

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
Supplemental Information

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: 10CFR20, Appendix B, Table II
- b. Iodines: ↓ ↓ ↓
- c. Particulates, half-lives >8 days: ↓ ↓ ↓
- d. Liquid effluents: 10CFR20, 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: ↓ ↓ ↓
- c. Particulates: ↓ ↓ ↓, Low Background Proportional
- d. Liquid effluents: GeLi Gamma Spectrometry, Liquid Scintillation Counter

5. Batch Releases

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

| a. Liquid | 3rd Quarter | 4th Quarter |
|--|---------------|---------------|
| 1. Number of batch releases: | 127 | 100 |
| 2. Total time period for batch releases: | 36646 minutes | 15244 minutes |
| 3. Maximum time period for a batch release: | 3934 minutes | 419 minutes |
| 4. Average time period for batch releases: | 289 minutes | 152 minutes |
| 5. Minimum time period for a batch release: | 15 minutes | 50 minutes |
| 6. Average stream flow during periods of release of effluent into a flowing stream: 21,145 cu. ft./sec | | |

| b. Gaseous | 3rd Quarter | 4th Quarter |
|---|---------------|--------------|
| 1. Number of batch releases: | 19 | 4 |
| 2. Total time period for batch releases: | 16572 minutes | 2647 minutes |
| 3. Maximum time period for a batch release: | 1338 minutes | 720 minutes |
| 4. Average time period for batch releases: | 872 minutes | 662 minutes |
| 5. Minimum time period for a batch release: | 379 minutes | 526 minutes |

6. Abnormal Releases

- a. Liquid
 - 1. Number of releases: 3
 - 2. Total activity released: 5.61 E-3 Curies
- b. Gaseous
 - 1. Number of releases: 1
 - 2. Total activity released: 2.40 E-1 Curies

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2ND HALF 1982

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

| | Unit | Quarter 3RD | Quarter 4TH | Est. Total Error, % |
|--|------|----------------|----------------|------------------------|
|--|------|----------------|----------------|------------------------|

A. Fission & activation gases

| | | | | |
|---|--------------|---------|---------|--------|
| 1. Total release | Ci | 1.09E+2 | 2.09E+1 | 2.0E+1 |
| 2. Average release rate for period | μ Ci/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 | μ Ci/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 | | | 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 | 1.29E-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 | μ Ci/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).

B.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.

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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 | | | | |
| 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 | | | |
| strontium-90 | Ci | | | | |
| 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 | | | | |

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

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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 | | 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 | | | | |
| 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 | | | |
| strontium-90 | Ci | | | | |
| 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 | | | | |

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

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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 | | | 2.0E+1 |
| 2. Average diluted concentration during period | μ Ci/ml | | | |
| 3. Percent of applicable limit | % | | | |

B. Tritium

| | | | | |
|--|-------------|---------|---------|--------|
| 1. Total release | Ci | 3.96E+1 | 7.08E+1 | 1.5E+1 |
| 2. Average diluted concentration during period | μ 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 | μ Ci/ml | 6.27E-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 μ 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 E-3 μ Ci/ml

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TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL 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 | 7.09E-5 | 5.20E-6 |
| strontium-90 | Ci | ↓ | ↓ | | |
| 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 | ↓ | ↓ | | |
| | | | | | |
| Total for period (above) | Ci | ↓ | ↓ | | |
| | | | | | |
| 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)

TABLE 3
2ND HALF 1982
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 | 5.82 E+1 4.09 E+1 | 3.00 E+1 |
| b. Dry compressible waste, contaminated equip, etc. | m ³ Ci | 5.72 E+1 1.93 E+0 | 3.00 E+1 |
| c. Irradiated components, control rods, etc. | m ³ Ci | | |
| d. Other (describe) | m ³ Ci | | |

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

| | | |
|--------------|---|----------|
| a. Cobalt-60 | % | 4.71 E+1 |
| Cobalt-58 | % | 4.07 E+1 |
| Cesium-137 | % | 6.55 E+0 |
| b. Cobalt-60 | % | 5.32 E+1 |
| Cobalt-58 | % | 3.07 E+1 |
| Manganese-54 | % | 6.78 E+0 |
| c. | % | |
| | % | |
| | % | |
| d. | % | |
| | % | |
| | % | |

3. Solid Waste Disposition

| <u>Number of Shipments</u> | <u>Mode of Transportation</u> | <u>Destination</u> |
|----------------------------|-------------------------------|--------------------|
| 16 | Truck | Barnwell, SC |
| 1 | Truck | Richland, WA |

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 higher due to container size.

T A B L E 4
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
LOWER LIMIT OF DETECTION
(NOMINAL)

| GAS | | LIQUID | |
|-------------|--|-------------|---------------------------|
| Kr-85 | 2.0 E-10 $\mu\text{Ci/cc}$ (Teledyne Sample) | Cs-134 | 1.7 E-8 $\mu\text{Ci/cc}$ |
| Kr-85m | 6.67 E-9 | Cs-137 | 1.43 E-8 |
| Kr-87 | 2.01 E-8 | I-131 | 1.76 E-8 |
| Kr-88 | 1.73 E-8 | Fe-59 | 4.62 E-8 |
| Xe-133 | 4.15 E-8 | Zn-65 | 8.50 E-8 |
| Xe-135 | 9.96 E-9 | Mo-99 | 1.45 E-8 |
| Xe-135m | 1.58 E-8 | Tc-99m | 7.36 E-9 |
| Xe-138 | 4.10 E-8 | Ba/La-140 | 6.6 E-8/2.38 E-8 |
| I-131 | 9.60 E-7 | Ce-141 | 8.56 E-8 |
| I-133 | 2.17 E-6 | Na-24 | 2.06 E-8 |
| I-135 | 1.16 E-5 | Cr-51 | 1.48 E-7 |
| Cs-134 | 1.29 E-8 | Xe-137 | 7.9 E-8 |
| Cs-137 | 1.12 E-8 | Xe-135 | 1.56 E-8 |
| Ba/La-140 | 2.02 E-8 | H-3 | 1 E-6 |
| H-3 | 1.0 E-6 | Gross Alpha | 7 E-10 |
| Gross Alpha | 4.9 E-8 | Sr-89 | 1.3 E-9 |
| Sr-89 | 1 E-6 | Sr-90 | 3.1 E-9 |
| Sr-90 | 6.2 E-6 | Co-58 | 4.4 E-8 |
| Xe-133m | 9.98 E-8 | Co-60 | 1.83 E-8 |
| Xe-131m | 1.59 E-8 | Mn-54 | 1.39 E-8 |
| Mn-54 | 1.18 E-8 | Xe-133 | 5.44 E-8 |
| Ce-144 | 5.43 E-8 | Zr/Nb-95 | 3.92 E-8 |

ASSUME: 1 HR COUNT

BEAVER VALLEY
JOINT FREQUENCY DISTRIBUTION TABLES
FOR
CONTINUOUS RELEASE

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

(JULY 1, 1982 - SEPTEMBER 30, 1982)

PROGRAM: JFC VERSION: 5F

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 | | | | | | | | | | | | | | | | | C |
| 0.76- 3.50 | 9 | 7 | 5 | 3 | 2 | 2 | 7 | 7 | 12 | 1 | 4 | 3 | 2 | 5 | 1 | 4 | 74 |
| 3.51- 7.50 | 38 | 7 | 4 | 0 | 0 | 2 | 1 | 3 | 12 | 29 | 21 | 32 | 53 | 28 | 23 | 15 | 268 |
| 7.51-12.50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 8 | 2 | 1 | 0 | 2 | 25 |
| 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 | 48 | 14 | 9 | 3 | 2 | 4 | 8 | 10 | 24 | 33 | 33 | 43 | 57 | 34 | 24 | 21 | 367 |

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 | | | | | | | | | | | | | | | | | C |
| 0.76- 3.50 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 0 | 3 | 3 | 1 | 0 | 3 | 1 | 27 |
| 3.51- 7.50 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 4 | 4 | 5 | 2 | 2 | 34 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 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 | 5 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 10 | 8 | 7 | 6 | 6 | 5 | 3 | 64 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLHV2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 |
| 0.76- 3.50 | 6 | 0 | 3 | 0 | 3 | 1 | 1 | 1 | 1 | 3 | 0 | 2 | 2 | 2 | 1 | 2 | 28 |
| 3.51- 7.50 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 10 | 8 | 4 | 1 | 6 | 39 |
| 7.51-12.50 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 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 | 7 | 3 | 3 | 0 | 3 | 1 | 1 | 1 | 2 | 9 | 1 | 12 | 10 | 7 | 2 | 8 | 70 |

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 | | | | | | | | | | | | | | | | | 1 |
| 0.76- 3.50 | 40 | 17 | 24 | 14 | 11 | 7 | 7 | 4 | 15 | 12 | 19 | 16 | 35 | 17 | 30 | 31 | 295 |
| 3.51- 7.50 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 25 | 29 | 26 | 15 | 6 | 8 | 8 | 125 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 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 | 46 | 17 | 24 | 14 | 11 | 7 | 7 | 5 | 16 | 37 | 50 | 44 | 51 | 23 | 38 | 39 | 430 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: CLBV2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 | | | | | | | | | | | | | | | | | 1 |
| 0.76- 3.50 | 25 | 14 | 23 | 20 | 34 | 45 | 43 | 42 | 51 | 31 | 15 | 5 | 5 | 4 | 5 | 18 | 380 |
| 3.51- 7.50 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 14 | 17 | 3 | 2 | 1 | 1 | 0 | 40 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 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 |
| 24.01-30.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 25 | 14 | 24 | 20 | 34 | 45 | 43 | 42 | 52 | 45 | 32 | 11 | 8 | 5 | 6 | 18 | 425 |

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 | | | | | | | | | | | | | | | | | 3 |
| 0.76- 3.50 | 3 | 0 | 3 | 15 | 48 | 74 | 113 | 71 | 25 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 358 |
| 3.51- 7.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 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 |
| 24.01-30.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 3 | 0 | 3 | 15 | 48 | 74 | 113 | 71 | 28 | 3 | 1 | 1 | 0 | 0 | 1 | 1 | 365 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLRV2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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) CALM | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|------------------------|---|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 0.76- 3.50 | 0 | 0 | 5 | 7 | 18 | 71 | 189 | 45 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 397 |
| 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 | 5 | 7 | 18 | 71 | 189 | 45 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 398 |

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) CALM | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|------------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|
| 0.76- 3.50 | 85 | 39 | 66 | 60 | 119 | 202 | 361 | 172 | 117 | 50 | 42 | 30 | 45 | 28 | 41 | 57 | 1512 |
| 3.51- 7.50 | 48 | 9 | 5 | 0 | 0 | 2 | 1 | 4 | 18 | 84 | 72 | 75 | 82 | 44 | 35 | 31 | 510 |
| 7.51-12.50 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 11 | 13 | 5 | 3 | 0 | 2 | 40 |
| 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 | 134 | 49 | 71 | 60 | 118 | 204 | 362 | 176 | 135 | 138 | 125 | 118 | 132 | 75 | 76 | 90 | 2065 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: 0L8V2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2069

TOTAL NUMBER OF MISSING OBSERVATIONS: 139

PERCENT DATA RECOVERY FOR THIS PERIOD: 93.7 %

MEAN WIND SPEED FOR THIS PERIOD: 2.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A | B | C | D | E | F | G |
|-------|------|------|-------|-------|-------|-------|
| 17.74 | 3.09 | 3.38 | 20.78 | 20.54 | 17.64 | 16.82 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | CALM |
|-------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|
| A | 48 | 14 | 9 | 3 | 2 | 4 | 8 | 10 | 24 | 33 | 33 | 43 | 57 | 34 | 24 | 21 | 0 |
| B | 5 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 3 | 10 | 8 | 7 | 6 | 6 | 5 | 3 | 0 |
| C | 7 | 3 | 3 | 0 | 3 | 1 | 1 | 1 | 2 | 9 | 1 | 12 | 10 | 7 | 2 | 8 | 0 |
| D | 46 | 17 | 24 | 14 | 11 | 7 | 7 | 5 | 16 | 37 | 50 | 44 | 51 | 23 | 38 | 39 | 1 |
| E | 25 | 14 | 24 | 20 | 34 | 45 | 43 | 42 | 52 | 45 | 32 | 11 | 8 | 5 | 6 | 18 | 1 |
| F | 2 | 0 | 3 | 15 | 48 | 74 | 113 | 71 | 28 | 3 | 1 | 1 | 0 | 0 | 1 | 1 | 3 |
| G | 0 | 0 | 5 | 7 | 18 | 71 | 189 | 46 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 134 | 49 | 71 | 60 | 118 | 204 | 362 | 176 | 135 | 138 | 125 | 118 | 132 | 75 | 76 | 90 | 6 |

TIME OF DAY: 20:40:52

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: CLBV2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 | 1 | 0 | 4 | 2 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7.51-12.50 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 7 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 1 | 2 | 5 | 2 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 15 |

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 | 1 | 1 |
| 3.51- 7.50 | 0 | 1 | 2 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 21 |
| 7.51-12.50 | 4 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 2 | 4 | 4 | 0 | 1 | 1 | 25 |
| 12.51-18.50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| 24.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 5 | 2 | 2 | 2 | 1 | 3 | 5 | 4 | 4 | 1 | 2 | 4 | 6 | 3 | 2 | 2 | 48 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: CLBV2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 |
|----------------|----|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|-------|
| 0.76- 3.50 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 7 |
| 3.51- 7.50 | 6 | 4 | 5 | 1 | 3 | 4 | 4 | 3 | 3 | 3 | 5 | 5 | 13 | 5 | 0 | 0 | 64 |
| 7.51-12.50 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 6 | 8 | 12 | 5 | 7 | 2 | 58 |
| 12.51-18.50 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 1 | 2 | 11 |
| 18.51-24.00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 224.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 21 | 5 | 5 | 2 | 4 | 4 | 4 | 5 | 6 | 7 | 14 | 14 | 26 | 10 | 9 | 5 | 141 |

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 |
|----------------|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|-------|
| 0.76- 3.50 | 4 | 12 | 9 | 12 | 12 | 11 | 3 | 5 | 3 | 10 | 8 | 11 | 7 | 11 | 7 | 7 | 132 |
| 3.51- 7.50 | 17 | 14 | 12 | 17 | 7 | 13 | 13 | 15 | 24 | 27 | 19 | 20 | 36 | 20 | 15 | 16 | 292 |
| 7.51-12.50 | 22 | 8 | 1 | 2 | 3 | 3 | 0 | 5 | 14 | 27 | 53 | 37 | 42 | 27 | 18 | 21 | 283 |
| 12.51-18.50 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 32 | 6 | 28 | 10 | 12 | 5 | 121 |
| 18.51-24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 6 |
| 224.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| TOTAL | 54 | 36 | 22 | 31 | 22 | 27 | 16 | 25 | 44 | 77 | 114 | 75 | 115 | 68 | 53 | 49 | 828 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLHV2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 | | | | | | | | | | | | | | | | | 0 |
| 0.76- 3.50 | 8 | 12 | 15 | 12 | 21 | 21 | 13 | 5 | 9 | 5 | 18 | 31 | 23 | 14 | 8 | 10 | 225 |
| 3.51- 7.50 | 10 | 13 | 19 | 17 | 18 | 11 | 8 | 8 | 20 | 14 | 20 | 36 | 48 | 24 | 6 | 8 | 280 |
| 7.51-12.50 | 5 | 8 | 4 | 5 | 6 | 0 | 3 | 5 | 13 | 14 | 20 | 13 | 16 | 3 | 3 | 5 | 123 |
| 12.51-18.50 | 10 | 0 | 7 | 2 | 0 | 0 | 1 | 3 | 5 | 8 | 5 | 1 | 1 | 0 | 0 | 2 | 45 |
| 18.51-24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 24.01-30.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| TOTAL | 33 | 33 | 45 | 36 | 45 | 32 | 25 | 21 | 47 | 41 | 63 | 81 | 91 | 41 | 17 | 25 | 676 |

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 | | | | | | | | | | | | | | | | | 4 |
| 0.76- 3.50 | 11 | 10 | 17 | 16 | 21 | 9 | 6 | 4 | 12 | 11 | 22 | 21 | 11 | 8 | 7 | 6 | 192 |
| 3.51- 7.50 | 3 | 6 | 9 | 7 | 5 | 11 | 3 | 5 | 9 | 14 | 10 | 7 | 16 | 13 | 5 | 3 | 126 |
| 7.51-12.50 | 5 | 0 | 3 | 0 | 0 | 1 | 0 | 8 | 6 | 13 | 7 | 0 | 4 | 0 | 1 | 2 | 50 |
| 12.51-18.50 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 1 | 9 |
| 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 | 21 | 16 | 30 | 23 | 26 | 21 | 9 | 17 | 27 | 39 | 43 | 28 | 31 | 21 | 13 | 12 | 391 |

TIME OF DAY: 20:40:52

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DL9V2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 |
|----------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 0.76- 3.50 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.51- 7.50 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.51- 12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 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 |
| TOTAL | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 3 | 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: 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 | 23 | 34 | 41 | 42 | 55 | 41 | 22 | 16 | 24 | 27 | 48 | 63 | 42 | 33 | 23 | 25 | 55 |
| 3.51- 7.50 | 37 | 38 | 52 | 46 | 34 | 44 | 33 | 35 | 61 | 59 | 54 | 68 | 115 | 63 | 27 | 27 | 79 |
| 7.51- 12.50 | 46 | 20 | 10 | 7 | 10 | 4 | 4 | 21 | 39 | 57 | 82 | 62 | 81 | 37 | 30 | 31 | 54 |
| 12.51- 18.50 | 28 | 2 | 8 | 2 | 0 | 0 | 1 | 3 | 8 | 21 | 44 | 8 | 29 | 10 | 13 | 10 | 18 |
| 18.51- 24.00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 0 | 1 | 0 | 5 |
| TOTAL | 135 | 94 | 111 | 97 | 99 | 89 | 60 | 75 | 132 | 165 | 236 | 202 | 272 | 143 | 94 | 93 | 210 |

PROGRAM: JFC VERSION: 5P

HEAVY VALLEY JFC - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DL9V2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2101

TOTAL NUMBER OF MISSING OBSERVATIONS: 107

PERCENT DATA RECOVERY FOR THIS PERIOD: 95.2 %

MEAN WIND SPEED FOR THIS PERIOD: 6.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A | B | C | D | E | F | G |
|------|------|------|-------|-------|-------|------|
| 0.90 | 2.28 | 6.71 | 39.41 | 32.18 | 18.13 | 0.38 |

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 | 2 | 6 | 2 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| B | 5 | 2 | 2 | 2 | 1 | 3 | 5 | 4 | 4 | 1 | 2 | 4 | 6 | 3 | 2 | 2 | 0 |
| C | 21 | 5 | 5 | 2 | 4 | 4 | 4 | 5 | 6 | 7 | 14 | 14 | 26 | 10 | 9 | 5 | 0 |
| D | 54 | 36 | 22 | 31 | 22 | 27 | 16 | 25 | 44 | 77 | 114 | 75 | 115 | 68 | 53 | 49 | 0 |
| E | 33 | 33 | 45 | 36 | 45 | 32 | 25 | 21 | 47 | 41 | 63 | 81 | 91 | 41 | 17 | 25 | 0 |
| F | 21 | 16 | 30 | 23 | 26 | 21 | 9 | 17 | 27 | 39 | 43 | 28 | 31 | 21 | 13 | 12 | 4 |
| G | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 135 | 94 | 111 | 97 | 99 | 89 | 60 | 75 | 132 | 165 | 236 | 202 | 272 | 143 | 94 | 93 | 4 |

BEAVER VALLEY

JOINT FREQUENCY DISTRIBUTION TABLES

FOR

BATCH RELEASES

THIRD QUARTER 1982

VERSION: ep

SITE IDENTIFIER: CLAV2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

... THIRD QUARTER 1982 ...

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WING 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) CALC | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|------------------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 0.76-3.50 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 3.51-7.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 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 | 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 |
| 24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 DEGT

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

[illegible]

PROGRAM: JFC VERSION: 5P

REAPER VALLEY JFD - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: CL8V2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

... THIRD QUARTER 1982 ...

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 375.0 FEET

WING MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

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

| SPEED | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | NNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 0-76-3.50 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |

STABILITY CLASS D

STABILITY BASED ON: DELTA Y 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

[illegible]

TIME OF DAY:

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: DL9V2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

... THIRD QUARTER 1992 ...

STABILITY CLASS E

STABILITY BASED ON: DELTA Y BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

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

| SPEED (VOLT) | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-----------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 0.76-3.53 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 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

[illegible]

TIME OF DAY: 20:27:49

PROGRAM: JFC

VERSION: 5P

BEAVER VALLEY JFO - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 |
|----------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 0.76- 3.50 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 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 | 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 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |

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 |
|----------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 0.76- 3.50 | 7 | 2 | 2 | 0 | 1 | 1 | 10 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 32 |
| 3.51- 7.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 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 |
| 24.01- 28.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 7 | 2 | 2 | 0 | 1 | 1 | 10 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 34 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL HATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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: 34

TOTAL NUMBER OF VALID OBSERVATIONS: 34

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 2.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A | B | C | D | E | F | G |
|-------|------|------|-------|-------|------|-------|
| 26.47 | 5.88 | 5.88 | 20.59 | 14.71 | 5.88 | 20.59 |

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 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| B | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| D | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| F | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 7 | 2 | 2 | 0 | 1 | 1 | 10 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFO - ELEVATED BATCH RELEASE

SITE IDENTIFIER: DLB02

DATA PERIOD EXAMINED: 7/ 1/R2 - 9/30/82

*** THIRD QUARTER 1982 ***

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 |
|----------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 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 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| 12.51-18.50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| TOTAL | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 12 |

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 |
|----------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 0.76- 3.50 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 1 | 5 | 1 | 1 | 0 | 2 | 17 |
| 3.51- 7.50 | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 4 | 11 | 6 | 2 | 2 | 0 | 0 | 0 | 0 | 31 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 15 | 16 | 2 | 0 | 0 | 0 | 0 | 37 |
| 12.51-18.50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 1 | 0 | 0 | 0 | 0 | 16 |
| 18.51-24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 1 | 1 | 2 | 0 | 0 | 2 | 5 | 7 | 13 | 26 | 30 | 10 | 1 | 1 | 0 | 2 | 101 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DL9V2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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 | | | | | | | | | | | | | | | | | 0 |
| 0.76- 3.50 | 1 | 2 | 1 | 2 | 2 | 5 | 4 | 0 | 2 | 2 | 4 | 0 | 0 | 1 | 0 | 0 | 26 |
| 3.51- 7.50 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 8 | 5 | 1 | 8 | 3 | 0 | 0 | 0 | 32 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 4 | 12 | 3 | 0 | 0 | 1 | 0 | 28 |
| 12.51-18.50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 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 | 3 | 2 | 1 | 2 | 2 | 6 | 7 | 4 | 14 | 13 | 18 | 11 | 3 | 1 | 1 | 0 | 90 |

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 | | | | | | | | | | | | | | | | | 1 |
| 0.76- 3.50 | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 2 | 5 | 3 | 1 | 2 | 1 | 0 | 27 |
| 3.51- 7.50 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 11 |
| 7.51-12.50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 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 | 2 | 2 | 2 | 1 | 3 | 2 | 9 | 6 | 7 | 5 | 3 | 1 | 3 | 2 | 0 | 51 |

PROGRAM: JFC VERSION: 5P

REARER VALLEY JFO - ELEVATED BATCH RELEASE

SITE IDENTIFIER: DLHV2

DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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) CALC | 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 | 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 |
| 24.01-30.00 | 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 | 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: 0.75 MPH

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

| SPEED (MPH) CALC | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|------------------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 0.75- 3.50 | 1 | 3 | 4 | 4 | 3 | 9 | 6 | 4 | 3 | 6 | 10 | 8 | 2 | 4 | 1 | 2 | 70 |
| 3.51- 7.50 | 0 | 2 | 1 | 0 | 0 | 2 | 8 | 12 | 24 | 13 | 3 | 10 | 3 | 1 | 1 | 0 | 80 |
| 7.51-12.50 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 12 | 25 | 30 | 5 | 0 | 0 | 1 | 0 | 87 |
| 12.51-18.50 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 14 | 1 | 0 | 0 | 0 | 0 | 24 |
| 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 | 7 | 5 | 5 | 4 | 3 | 11 | 15 | 23 | 39 | 49 | 57 | 24 | 5 | 5 | 3 | 2 | 254 |

PROGRAM: JFC VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 7/ 1/82 - 9/30/82

*** THIRD QUARTER 1982 ***

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: 258

TOTAL NUMBER OF VALID OBSERVATIONS: 258

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 7.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A | B | C | D | E | F | G |
|------|------|------|-------|-------|-------|------|
| 0.00 | 1.16 | 5.81 | 39.15 | 34.11 | 19.77 | 0.00 |

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 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| D | 1 | 1 | 2 | 0 | 0 | 2 | 5 | 7 | 13 | 26 | 30 | 10 | 1 | 1 | 0 | 2 | 0 |
| E | 3 | 2 | 1 | 2 | 2 | 6 | 7 | 4 | 14 | 13 | 18 | 11 | 3 | 1 | 1 | 0 | 0 |
| F | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 9 | 6 | 7 | 5 | 3 | 1 | 3 | 2 | 0 | 1 |
| G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 7 | 5 | 5 | 4 | 3 | 11 | 15 | 23 | 39 | 49 | 57 | 24 | 5 | 5 | 3 | 2 | 1 |

BEAVER VALLEY

LISTINGS OF METEOROLOGICAL DATA

FOR

PERIODS OF GASEOUS EFFLUENT RELEASES

AT

THE 150-FT LEVEL

(GROUND-LEVEL)

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA
150FT-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(DEV) | (MPH) | (DEG) | SC(DEV) | (MPH) | (DEG) | SC(DEV) | (F) | (F) | (F) | SC (F) | SC(IN) |
| 82 | 7 | 4 | 11 | 2.0 | 340 | 99.9 - | 2.0 | 330 | 99.9 - | 2.0 | 340 | 99.9 - | 71.5 | 63.5 | -1.0 C | -2.9 D | 9.99 |
| 82 | 7 | 4 | 12 | 3.0 | 340 | 99.9 - | 3.0 | 330 | 99.9 - | 2.5 | 35 | 99.9 - | 73.0 | 63.5 | -1.4 A | -3.2 D | 9.99 |
| 82 | 7 | 4 | 13 | 3.0 | 290 | 99.9 - | 3.0 | 330 | 99.9 - | 1.5 | 10 | 99.9 - | 999.9 | 999.9 | -1.3 A | 999.9 - | 9.99 |
| 82 | 7 | 4 | 14 | 3.5 | 25 | 99.9 - | 4.5 | 60 | 99.9 - | 3.0 | 65 | 99.9 - | 77.0 | 999.9 | -1.9 A | -4.1 C | 9.99 |
| 82 | 7 | 4 | 15 | 3.5 | 5 | 99.9 - | 5.0 | 30 | 99.9 - | 4.0 | 25 | 99.9 - | 78.0 | 999.9 | -1.9 A | -4.1 C | 9.99 |
| 82 | 8 | 29 | 2 | 2.1 | 142 | 27.9 A | 3.2 | 207 | 14.2 C | 2.7 | 302 | 31.0 A | 41.0 | 40.9 | 3.3 G | 5.7 F | 0.00 |
| 82 | 8 | 29 | 3 | 1.8 | 144 | 28.7 A | 2.7 | 160 | 24.3 A | 2.2 | 324 | 42.4 A | 41.3 | 41.1 | 1.8 F | 3.7 E | 0.00 |
| 82 | 8 | 29 | 4 | 2.0 | 151 | 23.5 A | 2.5 | 132 | 32.5 A | 2.8 | 340 | 21.3 B | 41.9 | 41.9 | 0.0 E | 1.3 E | 0.00 |
| 82 | 8 | 29 | 5 | 1.7 | 157 | 28.7 A | 2.5 | 128 | 17.4 C | 2.9 | 250 | 19.7 B | 41.0 | 41.0 | 0.4 E | 0.7 E | 0.00 |
| 82 | 8 | 29 | 6 | 2.1 | 185 | 28.2 A | 1.6 | 265 | 64.2 A | 2.9 | 310 | 19.2 B | 41.4 | 41.4 | 0.5 E | -0.5 E | 0.00 |
| 82 | 8 | 29 | 7 | 1.9 | 305 | 53.9 A | 2.0 | 46 | 51.4 A | 2.2 | 345 | 42.7 A | 42.5 | 42.5 | -0.3 E | -1.4 D | 0.00 |
| 82 | 8 | 29 | 8 | 2.5 | 355 | 99.9 - | 99.9 | 999 | 99.9 - | 99.9 | 999 | 99.9 - | 999.9 | 999.9 | -0.2 E | 999.9 - | 99.99 |
| 82 | 8 | 29 | 9 | 3.1 | 358 | 22.6 A | 3.2 | 28 | 23.5 A | 3.7 | 89 | 14.1 C | 51.4 | 44.2 | -0.6 D | -1.0 E | 0.00 |
| 82 | 8 | 29 | 10 | 3.2 | 113 | 67.0 A | 4.9 | 110 | 25.4 A | 5.7 | 93 | 18.1 B | 59.4 | 35.1 | -1.1 B | -3.8 D | 0.00 |
| 82 | 8 | 29 | 11 | 3.0 | 50 | 69.3 A | 4.5 | 106 | 47.2 A | 4.8 | 100 | 13.6 A | 62.8 | 35.7 | -1.1 B | -4.2 C | 0.00 |
| 82 | 8 | 29 | 12 | 3.2 | 94 | 74.7 A | 4.5 | 102 | 34.6 A | 5.4 | 103 | 21.9 B | 66.1 | 33.8 | -1.3 A | -4.4 B | 0.00 |
| 82 | 8 | 29 | 13 | 3.6 | 160 | 55.5 A | 5.0 | 140 | 30.3 A | 5.1 | 133 | 23.5 A | 68.2 | 34.6 | -1.4 A | -4.4 B | 0.00 |
| 82 | 8 | 29 | 14 | 2.3 | 163 | 61.9 A | 4.3 | 142 | 34.8 A | 4.8 | 144 | 27.3 A | 69.2 | 34.9 | -1.5 A | -4.3 C | 0.00 |
| 82 | 8 | 29 | 15 | 3.1 | 143 | 79.7 A | 4.6 | 128 | 40.3 A | 5.4 | 129 | 27.5 A | 70.7 | 34.5 | -1.7 A | -4.6 B | 0.00 |
| 82 | 8 | 29 | 16 | 3.0 | 148 | 57.2 A | 4.5 | 134 | 34.6 A | 5.5 | 137 | 28.3 A | 72.0 | 31.8 | -1.6 A | -4.5 B | 0.00 |
| 82 | 8 | 29 | 17 | 2.1 | 139 | 43.7 A | 5.0 | 152 | 14.4 C | 6.3 | 152 | 11.4 D | 70.3 | 34.8 | -1.0 C | -3.0 D | 0.00 |
| 82 | 8 | 29 | 18 | 1.5 | 132 | 16.5 C | 4.1 | 162 | 11.3 D | 8.7 | 158 | 4.0 E | 65.3 | 46.3 | 2.4 F | 1.5 E | 0.00 |
| 82 | 8 | 29 | 19 | 1.4 | 136 | 20.0 B | 3.6 | 85 | 28.9 A | 8.2 | 153 | 4.5 E | 61.1 | 47.2 | 4.0 G | 5.3 F | 0.00 |
| 82 | 8 | 29 | 20 | 1.7 | 142 | 46.1 A | 3.2 | 57 | 22.6 A | 5.5 | 107 | 11.9 D | 58.7 | 47.3 | 3.4 G | 5.4 F | 0.01 |
| 82 | 8 | 29 | 21 | 1.7 | 149 | 35.9 A | 1.9 | 89 | 23.6 A | 3.9 | 91 | 7.4 E | 57.8 | 46.9 | 3.3 G | 5.3 F | 0.00 |
| 82 | 8 | 29 | 22 | 1.4 | 127 | 19.3 B | 2.2 | 62 | 16.6 C | 4.2 | 110 | 9.3 D | 57.3 | 47.7 | 2.6 G | 4.5 F | 0.00 |
| 82 | 8 | 29 | 23 | 1.5 | 145 | 14.5 C | 2.1 | 64 | 24.5 A | 3.7 | 89 | 11.6 D | 56.9 | 49.1 | 2.8 G | 4.1 F | 0.00 |
| 82 | 8 | 29 | 24 | 1.5 | 138 | 13.1 C | 2.0 | 102 | 23.8 A | 4.5 | 122 | 9.3 D | 55.5 | 48.6 | 3.4 G | 5.0 F | 0.00 |
| 82 | 9 | 8 | 1 | 1.5 | 45 | 99.9 - | 3.5 | 5 | 99.9 - | 4.5 | 355 | 99.9 - | 58.5 | 56.0 | -0.7 D | -2.4 D | 0.00 |
| 82 | 9 | 8 | 2 | 3.5 | 355 | 99.9 - | 5.5 | 355 | 99.9 - | 5.5 | 345 | 99.9 - | 57.0 | 56.5 | -0.7 D | -2.3 D | 0.00 |
| 82 | 9 | 8 | 3 | 3.5 | 10 | 99.9 - | 7.0 | 5 | 99.9 - | 6.5 | 350 | 99.9 - | 56.5 | 55.0 | -0.8 D | -2.6 D | 0.00 |
| 82 | 9 | 8 | 4 | 3.5 | 15 | 99.9 - | 5.5 | 15 | 99.9 - | 7.0 | 360 | 99.9 - | 56.0 | 54.0 | -0.7 D | -2.5 D | 0.00 |
| 82 | 9 | 8 | 5 | 3.0 | 10 | 99.9 - | 6.0 | 20 | 99.9 - | 8.0 | 10 | 99.9 - | 56.0 | 53.5 | -0.7 D | -2.5 D | 0.00 |
| 82 | 9 | 8 | 6 | 3.0 | 5 | 99.9 - | 5.5 | 15 | 99.9 - | 6.5 | 15 | 99.9 - | 56.0 | 53.0 | -0.7 D | -2.4 D | 0.00 |

BEAVER VALLEY

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

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REVO

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

| | | | | WIND | WIND | STO | WIND | WIND | STO | WIND | WIND | STO | AMB. | DEW | DELTA T | | RAIN |
|----|----|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|------|
| | | | | SPEED | DIR | DEV | SPEED | DIR | DEV | SPEED | DIR | DEV | TEMP | POINT | 150-35 | 500-35 | FALL |
| YR | MO | DY | HR | (MPH) | (DEG) | (DEG) | (MPH) | (DEG) | (DEG) | (MPH) | (DEG) | (DEG) | (F) | (F) | (F) | (F) | (IN) |
| 82 | 7 | 5 | 24 | 2.5 | 65 | 99.9 | 3.5 | 55 | 99.9 | 8.0 | 145 | 99.9 | 69.0 | 999.9 | 0.5 E | -0.3 E | 9.99 |
| 82 | 7 | 6 | 1 | 2.0 | 65 | 99.9 | 3.5 | 60 | 99.9 | 7.0 | 150 | 99.9 | 67.0 | 999.9 | 999.9 | -0.5 E | 9.99 |
| 82 | 7 | 6 | 2 | 2.0 | 85 | 99.9 | 4.0 | 65 | 99.9 | 5.0 | 160 | 99.9 | 64.0 | 999.9 | 999.9 | -2.5 E | 9.99 |
| 82 | 7 | 6 | 3 | 2.0 | 75 | 99.9 | 4.0 | 60 | 99.9 | 5.5 | 170 | 99.9 | 63.0 | 999.9 | 999.9 | -2.5 E | 9.99 |
| 82 | 7 | 6 | 4 | 2.0 | 85 | 99.9 | 4.0 | 40 | 99.9 | 6.0 | 180 | 99.9 | 62.0 | 999.9 | 3.0 G | 2.3 E | 9.99 |
| 82 | 7 | 6 | 5 | 2.0 | 85 | 99.9 | 3.0 | 60 | 99.9 | 5.0 | 180 | 99.9 | 61.5 | 999.9 | 2.9 G | 2.3 E | 9.99 |
| 82 | 7 | 6 | 6 | 1.5 | 65 | 99.9 | 2.5 | 60 | 99.9 | 5.5 | 180 | 99.9 | 63.0 | 999.9 | 1.6 F | 1.4 E | 9.99 |
| 82 | 7 | 6 | 7 | 2.5 | 25 | 99.9 | 3.0 | 70 | 99.9 | 5.5 | 185 | 99.9 | 66.0 | 999.9 | 0.0 E | -1.2 E | 9.99 |
| 82 | 7 | 6 | 8 | 3.5 | 205 | 99.9 | 4.5 | 190 | 99.9 | 7.0 | 195 | 99.9 | 70.0 | 999.9 | -0.8 D | -3.0 D | 9.99 |
| 82 | 7 | 6 | 9 | 4.5 | 205 | 99.9 | 6.5 | 180 | 99.9 | 7.0 | 190 | 99.9 | 74.5 | 999.9 | -1.2 A | -3.5 D | 9.99 |
| 82 | 7 | 6 | 10 | 4.0 | 185 | 99.9 | 6.0 | 160 | 99.9 | 6.0 | 175 | 99.9 | 77.0 | 999.9 | -1.6 A | -3.9 C | 9.99 |
| 82 | 7 | 6 | 11 | 3.0 | 185 | 99.9 | 5.5 | 160 | 99.9 | 6.0 | 170 | 99.9 | 81.0 | 999.9 | -1.8 A | -4.4 B | 9.99 |
| 82 | 7 | 6 | 12 | 4.5 | 165 | 99.9 | 8.0 | 150 | 99.9 | 8.0 | 150 | 99.9 | 82.5 | 999.9 | -2.0 A | -4.4 H | 9.99 |
| 82 | 7 | 6 | 13 | 5.0 | 195 | 99.9 | 7.5 | 175 | 99.9 | 7.5 | 175 | 99.9 | 83.5 | 999.9 | -1.7 A | -4.1 C | 9.99 |
| 82 | 7 | 6 | 14 | 5.5 | 195 | 99.9 | 8.0 | 170 | 99.9 | 8.5 | 175 | 99.9 | 999.9 | 999.9 | -1.9 A | -4.2 C | 9.99 |
| 82 | 7 | 6 | 15 | 5.5 | 195 | 99.9 | 7.5 | 180 | 99.9 | 8.5 | 180 | 99.9 | 999.9 | 999.9 | -1.7 A | -3.9 C | 9.99 |
| 82 | 7 | 6 | 16 | 4.5 | 195 | 99.9 | 6.5 | 195 | 99.9 | 7.5 | 190 | 99.9 | 999.9 | 999.9 | -1.5 A | -3.8 D | 9.99 |
| 82 | 7 | 6 | 17 | 4.0 | 185 | 99.9 | 6.5 | 180 | 99.9 | 8.5 | 190 | 99.9 | 999.9 | 999.9 | -1.2 A | -3.0 D | 9.99 |
| 82 | 7 | 6 | 18 | 3.0 | 185 | 99.9 | 5.0 | 170 | 99.9 | 7.5 | 175 | 99.9 | 999.9 | 999.9 | -1.1 B | -2.9 D | 9.99 |
| 82 | 7 | 6 | 19 | 2.0 | 175 | 99.9 | 5.0 | 165 | 99.9 | 10.5 | 175 | 99.9 | 82.0 | 999.9 | 0.6 E | -0.2 E | 9.99 |
| 82 | 7 | 6 | 20 | 2.5 | 165 | 99.9 | 4.5 | 180 | 99.9 | 12.5 | 190 | 99.9 | 76.0 | 999.9 | 4.2 G | 4.8 F | 9.99 |
| 82 | 7 | 6 | 21 | 2.5 | 165 | 99.9 | 5.5 | 200 | 99.9 | 12.0 | 190 | 99.9 | 72.5 | 999.9 | 5.5 G | 6.5 F | 9.99 |
| 82 | 7 | 6 | 22 | 3.0 | 175 | 99.9 | 6.0 | 190 | 99.9 | 12.0 | 200 | 99.9 | 72.5 | 999.9 | 4.7 G | 5.4 F | 9.99 |
| 82 | 7 | 6 | 23 | 2.5 | 185 | 99.9 | 6.5 | 195 | 99.9 | 12.0 | 205 | 99.9 | 71.0 | 999.9 | 5.2 G | 6.0 F | 9.99 |
| 82 | 7 | 6 | 24 | 3.0 | 195 | 99.9 | 6.5 | 190 | 99.9 | 10.0 | 195 | 99.9 | 73.5 | 999.9 | 999.9 | -2.1 E | 9.99 |
| 82 | 7 | 7 | 1 | 2.0 | 95 | 99.9 | 2.0 | 10 | 99.9 | 8.0 | 170 | 99.9 | 69.5 | 999.9 | 2.6 G | 2.9 E | 9.99 |
| 82 | 7 | 7 | 2 | 2.0 | 55 | 99.9 | 3.0 | 195 | 99.9 | 9.5 | 180 | 99.9 | 68.5 | 999.9 | 2.7 G | 3.3 E | 9.99 |
| 82 | 7 | 7 | 3 | 2.0 | 65 | 99.9 | 3.5 | 205 | 99.9 | 12.0 | 200 | 99.9 | 68.0 | 999.9 | 3.0 G | 4.1 F | 9.99 |
| 82 | 7 | 7 | 4 | 2.0 | 65 | 99.9 | 4.0 | 230 | 99.9 | 10.0 | 215 | 99.9 | 68.0 | 999.9 | 3.2 G | 3.6 E | 9.99 |
| 82 | 7 | 7 | 5 | 1.5 | 70 | 99.9 | 1.5 | 270 | 99.9 | 8.0 | 220 | 99.9 | 67.5 | 999.9 | 3.2 G | 3.8 E | 9.99 |
| 82 | 7 | 7 | 6 | 2.0 | 55 | 99.9 | 2.0 | 220 | 99.9 | 7.5 | 205 | 99.9 | 68.5 | 999.9 | 2.9 G | 2.7 E | 9.99 |
| 82 | 7 | 7 | 7 | 1.5 | 245 | 99.9 | 3.5 | 230 | 99.9 | 8.0 | 215 | 99.9 | 72.5 | 999.9 | 0.8 E | -0.6 E | 9.99 |
| 82 | 7 | 7 | 8 | 5.0 | 240 | 99.9 | 7.0 | 235 | 99.9 | 8.5 | 220 | 99.9 | 77.0 | 999.9 | -0.9 D | -2.9 D | 9.99 |
| 82 | 7 | 7 | 9 | 5.5 | 210 | 99.9 | 7.5 | 220 | 99.9 | 8.5 | 215 | 99.9 | 80.0 | 999.9 | -1.2 A | -3.3 D | 9.99 |
| 82 | 7 | 7 | 10 | 5.5 | 200 | 99.9 | 8.0 | 210 | 99.9 | 8.5 | 210 | 99.9 | 81.5 | 999.9 | -1.4 A | -3.6 D | 9.99 |
| 82 | 7 | 7 | 11 | 6.0 | 210 | 99.9 | 8.5 | 210 | 99.9 | 9.5 | 215 | 99.9 | 84.0 | 999.9 | -1.7 A | -3.9 C | 9.99 |
| 82 | 7 | 7 | 12 | 7.5 | 220 | 99.9 | 9.5 | 215 | 99.9 | 10.0 | 220 | 99.9 | 85.5 | 999.9 | -1.5 A | -3.6 D | 9.99 |
| 82 | 7 | 7 | 13 | 8.5 | 220 | 99.9 | 10.5 | 215 | 99.9 | 12.5 | 215 | 99.9 | 86.5 | 999.9 | -1.5 A | -3.9 C | 9.99 |
| 82 | 7 | 7 | 14 | 5.0 | 210 | 99.9 | 8.0 | 210 | 99.9 | 11.0 | 225 | 99.9 | 72.0 | 69.0 | 0.0 E | -0.9 E | 0.12 |
| 82 | 7 | 7 | 15 | 2.5 | 180 | 99.9 | 6.5 | 230 | 99.9 | 12.0 | 225 | 99.9 | 71.0 | 69.5 | 0.3 E | 0.9 E | 0.00 |
| 82 | 7 | 7 | 16 | 3.0 | 180 | 99.9 | 5.5 | 230 | 99.9 | 10.5 | 230 | 99.9 | 71.0 | 68.5 | 1.0 F | 0.9 E | 0.00 |
| 82 | 7 | 7 | 17 | 2.5 | 180 | 99.9 | 4.0 | 250 | 99.9 | 8.0 | 240 | 99.9 | 70.0 | 69.0 | 1.5 F | 0.3 E | 0.00 |
| 82 | 7 | 7 | 18 | 2.5 | 170 | 99.9 | 4.5 | 235 | 99.9 | 7.0 | 245 | 99.9 | 69.5 | 69.0 | 1.8 F | 0.8 E | 0.00 |
| 82 | 7 | 7 | 19 | 2.0 | 170 | 99.9 | 3.5 | 230 | 99.9 | 6.0 | 240 | 99.9 | 69.0 | 68.0 | 2.0 F | 1.1 E | 0.00 |
| 82 | 7 | 7 | 20 | 2.0 | 150 | 99.9 | 2.5 | 220 | 99.9 | 4.5 | 245 | 99.9 | 68.5 | 69.0 | 2.2 F | 0.9 E | 0.00 |
| 82 | 7 | 7 | 21 | 1.5 | 140 | 99.9 | 2.5 | 230 | 99.9 | 5.0 | 245 | 99.9 | 68.0 | 67.5 | 2.2 F | 0.9 E | 0.00 |
| 82 | 7 | 7 | 22 | 1.5 | 150 | 99.9 | 3.0 | 215 | 99.9 | 5.5 | 250 | 99.9 | 67.5 | 67.5 | 2.5 F | 1.7 E | 0.00 |
| 82 | 7 | 7 | 23 | 2.0 | 175 | 99.9 | 4.0 | 220 | 99.9 | 6.0 | 245 | 99.9 | 67.0 | 67.0 | 2.8 G | 2.0 E | 0.00 |

TIME OF DAY: 21:03:52

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 |
|----|----|-----|----|-------|-------|--------|-------|-------|--------|-------|-------|--------|------|-------|---------|---------|------|
| YR | MO | DAY | HR | SPEED | DIR | DEV | SPEED | DIR | DEV | SPEED | DIR | DEV | TEMP | POINT | DELTA T | DELTA T | FALL |
| | | | | (MPH) | (DEG) | (SC) | (MPH) | (DEG) | (SC) | (MPH) | (DEG) | (SC) | (F) | (F) | 150-35 | 500-35 | (IN) |
| 82 | 7 | 8 | 3 | 1.5 | 150 | 99.9 - | 3.5 | 220 | 99.9 - | 6.5 | 240 | 99.9 - | 67.0 | 66.5 | 2.2 F | 1.4 E | 0.00 |
| 82 | 7 | 8 | 4 | 1.5 | 155 | 99.9 - | 3.5 | 220 | 99.9 - | 6.5 | 260 | 99.9 - | 67.0 | 67.0 | 1.8 F | 1.4 E | 0.00 |
| 82 | 7 | 8 | 5 | 2.0 | 170 | 99.9 - | 3.5 | 235 | 99.9 - | 5.5 | 260 | 99.9 - | 68.0 | 67.5 | 0.9 E | 0.3 E | 0.00 |
| 82 | 7 | 8 | 6 | 1.5 | 160 | 99.9 - | 3.0 | 230 | 99.9 - | 6.0 | 270 | 99.9 - | 67.5 | 67.0 | 0.4 E | 0.0 E | 0.00 |
| 82 | 7 | 8 | 7 | 1.5 | 220 | 99.9 - | 3.0 | 220 | 99.9 - | 3.5 | 235 | 99.9 - | 70.0 | 68.5 | -0.5 D | 1.5 E | 0.00 |
| 82 | 7 | 8 | 8 | 1.5 | 300 | 99.9 - | 2.0 | 260 | 99.9 - | 2.5 | 240 | 99.9 - | 73.5 | 69.0 | -0.4 D | -2.6 D | 0.00 |
| 82 | 7 | 11 | 8 | 4.5 | 200 | 99.9 - | 7.5 | 190 | 99.9 - | 10.5 | 195 | 99.9 - | 74.0 | 69.5 | -0.8 D | -1.5 D | 0.00 |
| 82 | 7 | 11 | 9 | 6.0 | 215 | 99.9 - | 9.0 | 210 | 99.9 - | 12.5 | 210 | 99.9 - | 75.0 | 68.5 | -0.7 D | -2.6 D | 0.00 |
| 82 | 7 | 11 | 10 | 7.0 | 215 | 99.9 - | 9.5 | 210 | 99.9 - | 12.5 | 210 | 99.9 - | 76.5 | 68.0 | -1.0 C | -3.2 D | 0.00 |
| 82 | 7 | 11 | 11 | 7.0 | 215 | 99.9 - | 10.0 | 210 | 99.9 - | 13.0 | 205 | 99.9 - | 78.5 | 67.5 | -1.1 B | -3.3 D | 0.00 |
| 82 | 7 | 11 | 12 | 8.0 | 215 | 99.9 - | 11.5 | 210 | 99.9 - | 13.5 | 210 | 99.9 - | 79.5 | 67.5 | -1.1 B | -3.4 D | 0.00 |
| 82 | 7 | 11 | 13 | 8.5 | 230 | 99.9 - | 10.5 | 225 | 99.9 - | 13.0 | 220 | 99.9 - | 80.5 | 67.5 | -1.3 A | -3.8 D | 0.00 |
| 82 | 7 | 11 | 14 | 9.0 | 225 | 99.9 - | 12.0 | 230 | 99.9 - | 13.5 | 220 | 99.9 - | 81.5 | 68.0 | -1.4 A | -3.9 C | 0.00 |
| 82 | 7 | 11 | 15 | 10.0 | 215 | 99.9 - | 14.0 | 210 | 99.9 - | 15.0 | 220 | 99.9 - | 82.0 | 67.0 | -1.7 A | -4.1 C | 0.00 |
| 82 | 7 | 11 | 16 | 9.5 | 215 | 99.9 - | 12.0 | 215 | 99.9 - | 13.5 | 220 | 99.9 - | 82.0 | 66.5 | -1.4 A | -3.8 D | 0.00 |
| 82 | 7 | 11 | 17 | 7.5 | 215 | 99.9 - | 10.5 | 210 | 99.9 - | 13.5 | 215 | 99.9 - | 82.0 | 67.0 | -1.3 A | -3.6 D | 0.00 |
| 82 | 7 | 11 | 18 | 6.5 | 215 | 99.9 - | 9.0 | 210 | 99.9 - | 12.5 | 215 | 99.9 - | 81.0 | 66.5 | -0.9 D | -2.9 D | 0.00 |
| 82 | 7 | 11 | 19 | 5.0 | 200 | 99.9 - | 8.0 | 210 | 99.9 - | 12.0 | 215 | 99.9 - | 79.5 | 67.5 | -0.6 D | -2.3 D | 0.00 |
| 82 | 7 | 11 | 20 | 4.0 | 180 | 99.9 - | 7.0 | 235 | 99.9 - | 12.0 | 220 | 99.9 - | 75.5 | 67.5 | 1.5 F | 2.8 E | 0.00 |
| 82 | 7 | 11 | 21 | 3.0 | 185 | 99.9 - | 8.0 | 150 | 99.9 - | 12.5 | 210 | 99.9 - | 72.0 | 67.5 | 2.7 G | 2.3 E | 0.00 |
| 82 | 7 | 11 | 22 | 4.0 | 185 | 99.9 - | 8.5 | 185 | 99.9 - | 14.0 | 225 | 99.9 - | 71.0 | 67.5 | 2.4 F | 2.6 E | 0.00 |
| 82 | 7 | 11 | 23 | 3.5 | 180 | 99.9 - | 6.5 | 230 | 99.9 - | 10.5 | 255 | 99.9 - | 71.5 | 67.5 | 1.2 F | 0.5 E | 0.00 |
| 82 | 8 | 28 | 17 | 6.1 | 8 | 28.1 A | 12.0 | 18 | 13.9 C | 15.1 | 6 | 10.1 D | 65.5 | 39.3 | -1.8 A | -3.9 C | 0.00 |
| 82 | 8 | 28 | 18 | 4.5 | 5 | 33.6 A | 9.6 | 12 | 11.3 D | 12.9 | 359 | 9.6 D | 63.2 | 39.3 | -1.2 A | -3.1 D | 0.00 |
| 82 | 8 | 28 | 19 | 2.5 | 336 | 19.4 B | 6.6 | 356 | | 14.4 | 1 | 2.3 F | 59.1 | 41.2 | 0.4 E | -0.3 E | 0.00 |
| 82 | 8 | 28 | 20 | 1.9 | 8 | 29.9 A | 5.7 | 10 | 1.7 C | 17.0 | 6 | 1.9 G | 55.7 | 43.0 | 1.5 F | 2.7 E | 0.00 |
| 82 | 8 | 28 | 21 | 1.7 | 141 | 39.3 A | 1.9 | 311 | 45.6 A | 11.6 | 2 | 4.8 E | 48.6 | 43.7 | 3.5 G | 7.2 F | 0.00 |
| 82 | 8 | 28 | 22 | 1.5 | 130 | 32.1 A | 2.0 | 143 | 50.4 A | 9.5 | 11 | 9.8 D | 47.1 | 43.4 | 4.5 G | 6.3 F | 0.00 |
| 82 | 8 | 28 | 23 | 1.4 | 148 | 34.1 A | 2.6 | 242 | 39.0 A | 5.2 | 17 | 28.9 A | 45.1 | 43.1 | 4.0 G | 6.7 F | 0.00 |
| 82 | 8 | 28 | 24 | 1.7 | 133 | 28.7 A | 2.9 | 197 | 13.7 C | 3.9 | 322 | 26.3 A | 43.2 | 42.5 | 4.0 G | 6.8 F | 0.00 |
| 82 | 8 | 29 | 1 | 2.3 | 145 | 17.4 C | 3.0 | 200 | 16.0 C | 4.1 | 282 | 12.4 D | 42.0 | 42.0 | 3.4 G | 5.1 F | 0.00 |
| 82 | 8 | 29 | 2 | 2.1 | 142 | 27.9 A | 3.2 | 207 | 14.2 C | 2.7 | 302 | 31.0 A | 41.0 | 40.9 | 3.3 G | 5.7 F | 0.00 |
| 82 | 8 | 30 | 1 | 1.3 | 107 | 43.7 A | 2.2 | 254 | 59.9 A | 6.7 | 165 | 12.0 D | 55.5 | 47.6 | 3.0 G | 4.7 F | 0.00 |
| 82 | 8 | 30 | 2 | 1.4 | 116 | 18.0 B | 2.0 | 47 | 22.2 B | 2.6 | 163 | 18.4 B | 55.1 | 48.1 | 2.8 G | 4.2 F | 0.00 |
| 82 | 8 | 30 | 3 | 1.3 | 121 | 16.5 C | 1.7 | 106 | 32.7 A | 2.2 | 200 | 21.7 B | 55.2 | 49.7 | 2.6 G | 3.7 E | 0.00 |
| 82 | 8 | 30 | 4 | 1.2 | 127 | 9.5 D | 2.6 | 89 | 21.6 B | 2.9 | 78 | 9.9 D | 55.0 | 49.0 | 2.4 F | 3.2 E | 0.00 |
| 82 | 8 | 30 | 5 | 1.5 | 106 | 26.3 A | 2.5 | 89 | 26.2 A | 2.9 | 173 | 18.2 B | 54.8 | 49.1 | 2.2 F | 4.3 F | 0.00 |
| 82 | 8 | 30 | 6 | 1.5 | 106 | 12.5 C | 2.9 | 75 | 13.4 C | 2.5 | 128 | 23.7 A | 54.3 | 50.1 | 2.6 G | 3.7 E | 0.00 |
| 82 | 8 | 30 | 7 | 1.4 | 140 | 21.0 B | 1.8 | 145 | 24.7 A | 4.7 | 171 | 8.0 D | 56.0 | 49.6 | 1.3 F | 1.7 E | 0.00 |
| 82 | 8 | 30 | 8 | 1.8 | 31 | 27.8 A | 1.9 | 74 | 41.5 A | 4.7 | 193 | 7.8 D | 59.5 | 49.6 | -0.1 E | -1.2 E | 0.00 |
| 82 | 8 | 30 | 9 | 2.0 | 349 | 27.1 A | 2.3 | 3 | 30.9 A | 2.7 | 224 | 28.6 A | 64.2 | 52.4 | -0.4 D | -2.5 D | 0.00 |
| 82 | 8 | 30 | 10 | 3.7 | 1 | 13.6 C | 4.2 | 21 | 11.5 D | 2.9 | 56 | 21.4 B | 66.9 | 54.6 | -0.5 D | -1.6 D | 0.00 |
| 82 | 8 | 30 | 11 | 4.0 | 295 | 99.9 - | 5.5 | 180 | 99.9 - | 5.5 | 170 | 99.9 - | 70.5 | 56.0 | -0.7 D | -1.4 D | 0.00 |
| 82 | 8 | 30 | 12 | 5.0 | 200 | 99.9 - | 6.5 | 205 | 99.9 - | 7.0 | 195 | 99.9 - | 74.0 | 58.5 | -1.1 B | -4.5 B | 0.00 |
| 82 | 8 | 30 | 15 | 8.7 | 224 | 21.7 B | 11.1 | 219 | 19.1 B | 13.6 | 214 | 13.0 C | 80.0 | 64.6 | -1.5 A | -3.7 D | 0.00 |
| 82 | 8 | 30 | 16 | 9.0 | 227 | 21.1 B | 11.5 | 222 | 19.4 B | 13.7 | 217 | 14.2 C | 78.6 | 65.4 | -1.4 A | -3.3 D | 0.00 |
| 82 | 8 | 30 | 17 | 7.8 | 235 | 18.1 B | 9.9 | 238 | 16.3 C | 12.8 | 232 | 10.3 D | 75.8 | 65.9 | -0.9 D | -2.8 D | 0.00 |
| 82 | 8 | 30 | 19 | 5.9 | 239 | 15.2 C | 7.3 | 239 | 15.0 C | 9.1 | 224 | 12.3 D | 74.2 | 66.1 | -0.8 D | -2.6 D | 0.00 |

TIME OF DAY: 21:03:52

500FT-LEVEL RATCH REVO

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

| YR | MO | DY | HR | WIND | | STD | | WIND | | STD | | WIND | | STD | | AMR. | | DEW | | DELTA T | | DELTA T | | RAIN |
|----|----|----|----|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|------|-------|------|-----|---------|-----|---------|------|------|
| | | | | SPEED | DIR | DEV | SC | SPEED | DIR | DEV | SC | SPEED | DIR | DEV | SC | TEMP | POINT | 35F | 35F | 150-35 | T | 500-35 | T | |
| | | | | (MPH) | (DEG) | (DEG) | (SC) | (MPH) | (DEG) | (DEG) | (SC) | (MPH) | (DEG) | (DEG) | (SC) | (F) | (F) | (F) | (F) | (F) | (F) | (F) | (IN) | |
| 82 | 8 | 30 | 19 | 4.9 | 210 | 17.3 | C | 7.3 | 210 | 11.3 | D | 10.3 | 211 | 8.8 | D | 73.2 | 65.8 | -0.6 | D | -2.3 | D | 0.00 | | |
| 82 | 8 | 30 | 20 | 3.2 | 195 | 20.2 | H | 5.8 | 195 | 11.0 | D | 10.0 | 196 | 5.0 | E | 72.1 | 65.6 | -0.3 | E | -1.9 | D | 0.00 | | |
| 82 | 8 | 30 | 21 | 3.9 | 203 | 17.1 | C | 6.5 | 196 | 9.5 | D | 11.6 | 198 | 4.8 | E | 71.6 | 65.6 | -0.5 | D | -1.9 | D | 0.00 | | |
| 82 | 8 | 30 | 22 | 3.6 | 205 | 17.1 | C | 5.7 | 216 | 11.1 | D | 10.8 | 210 | 6.9 | E | 71.4 | 65.9 | -0.3 | E | -1.8 | D | 0.00 | | |
| 82 | 8 | 30 | 23 | 3.5 | 196 | 14.0 | C | 6.2 | 210 | 8.4 | D | 10.7 | 216 | 6.9 | E | 71.2 | 66.6 | -0.2 | E | -1.6 | D | 0.00 | | |
| 82 | 8 | 30 | 24 | 2.8 | 186 | 15.7 | C | 5.5 | 203 | 7.6 | D | 9.3 | 219 | 7.5 | D | 70.3 | 66.8 | 0.2 | E | -1.1 | E | 0.00 | | |
| 82 | 8 | 31 | 1 | 2.5 | 181 | 15.8 | C | 6.0 | 191 | 6.4 | E | 9.2 | 211 | 5.6 | E | 68.8 | 66.6 | 0.8 | E | -0.3 | E | 0.00 | | |
| 82 | 8 | 31 | 2 | 1.6 | 146 | 12.6 | C | 3.2 | 178 | 9.5 | D | 6.8 | 202 | 4.7 | E | 67.4 | 65.7 | 0.8 | E | -0.3 | E | 0.00 | | |
| 82 | 8 | 31 | 3 | 1.0 | 120 | 14.2 | C | 1.4 | 164 | 20.0 | H | 6.7 | 189 | 4.7 | E | 64.8 | 64.8 | 1.8 | F | 1.3 | E | 0.00 | | |
| 82 | 8 | 31 | 4 | 1.1 | 85 | 24.3 | A | 2.4 | 90 | 35.6 | A | 7.9 | 202 | 4.1 | E | 65.4 | 65.2 | 1.1 | F | 1.4 | E | 0.00 | | |
| 82 | 8 | 31 | 5 | 1.1 | 102 | 14.2 | C | 2.3 | 40 | 12.1 | D | 3.1 | 173 | 14.0 | C | 65.6 | 65.4 | 1.3 | F | 0.6 | E | 0.00 | | |
| 82 | 8 | 31 | 6 | 1.2 | 115 | 37.2 | A | 2.1 | 169 | 20.5 | B | 7.4 | 192 | 5.2 | E | 66.3 | 65.7 | 0.8 | E | 0.8 | E | 0.00 | | |
| 82 | 8 | 31 | 7 | 1.6 | 29 | 39.7 | A | 1.9 | 79 | 40.0 | A | 4.5 | 176 | 13.1 | C | 68.2 | 66.5 | 0.2 | E | -0.9 | E | 0.00 | | |
| 82 | 8 | 31 | 8 | 1.9 | 13 | 20.8 | H | 2.2 | 19 | 40.2 | A | 2.1 | 113 | 62.1 | A | 70.5 | 66.9 | -0.3 | E | -2.4 | D | 0.00 | | |
| 82 | 8 | 31 | 11 | 2.5 | 150 | 99.9 | - | 3.0 | 75 | 99.9 | - | 2.0 | 140 | 99.9 | - | 74.5 | 66.0 | -0.8 | D | -3.2 | D | 0.00 | | |
| 82 | 8 | 31 | 12 | 3.0 | 245 | 99.9 | - | 4.0 | 230 | 99.9 | - | 4.0 | 165 | 99.9 | - | 74.5 | 66.5 | -0.9 | D | -3.2 | D | 0.00 | | |
| 82 | 8 | 31 | 13 | 4.4 | 186 | 36.7 | A | 8.2 | 165 | 11.5 | D | 8.5 | 164 | 11.1 | D | 77.1 | 68.1 | -1.6 | A | -3.7 | D | 0.00 | | |
| 82 | 8 | 31 | 14 | 3.8 | 180 | 35.5 | A | 6.2 | 162 | 17.0 | C | 6.4 | 155 | 12.1 | D | 76.2 | 68.4 | -1.4 | A | -3.4 | D | 0.00 | | |
| 82 | 8 | 31 | 15 | 2.3 | 167 | 60.1 | A | 5.8 | 146 | 12.8 | C | 6.0 | 142 | 10.1 | D | 77.4 | 68.2 | -1.8 | A | -3.8 | D | 0.00 | | |
| 82 | 8 | 31 | 16 | 2.1 | 184 | 34.8 | A | 6.4 | 161 | 14.0 | C | 7.2 | 161 | 9.5 | D | 76.7 | 68.7 | -1.4 | A | -3.3 | D | 0.00 | | |
| 82 | 8 | 31 | 17 | 3.9 | 206 | 15.6 | C | 5.4 | 193 | 11.5 | D | 5.8 | 178 | 12.0 | D | 76.4 | 68.5 | -1.0 | C | -3.0 | D | 0.00 | | |
| 82 | 8 | 31 | 18 | 2.9 | 192 | 16.7 | C | 5.0 | 195 | 10.2 | D | 6.4 | 201 | 8.8 | D | 75.4 | 68.8 | -0.6 | D | -2.4 | D | 0.00 | | |
| 82 | 8 | 31 | 19 | 2.5 | 193 | 22.8 | A | 5.1 | 198 | 11.7 | D | 8.9 | 201 | 5.7 | E | 73.6 | 68.9 | -0.2 | E | -1.8 | D | 0.00 | | |
| 82 | 8 | 31 | 20 | 1.4 | 131 | 25.7 | A | 2.0 | 209 | 25.3 | A | 4.6 | 218 | 12.1 | D | 71.5 | 68.8 | 0.5 | E | -1.1 | E | 0.00 | | |
| 82 | 8 | 31 | 21 | 2.1 | 162 | 21.3 | H | 3.6 | 209 | 13.0 | C | 4.6 | 237 | 12.3 | D | 69.9 | 68.5 | 1.2 | F | 0.0 | E | 0.00 | | |
| 82 | 9 | 31 | 22 | 1.1 | 146 | 25.0 | A | 1.8 | 179 | 36.5 | A | 1.7 | 229 | 18.0 | D | 69.8 | 68.4 | 0.7 | E | -0.2 | E | 0.00 | | |
| 82 | 8 | 31 | 23 | 1.1 | 176 | 17.7 | H | 1.4 | 215 | 27.6 | A | 3.7 | 162 | 7.8 | D | 69.7 | 68.3 | 0.3 | E | -1.5 | E | 0.00 | | |
| 82 | 8 | 31 | 24 | 1.8 | 154 | 18.0 | B | 2.9 | 221 | 13.1 | C | 5.0 | 201 | 14.1 | C | 69.8 | 68.5 | 0.1 | E | -1.2 | E | 0.00 | | |
| 82 | 9 | 1 | 1 | 2.0 | 179 | 19.7 | B | 3.8 | 214 | 11.0 | D | 6.2 | 214 | 9.9 | D | 69.9 | 68.3 | -0.1 | E | -1.5 | D | 0.00 | | |
| 82 | 9 | 1 | 2 | 1.5 | 126 | 19.3 | B | 2.7 | 178 | 11.9 | D | 3.4 | 203 | 11.3 | D | 69.8 | 68.4 | -0.1 | E | -1.8 | D | 0.00 | | |
| 82 | 9 | 1 | 3 | 1.5 | 175 | 15.7 | C | 2.8 | 185 | 10.0 | D | 4.0 | 203 | 7.4 | E | 69.5 | 68.4 | -0.1 | E | -1.7 | D | 0.00 | | |
| 82 | 9 | 1 | 4 | 1.5 | 140 | 99.9 | - | 2.5 | 190 | 99.9 | - | 3.5 | 220 | 99.9 | - | 68.0 | 67.0 | 0.3 | E | -1.5 | E | 0.00 | | |
| 82 | 9 | 1 | 5 | 1.5 | 140 | 99.9 | - | 3.0 | 180 | 99.9 | - | 3.0 | 220 | 99.9 | - | 67.5 | 67.0 | 0.5 | E | -1.0 | E | 0.00 | | |
| 82 | 9 | 1 | 6 | 1.5 | 150 | 99.9 | - | 3.5 | 165 | 99.9 | - | 4.5 | 200 | 99.9 | - | 67.5 | 67.5 | -0.4 | D | -1.3 | D | 0.00 | | |
| 82 | 9 | 1 | 7 | 2.5 | 180 | 99.9 | - | 4.0 | 165 | 99.9 | - | 5.5 | 185 | 99.9 | - | 68.5 | 67.5 | -0.8 | D | -1.9 | D | 0.00 | | |
| 82 | 9 | 1 | 8 | 3.0 | 190 | 99.9 | - | 4.0 | 180 | 99.9 | - | 6.0 | 180 | 99.9 | - | 69.5 | 67.5 | -0.9 | D | -1.7 | D | 0.00 | | |
| 82 | 9 | 1 | 9 | 4.0 | 210 | 99.9 | - | 5.5 | 195 | 99.9 | - | 6.5 | 205 | 99.9 | - | 71.5 | 68.0 | -0.9 | D | -1.9 | D | 0.00 | | |
| 82 | 9 | 1 | 10 | 3.5 | 205 | 99.9 | - | 5.0 | 190 | 99.9 | - | 5.5 | 190 | 99.9 | - | 74.5 | 68.5 | -1.0 | C | -1.3 | D | 0.00 | | |
| 82 | 9 | 1 | 11 | 5.5 | 205 | 99.9 | - | 8.0 | 200 | 99.9 | - | 9.0 | 200 | 99.9 | - | 76.0 | 999.9 | -1.6 | A | -3.9 | C | 0.00 | | |
| 82 | 9 | 1 | 12 | 7.0 | 210 | 99.9 | - | 10.0 | 205 | 99.9 | - | 11.0 | 205 | 99.9 | - | 77.0 | 999.9 | -1.6 | A | -3.8 | D | 0.00 | | |
| 82 | 9 | 1 | 13 | 7.5 | 205 | 99.9 | - | 9.5 | 205 | 99.9 | - | 11.5 | 205 | 99.9 | - | 77.0 | 999.9 | -1.3 | A | -3.5 | D | 0.00 | | |
| 82 | 9 | 1 | 14 | 6.5 | 210 | 99.9 | - | 9.0 | 210 | 99.9 | - | 12.0 | 205 | 99.9 | - | 77.0 | 999.9 | -1.1 | H | -3.2 | D | 0.00 | | |
| 82 | 9 | 1 | 15 | 6.5 | 220 | 99.9 | - | 9.0 | 220 | 99.9 | - | 10.5 | 220 | 99.9 | - | 80.0 | 999.9 | -1.4 | A | -3.5 | D | 0.00 | | |
| 82 | 9 | 1 | 16 | 7.0 | 230 | 99.9 | - | 9.0 | 235 | 99.9 | - | 11.5 | 225 | 99.9 | - | 80.0 | 999.9 | -1.1 | H | -3.1 | D | 0.00 | | |
| 82 | 9 | 1 | 17 | 8.0 | 235 | 99.9 | - | 10.0 | 235 | 99.9 | - | 13.5 | 235 | 99.9 | - | 80.5 | 999.9 | -0.8 | D | -2.8 | D | 0.00 | | |
| 82 | 9 | 1 | 18 | 5.0 | 225 | 99.9 | - | 7.0 | 230 | 99.9 | - | 11.5 | 225 | 99.9 | - | 78.0 | 68.0 | -0.7 | D | -2.6 | D | 0.00 | | |
| 82 | 9 | 1 | 19 | 6.0 | 220 | 99.9 | - | 8.5 | 225 | 99.9 | - | 13.5 | 225 | 99.9 | - | 77.0 | 68.5 | -0.6 | D | -2.4 | D | 0.00 | | |
| 82 | 9 | 1 | 20 | 6.5 | 225 | 99.9 | - | 9.0 | 230 | 99.9 | - | 13.5 | 235 | 99.9 | - | 75.0 | 70.5 | -0.6 | D | -2.3 | D | 0.00 | | |

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

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

| YR | MO | DY | HR | 35 FT | | | 150 FT | | | 500 FT | | | AMB. | DEW | DELTA T | | RAIN |
|----|----|----|----|-------|-------|---------|--------|-------|---------|--------|-------|---------|------|-------|---------|--------|--------|
| | | | | SPEED | WIND | STD | SPEED | WIND | STD | SPEED | WIND | STD | TEMP | POINT | 150-35 | 500-35 | FALL |
| | | | | (MPH) | (DEG) | SC(DEV) | (MPH) | (DEG) | SC(DEV) | (MPH) | (DEG) | SC(DEV) | (F) | (F) | (F) | SC(F) | SC(IN) |
| 82 | 9 | 1 | 21 | 3.5 | 205 | 99.9 - | 7.5 | 230 | 99.9 - | 12.5 | 235 | 99.9 - | 72.0 | 70.5 | 0.5 E | -0.3 E | 0.00 |
| 82 | 9 | 1 | 22 | 5.0 | 230 | 99.9 - | 8.7 | 240 | 99.9 - | 12.5 | 240 | 99.9 - | 73.0 | 70.0 | -0.3 E | -2.3 D | 0.00 |
| 82 | 9 | 2 | 2 | 4.5 | 220 | 99.9 - | 7.0 | 230 | 99.9 - | 11.5 | 240 | 99.9 - | 71.5 | 68.0 | -0.3 E | -2.0 D | 0.00 |
| 82 | 9 | 2 | 3 | 3.0 | 195 | 99.9 - | 5.5 | 230 | 99.9 - | 10.0 | 240 | 99.9 - | 69.5 | 67.0 | 0.4 E | -1.2 E | 0.00 |
| 82 | 9 | 2 | 4 | 3.0 | 210 | 99.9 - | 6.5 | 230 | 99.9 - | 10.5 | 235 | 99.9 - | 69.0 | 66.5 | 0.1 E | -1.4 D | 0.00 |
| 82 | 9 | 2 | 5 | 4.0 | 215 | 99.9 - | 7.5 | 230 | 99.9 - | 13.0 | 235 | 99.9 - | 69.0 | 66.5 | -0.1 E | -1.6 D | 0.00 |
| 82 | 9 | 2 | 6 | 6.0 | 200 | 99.9 - | 9.0 | 210 | 99.9 - | 14.5 | 225 | 99.9 - | 69.5 | 67.0 | -0.3 E | -1.7 D | 0.00 |
| 82 | 9 | 2 | 7 | 5.5 | 225 | 99.9 - | 7.5 | 220 | 99.9 - | 10.5 | 225 | 99.9 - | 69.5 | 67.0 | -0.6 D | -2.4 D | 0.00 |
| 82 | 9 | 2 | 8 | 4.0 | 210 | 99.9 - | 6.0 | 220 | 99.9 - | 9.5 | 220 | 99.9 - | 69.0 | 68.0 | -0.7 D | -2.3 D | 0.00 |
| 82 | 9 | 2 | 9 | 6.5 | 210 | 99.9 - | 9.5 | 210 | 99.9 - | 12.5 | 210 | 99.9 - | 70.0 | 68.0 | -0.8 D | -2.8 D | 0.00 |
| 82 | 9 | 2 | 10 | 7.0 | 215 | 99.9 - | 9.0 | 210 | 99.9 - | 13.0 | 210 | 99.9 - | 71.5 | 68.0 | -0.8 D | -3.2 D | 0.00 |
| 82 | 9 | 2 | 11 | 5.0 | 225 | 99.9 - | 6.5 | 225 | 99.9 - | 11.0 | 225 | 99.9 - | 73.0 | 67.5 | -0.7 D | -2.4 D | 0.02 |
| 82 | 9 | 2 | 12 | 4.5 | 255 | 99.9 - | 7.0 | 260 | 99.9 - | 14.5 | 255 | 99.9 - | 71.0 | 68.0 | -0.5 D | -2.0 D | 0.89 |
| 82 | 9 | 2 | 13 | 4.5 | 160 | 99.9 - | 5.0 | 190 | 99.9 - | 10.0 | 225 | 99.9 - | 64.5 | 64.5 | -0.7 D | -1.8 D | 0.35 |
| 82 | 9 | 2 | 14 | 2.5 | 180 | 99.9 - | 5.5 | 175 | 99.9 - | 9.5 | 205 | 99.9 - | 65.5 | 65.0 | -0.9 D | -1.7 D | 0.01 |
| 82 | 9 | 2 | 15 | 5.5 | 200 | 99.9 - | 8.5 | 205 | 99.9 - | 17.0 | 205 | 99.9 - | 66.0 | 65.5 | -0.2 E | -0.6 E | 0.02 |
| 82 | 9 | 2 | 16 | 5.0 | 215 | 99.9 - | 8.5 | 210 | 99.9 - | 10.5 | 210 | 99.9 - | 68.0 | 66.0 | -0.1 E | -1.6 D | 0.00 |
| 82 | 9 | 2 | 17 | 6.5 | 215 | 99.9 - | 9.5 | 215 | 99.9 - | 16.0 | 210 | 99.9 - | 67.0 | 65.5 | 0.3 E | -1.0 E | 0.00 |
| 82 | 9 | 2 | 18 | 3.0 | 210 | 99.9 - | 5.0 | 220 | 99.9 - | 9.0 | 220 | 99.9 - | 67.0 | 66.0 | 0.7 E | -0.8 E | 0.00 |
| 82 | 9 | 2 | 19 | 4.0 | 210 | 99.9 - | 7.0 | 215 | 99.9 - | 12.0 | 215 | 99.9 - | 68.0 | 65.5 | -0.5 D | -1.3 D | 0.00 |
| 82 | 9 | 2 | 20 | 2.5 | 210 | 99.9 - | 5.5 | 240 | 99.9 - | 10.0 | 225 | 99.9 - | 66.5 | 65.5 | 0.0 E | -0.2 E | 0.00 |
| 82 | 9 | 2 | 21 | 2.0 | 110 | 99.9 - | 3.0 | 275 | 99.9 - | 9.5 | 234 | 99.9 - | 65.5 | 65.0 | 0.8 E | 0.8 E | 0.00 |
| 82 | 9 | 2 | 22 | 4.5 | 360 | 99.9 - | 7.5 | 330 | 99.9 - | 12.5 | 315 | 99.9 - | 66.5 | 64.0 | -1.1 B | -0.8 E | 0.02 |
| 82 | 9 | 8 | 13 | 2.7 | 311 | 32.2 A | 3.5 | 236 | 32.2 A | 3.0 | 240 | 35.5 A | 71.6 | 56.0 | -0.6 D | -3.3 D | 0.00 |
| 82 | 9 | 8 | 14 | 3.7 | 292 | 31.7 A | 3.9 | 284 | 27.8 A | 3.4 | 258 | 19.2 B | 73.9 | 55.3 | -0.7 D | -3.4 D | 0.00 |
| 82 | 9 | 8 | 15 | 3.3 | 292 | 36.0 A | 3.6 | 294 | 28.9 A | 2.7 | 271 | 36.3 A | 75.5 | 54.8 | -0.8 D | -3.6 D | 0.00 |
| 82 | 9 | 8 | 16 | 3.6 | 254 | 31.6 A | 4.1 | 260 | 18.7 B | 3.8 | 247 | 16.3 C | 76.5 | 54.3 | -0.9 D | -3.6 D | 0.00 |
| 82 | 9 | 8 | 17 | 2.6 | 318 | 30.6 A | 3.3 | 341 | 19.5 B | 3.2 | 338 | 21.0 B | 76.2 | 54.0 | -0.7 D | -3.1 D | 0.00 |
| 82 | 9 | 8 | 18 | 2.3 | 59 | 41.2 A | 5.4 | 29 | 12.6 C | 7.3 | 25 | 10.5 D | 73.0 | 56.2 | -0.4 D | -2.1 D | 0.00 |
| 82 | 9 | 8 | 19 | 1.5 | 145 | 24.4 A | 1.4 | 301 | 73.1 A | 3.3 | 33 | 31.2 A | 64.2 | 55.5 | 3.9 G | 3.8 E | 0.00 |
| 82 | 9 | 8 | 20 | 1.0 | 125 | 11.9 D | 1.5 | 39 | 27.6 A | 3.8 | 47 | 12.5 C | 59.3 | 52.5 | 3.7 G | 7.3 F | 0.00 |
| 82 | 9 | 8 | 21 | 1.1 | 125 | 18.0 B | 1.5 | 349 | 39.3 A | 1.7 | 33 | 17.5 B | 56.1 | 51.5 | 3.3 G | 8.4 F | 0.00 |
| 82 | 9 | 8 | 22 | 1.5 | 134 | 14.2 C | 1.1 | 54 | 53.1 A | 1.3 | 168 | 24.8 A | 54.3 | 51.5 | 3.1 G | 7.3 F | 0.00 |
| 82 | 9 | 8 | 23 | 1.2 | 129 | 10.8 D | 2.2 | 22 | 9.2 D | 1.1 | 169 | 31.9 A | 53.0 | 52.5 | 8.6 G | 6.4 F | 0.00 |
| 82 | 9 | 8 | 24 | 1.2 | 126 | 9.7 D | 1.9 | 44 | 17.9 B | 1.5 | 48 | 8.2 D | 51.7 | 51.5 | 5.8 G | 5.8 F | 0.00 |
| 82 | 9 | 9 | 1 | 1.2 | 119 | 11.4 D | 1.3 | 15 | 25.1 A | 1.2 | 73 | 8.1 D | 50.7 | 50.5 | 5.8 F | 5.8 F | 0.00 |
| 82 | 9 | 9 | 2 | 1.2 | 124 | 6.8 E | 1.4 | 38 | 15.5 C | 1.2 | 60 | 5.6 E | 49.8 | 49.8 | 5.6 F | 5.6 F | 0.00 |
| 82 | 9 | 9 | 3 | 1.4 | 113 | 14.5 C | 1.2 | 18 | 15.4 C | 0.7 | 47 | 4.4 E | 50.3 | 50.3 | 5.6 F | 5.6 F | 0.00 |
| 82 | 9 | 9 | 4 | 1.0 | 130 | 10.0 D | 1.5 | 69 | 39.7 A | 2.4 | 31 | 13.4 C | 51.7 | 51.7 | 5.6 E | 5.6 E | 0.00 |
| 82 | 9 | 9 | 5 | 1.3 | 137 | 29.0 A | 2.0 | 135 | 12.9 C | 2.3 | 62 | 22.7 A | 51.8 | 51.8 | 5.4 E | 5.4 E | 0.00 |
| 82 | 9 | 9 | 6 | 1.5 | 132 | 25.9 A | 2.2 | 126 | 12.8 C | 3.0 | 84 | 13.8 C | 52.3 | 52.3 | -0.2 E | -0.2 E | 0.00 |
| 82 | 9 | 9 | 7 | 1.0 | 15 | 99.9 - | 2.5 | 25 | 99.9 - | 2.5 | 35 | 99.9 - | 54.5 | 54.5 | -0.3 E | -0.3 E | 0.00 |
| 82 | 9 | 9 | 8 | 2.1 | 1 | 99.9 - | 3.0 | 25 | 99.9 - | 2.5 | 95 | 99.9 - | 55.5 | 55.5 | -0.1 E | -0.1 E | 0.00 |
| 82 | 9 | 9 | 10 | 3.2 | 4 | 18.8 B | 3.6 | 27 | 19.0 B | 4.0 | 109 | 11.4 D | 61.1 | 59.1 | -0.8 D | -1.0 D | 0.00 |
| 82 | 9 | 9 | 11 | 2.0 | 344 | 16.4 C | 3.4 | 26 | 37.3 A | 4.2 | 137 | 30.5 A | 69.3 | 60.6 | -0.3 E | -2.7 D | 0.00 |
| 82 | 9 | 9 | 12 | 2.8 | 335 | 28.4 A | 3.7 | 318 | 49.3 A | 3.1 | 52 | 73.6 A | 74.9 | 59.7 | -0.5 D | -3.4 D | 0.00 |
| 82 | 9 | 9 | 13 | 3.4 | 332 | 20.7 B | 3.7 | 334 | 34.4 A | 3.0 | 341 | 54.4 A | 77.5 | 59.5 | -0.7 D | -3.3 D | 0.00 |
| 82 | 9 | 9 | 14 | 3.4 | 332 | 31.1 A | 3.5 | 322 | 28.9 A | 2.9 | 296 | 43.1 A | 79.2 | 57.3 | -0.5 D | -3.0 D | 0.00 |

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

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

| YR | MO | DAY | HR | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV (DEG) | SC | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV (DEG) | SC | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV (DEG) | SC | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV (DEG) | SC | AMB. TEMP 35F (F) | DEW POINT 35F (F) | DELTA T 150-35 (F) | DELTA T 500-35 (F) | DELTA T SC (F) | DELTA T SC (F) | RAIN FALL SC(IN) |
|----|----|-----|----|------------------------|----------------------|---------------------|----|------------------------|----------------------|---------------------|----|------------------------|----------------------|---------------------|----|------------------------|----------------------|---------------------|----|----------------------------|----------------------------|--------------------------|--------------------------|-------------------|-------------------|------------------------|
| 82 | 9 | 9 | 15 | 2.8 | 269 | 55.0 | A | 3.2 | 268 | 57.4 | A | 3.1 | 27 | 51.6 | A | 81.0 | 56.7 | -0.8 | D | -3.6 | D | 0.00 | | | | |
| 82 | 9 | 9 | 16 | 3.0 | 346 | 36.1 | A | 3.3 | 258 | 30.6 | A | 3.6 | 203 | 26.2 | A | 81.7 | 57.2 | -1.0 | C | -3.7 | D | 0.00 | | | | |
| 82 | 9 | 9 | 17 | 2.3 | 328 | 20.1 | B | 2.1 | 338 | 23.4 | A | 1.7 | 237 | 46.3 | A | 80.3 | 59.9 | 0.0 | E | -2.3 | D | 0.00 | | | | |
| 82 | 9 | 9 | 18 | 1.3 | 170 | 12.7 | C | 1.0 | 349 | 37.3 | A | 4.0 | 128 | 12.4 | D | 74.5 | 64.6 | 1.8 | F | 2.2 | E | 0.00 | | | | |
| 82 | 9 | 9 | 19 | 1.4 | 99 | 22.4 | B | 1.1 | 36 | 31.1 | A | 2.4 | 215 | 15.5 | C | 67.8 | 64.1 | 2.8 | G | 6.4 | F | 0.00 | | | | |
| 82 | 9 | 9 | 20 | 1.2 | 136 | 6.2 | E | 1.6 | 86 | 33.8 | A | 2.6 | 233 | 8.7 | D | 63.8 | 62.0 | 3.6 | G | 8.6 | F | 0.00 | | | | |
| 82 | 9 | 9 | 21 | 1.3 | 133 | 13.6 | C | 1.4 | 53 | 26.3 | A | 2.3 | 241 | 5.9 | F | 61.7 | 61.0 | 3.3 | G | 8.9 | F | 0.00 | | | | |
| 82 | 9 | 9 | 22 | 0.9 | 107 | 11.2 | D | 1.7 | 1 | 27.7 | A | 2.2 | 219 | 5.8 | E | 60.6 | 60.4 | 2.3 | F | 8.4 | F | 0.00 | | | | |
| 82 | 9 | 9 | 23 | 0.8 | 105 | 1.6 | G | 1.9 | 338 | 16.5 | C | 2.5 | 243 | 6.3 | E | 59.5 | 59.5 | 2.6 | G | 7.5 | F | 0.00 | | | | |
| 82 | 9 | 9 | 24 | 0.8 | 113 | 3.7 | F | 2.3 | 26 | 8.1 | D | 1.5 | 245 | 5.7 | F | 58.6 | 58.6 | 2.6 | G | 5.3 | F | 0.00 | | | | |
| 82 | 9 | 10 | 1 | 0.9 | 108 | 7.3 | E | 2.4 | 24 | 7.4 | E | 1.1 | 123 | 11.0 | D | 58.1 | 58.1 | 2.4 | F | 4.9 | F | 0.00 | | | | |
| 82 | 9 | 10 | 2 | 1.0 | 104 | 2.9 | F | 1.5 | 23 | 12.4 | D | 0.9 | 301 | 17.0 | C | 57.3 | 57.3 | 2.5 | F | 4.7 | F | 0.00 | | | | |
| 82 | 9 | 10 | 3 | 0.9 | 96 | 1.3 | G | 1.6 | 9 | 18.1 | B | 0.8 | 302 | 4.4 | F | 57.5 | 57.5 | 2.0 | F | 3.5 | E | 0.00 | | | | |
| 82 | 9 | 10 | 4 | 1.1 | 144 | 19.2 | B | 1.0 | 85 | 37.5 | A | 1.4 | 4 | 19.6 | B | 58.2 | 58.2 | 1.1 | F | 2.9 | E | 0.00 | | | | |
| 82 | 9 | 10 | 7 | 1.4 | 94 | 99.9 | - | 2.0 | 65 | 99.9 | - | 3.0 | 115 | 99.9 | - | 59.0 | 59.0 | -0.3 | E | 1.4 | E | 0.00 | | | | |
| 82 | 9 | 10 | 8 | 2.0 | 13 | 99.9 | - | 2.0 | 25 | 99.9 | - | 3.5 | 120 | 99.9 | - | 62.0 | 60.5 | -0.9 | D | 0.2 | E | 0.00 | | | | |
| 82 | 9 | 10 | 9 | 1.9 | 297 | 99.9 | - | 2.0 | 20 | 99.9 | - | 3.0 | 140 | 99.9 | - | 66.0 | 62.0 | -0.3 | E | -0.8 | E | 0.00 | | | | |
| 82 | 9 | 10 | 10 | 1.4 | 41 | 99.9 | - | 3.0 | 325 | 99.9 | - | 1.5 | 205 | 99.9 | - | 71.0 | 64.0 | -0.4 | D | -2.0 | D | 0.00 | | | | |
| 82 | 9 | 10 | 11 | 3.1 | 332 | 17.9 | B | 2.7 | 322 | 22.5 | A | 1.9 | 150 | 41.0 | A | 75.6 | 65.6 | -0.2 | E | -2.1 | D | 0.00 | | | | |
| 82 | 9 | 10 | 12 | 3.9 | 238 | 30.7 | A | 5.4 | 227 | 26.6 | A | 5.6 | 217 | 30.3 | A | 77.6 | 65.0 | -1.0 | C | -2.7 | D | 0.00 | | | | |
| 82 | 9 | 10 | 13 | 3.1 | 136 | 60.2 | A | 5.5 | 141 | 22.9 | A | 5.8 | 142 | 20.0 | B | 78.8 | 65.0 | -1.7 | A | -3.9 | C | 0.00 | | | | |
| 82 | 9 | 10 | 14 | 2.7 | 40 | 58.6 | A | 3.9 | 155 | 33.3 | A | 5.4 | 150 | 29.8 | A | 79.8 | 64.0 | -1.0 | C | -3.4 | D | 0.00 | | | | |
| 82 | 9 | 10 | 15 | 4.3 | 217 | 28.1 | A | 6.0 | 213 | 19.6 | B | 7.1 | 207 | 15.8 | C | 81.0 | 63.1 | -1.2 | A | -3.4 | D | 0.00 | | | | |
| 82 | 9 | 10 | 16 | 2.5 | 180 | 21.6 | B | 4.5 | 185 | 13.9 | C | 6.1 | 186 | 10.6 | D | 79.6 | 64.4 | -0.6 | D | -2.4 | D | 0.00 | | | | |
| 82 | 9 | 10 | 17 | 1.1 | 182 | 22.7 | A | 2.2 | 171 | 16.1 | C | 5.0 | 193 | 3.8 | E | 78.6 | 68.2 | -0.2 | E | -1.4 | D | 0.00 | | | | |
| 82 | 9 | 10 | 18 | 1.3 | 160 | 22.5 | A | 1.0 | 121 | 35.9 | A | 5.2 | 167 | 4.3 | E | 75.2 | 69.4 | 1.0 | F | 1.6 | E | 0.00 | | | | |
| 82 | 9 | 10 | 19 | 1.0 | 151 | 7.2 | E | 1.5 | 47 | 34.2 | A | 4.3 | 170 | 9.2 | D | 71.5 | 68.1 | 1.4 | F | 4.6 | F | 0.00 | | | | |
| 82 | 9 | 10 | 20 | 1.5 | 145 | 14.7 | C | 1.6 | 168 | 45.6 | A | 5.0 | 179 | 5.5 | E | 68.6 | 66.4 | 2.4 | F | 6.2 | F | 0.00 | | | | |
| 82 | 9 | 10 | 21 | 1.2 | 112 | 11.6 | D | 1.9 | 31 | 43.8 | A | 3.7 | 194 | 13.5 | C | 66.7 | 65.5 | 2.0 | F | 6.0 | F | 0.00 | | | | |
| 82 | 9 | 10 | 22 | 1.3 | 112 | 30.3 | A | 1.5 | 56 | 30.3 | A | 1.8 | 212 | 11.3 | D | 65.6 | 65.0 | 1.8 | F | 5.8 | F | 0.00 | | | | |
| 82 | 9 | 10 | 23 | 1.4 | 116 | 37.6 | A | 1.8 | 358 | 27.8 | A | 3.5 | 208 | 8.8 | D | 64.4 | 64.2 | 2.1 | F | 6.3 | F | 0.00 | | | | |
| 82 | 9 | 10 | 24 | 1.0 | 91 | 12.0 | D | 2.0 | 22 | 10.4 | D | 1.9 | 273 | 17.1 | C | 63.2 | 63.2 | 1.8 | F | 5.6 | F | 0.00 | | | | |
| 82 | 9 | 11 | 1 | 1.4 | 153 | 12.3 | D | 1.3 | 123 | 65.9 | A | 1.0 | 317 | 16.2 | C | 62.2 | 62.2 | 2.1 | F | 4.7 | F | 0.00 | | | | |
| 82 | 9 | 11 | 2 | 1.2 | 109 | 24.8 | A | 1.5 | 53 | 42.4 | A | 1.8 | 233 | 13.9 | C | 61.2 | 61.2 | 2.2 | F | 5.6 | F | 0.00 | | | | |
| 82 | 9 | 11 | 3 | 1.0 | 101 | 5.0 | E | 2.6 | 44 | 15.2 | C | 2.3 | 131 | 16.8 | C | 60.5 | 60.5 | 2.1 | F | 5.2 | F | 0.00 | | | | |
| 82 | 9 | 11 | 4 | 1.3 | 117 | 9.3 | D | 2.0 | 80 | 12.5 | C | 2.6 | 105 | 7.2 | E | 60.2 | 60.2 | 1.8 | F | 3.7 | E | 0.00 | | | | |
| 82 | 9 | 11 | 5 | 1.4 | 137 | 25.8 | A | 1.4 | 146 | 13.0 | C | 1.8 | 142 | 7.5 | D | 60.7 | 60.7 | 0.8 | E | 3.2 | E | 0.00 | | | | |
| 82 | 9 | 11 | 6 | 1.3 | 146 | 19.1 | B | 1.5 | 108 | 10.3 | D | 1.3 | 121 | 11.6 | D | 60.3 | 60.3 | 0.7 | E | 3.6 | E | 0.00 | | | | |
| 82 | 9 | 11 | 7 | 1.3 | 147 | 23.7 | A | 1.6 | 83 | 19.4 | B | 1.9 | 104 | 9.8 | D | 61.1 | 61.1 | 0.3 | E | 2.5 | E | 0.00 | | | | |
| 82 | 9 | 11 | 8 | 1.6 | 39 | 30.0 | A | 1.8 | 51 | 20.9 | B | 3.2 | 136 | 8.2 | D | 62.6 | 62.6 | -0.2 | E | 1.5 | E | 0.00 | | | | |
| 82 | 9 | 11 | 9 | 1.5 | 315 | 56.2 | A | 1.2 | 357 | 44.0 | A | 2.3 | 181 | 10.6 | D | 66.6 | 64.7 | -0.5 | D | 1.0 | E | 0.00 | | | | |
| 82 | 9 | 11 | 10 | 1.9 | 291 | 29.4 | A | 1.4 | 303 | 65.2 | A | 2.5 | 195 | 15.2 | C | 69.5 | 65.6 | -0.6 | D | -0.7 | E | 0.00 | | | | |
| 82 | 9 | 11 | 13 | 3.4 | 242 | 41.8 | A | 5.0 | 142 | 40.3 | A | 4.8 | 183 | 21.5 | B | 82.7 | 62.4 | -1.3 | A | -3.8 | D | 0.00 | | | | |
| 82 | 9 | 11 | 14 | 2.6 | 137 | 55.3 | A | 5.0 | 137 | 28.1 | A | 5.5 | 133 | 16.1 | C | 83.3 | 62.9 | -1.5 | A | -3.8 | D | 0.00 | | | | |
| 82 | 9 | 11 | 15 | 3.5 | 151 | 40.4 | A | 6.2 | 153 | 20.7 | B | 6.7 | 162 | 13.6 | C | 84.6 | 62.1 | -1.7 | A | -4.0 | C | 0.00 | | | | |
| 82 | 9 | 11 | 16 | 2.7 | 124 | 62.7 | A | 4.9 | 131 | 24.2 | A | 5.0 | 138 | 23.4 | A | 84.4 | 62.3 | -1.4 | A | -3.6 | D | 0.00 | | | | |
| 82 | 9 | 11 | 17 | 0.9 | 126 | 16.5 | C | 4.2 | 134 | 7.3 | E | 5.7 | 140 | 6.2 | E | 81.6 | 66.4 | 0.1 | E | -1.6 | D | 0.00 | | | | |
| 82 | 9 | 11 | 18 | 0.6 | 132 | 1.2 | G | 3.4 | 98 | 9.7 | D | 6.8 | 135 | 3.5 | F | 77.5 | 69.6 | 1.8 | F | 1.9 | E | 0.00 | | | | |

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

-----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 (F) | DELTA T 500-35 (F) | RAIN FALL SC(IN) |
|----|----|----|----|------------------------|----------------------|-----------------------|------------------------|----------------------|-----------------------|------------------------|----------------------|-----------------------|---------------------|---------------------|--------------------------|--------------------------|------------------------|
| | | | | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV SC(DEV) | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV SC(DEV) | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV SC(DEV) | | | | | |
| 82 | 9 | 11 | 19 | 1.0 | 160 | 10.4 D | 2.0 | 5 | 12.4 D | 5.1 | 145 | 2.9 F | 71.5 | 68.2 | 2.2 F | 7.1 F | 0.00 |
| 82 | 9 | 11 | 20 | 1.1 | 124 | 18.7 R | 1.4 | 25 | 36.2 A | 3.0 | 114 | 10.0 D | 67.7 | 66.0 | 2.5 F | 8.1 F | 0.00 |
| 82 | 9 | 11 | 21 | 1.1 | 112 | 9.0 D | 1.5 | 61 | 30.6 A | 3.5 | 109 | 3.4 F | 65.1 | 64.5 | 3.0 G | 9.1 F | 0.00 |
| 82 | 9 | 11 | 22 | 1.2 | 115 | 13.3 C | 2.1 | 25 | 9.1 D | 3.1 | 101 | 7.3 E | 63.9 | 63.7 | 2.4 F | 8.4 F | 0.00 |
| 82 | 9 | 13 | 13 | 5.0 | 205 | 99.9 - | 7.5 | 203 | 99.9 - | 9.0 | 195 | 99.9 - | 85.0 | 64.0 | -1.5 A | -3.9 C | 0.00 |
| 82 | 9 | 13 | 14 | 5.0 | 205 | 99.9 - | 7.0 | 195 | 99.9 - | 9.0 | 195 | 99.9 - | 86.0 | 64.0 | -1.6 A | -4.0 C | 0.00 |
| 82 | 9 | 13 | 15 | 3.0 | 178 | 81.3 A | 8.0 | 155 | 99.9 - | 9.5 | 155 | 99.9 - | 87.0 | 62.5 | -1.8 A | -4.1 C | 0.00 |
| 82 | 9 | 13 | 16 | 5.0 | 193 | 23.7 A | 8.0 | 180 | 99.9 - | 8.5 | 170 | 99.9 - | 87.0 | 61.0 | -1.3 A | -3.5 D | 0.00 |
| 82 | 9 | 13 | 17 | 3.0 | 175 | 99.9 - | 5.0 | 165 | 99.9 - | 8.0 | 165 | 99.9 - | 85.5 | 62.0 | -0.8 D | -2.7 D | 0.00 |
| 82 | 9 | 13 | 18 | 1.9 | 59 | 18.2 H | 4.6 | 170 | 9.2 D | 9.7 | 178 | 4.2 E | 81.4 | 67.8 | 3.1 G | 2.0 E | 0.00 |
| 82 | 9 | 13 | 19 | 1.0 | 123 | 6.1 E | 3.1 | 86 | 21.1 R | 10.5 | 175 | 1.7 G | 73.9 | 67.6 | 5.5 G | 8.5 F | 0.00 |
| 82 | 9 | 13 | 20 | 1.2 | 103 | 16.8 C | 2.0 | 33 | 35.8 A | 8.6 | 165 | 3.3 F | 70.7 | 66.5 | 2.8 G | 10.2 F | 0.00 |
| 82 | 9 | 13 | 21 | 1.3 | 104 | 6.3 E | 2.6 | 15 | 16.6 C | 8.1 | 158 | 5.8 E | 68.9 | 66.0 | 2.7 G | 9.8 F | 0.00 |
| 82 | 9 | 13 | 22 | 1.3 | 109 | 12.3 D | 2.8 | 52 | 13.7 C | 7.3 | 150 | 7.6 D | 67.4 | 65.6 | 2.6 G | 9.0 F | 0.00 |
| 82 | 9 | 13 | 23 | 1.2 | 113 | 18.9 R | 1.8 | 54 | 28.8 A | 6.2 | 157 | 9.0 D | 67.2 | 65.5 | 2.1 F | 7.1 F | 0.00 |
| 82 | 9 | 13 | 24 | 1.2 | 99 | 31.8 A | 2.9 | 41 | 21.7 R | 7.6 | 168 | 9.7 D | 66.1 | 65.2 | 3.5 G | 6.7 F | 0.00 |
| 82 | 9 | 14 | 1 | 1.1 | 89 | 27.4 A | 1.6 | 224 | 58.5 A | 9.1 | 194 | 5.7 E | 66.3 | 64.9 | 2.9 G | 5.3 F | 0.00 |
| 82 | 9 | 14 | 2 | 0.7 | 106 | 19.7 R | 2.3 | 18 | 14.1 C | 2.0 | 220 | 69.1 A | 65.6 | 64.9 | 1.6 F | 3.9 F | 0.00 |

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

(OCTOBER 1, 1982-DECEMBER 31, 1982)

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | 1 | 1 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 1 | 1 | 1 | 4 | 1 | 2 | 1 | 19 |
| 3.51- 7.50 | 11 | 5 | 4 | 1 | 6 | 2 | 3 | 1 | 5 | 15 | 14 | 9 | 18 | 12 | 6 | 2 | 114 |
| 7.51-12.50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 2 | 2 | 1 | 0 | 0 | 20 |
| 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 | 13 | 6 | 4 | 1 | 8 | 4 | 5 | 1 | 5 | 23 | 22 | 12 | 24 | 14 | 8 | 3 | 153 |

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 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 14 |
| 3.51- 7.50 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 2 | 2 | 3 | 1 | 0 | 1 | 22 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 3 | 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 | 8 | 1 | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 8 | 6 | 5 | 7 | 2 | 0 | 2 | 46 |

TIME OF DAY: 14:41:20

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 |
| 0.76- 3.50 | 2 | 2 | 2 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 17 |
| 3.51- 7.50 | 5 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 4 | 6 | 2 | 3 | 6 | 0 | 3 | 33 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 2 | 2 | 1 | 0 | 0 | 12 |
| 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 | 7 | 3 | 2 | 0 | 4 | 1 | 0 | 1 | 2 | 6 | 12 | 4 | 7 | 8 | 1 | 4 | 62 |

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 |
| 0.76- 3.50 | 17 | 22 | 39 | 9 | 15 | 5 | 1 | 7 | 2 | 10 | 4 | 8 | 11 | 11 | 15 | 18 | 194 |
| 3.51- 7.50 | 16 | 3 | 2 | 3 | 1 | 2 | 0 | 0 | 6 | 27 | 23 | 20 | 84 | 56 | 53 | 14 | 310 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 25 | 31 | 43 | 4 | 2 | 0 | 123 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 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 | 33 | 25 | 41 | 12 | 16 | 7 | 1 | 7 | 8 | 55 | 54 | 61 | 139 | 71 | 70 | 32 | 632 |

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | 13 | 21 | 44 | 47 | 37 | 26 | 27 | 25 | 33 | 31 | 5 | 13 | 9 | 11 | 9 | 5 | 356 |
| 3.51- 7.50 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 2 | 15 | 53 | 24 | 7 | 11 | 5 | 1 | 0 | 123 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 9 | 6 | 1 | 0 | 0 | 0 | 23 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 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 | 13 | 21 | 44 | 48 | 39 | 27 | 28 | 27 | 50 | 90 | 39 | 29 | 21 | 16 | 10 | 5 | 507 |

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 | 3 | 4 | 15 | 25 | 42 | 58 | 38 | 34 | 27 | 10 | 6 | 2 | 0 | 0 | 1 | 2 | 269 |
| 3.51- 7.50 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 18 |
| 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 | 3 | 7 | 15 | 25 | 42 | 58 | 38 | 34 | 33 | 19 | 7 | 2 | 1 | 0 | 1 | 2 | 288 |

TIME OF DAY: 14:41:20

PROGRAM: JFD VERSION: 3P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | | | | | | | | | | | | | | | | | |
| 0.76- 3.50 | 4 | 5 | 16 | 24 | 35 | 92 | 126 | 34 | 13 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 353 |
| 3.51- 7.50 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 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 | 4 | 8 | 16 | 24 | 35 | 92 | 126 | 34 | 16 | 3 | 1 | 0 | 0 | 1 | 1 | 0 | 363 |

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 | | | | | | | | | | | | | | | | | |
| 0.76- 3.50 | 44 | 36 | 116 | 107 | 135 | 184 | 194 | 101 | 79 | 53 | 19 | 26 | 27 | 26 | 29 | 28 | 1224 |
| 3.51- 7.50 | 36 | 15 | 6 | 0 | 10 | 6 | 4 | 4 | 35 | 117 | 70 | 40 | 120 | 80 | 60 | 20 | 628 |
| 7.51-12.50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 33 | 49 | 42 | 51 | 6 | 2 | 0 | 186 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 1 | 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 | 81 | 71 | 182 | 112 | 145 | 190 | 198 | 105 | 116 | 204 | 141 | 113 | 199 | 112 | 91 | 48 | 2051 |

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2031

TOTAL NUMBER OF MISSING OBSERVATIONS: 157

PERCENT DATA RECOVERY FOR THIS PERIOD: 92.9 %

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 |
|------|------|------|-------|-------|-------|-------|
| 7.46 | 2.24 | 3.02 | 30.81 | 24.72 | 14.04 | 17.70 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | CALM |
|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|
| A | 13 | 6 | 4 | 1 | 8 | 4 | 5 | 1 | 5 | 23 | 22 | 12 | 24 | 14 | 8 | 3 | 0 |
| B | 8 | 1 | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 8 | 6 | 5 | 7 | 2 | 0 | 2 | 0 |
| C | 7 | 3 | 2 | 0 | 4 | 1 | 0 | 1 | 2 | 6 | 12 | 4 | 7 | 8 | 1 | 4 | 0 |
| D | 33 | 25 | 41 | 12 | 16 | 7 | 1 | 7 | 8 | 55 | 54 | 61 | 139 | 71 | 70 | 32 | 0 |
| E | 13 | 21 | 44 | 48 | 39 | 27 | 28 | 27 | 50 | 90 | 39 | 29 | 21 | 16 | 10 | 5 | 0 |
| F | 3 | 7 | 15 | 25 | 42 | 58 | 38 | 34 | 33 | 19 | 7 | 2 | 1 | 0 | 1 | 2 | 1 |
| G | 4 | 8 | 16 | 24 | 35 | 92 | 126 | 34 | 16 | 3 | 1 | 0 | 0 | 1 | 1 | 0 | 2 |
| TOTAL | 81 | 71 | 122 | 112 | 145 | 190 | 198 | 105 | 116 | 204 | 141 | 113 | 199 | 112 | 91 | 48 | 3 |

第四卷 第四 quarter 1982

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

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

[illegible]

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 300.00 FEET

[illegible]

TIME OF DAY: 14:43:26

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7.51-12.50 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 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 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 13 |

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 | 7 | 4 | 3 | 0 | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 3 | 6 | 2 | 1 | 2 | 0 |
| 0.76- 3.50 | 24 | 12 | 23 | 13 | 8 | 6 | 11 | 11 | 9 | 6 | 3 | 4 | 16 | 13 | 7 | 18 | 36 |
| 3.51- 7.50 | 24 | 6 | 6 | 8 | 10 | 27 | 13 | 5 | 21 | 33 | 45 | 21 | 52 | 65 | 39 | 25 | 400 |
| 7.51-12.50 | 8 | 0 | 0 | 0 | 1 | 4 | 21 | 3 | 7 | 39 | 61 | 33 | 99 | 44 | 8 | 6 | 334 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 | 9 | 13 | 49 | 6 | 0 | 0 | 87 |
| 18.51-24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 3 | 6 | 1 | 0 | 0 | 18 |
| >24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 7 | 228 | 131 | 55 | 51 | 1059 |
| TOTAL | 63 | 22 | 32 | 21 | 21 | 38 | 47 | 21 | 41 | 88 | 123 | 77 | 228 | 131 | 55 | 51 | 1059 |

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | | | | | | | | | | | | | | | | | 0 |
| 0.76- 3.50 | 7 | 6 | 7 | 4 | 8 | 3 | 3 | 2 | 1 | 1 | 4 | 10 | 6 | 2 | 1 | 0 | 65 |
| 3.51- 7.50 | 5 | 10 | 17 | 17 | 16 | 12 | 17 | 20 | 9 | 15 | 9 | 9 | 14 | 5 | 4 | 6 | 185 |
| 7.51-12.50 | 2 | 0 | 8 | 8 | 13 | 8 | 14 | 17 | 24 | 33 | 26 | 10 | 28 | 8 | 4 | 6 | 209 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 12 | 31 | 30 | 3 | 11 | 4 | 1 | 1 | 106 |
| 18.51-24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 4 | 6 | 0 | 3 | 1 | 0 | 0 | 19 |
| >24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 14 | 16 | 32 | 29 | 37 | 24 | 40 | 48 | 48 | 84 | 75 | 32 | 62 | 20 | 10 | 13 | 584 |

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 | | | | | | | | | | | | | | | | | 1 |
| 0.76- 3.50 | 1 | 1 | 2 | 6 | 9 | 5 | 7 | 4 | 2 | 3 | 7 | 6 | 4 | 3 | 5 | 0 | 65 |
| 3.51- 7.50 | 3 | 2 | 14 | 8 | 10 | 12 | 10 | 34 | 16 | 4 | 4 | 3 | 3 | 5 | 5 | 4 | 137 |
| 7.51-12.50 | 1 | 1 | 4 | 3 | 1 | 2 | 4 | 11 | 34 | 24 | 4 | 2 | 0 | 2 | 1 | 2 | 96 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 10 | 4 | 0 | 1 | 0 | 0 | 0 | 23 |
| 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 | 5 | 4 | 20 | 17 | 20 | 19 | 21 | 51 | 58 | 41 | 19 | 11 | 8 | 10 | 11 | 6 | 322 |

TIME OF DAY: 14:43:26

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.76- 3.50 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 8 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3.51- 7.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 31 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 22 |
| 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 | 0 | 0 | 0 | 0 | 2 | 7 | 6 | 14 | 15 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 62 |

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 | 15 | 11 | 12 | 10 | 19 | 10 | 13 | 8 | 3 | 5 | 12 | 19 | 16 | 7 | 7 | 2 | 169 |
| 0.76- 3.50 | 32 | 24 | 54 | 38 | 37 | 37 | 43 | 73 | 44 | 25 | 17 | 16 | 33 | 23 | 16 | 28 | 540 |
| 3.51- 7.50 | 27 | 7 | 18 | 22 | 24 | 37 | 32 | 39 | 83 | 103 | 77 | 34 | 80 | 75 | 44 | 33 | 737 |
| 7.51-12.50 | 8 | 0 | 0 | 0 | 1 | 5 | 27 | 13 | 26 | 83 | 97 | 37 | 111 | 48 | 9 | 7 | 472 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 9 | 15 | 13 | 52 | 7 | 0 | 0 | 106 |
| 18.51-24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 3 | 6 | 1 | 0 | 0 | 18 |
| 24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 222 | 122 | 298 | 161 | 76 | 70 | 2043 |
| TOTAL | 82 | 42 | 84 | 70 | 81 | 89 | 117 | 135 | 164 | 229 | 222 | 122 | 298 | 161 | 76 | 70 | 2043 |

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2043

TOTAL NUMBER OF MISSING OBSERVATIONS: 165

PERCENT DATA RECOVERY FOR THIS PERIOD: 92.5 %

MEAN WIND SPEED FOR THIS PERIOD: 10.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A | B | C | D | E | F | G |
|------|------|------|-------|-------|-------|------|
| 0.00 | 0.15 | 0.64 | 31.84 | 28.59 | 15.76 | 3.03 |

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 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| D | 63 | 22 | 32 | 21 | 21 | 38 | 47 | 21 | 41 | 88 | 123 | 77 | 228 | 131 | 55 | 51 | 0 |
| E | 14 | 16 | 32 | 29 | 37 | 24 | 40 | 48 | 48 | 84 | 75 | 32 | 62 | 20 | 10 | 13 | 0 |
| F | 5 | 4 | 20 | 17 | 20 | 19 | 21 | 31 | 58 | 41 | 19 | 11 | 8 | 10 | 11 | 6 | 1 |
| G | 0 | 0 | 0 | 0 | 2 | 7 | 6 | 14 | 15 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 82 | 42 | 84 | 70 | 81 | 89 | 117 | 135 | 164 | 229 | 222 | 122 | 298 | 161 | 76 | 70 | 1 |

BEAVER VALLEY

JOINT FREQUENCY DISTRIBUTION TABLES
FOR
BATCH RELEASES

FOURTH QUARTER 1982

14:45:45

VERSION: 5P

DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

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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]

8

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 300.00 FEET

[illegible]

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DL8V2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 5 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 13 | 1 | 0 | 21 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 11 | 1 | 0 | 0 | 20 |
| 18.51-24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 6 | 0 | 0 | 0 | 11 |
| 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 | 1 | 0 | 0 | 0 | 0 | 9 | 10 | 24 | 12 | 1 | 0 | 57 |

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0.76- 3.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 3.51- 7.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 5 |

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 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 | 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: 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0.76- 3.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 11 |
| 3.51- 7.50 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 5 | 11 | 1 | 0 | 23 |
| 7.51-12.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 11 | 1 | 0 | 0 | 20 |
| 12.51-18.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 6 | 0 | 0 | 0 | 11 |
| 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 | 5 | 0 | 66 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 10 | 26 | 15 | 5 | 0 | 66 |

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 10/ 1/82 - 12/31/82

*** FOURTH QUARTER 1982 ***

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: 66

TOTAL NUMBER OF VALID OBSERVATIONS: 66

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 13.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A | B | C | D | E | F | G |
|------|------|------|-------|------|------|------|
| 0.00 | 0.00 | 0.00 | 86.36 | 6.06 | 7.58 | 0.00 |

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 10 | 24 | 12 | 1 | 0 | 0 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| F | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 |
| G | 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 | 0 | 0 | 0 | 9 | 10 | 26 | 15 | 5 | 0 | 0 |

BEAVER VALLEY

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

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA
500FT-LEVEL BATCH REVO

| | | -----35 FT-----150 FT-----500 FT----- | | | | | | | | | | | | | | | | | |
|----|----|---------------------------------------|----|------------------------|----------------------|---------------------|------------------------|----------------------|---------------------|------------------------|----------------------|---------------------|----------------------------|----------------------------|--------------------------|--------------------------|--------|---------|--------------|
| YR | MO | DAY | HR | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV (DEG) | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV (DEG) | WIND SPEED (MPH) | WIND DIR (DEG) | STD DEV (DEG) | AMB. TEMP 35F (F) | DEW POINT 35F (F) | DELTA T 150-35 (F) | DELTA T 500-35 (F) | SC (F) | SC (IN) | RAIN FALL |
| 82 | 12 | 11 | 5 | 2.3 | 312 | 17.6 B | 4.1 | 302 | 6.0 E | 7.4 | 298 | 5.2 E | 32.7 | 32.6 | -0.4 D | -1.8 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 6 | 2.5 | 311 | 19.9 B | 4.1 | 303 | 9.4 D | 7.7 | 306 | 5.4 E | 32.7 | 31.6 | -0.5 D | -2.2 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 7 | 3.8 | 295 | 18.6 B | 7.0 | 295 | 5.7 E | 10.5 | 289 | 2.9 F | 32.8 | 31.3 | -0.5 D | -2.2 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 8 | 3.2 | 289 | 25.0 A | 6.4 | 293 | 6.5 E | 11.0 | 288 | 3.7 F | 32.8 | 30.7 | -0.4 D | -2.2 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 9 | 3.5 | 294 | 20.8 B | 6.3 | 294 | 6.5 E | 10.3 | 288 | 4.3 E | 32.6 | 29.8 | -0.6 D | -2.3 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 10 | 4.1 | 295 | 18.3 B | 8.1 | 294 | 5.7 E | 11.4 | 284 | 3.5 F | 32.8 | 28.3 | -0.8 D | -2.5 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 11 | 4.6 | 306 | 20.2 B | 7.9 | 296 | 8.9 D | 10.7 | 290 | 6.0 E | 33.2 | 28.1 | -0.9 D | -2.7 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 12 | 4.8 | 290 | 18.8 B | 8.3 | 291 | 8.2 D | 10.2 | 301 | 17.2 C | 33.2 | 27.8 | -1.0 C | -2.7 D | 0.00 | 0.00 | |
| 82 | 12 | 11 | 13 | 5.4 | 297 | 20.7 B | 9.1 | 297 | 10.2 D | 11.0 | 122 | 15.0 C | 33.9 | 27.2 | -0.9 D | -2.8 D | 0.00 | 0.00 | |
| 82 | 12 | 28 | 22 | 11.4 | 248 | 14.0 C | 17.1 | 255 | 11.1 D | 21.7 | 254 | 10.3 D | 48.9 | 34.2 | -0.4 D | -1.8 D | 0.00 | 0.00 | |
| 82 | 12 | 28 | 23 | 10.7 | 261 | 14.7 C | 17.5 | 265 | 9.8 D | 22.8 | 262 | 9.2 D | 48.0 | 35.8 | -0.5 D | -2.1 D | 0.00 | 0.00 | |
| 82 | 12 | 28 | 24 | 10.2 | 263 | 18.0 B | 17.5 | 269 | 11.0 D | 23.0 | 266 | 7.6 D | 45.2 | 33.5 | -0.5 D | -2.1 D | 0.00 | 0.00 | |
| 82 | 12 | 29 | 1 | 9.2 | 266 | 16.8 C | 16.5 | 272 | 9.7 D | 21.9 | 266 | 7.6 D | 42.8 | 31.2 | -0.6 D | -2.3 D | 0.00 | 0.00 | |
| 82 | 12 | 29 | 2 | 8.3 | 278 | 18.8 B | 15.5 | 282 | 10.6 D | 21.5 | 276 | 7.3 E | 39.2 | 13.2 | -0.7 D | -2.6 D | 0.00 | 0.00 | |
| 82 | 12 | 29 | 3 | 7.1 | 281 | 20.7 B | 12.6 | 280 | 10.6 D | 16.3 | 276 | 6.8 E | 36.6 | 26.3 | -0.7 D | -2.6 D | 0.00 | 0.00 | |
| 82 | 12 | 29 | 4 | 7.4 | 257 | 14.7 C | 11.0 | 260 | 11.3 D | 14.5 | 261 | 9.6 D | 35.2 | 24.7 | -0.7 D | -2.6 D | 0.00 | 0.00 | |
| 82 | 12 | 29 | 5 | 7.0 | 262 | 17.7 B | 10.9 | 267 | 11.6 D | 13.3 | 268 | 10.0 D | 35.0 | 24.4 | -0.7 D | -2.6 D | 0.00 | 0.00 | |
| 82 | 12 | 29 | 6 | 6.0 | 262 | 17.6 B | 9.5 | 267 | 12.5 C | 12.2 | 264 | 10.8 D | 34.6 | 24.2 | -0.7 D | -2.6 D | 0.00 | 0.00 | |