	16	2	3	0	1	9	9	5	2	3	0	65
18.51-24.00	0	0	0	0	0	5	0	0	0	0	0	5	2	0	0	0	12
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	14	11	16	41	30	44	23	24	9	14	26	41	39	28	24	18	403

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
0.76- 3.50	1	2	2	5	11	5	3	3	5	2	4	6	5	5	4	4	67
3.51- 7.50	1	0	0	21	9	11	7	7	8	1	9	3	4	5	3	0	89
7.51-12.50	1	0	1	7	8	3	4	6	10	4	0	1	7	9	0	2	63
12.51-18.50	0	0	0	1	2	0	0	0	0	1	2	0	3	0	0	0	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	2	3	34	30	19	14	16	23	8	15	10	19	19	7	6	230

TIME OF DAY: 17:03:36

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER DLBV2

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0 76- 3 50	0	1	3	2	0	3	6	5	3	1	1	0	0	0	1	0	26
3 51- 7 50	0	0	0	2	8	6	4	3	7	3	4	2	0	0	1	0	40
7 51-12 50	0	0	0	0	0	0	0	0	3	2	3	0	0	0	0	0	8
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	3	4	8	9	10	8	13	6	8	2	0	0	2	0	75

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	4
0 76- 3 50	10	17	20	17	21	14	13	19	18	6	15	23	22	12	15	11	253
3 51- 7 50	17	26	24	46	46	41	35	25	28	20	29	27	32	37	29	14	476
7 51-12 50	47	3	15	54	50	35	23	24	27	21	24	20	77	103	73	80	676
12 51-18 50	7	4	2	40	42	76	25	6	1	2	28	34	104	94	27	8	500
18 51-24 00	0	0	0	0	1	10	5	0	0	0	5	12	43	9	2	0	87
>24.00	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	7
TOTAL	81	50	61	157	160	176	101	74	74	49	101	119	282	255	146	113	2003

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2003

TOTAL NUMBER OF MISSING OBSERVATIONS: 157

PERCENT DATA RECOVERY FOR THIS PERIOD: 92.7 %

MEAN WIND SPEED FOR THIS PERIOD: 9.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.15	0.60	1.30	62.61	20.12	11.48	3.74

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	5	2	4	1	0	0	0	0	0	0	0	0	0	0
C	0	0	4	6	4	3	3	2	2	0	0	0	0	2	0	0	0
D	64	36	35	65	86	96	50	24	27	21	52	66	224	206	113	89	0
E	14	11	16	41	30	44	23	24	9	14	26	41	39	28	24	18	1
F	3	2	3	34	30	19	14	16	23	8	15	10	19	19	7	6	2
G	0	1	3	4	8	9	10	8	13	6	8	2	0	0	2	0	1
TOTAL	81	50	61	157	160	176	101	74	74	49	101	119	282	255	146	113	4

BEAVER VALLEY

JOINT FREQUENCY DISTRIBUTION TABLES
FOR
BATCH RELEASES

FIRST QUARTER 1983

09 50 10

VERSION: 5P

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983

STABILITY CLASS A

BETWEEN 500 0 AND 35 0 FEET

WIND MEASURED AT: 500 0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

[illegible]

STABILITY CLASS B

BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT 500.0 FEET

WIND	THRESHOLD	AT:	0.75 MPH
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JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

[illegible]

*** * NUS CORPORATION - ENVIRONMENTAL SERVICES * ***

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS C

STABILITY BASED ON DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

[illegible]

STABILITY CLASS D

STABILITY TV BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

[illegible]

VERSION: 5P

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

...

3

BETWEEN 500.0 AND 35.0 FEET

LINE	MEASURED AT	500 0 FEET
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WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3.50	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
3 51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 51-12.50	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
12 51-18.50	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
18 51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
284.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	1	0	1	0	2	2	0	0	0	0	0	4

4

BETWEEN 500.0 AND 35.0 FEET

STABILITY BASED ON: DELTA T

WIND MEASURED AT: 500.0 FEET

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

[illegible]

TIME OF DAY: 09.50.10

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3 51- 7 50	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
7 51-12 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	0	0	0	0	2	3	0	1	0	0	0	0	0	0	0	0	0
3 51- 7 50	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	5
7 51-12 50	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	5
12 51-18 50	0	0	0	8	6	8	4	0	0	0	2	0	0	0	0	0	28
18 51-24 00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	10	9	14	6	1	0	2	2	0	0	0	0	0	45

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 45

TOTAL NUMBER OF VALID OBSERVATIONS: 45

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 12.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.22	2.22	4.44	57.78	13.33	13.33	6.67

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
D	0	0	1	10	6	3	4	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	1	0	1	0	2	2	0	0	0	0	0	0
F	0	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	10	9	16	6	1	0	2	2	0	0	0	0	0	0

BEAVER VALLEY

LISTINGS OF METEOROLOGICAL DATA
FOR
PERIODS OF GASEOUS EFFLUENT RELEASES
AT
THE 500-FT LEVEL
(ELEVATED)

FIRST QUARTER 1983

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REVO

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB	DEW	DELTA T	DELTA T	RAIN
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	TEMP	POINT			
				(MPH)	(DEG)	(SC)	(MPH)	(DEG)	(SC)	(MPH)	(DEG)	(SC)	(F)	(F)	(F)	(F)	(IN)
83	1	10	16	4.0	99	29.6 A	7.6	110	13.1 C	16.0	128	7.8 D	53.4	42.8	-0.5 D	-2.1 D	0.00
83	1	10	17	4.1	87	27.3 A	8.1	108	13.9 C	18.3	127	6.4 E	53.2	42.9	-0.2 E	-1.7 D	0.00
83	1	10	18	4.2	98	35.6 A	8.1	111	13.2 C	19.5	129	6.1 E	51.9	42.7	-0.2 E	-1.6 D	0.00
83	1	10	19	3.8	88	30.6 A	7.1	113	16.4 C	17.6	131	6.1 E	51.2	42.5	-0.3 E	-1.7 D	0.00
83	1	10	20	3.6	157	52.5 A	6.1	184	35.6 A	11.5	203	28.7 A	49.8	44.1	0.0 E	-1.2 E	0.03
83	1	10	21	1.7	49	37.9 A	2.2	55	37.0 A	3.5	168	27.1 A	47.2	47.0	0.1 E	-0.1 E	0.02
83	1	10	22	1.3	69	36.9 A	3.4	146	18.9 B	9.8	201	5.1 E	46.5	46.8	0.6 E	1.3 E	0.00
83	1	10	23	2.1	151	57.1 A	6.8	207	10.1 D	12.8	228	6.4 E	46.4	46.6	1.3 F	1.5 E	0.00
83	1	10	24	4.6	187	14.8 C	8.4	212	9.6 D	14.0	230	7.9 D	46.9	46.0	1.2 F	0.5 E	0.00
83	2	10	12	5.6	67	26.5 A	12.5	65	6.2 E	13.0	61	6.3 E	29.6	12.4	-2.1 A	-3.7 D	0.00
83	2	10	13	4.0	52	23.4 A	7.1	68	18.2 B	7.7	71	14.6 C	32.1	13.4	-1.7 A	-3.5 D	0.00
83	2	10	14	5.0	38	30.0 A	10.5	52	7.9 D	11.1	55	7.4 E	33.2	14.4	-1.8 A	-3.6 D	0.00
83	2	10	15	4.6	59	29.7 A	11.4	63	10.1 D	12.7	62	7.1 E	33.8	14.5	-1.6 A	-3.5 D	0.00
83	2	10	16	4.3	80	27.1 A	9.4	83	12.1 D	12.4	77	7.6 D	33.0	13.7	-1.1 B	-3.0 D	0.00
83	2	10	17	4.6	80	23.7 A	10.5	76	9.8 D	14.1	74	7.2 E	32.0	13.6	-0.6 D	-2.4 D	0.00
83	2	10	18	3.2	80	22.6 A	10.3	70	9.7 D	14.0	69	6.6 E	30.9	13.3	-0.3 E	-2.0 D	0.00
83	2	10	19	4.5	75	21.2 B	12.1	66	7.5 D	16.4	66	5.9 E	30.4	12.1	-0.2 E	-1.9 D	0.00
83	2	10	20	4.8	57	31.6 A	14.2	60	6.2 E	16.9	67	5.3 E	29.8	12.5	-0.3 E	-2.1 D	0.00
83	2	10	21	4.4	67	23.6 A	12.3	64	7.8 D	15.0	71	6.8 E	29.2	12.4	-0.4 D	-2.2 D	0.00
83	2	10	22	4.3	70	31.1 A	11.5	68	11.4 D	15.6	77	8.0 D	28.3	11.0	-0.5 D	-2.2 D	0.00
83	2	10	23	4.0	72	27.2 A	10.2	73	9.4 D	14.3	83	6.8 E	27.8	10.2	-0.5 D	-2.2 D	0.00
83	2	10	24	3.9	68	27.8 A	10.1	70	9.5 D	13.8	81	7.9 D	27.5	9.9	-0.5 D	-2.2 D	0.00
83	2	27	24	1.1	160	20.4 B	2.3	317	24.6 A	5.3	123	2.4 F	28.9	17.9	2.2 F	11.5 G	0.00
83	2	28	1	1.3	130	11.0 D	2.2	27	14.4 C	5.5	130	6.2 E	27.9	18.4	2.7 F	11.2 G	0.00
83	2	28	2	1.3	110	22.7 A	2.8	15	8.2 D	2.9	115	12.1 D	27.2	19.4	2.5 F	10.6 G	0.00
83	2	28	3	1.6	148	16.5 C	1.4	345	43.2 A	3.4	117	9.2 D	26.6	19.3	2.4 F	9.2 F	0.00
83	2	28	4	1.0	141	10.0 D	1.8	23	20.2 B	2.8	89	6.6 E	26.5	20.0	2.0 F	8.6 F	0.00
83	2	28	5	1.3	141	10.7 D	2.2	46	16.0 C	3.9	88	7.6 D	27.3	20.2	1.6 F	7.1 F	0.00
83	2	28	6	1.4	109	13.7 C	2.5	44	12.5 C	4.9	92	5.6 E	27.5	20.1	1.6 F	6.3 F	0.00
83	2	28	7	1.6	111	16.0 C	1.4	54	40.6 A	5.1	108	5.8 E	28.2	20.9	1.2 F	5.7 F	0.00
83	2	28	8	1.2	103	5.8 E	0.7	71	24.6 A	4.5	140	6.3 E	28.8	20.9	0.8 E	5.2 F	0.00
83	2	28	9	0.9	155	54.4 A	1.5	59	46.3 A	3.2	115	13.7 C	31.9	22.5	-0.5 D	2.6 E	0.00
83	3	17	10	6.3	94	35.4 A	12.4	95	16.2 C	17.0	105	11.6 D	48.4	29.1	-2.0 A	-4.2 C	0.00
83	3	17	11	7.0	115	99.9 -	99.9	999	99.9 -	20.0	120	99.9 -	999.9	999.9	-2.0 A	-4.2 C	9.99
83	3	17	12	7.0	95	99.9 -	99.9	999	99.9 -	17.5	115	99.9 -	999.9	999.9	-2.4 A	-5.0 A	9.99
83	3	17	13	6.3	101	33.1 A	12.5	109	16.8 C	17.3	111	10.0 D	52.2	28.1	-2.2 A	-4.5 B	0.00
83	3	17	14	6.4	102	31.9 A	11.9	105	14.5 C	15.7	111	12.0 D	53.5	29.6	-1.4 A	-3.5 D	0.00
83	3	17	15	6.2	107	29.1 A	11.7	106	12.8 C	17.1	114	10.0 D	52.7	31.2	-1.2 A	-3.1 D	0.00
83	3	17	16	5.5	116	38.8 A	10.9	114	17.0 C	15.5	117	10.1 D	52.4	32.8	-1.2 A	-3.1 D	0.00
83	3	17	17	5.4	96	27.2 A	11.1	90	11.6 D	14.5	100	8.2 D	50.7	33.5	-1.0 C	-2.8 D	0.00
83	3	17	18	5.9	82	29.0 A	11.6	102	14.2 C	17.5	107	7.8 D	48.6	33.9	-0.7 D	-2.6 D	0.00
83	3	17	19	3.4	96	32.5 A	8.4	96	13.3 C	13.6	104	8.7 D	47.1	33.9	-0.5 D	-2.2 D	0.00
83	3	17	20	4.8	87	35.9 A	9.9	89	11.7 D	15.2	97	7.0 E	46.2	33.4	-0.5 D	-2.2 D	0.00
83	3	17	21	4.8	80	26.2 A	9.8	85	11.2 D	13.6	98	7.5 D	44.6	32.9	-0.5 D	-2.2 D	0.00
83	3	17	22	4.8	78	24.9 A	10.3	84	12.1 D	14.2	97	8.4 D	43.8	33.1	-0.5 D	-2.3 D	0.00

BEAVER VALLEY
JOINT FREQUENCY DISTRIBUTION TABLES
FOR
CONTINUOUS RELEASE

FOR
 $\Delta T(150-35FT)$ AND 35-FT WIND
AND
 $\Delta T(500FT-35FT)$ AND 500-FT WIND

(APRIL 1, 1983 - JUNE 30, 1985)

FRI, MAY 13 1983
TIME OF DAY: 09:50:10

PROGRAM JFD VERSION 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3 51- 7 50	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
7 51-12 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0 76- 3 50	0	0	0	0	2	3	0	1	0	0	0	0	0	0	0	0	6
3 51- 7 50	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	5
7 51-12 50	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	5
12 51-18 50	0	0	0	8	6	8	4	0	0	0	2	0	0	0	0	0	28
18 51-24 00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
>24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	10	9	14	6	1	0	2	2	0	0	0	0	0	45

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/83 - 3/31/83

*** FIRST QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 45

TOTAL NUMBER OF VALID OBSERVATIONS: 45

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 12.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.22	2.22	4.44	57.78	13.33	13.33	6.67

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
D	0	0	1	10	6	5	4	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	1	0	1	0	2	2	0	0	0	0	0	0
F	0	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	10	9	14	6	1	0	2	2	0	0	0	0	0	0

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	4	1	7	1	8	4	10	6	5	1	4	4	3	8	13	9	88
3.51- 7.50	25	9	2	3	5	1	2	10	8	15	10	24	39	47	13	16	229
7.51-12.50	0	0	0	0	1	0	0	0	4	2	16	11	5	13	8	0	60
12.51-18.50	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	5
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	29	10	9	4	14	5	12	16	17	29	33	39	47	68	34	25	382

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	4	0	2	0	2	2	0	0	0	0	0	1	2	1	4	2	20
3.51- 7.50	1	2	1	0	1	1	0	0	0	2	3	1	4	4	3	2	25
7.51-12.50	0	0	0	0	0	1	0	0	0	1	7	2	4	1	1	0	17
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
18.51-24.00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	2	3	0	3	4	0	0	0	3	12	4	10	6	8	4	64

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLRV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	2	2	0	3	1	1	0	1	2	0	3	5	1	3	2	0
3.51- 7.50	2	0	0	0	0	0	2	0	0	3	2	1	4	3	6	2	26
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0	25
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	2	2	0	3	1	3	0	1	5	3	5	11	5	10	4	57

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	22	19	17	24	19	11	7	7	4	4	8	11	16	15	20	13	217
3.51- 7.50	15	9	2	8	12	4	2	2	4	26	31	22	36	36	44	19	272
7.51-12.50	7	2	0	0	1	2	2	2	0	11	15	10	1	0	1	0	54
12.51-18.50	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	44	30	19	32	32	17	11	11	8	42	56	43	53	51	65	32	550

PROGRAM: JED VERSION: 5P

BEAVER VALLEY JED - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBP

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	7
0.76- 3.50	15	26	40	50	39	34	22	22	24	15	10	8	18	12	4	16	355
3.51- 7.50	2	0	4	7	8	1	3	0	10	25	8	4	9	6	3	1	91
7.51-12.50	1	0	0	0	0	0	0	0	0	5	3	1	0	0	0	0	10
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	18	26	44	57	47	35	25	22	34	45	21	13	27	18	7	17	463

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	14
0.76- 3.50	1	7	6	12	27	43	54	17	14	3	1	0	0	0	3	1	189
3.51- 7.50	0	0	0	0	0	0	0	0	1	4	2	0	0	0	0	0	7
7.51-12.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	7	6	12	27	43	54	17	15	8	3	0	0	0	3	1	211

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLRV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	9
0.76- 3.50	0	0	4	0	32	61	130	26	9	0	0	0	1	0	1	1	273
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	4	0	32	61	130	26	9	0	0	0	1	0	1	1	282

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	34
0.76- 3.50	46	55	78	95	130	156	224	78	57	25	23	27	45	37	48	44	1168
3.51- 7.50	45	20	9	18	26	7	9	12	23	75	56	52	92	96	69	40	649
7.51-12.50	8	2	0	0	2	3	2	2	4	20	42	25	12	15	11	0	148
12.51-18.50	0	0	0	0	0	0	0	0	0	3	7	0	0	0	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	99	77	87	113	158	166	235	92	84	123	128	104	149	148	128	84	2009

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2009

TOTAL NUMBER OF MISSING OBSERVATIONS: 175

PERCENT DATA RECOVERY FOR THIS PERIOD: 92.0 %

MEAN WIND SPEED FOR THIS PERIOD: 3.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
19.01	3.19	2.84	27.38	23.05	10.50	14.04

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	29	10	9	4	14	5	12	16	17	20	33	39	47	68	34	25	0
B	5	2	3	0	3	4	0	0	0	3	12	4	10	6	8	4	0
C	2	2	2	0	3	1	3	0	1	5	3	5	11	5	10	4	0
D	44	30	19	32	32	17	11	11	8	42	56	43	53	51	65	32	4
E	18	26	44	57	47	35	25	22	34	45	21	13	27	18	7	17	7
F	1	7	6	12	27	43	54	17	15	8	3	0	0	0	3	1	14
G	0	0	4	9	32	61	130	26	9	0	0	0	1	0	1	1	9
TOTAL	99	77	87	113	158	166	235	92	84	123	128	104	149	148	128	84	34

TIME OF DAY: 16:18:04

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	4
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	5

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	0	0	0	0	1	0	3	0	0	0	0	0	0	0	5
7.51-12.50	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	1	0	0	0	0	1	0	3	0	0	0	1	1	1	1	14

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLRV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH) CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.75- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	0	1	3	5	4	4	0	0	0	1	0	0	1	2	22
7.51-12.50	4	0	1	1	1	0	1	0	1	1	0	1	1	2	2	0	16
12.51-18.50	1	1	0	0	0	0	0	0	0	0	0	0	1	7	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
24.01- 24.00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
TOTAL	6	1	1	2	4	6	5	4	1	1	0	2	2	14	3	2	54

STABILITY CLASS D

STABILITY BASED ON: DELTA Y BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH) CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.75- 3.50	5	5	6	5	5	7	6	0	3	3	5	1	7	4	5	3	70
3.51- 7.50	8	2	6	6	13	11	9	12	6	5	2	10	14	10	12	15	141
7.51-12.50	24	11	2	12	5	12	17	12	13	20	30	21	39	67	49	28	362
12.51-18.50	7	6	5	4	7	7	21	7	8	18	55	32	43	57	33	8	318
18.51-24.00	6	2	0	0	0	6	6	2	3	7	18	6	15	5	7	1	84
24.01- 24.00	1	0	0	0	0	3	0	6	0	2	3	0	1	0	0	0	16
TOTAL	51	25	19	27	30	45	59	39	33	55	113	70	119	143	106	55	991

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLHV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH) CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.75- 3.50	3	2	4	7	12	20	5	3	2	6	5	12	9	6	4	1	101
3.51- 7.50	3	2	9	7	16	14	18	7	16	9	4	15	8	15	5	5	153
7.51-12.50	9	4	5	7	16	7	6	4	20	15	11	15	17	10	5	8	153
12.51-18.50	1	0	2	2	8	3	7	5	2	17	13	4	6	1	2	2	75
18.51-24.00	0	0	3	0	0	2	1	0	1	1	5	0	0	0	0	0	13
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	16	8	23	23	46	46	37	19	41	48	38	46	40	32	16	16	497

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH) CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.75- 3.50	2	0	2	7	7	5	5	6	9	5	18	10	11	2	4	4	97
3.51- 7.50	2	4	2	11	8	3	8	4	7	6	11	15	13	10	7	2	113
7.51-12.50	0	1	4	8	3	3	1	5	4	2	1	2	6	4	4	3	56
12.51-18.50	0	0	0	0	1	1	0	2	0	5	4	1	4	1	1	0	20
18.51-24.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	5	13	26	19	12	14	19	20	18	34	28	34	17	16	9	298

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	1	2	1	1	0	0	0	2	0	0	0	0	0	7
3.51- 7.50	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
7.51-12.50	0	0	2	2	0	0	0	1	0	0	0	0	0	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	2	4	3	2	1	1	0	0	2	0	0	0	0	0	15

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	12
0.76- 3.50	10	7	12	20	26	33	17	9	14	14	30	23	27	12	13	8	275
3.51- 7.50	14	9	17	26	41	35	40	27	32	29	17	41	35	35	25	24	436
7.51-12.50	43	16	19	30	19	23	27	22	38	38	42	39	63	83	61	40	603
12.51-18.50	9	7	7	6	16	11	28	14	10	40	72	37	55	67	36	10	425
18.51-24.00	6	2	3	0	0	8	7	4	4	8	23	6	15	10	7	1	104
>24.00	1	0	0	0	0	4	0	0	0	2	3	0	1	0	0	0	17
TOTAL	83	41	58	82	102	114	119	82	98	122	187	146	196	207	142	83	1874

PROGRAM: JFD VERSION: 5F

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 1874

TOTAL NUMBER OF MISSING OBSERVATIONS: 310

PERCENT DATA RECOVERY FOR THIS PERIOD: 85.8 %

MEAN WIND SPEED FOR THIS PERIOD: 9.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.27	0.75	2.88	52.88	26.52	15.90	0.80

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
B	5	1	0	0	0	0	1	0	3	0	0	0	1	1	1	1	0
C	6	1	1	2	4	6	5	4	1	1	0	2	2	14	3	2	0
D	51	26	19	27	30	46	59	39	33	55	113	70	119	143	106	55	0
E	16	8	23	23	46	46	37	19	41	48	38	46	40	32	16	16	2
F	4	5	13	26	19	12	14	19	20	18	34	28	34	17	16	9	10
G	0	0	2	4	3	2	1	1	0	0	2	0	0	0	0	0	0
TOTAL	83	41	58	82	102	114	119	82	98	122	187	146	196	207	142	83	12

BEAVER VALLEY

JOINT FREQUENCY DISTRIBUTION TABLES

FOR
BATCH RELEASES

SECOND QUARTER 1983

TIME OF DAY:

PROGRAM: JFO VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: DIAV?

DATA PERIOD EXAMINED: 4/ 1/85 - 6/30/85

*** SECOND QUARTER 1993 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND	AT WIND	AT:	0.75 MPH
WIND	THRESHOLD	AT:	0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

[illegible]

STABILITY CLASS B

STABILITY BASED ON: DELTA Y BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 15.0 FFFY

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

[illegible]

TIME OF DAY: 11:37:30

PROGRAM: JFD VERSION: 5F

BEAVER VALLEY JFD - GROUND LEVEL HATCH RELEASE

SITE IDENTIFIER: 0LBV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 30.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	2	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	6
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 30.00	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	0	2	2	0	0	0	0	0	0	0	0	1	0	0	1	6

TIME OF DAY: 11:37:30

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.51-30.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	0	0	0	0	7	3	1	1	0	0	0	0	0	0	0	4
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.51-30.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	7	3	1	1	0	0	0	0	0	0	0	16

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: DL5V2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

WED, AUG 10 1983

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TIME OF DAY: 11:37:30

*** SECOND QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0-7.5	0	0	0	0	2	4	1	1	1	6	0	0	0	0	0	0	1
7.5-12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.5-17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.5-22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.5-27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	2	4	1	1	1	0	0	0	0	0	0	0	10

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0-7.5	5	1	3	3	4	11	4	2	2	1	1	0	1	0	3	4	6
7.5-12.5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	45
12.5-17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17.5-22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.5-27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	1	3	3	4	11	4	2	3	2	1	0	1	0	3	4	53

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL HATCH RELEASE

SITE IDENTIFIER: DLRV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 53

TOTAL NUMBER OF VALID OBSERVATIONS: 53

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 1.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
22.64	1.89	5.66	11.32	9.43	30.19	18.87

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	1	1	0	2	0	0	0	1	1	1	0	0	0	3	1	0
B	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0
D	2	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0
E	1	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1
F	0	0	0	0	0	7	3	1	1	0	0	0	0	0	0	0	4
G	0	0	0	0	2	4	1	1	1	0	0	0	0	0	0	0	1
TOTAL	5	1	2	3	4	11	4	2	3	2	1	0	1	0	3	4	6

TIME OF DAY: 16:29:23

PROGRAM: JFD VERSION: 5P

HEAVER VALLEY JFD - ELEVATED BATCH RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 3.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH) CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 28.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 3.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH) CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 28.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2

TIME OF DAY: 16:29:23

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED HATCH RELEASE
SITE IDENTIFIER: DLBV?
DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3
7.51-12.50	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	0	1	2	0	4	3	0	2	1	3	1	6	2	3	3	31
3.51- 7.50	0	1	2	1	1	0	1	2	2	2	0	3	6	3	5	0	29
7.51-12.50	0	0	0	0	0	2	4	2	2	0	1	3	6	3	0	0	23
12.51-18.50	0	0	0	0	0	0	0	1	1	0	5	3	1	0	0	0	11
18.51-24.00	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	4
24.01- 29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	3	3	1	6	8	5	7	4	12	10	19	8	8	3	98

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE

SITE IDENTIFIER: DLHV2

DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	2	1	2	1	4	13	2	0	1	2	1	5	5	4	2	1	46
3.51- 7.50	0	1	2	0	2	0	4	1	0	1	0	4	2	2	1	1	21
7.51-12.50	0	0	0	1	3	0	2	2	5	2	0	2	0	2	0	0	19
12.51-18.50	0	0	0	0	1	1	3	1	1	1	1	0	1	0	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
>24.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	2	4	2	10	14	11	4	8	6	2	11	8	8	3	2	98

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
0.76- 3.50	1	0	0	1	1	1	0	0	6	1	6	6	2	0	2	1	28
3.51- 7.50	0	0	0	0	1	0	4	3	1	1	3	8	2	3	0	1	27
7.51-12.50	0	0	0	0	2	3	1	1	0	0	0	0	0	0	1	1	9
12.51-18.50	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	1	4	5	5	5	7	2	10	14	4	3	3	3	72

TIME OF DAY: 16:29:23

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 3.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0-7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.5-12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.5-17.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.5-22.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.5-27.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 3.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0-7.5	3	1	3	4	5	18	5	0	9	4	10	12	13	6	7	5	6
7.5-12.5	1	2	4	1	4	0	0	8	5	4	3	15	10	8	6	2	105
12.5-17.5	0	0	0	1	5	5	7	6	7	2	1	5	6	5	1	1	82
17.5-22.5	0	0	0	0	1	2	3	3	2	1	7	3	2	0	9	0	24
22.5-27.5	0	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	5
TOTAL	4	3	7	6	15	23	24	17	24	12	24	35	31	19	14	8	274

PROGRAM: JED VERSION: 5P

BEAVER VALLEY JED - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/83 - 6/30/83

*** SECOND QUARTER 1983 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 274

TOTAL NUMBER OF VALID OBSERVATIONS: 274

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 6.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	0.73	1.09	35.77	35.77	26.28	0.36

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
C	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
D	0	1	3	3	1	6	8	5	7	4	12	10	19	8	8	3	0
E	2	2	4	2	10	14	11	4	8	6	2	11	8	8	3	2	1
F	1	0	0	1	4	5	5	5	7	2	10	14	4	3	3	3	5
G	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
TOTAL	4	3	7	6	15	25	24	17	24	12	24	35	31	19	14	8	6

BEAVER VALLEY

LISTINGS OF METEOROLOGICAL DATA

FOR

PERIODS OF GASEOUS EFFLEUNT RELEASES

AT

THE 150-FT LEVEL

(GROUND-LEVEL)

TIME OF DAY: 16:52:55

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

150FT-LEVEL BATCH REVD

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB.	DEW	DELTA T	DELTA T	RAIN
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	TEMP	POINT			
				(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	35F	35F	(F)	(F)	(IN)
83	6	13	11	2.3	14	42.1 A	4.0	44	43.6 A	3.0	61	43.7 A	85.0	59.1	-1.4 A	-3.0 D	0.00
83	6	13	12	3.3	324	26.4 A	3.9	343	23.1 A	3.5	10	15.5 C	85.6	58.1	-1.5 A	-3.3 D	0.00
83	6	13	13	3.3	325	29.4 A	4.1	347	27.5 A	4.5	6	28.5 A	86.0	58.6	-1.3 A	-2.9 D	0.00
83	6	13	14	2.6	359	34.6 A	5.3	22	23.8 A	6.0	40	22.1 B	87.0	58.1	-1.6 A	-3.4 D	0.00
83	6	13	15	2.6	50	49.8 A	3.9	71	26.6 A	4.0	58	31.3 A	88.1	58.0	-1.5 A	-3.5 D	0.00
83	6	13	16	1.7	90	30.6 A	2.8	99	30.2 A	2.0	100	18.7 B	87.2	59.5	-1.3 A	-2.8 D	0.00
83	6	13	17	1.7	34	63.7 A	1.7	39	48.8 A	3.5	19	52.2 A	87.1	62.4	-1.0 C	-2.7 D	0.00
83	6	13	18	1.4	73	45.7 A	1.3	52	50.7 A	4.0	60	21.4 B	84.9	63.2	-0.3 E	-1.4 D	0.00
83	6	13	19	1.5	147	22.1 B	1.1	139	44.6 A	5.0	86	4.5 F	79.6	67.8	1.9 F	2.8 E	0.00
83	6	13	20	1.0	131	16.2 C	1.4	49	34.3 A	2.0	88	3.6 F	73.2	66.6	3.5 G	6.9 F	0.00
83	6	13	21	1.2	118	20.2 B	0.9	340	19.8 B	0.5	116	3.4 F	69.3	64.2	3.8 G	8.9 F	0.00
83	6	13	22	1.5	108	32.0 A	2.6	171	27.6 A	1.5	265	21.9 B	67.2	62.9	4.0 G	8.6 F	0.00
83	6	13	23	1.0	121	15.8 C	2.1	104	42.8 A	1.5	349	19.7 B	65.2	62.6	3.2 G	8.5 F	0.00
83	6	13	24	0.9	99	13.7 C	1.4	8	11.4 D	2.0	64	6.9 E	63.5	62.1	3.1 G	9.3 F	0.00
83	6	14	1	1.0	121	14.4 C	0.9	282	64.1 A	2.5	76	4.2 E	62.5	61.8	2.4 F	9.3 F	0.00
83	6	14	2	0.6	112	9.0 D	1.2	257	17.6 B	1.0	64	3.9 E	61.7	61.2	2.2 F	7.6 F	0.00
83	6	14	3	0.9	116	16.8 C	1.6	317	39.0 A	1.0	86	11.3 D	60.8	60.4	2.3 F	6.6 F	0.00
83	6	14	4	1.8	144	18.8 B	3.6	221	13.4 C	4.0	262	13.6 C	60.5	60.1	2.2 F	4.7 F	0.00
83	6	14	5	1.3	125	34.7 A	2.1	126	35.0 A	2.5	332	14.5 C	60.0	59.6	2.3 F	5.5 F	0.00
83	6	14	6	1.0	122	15.0 C	2.2	253	45.6 A	0.5	269	18.8 B	60.2	59.7	2.1 F	5.0 F	0.00
83	6	14	7	1.1	46	34.1 A	1.2	331	41.9 A	2.5	68	6.8 E	64.0	61.8	-0.6 D	1.8 E	0.00
83	6	14	8	1.5	349	49.2 A	1.7	21	27.3 A	1.5	100	6.8 E	68.5	62.8	-0.6 D	0.2 E	0.00
83	6	14	9	2.6	352	19.0 B	2.7	13	12.0 D	1.5	108	7.5 D	74.3	62.9	-1.1 F	-0.4 E	0.00
83	6	14	10	3.0	340	11.7 D	2.3	9	15.7 C	1.5	90	8.9 D	80.3	63.7	-1.0 C	-0.3 E	0.00
83	6	14	11	3.0	338	38.9 A	3.2	351	30.5 A	2.5	138	50.9 A	85.7	58.8	-1.3 A	-2.3 D	0.00
83	6	14	12	3.5	320	99.9 -	99.9 -	99.9 -	99.9 -	2.5	99.9 -	99.9 -	999.9	999.9	-2.1 A	999.9 -	9.99
83	6	14	13	3.6	174	64.7 A	4.8	150	45.8 A	4.8	156	49.4 A	89.3	57.5	-2.3 A	-4.3 C	0.00
83	6	14	14	3.6	201	42.4 A	4.4	174	31.1 A	4.5	164	28.9 A	89.7	56.9	-2.2 A	-4.1 C	0.00
83	6	14	15	2.5	96	52.8 A	5.0	147	24.8 A	4.5	150	18.8 B	88.2	58.9	-1.8 A	-3.4 D	0.00
83	6	14	22	1.3	8	65.4 A	3.0	314	50.4 A	8.5	167	23.9 A	74.0	63.8	0.7 E	-0.4 E	0.00
83	6	14	23	1.4	171	65.5 A	2.5	253	48.2 A	5.0	187	15.9 C	70.4	64.1	2.9 G	2.4 E	0.00
83	6	14	24	0.7	101	41.5 A	2.3	31	8.4 D	2.0	187	30.2 A	67.1	63.9	3.2 G	4.6 F	0.00
83	6	15	5	0.5	115	99.9 -	99.9 -	99.9 -	99.9 -	3.0	175	99.9 -	999.9	999.9	2.2 F	5.9 F	9.99
83	6	15	6	0.5	120	99.9 -	99.9 -	99.9 -	99.9 -	3.0	185	99.9 -	999.9	999.9	1.2 F	4.2 F	9.99
83	6	15	7	1.0	60	99.9 -	99.9 -	99.9 -	99.9 -	1.0	160	99.9 -	999.9	999.9	-0.3 E	2.8 E	9.99
83	6	15	8	1.5	363	99.9 -	99.9 -	99.9 -	99.9 -	3.5	195	99.9 -	999.9	999.9	-0.4 D	-0.6 E	9.99
83	6	15	9	3.5	5	99.9 -	99.9 -	99.9 -	99.9 -	2.0	140	99.9 -	999.9	999.9	-0.6 D	-1.0 E	9.99
83	6	15	10	3.5	330	99.9 -	99.9 -	99.9 -	99.9 -	2.0	350	99.9 -	999.9	999.9	-1.0 C	-1.7 D	9.99
83	6	15	11	3.5	215	99.9 -	99.9 -	99.9 -	99.9 -	4.0	170	99.9 -	999.9	999.9	-1.7 A	-3.3 D	9.99
83	6	15	19	2.7	205	35.8 A	4.2	202	16.3 C	5.5	243	10.9 D	75.0	62.9	-0.1 E	1.0 E	0.00
83	6	15	20	1.9	184	22.9 A	3.1	238	14.1 C	4.5	190	15.7 C	71.9	63.2	1.5 F	2.4 E	0.00
83	6	15	21	2.3	168	35.8 A	4.0	213	17.0 C	3.5	222	12.3 D	68.2	62.3	2.6 G	5.4 F	0.00
83	6	15	22	2.3	115	50.9 A	3.9	268	24.9 A	5.5	259	30.3 A	66.7	61.0	2.0 F	4.4 F	0.00
83	6	15	23	1.8	123	38.9 A	2.5	168	19.4 B	6.5	253	11.5 D	65.3	60.7	3.7 G	3.6 E	0.00
83	6	15	24	1.0	37	44.9 A	2.3	65	40.7 A	3.5	263	13.5 C	63.0	60.4	3.4 G	6.8 F	0.00
83	6	16	1	1.1	107	14.6 C	3.5	45	11.4 D	2.5	165	25.2 A	62.6	61.0	2.0 F	5.9 F	0.00
83	6	16	2	1.3	127	22.5 A	2.1	53	31.6 A	3.0	164	10.3 D	62.0	60.8	2.1 F	4.3 F	0.00
83	6	16	3	1.1	116	23.7 A	2.9	23	6.9 E	2.5	150	18.6 B	61.7	60.8	2.3 F	4.1 F	0.00

TIME OF DAY: 16:52:55

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

150FT-LEVEL BATCH REVD

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	35 FT			150 FT			500 FT			AMB. TEMP 35F	DEW POINT 35F	DELTA T 150-35	DELTA T 500-35	RAIN FALL
				WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)					
83	6	16	4	1.0	122	19.9 B	2.0	17	5.1 E	4.0	169	12.5 C	60.8	60.3	2.3 F	4.9 F	0.00
83	6	16	5	0.7	117	8.8 D	1.5	15	4.0 E	3.5	194	9.0 D	60.4	60.0	2.2 F	4.6 F	0.00
83	6	16	6	0.7	148	30.4 A	1.5	7	11.3 D	4.0	198	11.2 D	61.6	60.9	0.9 E	3.4 E	0.00
83	6	16	7	1.0	73	45.6 A	1.0	246	33.6 A	4.5	204	5.9 E	65.6	62.0	-0.7 D	0.6 E	0.00
83	6	16	8	1.7	280	35.4 A	1.7	255	33.7 A	6.0	203	5.9 E	70.7	62.1	-0.9 D	-1.5 D	0.00

BEAVER VALLEY

LISTINGS OF METEOROLOGICAL DATA

FOR

PERIODS OF GASEOUS EFFLUENT RELEASES

AT

THE 500-FT LEVEL

(ELEVATED)

TIME OF DAY: 16:37:58

LISTING FOR PEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

-----35 FT-----150 FT-----500 FT-----

				WIND	WIND	STD		WIND	WIND	STD		WIND	WIND	STD		AMB.	DEW					
				SPEED	DIR	DEV		SPEED	DIR	DEV		SPEED	DIR	DEV		TEMP	POINT	DELTA T	DELTA T		RAIN	
YR	MO	DAY	HR	(MPH)	(DEG)	(DEG)	SC	(MPH)	(DEG)	(DEG)	SC	(MPH)	(DEG)	(DEG)	SC	(F)	(F)	(F)	(F)	(F)	(IN)	
83	4	12	20	1.1	121	27.2	A	2.2	31	22.9	A	9.3	79	2.4	F	44.6	35.4	3.2	G	4.8	F	0.00
83	4	12	21	1.4	126	14.4	C	2.8	19	17.0	C	8.9	101	4.3	E	41.0	35.1	4.2	G	6.7	F	0.00
83	4	12	22	1.4	122	31.5	A	4.1	35	8.2	D	7.7	112	2.6	F	38.9	34.4	4.0	G	7.9	F	0.00
83	4	12	23	1.7	110	16.3	C	4.1	33	7.8	D	9.4	103	2.7	F	37.3	34.0	4.2	G	8.2	F	0.00
83	4	12	24	1.8	75	14.8	C	4.6	71	10.4	D	11.9	102	3.1	F	37.8	33.6	4.4	G	6.4	F	0.00
83	4	13	1	2.0	84	21.5	B	6.0	88	7.3	E	14.3	107	2.2	F	39.0	32.5	3.9	G	4.1	F	0.00
83	4	13	2	2.1	81	23.1	A	7.5	83	7.2	E	14.5	102	2.3	F	39.9	32.0	2.4	F	2.1	E	0.00
83	4	13	3	2.2	72	25.3	A	7.5	73	8.1	D	12.3	98	3.6	F	39.3	31.9	2.0	F	1.2	E	0.00
83	4	13	4	2.4	56	15.1	C	8.0	65	7.3	E	13.2	97	2.9	F	39.4	31.9	1.4	F	0.6	E	0.00
83	4	13	5	2.8	49	25.0	A	7.2	63	12.8	C	11.9	92	6.9	E	40.0	31.5	0.4	E	-0.9	E	0.00
83	4	13	6	2.6	52	20.8	B	9.1	67	10.7	D	11.7	98	5.7	E	40.1	31.1	0.1	E	-1.2	E	0.00
83	4	30	12	11.2	220	19.2	B	14.7	223	15.1	C	21.3	227	11.1	D	70.3	53.4	-0.6	D	-2.3	D	0.00
83	4	30	13	10.9	222	19.4	B	14.7	226	16.6	C	21.2	222	12.9	C	71.5	51.9	-0.6	D	-2.3	D	0.00
83	4	30	14	10.6	213	18.6	B	14.5	217	15.3	C	21.0	217	11.6	D	71.2	52.2	-0.6	D	-2.4	D	0.00
83	4	30	15	7.6	193	17.4	C	12.0	193	11.8	D	20.4	199	6.7	E	67.4	55.1	-0.3	E	-2.2	D	0.00
83	4	30	16	6.1	232	25.6	A	10.9	236	16.5	C	18.1	232	14.3	C	67.9	54.3	-0.4	D	-1.4	D	0.00
83	4	30	17	1.5	232	27.1	A	3.2	255	21.8	B	5.3	246	20.9	B	65.1	57.5	-0.8	D	-2.0	D	0.00
83	4	30	18	1.1	230	51.7	A	1.1	154	48.0	A	8.8	213	7.7	D	64.9	58.0	0.4	E	1.3	E	0.00
83	4	30	19	3.1	264	41.3	A	7.5	264	17.6	B	14.9	261	9.3	D	63.2	58.7	0.7	E	0.5	E	0.12
83	4	30	20	3.6	194	28.0	A	6.8	218	21.5	B	12.2	241	10.7	D	60.2	59.3	-0.2	E	-0.3	E	0.20
83	4	30	21	1.1	53	52.2	A	1.7	182	52.0	A	8.9	191	8.5	D	59.8	59.4	0.2	E	1.1	E	0.00
83	4	30	22	2.9	258	54.4	A	6.0	289	19.7	B	12.4	285	12.7	C	59.6	999.9	0.2	E	0.5	E	0.04
83	4	30	23	2.5	259	41.0	A	4.5	258	20.6	B	7.3	295	8.7	D	58.4	57.0	-0.4	D	-0.6	E	0.03
83	4	30	24	1.6	173	48.2	A	2.4	190	23.7	A	2.7	199	43.4	A	57.5	57.1	-0.2	E	0.0	E	0.00
83	5	1	1	1.7	56	45.3	A	1.6	346	51.7	A	2.2	310	60.5	A	57.2	56.9	-0.1	E	0.1	E	0.00
83	5	1	13	3.7	171	20.8	B	7.1	180	10.6	D	12.1	188	5.9	E	63.0	60.1	-1.2	A	-1.5	D	0.13
83	5	1	14	2.6	125	35.2	A	5.5	144	18.6	B	11.7	158	8.3	D	62.0	60.4	-0.9	D	-1.5	D	0.03
83	5	1	15	3.7	135	45.4	A	6.9	145	24.9	A	14.9	157	11.6	D	62.6	60.3	-0.6	D	-1.4	D	0.00
83	5	1	16	2.7	177	28.6	A	5.1	179	18.3	B	10.9	185	8.3	D	63.0	60.7	-0.4	D	-1.0	E	0.01
83	5	1	17	2.5	169	31.3	A	4.9	174	20.6	B	10.5	185	7.7	D	63.6	60.5	-0.1	E	-1.1	E	0.00
83	5	1	18	4.3	189	19.7	B	7.5	188	14.1	C	12.5	190	7.5	D	64.9	60.4	-0.6	D	-1.4	D	0.00
83	5	1	19	3.9	180	30.6	A	8.2	172	11.7	D	15.6	178	4.7	E	65.2	59.8	-0.5	D	-1.3	D	0.00
83	5	1	20	2.0	106	43.9	A	4.3	135	17.1	C	13.4	157	4.0	E	64.2	59.9	0.1	E	-0.6	E	0.00
83	5	1	21	2.7	60	26.7	A	5.1	97	16.3	C	14.3	135	4.0	E	63.5	59.9	0.1	E	-0.7	E	0.00
83	5	1	22	2.9	43	25.5	A	4.9	84	17.7	B	13.5	133	6.0	E	63.3	59.6	-0.1	E	-1.2	E	0.00
83	5	1	23	3.1	51	31.4	A	4.9	97	17.5	B	16.1	132	5.7	E	63.2	58.6	0.0	E	-0.8	E	0.00
83	5	1	24	1.9	42	68.7	A	2.6	88	50.7	A	11.7	152	10.8	D	63.3	58.2	0.3	E	-0.4	E	0.00
83	5	2	1	2.3	55	48.4	A	2.8	181	44.6	A	10.3	176	8.9	D	62.5	58.1	1.6	F	0.8	E	0.01
83	5	2	2	2.6	61	61.8	A	3.7	215	31.9	A	10.3	212	18.2	B	60.1	58.9	1.5	F	3.4	E	0.06
83	5	2	3	3.6	133	31.8	A	5.5	125	27.8	A	12.6	182	13.2	C	60.4	59.1	0.3	E	1.9	E	0.05
83	5	2	4	4.4	183	28.3	A	7.8	194	16.0	C	18.3	197	8.1	D	60.7	58.9	0.1	E	0.1	E	0.08
83	5	2	5	6.2	190	25.6	A	10.4	192	12.3	D	19.3	191	8.4	D	60.7	58.6	0.1	E	-0.1	E	0.00
83	6	1	19	2.4	236	22.3	B	4.6	253	17.2	C	5.7	267	12.5	C	59.0	49.8	-0.7	D	-2.0	D	0.00
83	6	1	20	1.2	175	41.3	A	2.1	220	19.2	B	5.9	292	6.9	E	55.9	50.4	1.1	F	1.1	E	0.00
83	6	1	21	1.6	119	24.7	A	3.0	210	16.1	C	8.5	337	4.7	E	50.6	49.4	2.6	G	4.9	F	0.00
83	6	1	22	1.5	140	22.6	A	2.8	218	12.9	C	7.0	333	3.4	F	48.1	47.4	3.3	G	5.6	F	0.00
83	6	1	23	2.1	146	21.4	B	4.1	218	8.8	D	5.3	294	6.7	E	46.2	45.6	3.1	G	5.1	F	0.00
83	6	1	24	2.0	134	13.9	C	4.0	216	9.2	D	4.9	284	4.4	E	44.6	44.0	3.4	G	5.2	F	0.00

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

530FT-LEVEL BATCH REV9

-----35 FT-----150 FT-----500 FT-----

				WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB.	DEW			RAIN
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	TEMP	POINT	DELTA T	DELTA T	FALL
YR	MO	DAY	HR	(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(F)	(F)	150-35	500-35	(IN)
83	6	2	1	1.4	127	23.8 A	1.9	207	14.1 C	3.2	265	12.1 D	44.3	43.8	1.4 F	3.1 E	0.00
83	6	2	2	2.0	130	23.1 A	3.0	210	11.4 D	3.3	239	10.4 D	43.9	43.5	0.8 E	2.3 E	0.00
83	6	2	3	1.4	146	25.4 A	1.9	186	14.7 C	3.1	244	10.1 D	43.3	43.0	0.7 E	0.5 E	0.00
83	6	2	4	1.3	164	20.1 B	1.5	83	37.8 A	0.6	126	23.7 A	42.6	42.6	0.8 E	0.2 E	0.00
83	6	2	5	1.8	177	14.4 C	1.9	173	23.3 A	1.8	310	20.2 B	42.2	42.4	0.5 E	0.6 E	0.00
83	6	2	6	1.7	115	21.9 B	1.8	100	20.0 B	2.2	239	23.4 A	42.9	42.9	0.2 E	-0.2 E	0.00
83	6	2	7	1.3	296	71.1 A	1.1	130	28.2 A	0.8	177	25.2 A	44.2	44.2	0.1 E	0.7 E	0.00
83	6	2	8	1.5	14	35.1 A	1.7	353	33.4 A	1.6	94	17.4 C	46.3	46.1	-0.3 E	2.6 E	0.00
83	6	2	9	2.4	345	28.0 A	2.2	12	24.0 A	0.8	63	12.8 C	53.8	46.0	-2.5 A	-0.1 E	0.00
83	6	2	10	2.4	302	36.2 A	3.5	293	37.2 A	2.3	113	43.8 A	60.3	44.6	-1.2 A	-2.3 D	0.00
83	6	2	11	2.7	245	60.7 A	4.2	182	53.8 A	3.7	163	56.5 A	64.0	40.4	-1.5 A	-3.4 D	0.00
83	6	2	12	3.5	300	51.4 A	4.6	302	35.0 A	4.0	304	37.9 A	66.0	41.8	-1.7 A	-3.8 D	0.00
83	6	2	13	5.4	238	45.8 A	6.8	239	38.7 A	7.7	240	27.3 A	67.8	39.4	-1.7 A	-3.8 D	0.00
83	6	2	14	4.4	327	35.8 A	6.4	306	18.5 B	7.6	285	12.5 C	67.8	42.3	-1.5 A	-3.3 D	0.00
83	6	2	15	4.4	282	31.4 A	6.8	275	22.3 B	8.7	269	16.4 C	68.8	42.4	-1.4 A	-3.3 D	0.00
83	6	2	16	4.7	296	32.9 A	7.8	294	14.3 C	9.3	282	11.5 D	69.1	42.9	-1.4 A	-3.2 D	0.00
83	6	2	17	3.6	307	36.1 A	6.8	295	14.0 C	8.7	290	8.2 D	68.3	43.1	-0.9 D	-2.6 D	0.00
83	6	2	18	2.6	303	25.1 A	4.0	308	16.3 C	7.0	304	5.8 E	67.2	44.9	-0.7 D	-2.2 D	0.00
83	6	2	19	1.0	183	43.8 A	2.1	204	18.2 B	2.7	264	23.7 A	65.5	49.1	0.1 E	-1.1 E	0.00
83	6	2	20	1.6	141	31.9 A	2.6	167	19.4 B	2.3	244	23.7 A	59.0	51.0	3.1 G	4.2 F	0.00
83	6	2	21	1.2	134	17.1 C	1.7	17	13.8 C	3.5	253	18.6 B	54.4	49.7	2.9 G	7.4 F	0.00
83	6	2	22	1.2	133	15.8 C	1.2	116	26.0 A	1.6	240	22.0 B	52.4	49.5	3.4 G	9.1 F	0.00
83	6	2	23	1.2	134	26.0 A	2.1	16	28.6 A	0.9	230	28.9 A	50.1	48.5	3.1 G	8.9 F	0.00
83	6	2	24	1.3	135	16.2 C	1.8	14	24.6 A	1.4	237	37.8 A	48.1	47.4	3.2 G	9.9 F	0.00
83	6	3	1	1.1	121	18.5 B	2.0	34	9.0 D	1.1	281	40.3 A	47.3	46.8	2.5 F	7.6 F	0.00
83	6	3	2	1.1	124	14.1 C	2.5	25	8.3 D	0.6	352	37.1 A	46.4	46.1	2.3 F	6.7 F	0.00
83	6	3	3	0.8	120	8.0 D	1.8	36	6.8 E	0.7	222	24.4 A	45.9	45.8	2.3 F	6.2 F	0.00
83	6	3	4	1.1	112	19.3 B	2.3	57	11.5 D	1.8	108	11.7 D	46.5	46.3	1.3 F	5.7 F	0.00
83	6	3	5	1.2	94	11.7 D	2.6	52	7.8 D	1.1	86	17.5 B	47.1	47.1	1.1 F	4.2 F	0.00
83	6	3	6	0.8	72	20.8 B	2.4	49	12.3 D	4.2	127	5.7 E	49.5	48.7	-0.2 E	2.7 E	0.00
83	6	3	7	2.1	15	30.9 A	3.1	40	14.5 C	4.5	124	6.2 E	52.6	49.5	-0.5 D	0.5 E	0.00
83	6	3	8	1.7	30	40.6 A	2.5	60	22.4 B	4.9	140	5.1 E	55.6	50.5	-0.7 D	1.0 E	0.00
83	6	3	9	4.2	5	25.4 A	6.0	53	18.6 B	9.2	133	21.4 B	60.4	51.6	-0.3 E	-1.0 E	0.00
83	6	3	10	2.1	30	36.1 A	3.5	84	19.4 B	8.0	122	8.5 D	63.1	52.4	0.1 E	-1.3 D	0.00
83	6	3	11	1.9	67	43.7 A	4.6	123	18.8 B	10.1	136	6.1 E	64.5	51.7	-0.5 D	-2.0 D	0.00
83	6	3	12	1.6	98	27.7 A	3.7	136	15.3 C	8.8	150	6.2 E	64.3	52.7	-0.3 E	-1.8 D	0.00
83	6	3	13	1.7	141	40.6 A	3.8	167	18.1 B	9.9	170	6.9 E	61.1	56.6	0.1 E	-1.2 E	0.00
83	6	3	14	2.2	95	41.7 A	4.9	120	25.2 A	11.9	138	7.8 D	60.2	56.3	-0.6 D	-2.3 D	0.00
83	6	3	15	2.7	101	55.5 A	5.3	125	22.4 B	11.5	140	12.2 D	59.2	56.4	-0.7 D	-2.4 D	0.01
83	6	3	16	2.8	53	57.7 A	4.9	128	46.3 A	12.5	137	8.6 D	59.2	56.5	-0.6 D	-2.2 D	0.00
83	6	5	7	1.8	199	32.7 A	2.9	229	22.0 B	6.1	238	12.8 C	54.6	54.6	-0.2 E	2.8 E	0.00
83	6	5	8	2.2	224	30.9 A	2.4	228	26.5 A	5.9	258	12.2 D	58.4	56.1	-1.4 A	1.1 E	0.00
83	6	5	9	4.3	280	40.8 A	7.1	253	25.6 A	11.8	271	9.3 D	68.0	53.8	-1.7 A	-2.3 D	0.00
83	6	5	10	5.7	253	28.4 A	8.0	257	18.6 B	10.9	250	17.5 B	73.5	52.5	-1.6 A	-3.5 D	0.00
83	6	5	11	6.8	258	23.8 A	10.7	267	15.3 C	13.0	265	12.9 C	75.8	51.7	-1.5 A	-3.3 D	0.00
83	6	5	12	8.3	241	24.3 A	12.6	263	19.1 B	14.7	258	18.4 B	77.3	51.5	-1.7 A	-3.4 D	0.00
83	6	5	13	8.4	243	23.1 A	12.9	248	17.1 C	16.3	248	15.2 C	78.3	51.1	-1.5 A	-3.2 D	0.00
83	6	5	14	9.0	248	17.7 B	13.2	257	12.6 C	15.9	249	13.2 C	79.1	50.9	-1.5 A	-3.3 D	0.00

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

-----35 FT----- -----150 FT----- -----500 FT-----

												AMB.	W				
				WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	TEMP	POINT	DELTA T	DELTA T	RAIN
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	35F	35F	150-35	500-35	FALL
				(MPH)	(DEG)	(SC)	(MPH)	(DEG)	(SC)	(MPH)	(DEG)	(SC)	(F)	(F)	(F)	(F)	(IN)
YR	MO	DAY	HR														
83	6	5	15	8.4	229	19.4 B	11.5	236	18.1 B	14.9	235	12.8 C	79.8	50.8	-1.3 A	-3.2 D	0.00
83	6	5	16	8.5	220	15.1 C	11.4	228	15.7 C	14.4	222	11.4 D	80.1	50.5	-1.1 B	-3.0 D	0.00
83	6	5	17	6.4	212	18.8 B	8.8	218	14.1 C	13.4	217	8.7 D	79.0	51.5	-0.8 D	-2.5 D	0.00
83	6	5	18	6.5	215	18.4 B	9.0	222	13.8 C	14.1	221	8.6 D	79.2	51.6	-0.9 D	-2.5 D	0.00
83	6	5	19	4.1	188	13.9 C	7.7	215	7.8 D	14.8	222	3.1 F	74.8	54.2	1.7 F	0.9 E	0.00
83	6	5	20	1.7	171	11.2 D	7.8	205	5.0 E	15.8	217	3.5 F	68.5	55.9	5.8 G	6.2 F	0.00
83	6	9	19	0.9	77	28.1 A	5.4	118	16.3 C	7.6	139	2.3 F	74.1	51.5	1.8 F	1.6 E	0.00
83	6	9	20	0.7	142	22.8 A	1.9	21	10.4 D	9.4	146	1.4 G	65.9	54.2	2.5 F	8.7 F	0.00
83	6	9	21	0.8	117	19.9 B	2.6	49	8.8 D	10.5	148	5.0 E	61.0	53.2	3.6 G	11.0 G	0.00
83	6	9	22	1.2	99	44.6 A	2.7	64	20.7 B	13.6	151	6.7 E	59.5	53.0	5.7 G	8.7 F	0.00
83	6	9	23	1.0	128	30.6 A	2.4	57	22.8 A	7.0	148	18.1 B	57.8	53.4	4.1 G	7.8 F	0.00
83	6	9	24	1.0	91	29.0 A	1.8	49	23.3 A	5.2	144	12.0 D	56.3	53.5	3.6 G	7.4 F	0.00
83	6	10	1	0.7	123	19.7 B	1.5	43	14.3 C	4.8	142	8.2 D	54.9	53.5	3.0 G	7.5 F	0.00
83	6	10	2	0.6	110	6.4 E	2.1	43	13.0 C	4.2	135	8.7 D	53.8	53.0	3.6 G	7.2 F	0.00
83	6	10	3	1.1	121	24.2 A	3.1	64	11.5 D	4.7	166	7.6 D	52.5	52.1	3.2 G	7.1 F	0.00
83	6	10	4	1.0	110	18.8 B	3.0	47	10.2 D	4.9	181	7.3 E	51.8	51.6	3.3 G	7.6 F	0.00
83	6	10	5	0.8	105	14.4 C	2.8	50	12.7 C	4.9	213	11.4 D	51.3	51.1	2.8 G	7.6 F	0.00
83	6	10	6	0.9	90	21.2 B	1.9	49	15.1 C	6.2	221	11.5 D	52.8	52.4	1.7 F	6.9 F	0.00
83	6	10	7	0.6	32	43.3 A	1.2	65	17.8 B	5.8	215	16.1 C	56.2	54.3	0.3 E	4.6 F	0.00
83	6	10	8	2.0	221	46.1 A	2.7	235	47.8 A	8.4	243	15.3 C	64.8	55.5	-0.3 E	-0.6 E	0.00
83	6	10	9	4.5	251	20.6 B	5.9	254	16.9 C	8.1	235	17.3 C	71.1	55.2	-1.3 A	-2.9 D	0.00
83	6	10	18	5.1	253	18.4 B	8.2	257	11.9 D	10.3	252	13.0 C	81.5	50.7	-0.9 D	-2.5 D	0.00
83	6	10	19	2.5	190	24.4 A	4.1	221	16.5 C	6.5	254	13.7 C	76.7	55.5	0.7 E	0.5 E	0.00
83	6	10	20	1.8	158	32.7 A	3.8	196	20.4 B	4.5	255	22.4 B	72.1	56.6	3.0 G	3.3 E	0.00
83	6	10	21	1.3	129	33.4 A	2.2	217	31.3 A	2.5	266	27.4 A	68.1	57.0	3.0 G	6.0 F	0.00
83	6	10	22	1.9	140	15.9 C	4.6	187	9.9 D	2.0	231	13.5 C	64.6	56.6	3.0 G	8.5 F	0.00
83	6	10	23	1.6	138	17.3 C	2.8	206	13.3 C	4.0	231	6.1 E	61.3	56.2	4.0 G	9.3 F	0.00
83	6	10	24	1.1	125	17.0 C	1.8	208	18.1 B	3.5	258	9.1 D	58.9	56.1	3.4 G	8.5 F	0.00
83	6	11	1	1.3	136	33.0 A	2.2	198	34.7 A	3.5	249	9.1 D	58.1	55.9	2.7 G	8.8 F	0.00
83	6	11	2	1.0	128	17.8 B	1.0	17	27.4 A	3.0	235	5.1 E	56.5	55.6	2.6 G	8.0 F	0.00
83	6	11	3	1.4	146	12.9 C	2.3	213	9.2 D	3.5	236	4.2 E	55.6	54.8	3.4 G	8.3 F	0.00
83	6	11	4	1.5	131	28.9 A	2.1	220	14.0 C	3.0	234	7.3 E	55.4	54.3	2.7	6.9 F	0.00
83	6	11	8	1.7	351	37.9 A	1.0	353	45.9 A	3.0	224	6.2 E	64.5	58.1	-0.7 D	1.8 E	0.00
83	6	11	9	2.2	300	32.4 A	1.8	294	28.1 A	2.0	229	12.3 D	72.1	58.2	-0.9 D	-1.3 D	0.00
83	6	11	10	2.7	276	26.0 A	2.8	265	21.2 B	3.5	263	10.3 D	77.4	57.1	-0.9 D	-2.6 D	0.00
83	6	11	11	3.6	263	42.2 A	4.5	278	23.3 A	5.0	275	15.9 C	81.1	56.1	-1.5 A	-3.1 D	0.00
83	6	11	12	4.1	302	44.0 A	5.0	298	31.6 A	4.5	296	28.7 A	83.6	56.8	-1.9 A	-3.8 D	0.00
83	6	11	14	2.8	246	45.3 A	3.6	248	33.3 A	4.1	263	42.6 A	84.3	55.8	-1.5 A	-3.0 D	0.00
83	6	11	15	3.9	319	37.7 A	4.6	325	26.1 A	5.3	314	30.3 A	85.6	55.0	-1.4 A	-3.4 D	0.00
83	6	11	16	5.0	273	23.9 A	6.6	274	13.6 C	7.6	270	11.7 D	86.1	54.9	-1.7 A	-3.5 D	0.00
83	6	11	17	3.3	272	21.0 B	5.3	282	21.2 B	6.1	275	24.0 A	85.6	55.7	-1.4 A	-3.1 D	0.00
83	6	11	18	2.3	38	55.5 A	3.8	85	24.0 A	4.4	99	20.4 B	83.1	59.8	-1.3 A	-2.0 D	0.00
83	6	11	19	2.2	64	42.5 A	2.5	72	37.0 A	3.4	114	37.2 A	78.9	61.1	-0.5 D	0.1 E	0.00
83	6	12	12	2.5	293	30.9 A	2.6	292	35.5 A	2.0	296	27.3 A	84.0	57.4	-1.1 B	-2.7 D	0.00
83	6	12	13	2.3	335	29.6 A	3.6	334	24.4 A	3.5	331	13.2 C	84.8	57.2	-1.3 A	-2.8 D	0.00
83	6	12	16	1.7	203	35.2 A	2.3	191	23.3 A	2.0	184	21.2 B	85.7	58.6	-1.4 A	-2.9 D	0.00
83	6	12	17	2.4	287	23.0 A	2.7	242	25.5 A	2.0	203	12.3 D	84.7	62.6	-0.7 D	-1.8 D	0.00
83	6	12	18	1.7	253	34.5 A	2.2	237	14.5 C	2.5	272	13.8 C	83.1	64.3	-0.7 D	-0.7 E	0.00

TIME OF DAY: 16:37:58

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

-----35 FT-----150 FT-----500 FT-----

				WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB.	DEW			RAIN			
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	TEMP	POINT	DELTA T	DELTA T	FALL			
YR	MO	DAY	HR	(MPH)	(DEG)	SC(DEG)	SC	(MPH)	(DEG)	SC	(DEG)	SC	(F)	35F	150-35	500-35	(IN)			
				(MPH)	(DEG)	SC(DEG)	SC	(MPH)	(DEG)	SC	(DEG)	SC	(F)	35F	(F)	SC (F)	SC (IN)			
83	6	12	19	1.7	181	30.0	A	2.8	203	13.7	C	1.0	286	78.3	67.5	0.7	E	2.9	E	0.00
83	6	12	20	1.2	142	16.6	C	1.6	146	31.7	A	0.5	248	72.4	66.4	2.7	G	6.9	F	0.00
83	6	12	21	1.4	112	12.8	C	1.7	153	27.4	A	1.0	236	68.7	64.1	3.4	G	8.5	F	0.00
83	6	12	22	0.9	115	32.9	A	1.4	37	35.7	A	0.5	286	66.4	63.3	2.5	F	9.6	F	0.00
83	6	12	23	1.4	121	33.9	A	1.7	212	19.5	B	1.0	255	65.0	62.4	2.5	F	6.2	F	0.00
83	6	12	24	1.2	137	25.5	A	2.1	210	11.2	D	2.0	316	63.5	62.1	2.6	G	6.2	F	0.00
83	6	13	1	1.3	101	22.9	A	3.1	209	9.7	D	2.0	61	62.6	61.5	2.4	F	8.0	F	0.00
83	6	13	2	0.8	106	20.1	B	0.9	285	15.8	C	4.5	81	61.4	60.9	1.9	F	9.5	F	0.00
83	6	13	8	1.7	247	22.5	A	1.7	241	17.5	B	1.0	38	68.1	62.5	-0.8	D	1.4	E	0.00
83	6	13	9	2.0	327	18.8	B	2.2	359	23.9	A	3.0	112	74.2	61.8	-0.7	D	0.1	E	0.00
83	6	13	10	3.1	34	32.5	A	3.3	71	20.3	B	3.0	117	81.4	61.4	-0.9	D	-2.3	D	0.00
83	6	14	15	2.5	96	52.8	A	5.0	147	24.8	A	4.5	150	88.2	58.9	-1.8	A	-3.4	D	0.00
83	6	14	16	2.1	199	51.7	A	4.6	241	37.0	A	5.5	243	84.1	62.7	-0.6	D	-1.6	D	0.00
83	6	14	17	2.6	316	12.8	C	1.7	23	21.8	B	1.5	9	83.1	999.9	-0.5	D	-0.8	E	0.00
83	6	14	18	1.9	282	17.9	B	1.3	237	12.1	D	1.0	95	82.2	64.2	0.3	E	1.0	E	0.00
83	6	14	19	1.5	278	41.6	A	1.8	198	45.4	A	5.5	142	78.5	69.8	0.9	E	4.2	F	0.00
83	6	14	20	1.2	51	27.6	A	1.8	273	7.9	D	6.0	157	73.8	68.2	1.8	F	7.7	F	0.00
83	6	14	21	2.3	63	55.3	A	4.1	122	38.4	A	9.0	161	72.3	65.4	3.2	G	5.3	F	0.00
83	6	14	22	1.3	8	65.4	A	3.0	314	50.4	A	8.5	167	74.0	63.8	0.7	E	-0.4	E	0.00
83	6	14	24	0.7	101	41.5	A	2.3	31	8.4	D	2.0	187	67.1	63.9	3.2	G	4.6	F	0.00
83	6	15	1	0.8	126	21.0	B	2.2	42	10.5	D	3.0	180	65.7	63.4	3.0	G	4.8	F	0.00
83	6	15	2	1.0	126	12.6	C	2.0	54	13.2	C	2.0	185	64.0	62.8	3.1	G	5.2	F	0.00
83	6	15	3	1.0	119	12.2	D	2.9	42	7.0	E	2.5	172	62.6	62.0	2.8	G	6.2	F	0.00
83	6	15	4	0.5	110	15.4	C	2.2	39	18.9	B	2.0	192	62.0	61.5	2.4	F	6.1	F	0.00
83	6	15	5	0.5	115	99.9	-	99.9	999	99.9	-	3.0	175	999.9	999.9	2.2	F	5.9	F	9.99
83	6	15	11	3.5	215	99.9	-	99.9	999	99.9	-	4.0	170	999.9	999.9	-1.7	A	-3.3	D	9.99
83	6	15	12	3.0	170	99.9	-	99.9	999	99.9	-	6.0	175	999.9	999.9	-2.4	A	-4.4	B	9.99
83	6	15	13	4.5	160	99.9	-	99.9	999	99.9	-	6.5	170	999.9	999.9	-2.6	A	-4.7	B	9.99
83	6	15	14	4.0	170	99.9	-	99.9	999	99.9	-	6.0	155	999.9	999.9	-1.9	A	-4.2	C	9.99
83	6	15	15	3.6	174	59.7	A	5.7	174	33.7	A	6.5	162	88.1	55.8	-2.0	A	-4.1	C	0.00
83	6	15	16	4.1	202	31.5	A	6.0	206	20.5	B	6.0	204	86.8	57.2	-1.6	A	-3.3	D	0.00
83	6	15	17	3.5	248	20.1	B	7.0	264	11.3	D	9.0	272	84.1	59.2	-1.0	C	-2.4	D	0.00
83	6	15	18	6.2	233	26.4	A	8.4	259	19.2	E	12.5	261	77.9	60.6	-0.7	D	-1.5	D	0.00
83	6	16	8	1.7	280	35.4	A	1.7	255	33.7	A	6.0	203	70.7	62.1	-0.9	D	-1.5	D	0.00
83	6	16	9	3.6	288	22.1	B	4.1	280	14.4	C	3.5	223	75.2	61.7	-1.2	A	-2.7	D	0.00
83	6	16	10	3.8	279	20.4	B	4.3	274	12.0	D	4.0	252	78.3	63.0	-1.3	A	-2.9	D	0.00
83	6	16	11	3.3	294	19.7	B	3.4	293	18.7	B	2.0	271	81.3	62.3	-1.2	A	-2.6	D	0.00
83	6	16	12	2.8	300	56.6	A	3.4	282	28.9	A	3.0	250	83.6	60.6	-1.3	A	-2.9	D	0.00
83	6	16	13	3.4	307	24.7	A	3.8	299	13.8	C	3.0	300	84.7	58.0	-1.2	A	-3.1	D	0.00
83	6	16	14	2.9	331	35.1	A	3.8	330	36.1	A	3.0	269	86.5	56.8	-1.5	A	-3.4	D	0.00
83	6	16	15	2.7	281	36.4	A	3.7	277	25.9	A	3.0	266	87.2	55.9	-1.4	A	-3.6	D	0.00
83	6	16	16	2.3	273	19.3	B	4.1	282	15.2	C	3.0	264	87.0	56.0	-1.3	A	-2.9	D	0.00
83	6	16	17	2.5	186	50.1	A	2.8	187	41.8	A	2.5	179	87.5	56.8	-1.4	A	-3.4	D	0.00
83	6	16	18	2.2	167	21.4	B	3.7	176	10.3	D	4.0	173	85.0	60.7	-0.3	E	-1.7	D	0.00
83	6	16	19	1.6	164	20.2	B	2.4	183	18.6	B	5.0	192	79.2	66.1	1.4	F	3.1	E	0.00
83	6	16	20	1.7	148	21.7	B	2.3	336	24.6	A	6.0	239	74.3	65.7	2.1	F	5.7	F	0.00
83	6	16	21	1.8	162	37.3	A	4.2	263	17.5	B	8.0	309	72.6	64.2	3.8	G	3.9	F	0.00
83	6	16	22	1.6	182	41.5	A	3.7	295	16.5	C	6.0	341	71.6	64.0	3.3	G	1.8	E	0.00

TIME OF DAY: 16:37:58

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

-----35 FT----- -----150 FT----- -----500 FT-----

				WIND	WIND	STD		WIND	WIND	STD		WIND	WIND	STD		AMB.	DEW		DELTA T	DELTA T		
YR	MO	DAY	HR	SPEED	DIR	DEV	SC	SPEED	DIR	DEV	SC	SPEED	DIR	DEV	SC	TEMP	POINT	DELTA T	DELTA T	DELTA T	RAIN	
				(MPH)	(DEG)	(DEG)		(MPH)	(DEG)	(DEG)		(MPH)	(DEG)	(DEG)		35F	35F	150-35	500-35	500-35	FALL	
																(F)	(F)	(F)	(F)	(F)	(IN)	
83	6	16	23	1.1	118	37.6	A	1.4	286	41.5	A	7.0	18	7.8	D	68.5	64.3	3.6	G	3.6	0.00	
83	6	16	24	1.5	133	32.5	A	2.6	223	17.9	B	3.5	350	11.1	D	66.5	64.0	3.0	G	4.3	0.00	
83	6	17	1	1.8	161	27.5	A	3.6	208	9.7	D	2.0	337	15.7	C	65.2	63.7	2.6	G	4.7	0.00	
83	6	17	2	1.6	142	18.7	B	3.6	207	9.1	D	3.0	305	7.2	E	64.1	63.0	2.4	F	4.5	0.00	
83	6	17	3	1.3	129	30.2	A	1.8	297	27.2	A	1.9	271	5.5	E	63.3	62.5	1.8	F	3.7	0.00	
83	6	17	4	1.3	100	29.9	A	1.6	40	39.3	A	1.0	172	37.7	C	62.4	62.0	1.9	F	4.1	0.00	
83	6	17	5	1.6	133	24.7	A	2.1	260	19.9	B	2.5	251	5.7	E	63.1	62.3	1.5	F	1.8	0.00	
83	6	17	6	99.9	999	99.9	-	99.9	999	99.9	-	2.5	285	99.9	-	999.9	999.9	999.9	-	0.5	E	9.99
83	6	17	7	1.8	231	38.2	A	2.6	252	33.7	A	3.5	282	28.3	A	67.2	64.4	-0.7	D	-0.9	0.00	
83	6	17	8	2.3	264	23.6	A	3.4	259	17.7	B	6.0	262	8.0	D	71.0	64.4	-1.0	C	-2.3	0.00	
83	6	17	9	3.2	258	23.4	A	3.8	275	21.0	B	3.0	309	20.2	B	74.2	64.3	-1.1	B	-2.8	0.00	
83	6	17	10	3.3	265	19.6	B	3.9	284	15.2	C	3.5	311	16.3	C	74.8	63.3	-1.1	B	-2.8	0.00	
83	6	17	11	6.0	258	13.9	C	9.4	277	9.7	D	11.0	280	7.7	D	73.9	63.3	-1.1	B	-2.8	0.00	
83	6	17	12	3.2	287	32.2	A	5.4	296	25.5	A	6.5	310	14.1	C	72.0	62.2	-1.2	A	-3.1	0.00	
83	6	17	13	4.6	296	20.5	B	5.6	293	23.9	A	5.0	306	23.4	A	73.8	61.2	-1.5	A	-3.8	0.00	
83	6	17	14	3.5	328	50.1	A	4.4	323	53.3	A	3.5	324	33.9	A	75.5	59.6	-1.6	A	-3.7	0.00	
83	6	17	15	3.3	322	36.8	A	3.6	315	35.9	A	3.0	327	37.4	A	78.7	60.0	-1.3	A	-3.3	0.00	
83	6	17	16	3.1	344	35.5	A	4.5	347	26.0	A	4.5	350	15.6	C	80.2	62.1	-1.7	A	-3.9	0.00	
83	6	17	17	2.6	1	31.8	A	3.1	25	25.5	A	3.0	46	24.7	A	80.3	62.3	-1.3	A	-3.3	0.00	
83	6	17	18	3.7	116	59.1	A	9.3	117	13.5	C	12.0	117	7.1	E	77.4	61.9	-1.1	B	-2.9	0.00	
83	6	17	19	2.0	89	70.3	A	4.8	124	20.8	B	7.5	138	8.7	D	73.7	60.1	-1.0	C	-2.5	0.00	
83	6	17	20	1.7	73	27.7	A	2.7	99	26.5	A	3.0	129	35.9	A	70.7	61.1	0.2	E	-1.5	0.00	
83	6	17	21	1.3	102	29.5	A	2.8	106	12.3	D	2.0	121	9.5	D	66.5	61.6	1.9	F	1.6	0.00	
83	6	17	22	1.6	103	30.6	A	2.7	78	13.5	C	3.5	107	11.0	D	64.4	61.6	2.0	F	2.4	0.00	
83	6	17	23	1.5	126	26.9	A	2.0	109	28.6	A	2.5	110	12.5	C	63.2	61.4	2.1	F	1.5	0.00	
83	6	17	24	1.5	87	22.1	B	2.6	54	16.9	C	2.5	112	20.2	B	61.8	60.9	2.8	G	1.9	0.00	
83	6	18	1	1.2	123	18.4	B	2.5	47	13.4	C	2.5	105	18.3	B	60.6	60.0	3.0	G	2.5	0.00	
83	6	18	20	1.3	117	26.3	A	1.7	124	50.8	A	2.5	10	37.4	A	71.9	65.8	1.0	F	-0.5	0.00	
83	6	18	21	1.9	135	28.0	A	1.8	113	52.8	A	3.5	16	16.7	C	69.9	66.0	1.3	F	0.6	0.00	
83	6	18	22	1.3	145	22.5	A	1.8	196	14.6	C	1.0	280	35.6	A	68.5	66.2	1.8	F	1.1	0.00	
83	6	18	23	1.4	135	27.5	A	2.3	118	33.8	A	1.0	291	29.4	A	67.6	66.5	0.9	E	1.6	0.00	
83	6	18	24	0.9	127	16.6	C	2.3	204	13.8	C	1.5	336	14.4	C	67.0	66.5	1.0	F	1.9	0.00	
83	6	19	1	1.2	98	30.8	A	2.8	149	22.2	B	1.5	204	18.1	B	66.9	66.3	0.7	E	1.9	0.00	
83	6	19	2	0.8	150	15.7	C	1.2	80	30.6	A	2.0	132	12.4	D	66.3	65.8	0.6	E	1.4	0.00	
83	6	19	3	1.0	141	11.5	D	1.4	207	21.2	B	2.0	255	14.4	C	65.8	65.5	1.2	F	1.1	0.00	
83	6	19	4	1.1	132	18.5	B	1.6	259	20.2	B	4.0	309	10.4	D	65.9	65.5	1.0	F	0.4	0.00	
83	6	19	5	0.8	129	12.4	D	0.7	313	24.8	A	3.0	36	11.1	D	65.8	65.3	1.0	F	0.9	0.00	
83	6	19	6	0.9	193	23.4	A	0.8	186	1.7	G	1.0	116	26.3	A	66.1	65.9	0.4	E	-0.3	0.00	
83	6	19	7	0.7	96	29.9	A	0.6	225	6.3	E	1.0	121	7.2	E	67.5	66.4	-0.4	D	-1.0	0.00	
83	6	19	12	2.7	357	19.6	B	4.8	25	16.9	C	2.5	63	15.4	C	74.1	67.8	-1.2	A	-2.2	0.00	
83	6	19	13	4.3	356	18.5	B	5.8	9	9.9	D	4.5	41	21.8	B	75.3	67.4	-1.4	A	-2.4	0.00	
83	6	19	14	2.9	38	34.8	A	4.9	40	17.5	B	6.0	48	11.4	D	76.0	66.0	-1.0	C	-2.7	0.00	
83	6	19	15	1.5	71	24.5	A	2.0	3	38.3	A	4.0	46	35.3	A	73.4	68.6	0.0	E	-1.1	0.03	
83	6	19	16	1.7	112	35.8	A	4.3	127	17.8	B	7.0	54	31.3	A	70.8	69.7	0.0	E	-0.5	0.07	
83	6	19	17	2.1	132	67.4	A	5.7	92	25.6	A	11.0	70	19.8	B	70.1	69.1	-0.2	E	-0.7	0.06	
83	6	19	18	1.5	82	42.2	A	3.0	128	27.9	A	7.5	157	12.8	C	66.1	65.3	-0.3	D	-1.2	0.37	
83	6	19	19	2.0	35	25.4	A	3.1	71	45.9	A	5.0	126	9.4	D	65.7	64.6	-0.6	D	-1.1	0.00	
83	6	19	20	1.4	65	23.9	A	3.2	60	12.0	D	3.5	96	20.9	B	65.5	64.6	-0.2	E	-1.2	0.00	

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB.	DEW	DELTA T	DELTA T	RAIN
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	TEMP	POINT			
				(MPH)	(DEG)	SC	(MPH)	(DEG)	SC	(MPH)	(DEG)	SC	(F)	(F)	150-35	500-35	FALL
															SC (F)	SC (F)	SC (IN)
83	6	19	21	1.2	107	29.6 A	2.0	92	29.9 A	2.5	123	8.3 D	65.0	64.7	0.4 E	0.0 E	0.00
83	6	19	22	1.1	80	10.3 D	2.4	30	11.2 D	2.5	122	16.6 C	65.2	65.0	0.7 E	0.2 E	0.00
83	6	19	23	1.5	127	44.1 A	1.3	92	22.2 B	3.5	97	6.2 E	65.7	65.5	0.4 E	0.4 E	9.01
83	6	19	24	1.3	114	24.6 A	1.5	77	23.6 A	4.5	83	4.9 E	65.8	65.8	0.8 E	0.5 E	0.00
83	6	20	1	0.9	114	12.6 C	2.8	88	20.6 B	4.0	83	6.1 E	65.9	65.8	0.8 E	3.4 E	0.00
83	6	20	2	0.9	123	22.0 B	2.4	86	10.3 D	3.0	104	5.0 E	66.0	66.0	0.8 E	0.2 E	0.00
83	6	20	3	1.2	48	19.1 B	1.9	83	20.3 B	2.5	107	2.4 F	66.4	65.9	0.0 E	0.2 E	0.00
83	6	20	4	99.9	999	99.9 -	99.9	999	99.9 -	2.0	135	99.9 -	999.9	999.9	999.9 -	-1.2 E	9.99
83	6	20	5	1.0	113	36.5 A	1.1	62	29.2 A	1.5	65	43.0 A	66.6	65.7	0.0 E	-1.3 D	0.01
83	6	20	6	1.4	80	13.4 C	1.3	85	7.8 D	1.5	135	12.9 C	66.7	66.2	-0.2 E	-1.3 D	0.01
83	6	20	7	0.7	29	8.1 D	1.2	119	11.3 D	1.5	142	11.0 D	67.1	66.5	-0.5 D	-1.5 D	0.01
83	6	20	8	0.8	58	16.5 C	0.9	83	26.8 A	1.5	264	30.2 A	67.6	66.6	-0.6 D	-1.8 D	0.00
83	6	20	9	1.1	104	26.7 A	1.2	115	22.3 B	1.5	109	30.3 A	68.3	66.8	-0.5 D	-1.8 D	0.00
83	6	20	10	1.3	202	58.9 A	1.7	156	37.2 A	1.5	216	54.5 A	69.8	67.0	-0.8 D	-2.2 D	0.00
83	6	20	11	2.2	79	52.0 A	3.8	44	30.1 A	5.0	30	19.3 B	70.8	66.7	-0.8 D	-2.6 D	0.00
83	6	20	12	1.6	139	33.6 A	2.2	103	23.1 A	2.0	110	43.4 A	70.9	67.0	-0.7 D	-2.4 D	0.00
83	6	20	13	3.1	40	37.4 A	5.7	69	25.1 A	7.0	73	38.2 A	71.8	66.1	-0.9 D	-2.7 D	0.00
83	6	23	18	3.5	275	19.1 B	5.5	273	14.4 C	6.5	272	11.5 D	85.1	60.6	-0.9 D	-2.6 D	0.00
83	6	23	19	1.9	193	38.7 A	4.2	225	11.3 D	6.5	261	6.0 E	81.3	64.5	0.8 E	0.2 E	0.00
83	6	23	20	1.6	129	22.6 A	4.1	203	8.2 D	5.0	263	5.9 E	74.7	66.0	3.6 G	4.9 F	0.00
83	6	23	21	1.1	124	18.9 B	3.3	154	31.8 A	4.0	268	4.6 E	71.2	65.1	3.4 G	7.4 F	0.00
83	6	23	22	99.9	999	99.9 -	99.9	999	99.9 -	4.5	255	99.9 -	999.9	999.9	999.9 -	7.8 F	9.99
83	6	23	23	1.6	144	24.2 A	3.8	217	6.8 E	4.0	241	3.4 F	65.8	62.8	3.4 G	6.0 F	0.00
83	6	23	24	2.0	115	12.9 C	3.0	230	7.6 D	6.0	247	2.8 F	64.9	62.6	3.1 G	7.0 F	0.00
83	6	24	1	1.7	144	16.2 C	3.0	234	8.7 D	5.5	243	3.6 F	64.0	62.3	3.2 G	6.8 F	0.00
83	6	24	2	2.2	125	12.0 D	3.2	243	7.3 E	6.5	244	3.4 F	64.5	62.7	2.2 F	5.4 F	0.00
83	6	24	3	1.8	158	15.7 C	3.2	237	6.9 E	6.0	246	3.3 F	65.1	62.9	1.6 F	4.9 F	0.00
83	6	24	4	2.0	132	18.1 B	3.7	250	6.8 E	6.0	254	5.6 E	65.8	63.5	1.3 F	4.1 F	0.00
83	6	24	5	1.3	70	39.9 A	2.4	249	16.0 C	6.5	294	4.9 E	64.9	63.5	2.0 F	4.2 F	0.00
83	6	24	6	2.6	153	18.8 B	3.5	235	8.7 D	8.5	283	3.7 F	66.0	63.6	1.0 F	3.7 E	0.00
83	6	24	7	1.7	261	15.4 C	2.8	247	12.0 D	7.5	273	3.7 F	68.8	64.9	-0.5 D	1.3 E	0.00
83	6	24	8	99.9	999	99.9 -	99.9	999	99.9 -	6.0	285	99.9 -	999.9	999.9	999.9 -	-2.4 D	9.99
83	6	24	9	4.1	279	21.3 B	5.9	292	14.2 C	6.0	296	13.8 C	77.3	64.4	999.9 -	-3.2 D	0.00
83	6	24	10	1.9	329	44.0 A	3.9	335	31.9 A	3.5	335	33.2 A	79.4	66.2	-1.1 B	-3.2 D	0.00

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter 3RD	Quarter 4TH	Est. Total Error, %
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A. Fission & activation gases

1. Total release	Ci	1.09E+2	2.09E+1	2.0E+1
2. Average release rate for period	μCi/sec	1.38E+1	2.65E+0	
3. Percent of technical specification limit	%	N/A	N/A	

B. Iodines

1. Total iodine-131	Ci	2.68E-3	1.05E-3	1.5E+1
2. Average release rate for period	μCi/sec	3.40E-4	1.33E-4	
3. Percent of technical specification limit	%	1.34E-1	5.25E-2	

C. Particulates

1. Particulates with half-lives >8 days	Ci	1.14E-4	2.49E-5	2.0E+1
2. Average release rate for period	μCi/sec	1.45E-5	3.16E-6	
3. Percent of technical specification limit	%	N/A	N/A	
4. Gross alpha radioactivity	Ci	1.29E-7	1.47E-6	

D. Tritium*

1. Total release	Ci	8.27E-2	4.29E-3	1.5E+1
2. Average release rate for period	μCi/sec	1.05E-2	5.44E-4	
3. Percent of technical specification limit	%	N/A	N/A	

N/A = NOT APPLICABLE

The amount of time (in seconds) used to calculate the release rates specified in A.2, B.2, C.2 and D.2 is the average amount of seconds per calendar quarter (7.88E+6 seconds).

3.3 is based on limit of 2 Ci/quarter

*The total curies of tritium released for the third and fourth quarters include average values. These are due to the loss of four samples from gaseous waste discharges for the third and fourth quarters.

TABLE 1B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

GASEOUS EFFLUENTS - ELEVATED RELEASE

CONTINUOUS MODE

BATCH MODE

Nuclides Released	Unit	Quarter	Quarter	Quarter	Quarter
1. Fission gases					
		3RD	4TH	3RD	4TH
krypton-85	Ci	1.96E-4	4.16E-4	1.66E-1	3.19E-1
krypton-85m	Ci	LLD	LLD	5.58E-6	LLD
krypton-87	Ci	LLD	LLD	LLD	LLD
krypton-88	Ci	LLD	LLD	LLD	LLD
xenon-133	Ci	2.66E-4	1.29E-3	3.63E+0	2.00E+1
xenon-135	Ci	8.20E-6	1.44E-5	2.18E-2	1.79E-2
xenon-135m	Ci	LLD	LLD	6.67E-2	3.19E-2
xenon-138	Ci	LLD	LLD	LLD	LLD
xenon-131m	Ci	LLD	LLD	1.86E+0	4.71E-1
xenon-133m	Ci	LLD	LLD	1.50E-1	1.65E-2
argon-41	Ci	LLD	LLD	LLD	1.56E-4
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	4.70E-4	1.72E-3	5.89E+0	2.09E+1

2. Iodines

iodine-131	Ci	5.02E-4	2.38E-4	7.38E-5	LLD
iodine-133	Ci	7.81E-3	6.22E-6	LLD	LLD
iodine-135	Ci	LLD	LLD	LLD	LLD
Total for period	Ci	8.31E-3	2.44E-4	7.38E-5	-----

3. Particulates

strontium-89	Ci	6.54E-8	2.86E-8	LLD	LLD
strontium-90	Ci	LLD	2.45E-7	LLD	LLD
cesium-134	Ci	LLD	LLD	LLD	LLD
cesium-137	Ci	LLD	LLD	LLD	LLD
barium-lanthanum-140	Ci	LLD	LLD	LLD	LLD
manganese - 54	Ci	3.83E-7	5.17E-7	LLD	LLD
cobalt - 60	Ci	4.44E-6	1.31E-5	LLD	LLD
niobium - 95	Ci	LLD	1.21E-8	LLD	LLD
unidentified	Ci	NONE	NONE	NONE	NONE

LLD = Below the Lower Limit of Detectability, in $\mu\text{Ci/cc}$ (Table 4)

TABLE 1C

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

CONTINUOUS MODE

BATCH MODE

Nuclides Released	Unit	Quarter	Quarter	Quarter	Quarter
1. Fission gases					NO RELEASES
		3RD	4TH	3RD	4TH
krypton-85	Ci	1.31E-2	1.24E-2	1.36E+0	
krypton-85m	Ci	LLD	2.74E-5	LLD	
krypton-87	Ci	LLD	LLD	LLD	
krypton-88	Ci	LLD	LLD	LLD	
xenon-133	Ci	1.85E-3	6.98E-3	1.01E+2	
xenon-135	Ci	LLD	3.66E-4	2.08E-1	
xenon-135m	Ci	LLD	LLD	LLD	
xenon-138	Ci	LLD	LLD	LLD	
xenon-133m	Ci	LLD	LLD	5.91E-1	
	Ci				
	Ci				
unidentified	Ci	NONE	NONE	NONE	
Total for period	Ci	1.50E-2	1.98E-2	1.03E+2	✓

2. Iodines

iodine-131	Ci	2.01E-3	8.16E-4	9.14E-5	
iodine-133	Ci	1.66E-4	6.30E-5	1.37E-5	
iodine-135	Ci	LLD	LLD	LLD	
Total for period	Ci	2.18E-3	8.79E-4	1.05E-4	✓

3. Particulates

strontium-89	Ci	2.02E-6	9.53E-7	LLD	
strontium-90	Ci	6.39E-6	8.25E-6	LLD	
cesium-134	Ci	LLD	LLD	LLD	
cesium-137	Ci	9.67E-7	1.79E-6	LLD	
barium-lanthanum-140	Ci	LLD	LLD	LLD	
cobalt-58	Ci	3.39E-6	LLD	LLD	
cobalt-60	Ci	9.61E-5	LLD	LLD	
	Ci				
unidentified	Ci	NONE	NONE	NONE	✓

LLD = Below the Lower Limit of Detectability, in $\mu\text{Ci/cc}$ (Table 4)

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter	Quarter	Est. Total Error, %
A. Fission & activation products		3RD	4TH	
1. Total release (not including tritium, gases, alpha)	Ci	1.19E-1	4.04E-3	2.0E+1
2. Average diluted concentration during period	$\mu\text{Ci/ml}$	5.00E-8	9.20E-9	
3. Percent of applicable limit	%	1.19E0	4.04E-2	
B. Tritium				
1. Total release	Ci	3.96E+1	7.08E+1	1.5E+1
2. Average diluted concentration during period	$\mu\text{Ci/ml}$	1.66E-5	1.61E-4	
3. Percent of applicable limit	%	5.53E-1	5.37E+0	
C. Dissolved and entrained gases				
1. Total release	Ci	1.48E-1	1.04E-2	2.7E+1
2. Average diluted concentration during period	$\mu\text{Ci/ml}$	6.22E-8	2.37E-8	
3. Percent of applicable limit	%	N/A	N/A	
D. Gross alpha radioactivity				
1. Total release	Ci	LLD	LLD	2.9E+1
E. Volume of waste released (prior to dilution)	liters	3.59E+6	7.93E+5	5.0E+0
F. Volume of dilution water used during period	liters	2.38E+9	4.39E+8	1.0E+1

LLD = Below the Lower Limit of Detectability, in $\mu\text{Ci/cc}$ (Table 4)

N/A = NOT APPLICABLE

A.3 is based on a limit of 10 Ci/quarter

B.3 is based on a limit of $3.00 \text{ E-3 } \mu\text{Ci/ml}$

TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 3RD	Quarter 4TH	Quarter 3RD	Quarter 4TH
strontium-89	Ci	N/A	N/A	7.11E-5	9.97E-6
strontium-90	Ci			2.14E-5	1.50E-5
cesium-134	Ci			3.52E-3	1.67E-4
cesium-137	Ci			5.25E-3	6.22E-4
iodine-131	Ci	↓	↓	1.01E-2	2.47E-4
cobalt-58	Ci			3.83E-2	4.73E-4
cobalt-60	Ci			5.09E-2	1.93E-3
iron-59	Ci			LLD	LLD
zinc-65	Ci			LLD	LLD
manganese-54	Ci			1.62E-3	7.98E-6
chromium-51	Ci	↓	↓	3.24E-4	LLD
zirconium-niobium-95	Ci			2.61E-4	LLD
molybdenum-99	Ci			LLD	LLD
technetium-99M	Ci			1.80E-3	2.37E-5
barium-lanthanum-140	Ci			LLD	LLD
cerium-141	Ci	↓	↓	LLD	6.25E-6
Other (specify) iodine-133	Ci			1.72E-3	1.50E-5
iodine-135	Ci			8.77E-5	LLD
cobalt-57	Ci			4.08E-3	6.98E-6
niobium-97	Ci			6.04E-4	5.21E-4
silver-110m	Ci			1.73E-5	LLD
unidentified	Ci	↓	↓	NONE	NONE
Total for period (above)	Ci	↓	↓	1.19E-1	4.04E-3
xenon-133	Ci			5.13E-2	9.20E-3
xenon-135	Ci	↓	↓	4.21E-4	7.55E-5

LLD = Below the Lower Limit of Detectability, in $\mu\text{Ci/cc}$ (Table 4)

N/A = NOT APPLICABLE (Liquids not discharged in a continuous mode)