



**GULF STATES UTILITIES COMPANY**

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Gentlemen:

River Bend Station - Unit 1  
Docket No. 50-458

Enclosed is the semi-annual Radioactive Effluent Release Report for the period of July 1 to December 31, 1992. This report is submitted in accordance with Technical Specification 6.9.1.8 of Appendix A to River Bend Station (RBS) License Number NPF-47.

Information unavailable for this report will be provided in a future addendum.

Sincerely,

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Enclosure

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RIVER BEND STATION, UNIT 1

SEMIANNUAL RADIOACTIVE

EFFLUENT RELEASE REPORT

REPORT PERIOD: July 1, 1992 through December 31, 1992

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SEMIANNUAL RADIOACTIVE EFFLUENT  
RELEASE REPORT

FACILITY: River Bend Station, Unit 1  
LICENSEE: Gulf States Utilities  
REPORT PERIOD: July 1, 1992 Through December 31, 1992

I. INTRODUCTION

Enclosed is the Semiannual Radioactive Effluent Release Report for the period of July 1, 1992 through December 31, 1992. This report is submitted in accordance with Technical Specification 6.9.1.8 of Appendix A to River Bend Station (RBS) License Number NPF-47.

## II. SUPPLEMENTAL INFORMATION

### A. Regulatory Limits

#### 1. 10CFR20 Limits

##### a. Fission and Activation Gases

In accordance with Technical Specification 3.11.2.1, the dose rate due to noble gases released in gaseous effluents from the site to areas at and beyond the **SITE BOUNDARY** shall be limited to less than or equal to 500 millirems/year (mrems/yr) to the total body and less than or equal to 3000 mrems/yr to the skin:

$DR_{TB}$  = Dose rate to the total body in mrems/yr

$$= 3.15E+07 \sum_{i=1}^n K_i (\overline{X/Q}) \dot{Q}_i \leq 500 \text{ mrems/yr}$$

and

$DR_{SKIN}$  = Dose rate to the skin in mrems/yr

$$= 3.15E+07 \sum_{i=1}^n (L_i + 1.1M_i) (\overline{X/Q}) \dot{Q}_i \leq 3000 \text{ mrems/yr}$$

(above terms defined in RBS ODCM)

##### b. Radioiodines and Particulates

In accordance with Technical Specification 3.11.2.1, the dose rate due to iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than 8 days released in gaseous effluents from the site to areas at and beyond the **SITE BOUNDARY** shall be limited to less than or equal to 1500 mrems/yr to any organ:

$DR_{I\&EP_r}$  = Dose rate to the organ  $r$  for the age group of interest from iodines, tritium, and 8 day particulates via the inhalation pathway in mrems/yr

$$= \sum_{i=1}^n P_i (\overline{X/Q})_p \dot{Q}_i \leq 1500 \text{ mrems/yr}$$

(above terms defined in RBS ODCM)

c. Liquid Effluents

In accordance with Technical Specification 3.11.1.1, the concentration of radioactive material released in liquid effluents to **UNRESTRICTED AREAS** shall be limited to the concentrations specified in 10CFR20, Appendix B, Table II, Column 2 for radionuclides other than dissolved and entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2.0E-04 microcuries/ml total activity.

2. 10CFR50, Appendix I Limits

a. Fission and Activation Gases

In accordance with Technical Specification 3.11.2.2, the air dose due to noble gases released in gaseous effluents to areas at or beyond the **SITE BOUNDARY** shall be limited to:

$D_{\text{Gamma-Air}}$  = The gamma air dose from radioactive noble gases in millrad (mrad)

$$= \sum_{i=1}^n M_i \overline{(X/Q)} Q_i \leq 5 \text{ mrad/qtr} \\ \leq 10 \text{ mrad/yr}$$

$D_{\text{Beta-Air}}$  = Beta air dose from radioactive noble gases in mrad

$$= \sum_{i=1}^n N_i \overline{(X/Q)} Q_i \leq 10 \text{ mrad/qtr} \\ \leq 20 \text{ mrad/yr}$$

(above terms defined in RBS ODCM)

b. Radioiodines and Particulates

In accordance with Technical Specification 3.11.2.3, the dose to a **MEMBER OF THE PUBLIC** from iodine-131, iodine-133, tritium and all radionuclides in particulate form with half-lives greater than 8 days, in gaseous effluents releases to areas at and beyond the **SITE BOUNDARY** shall be limited to:

$D_{\text{I&EDP}_r}$  = Dose in mrem to the organ (r) of a specified age group from radioiodines, tritium, and 8 day particulates via the pathway of interest

$$= 3.17E-08 \sum_{i=1}^n R_{ir} \overline{(X/Q)}_D Q_i$$

and/or

$$= 3.17E-08 \sum_{i=1}^n R_{ir} \overline{(D/Q)} Q_i$$

and

$D_r$  = Dose in mrem to the organ ( $r$ ) of a specified age group from radioiodines, tritium, and 8 day particulates from all pathways

$$= \sum_{z=1}^n D_{IARDP_r} \leq 7.5 \text{ mrem/qtr} \\ \leq 15 \text{ mrem/yr}$$

(above terms defined RBS ODCM)

#### c. Liquid Effluents

In accordance with Technical Specification 3.11.1.2, the dose or dose commitment to a **MEMBER OF THE PUBLIC** from radioactive materials in liquid effluents released to **UNRESTRICTED AREAS** shall be limited to:

$$D_{ir} = \frac{A_{ir} \Delta t Q_i}{(DF) D_w}$$

$$D_{TOTAL_r} = \sum_{i=1}^n D_{ir}$$

$D_{TOTAL_r}$  = Total dose commitment to the organ ( $r$ ) due to all releases during the desired time interval in mrem

|     |             |            |        |              |
|-----|-------------|------------|--------|--------------|
| and | $D_{TOTAL}$ | Total Body | $\leq$ | 1.5 mrem/qtr |
|     |             |            | $\leq$ | 3 mrem/yr    |
|     | $D_{TOTAL}$ | Any Organ  | $\leq$ | 5 mrem/qtr   |
|     |             |            | $\leq$ | 10 mrem/yr   |

(above terms defined in RBS ODCM)

### 3. 40CFR190 Limits

In accordance with Technical Specification 3.11.4, the annual (calendar year) dose or dose commitment to any **MEMBER OF THE PUBLIC**, due to releases of radioactivity and to radiation from uranium fuel cycle sources, shall be limited to:

- $\leq$  25 mrems to the total body or any organ (except the thyroid)
- $\leq$  75 mrems to the thyroid

### 4. Miscellaneous Limits

#### a. Ventilation Exhaust Treatment System

In accordance with Technical Specification 3.11.2.5, the **VENTILATION EXHAUST TREATMENT SYSTEM** shall be used to reduce radioactive materials in gaseous waste prior to their discharge when the projected doses, due to gaseous effluent releases to areas at and beyond the **SITE BOUNDARY** would exceed 0.3 mrem to any organ in a 31 day period.

#### b. Liquid Radwaste Treatment System

In accordance with Technical Specification 3.11.1.3, the liquid radwaste treatment system shall be used to reduce the radioactive materials in liquid wastes prior to their discharge when the projected doses, due to the liquid effluent, to **UNRESTRICTED AREAS** would exceed 0.06 mrem to the total body or 0.2 mrem to any organ in a 31 day period.

## B. Maximum Permissible Concentrations

### 1. Gaseous Releases

The RBS Radiological Effluents Technical Specifications (RETS) for gaseous releases are based on the dose rate restrictions of 10CFR20, rather than the Maximum Permissible Concentrations (MPC) listed in 10CFR20 Appendix B, Table II, Column I.

### 2. Liquid Releases

The Maximum Permissible Concentration of radioactive materials in liquid effluents is limited by 10CFR20, Appendix B, Table II, Column 2. The MPC chosen is the most conservative value (i.e., the lowest) of either the soluble or insoluble MPC for each radionuclide.

## C. Average Energy

| Period              | E-Bar (MeV/dis) |
|---------------------|-----------------|
| 01/01/92 - 07/01/92 | 1.40            |
| 07/02/92 - 12/31/92 | 1.21            |

## D. Measurements and Approximations of Total Radioactivity

### 1. Gaseous Effluents

#### a. Fission and Activation Gases

Periodic grab samples are obtained from the Main Plant Exhaust Duct, Fuel Building Exhaust Vent and Radwaste Building Exhaust Vent. These samples are analyzed utilizing high purity germanium detectors coupled to computerized pulse height analyzers. The sampling and analysis frequencies are described in Table 1. Sampling and analysis of these effluent streams provide noble gas radionuclide relative abundances which can then be applied to the noble gas gross activity and gross activity release rate to obtain nuclide specific activities and release rates. The noble gas gross activity released within a specific time period is determined by integrating the stack monitor release rate over the considered time period. If no activity was detected between stack grab samples and significant increase in hourly averages were recorded, the nuclide relative abundances of the last sample which indicated the presence of activity was utilized to obtain nuclide specific activities. Correction factors for the monitors are derived and applied for each sampling period whenever noble gas radionuclides are detected in the effluent stream.

b. Particulates and Iodines

Particulates and iodines are continuously sampled from each of the three release points utilizing a particulate filter and charcoal cartridge in line with a sample pump (stack monitor pump). These filters and charcoal cartridges are removed and analyzed in accordance with the frequencies specified in Table 1. Analysis is performed to identify and quantify radionuclides utilizing high purity germanium detectors coupled to computerized pulse height analyzers. Given the nuclide specific activity concentrations, process flow rate, and time which the sample covered; the nuclide specific activity released to the environment can be obtained. Due to the continuous sampling process, it is assumed that the radioactive material is released to the environment at a constant rate within the sampling period. Sr-89 and Sr-90 are quantitatively analyzed by counting the digested filter precipitate with a gas flow proportional counter. Gross alpha analysis is performed using a zinc sulfide scintillation counter.

c. Tritium

Tritium grab samples are obtained from the three release points at the specified frequencies listed in Table 1 utilizing an ice bath condensation collection method. The collected sample is then analyzed utilizing a Liquid Scintillation Counter. Given the tritium concentration, process flow rate, and time period for which the sample is obtained, the tritium activity released to the environment can be determined. Due to the frequency of sampling, it is assumed that the tritium is released to the environment at a constant rate within the time period for which the sample is obtained.

2. Liquid Effluents

Representative grab samples are obtained from the appropriate sample recovery tank and analyzed prior to release of the tank in accordance with the frequencies listed in Table 2. Analysis for gamma emitting nuclides (including dissolved and entrained noble gases) is performed utilizing a high resolution germanium detector coupled to a computerized pulse height analyzer. Tritium concentration is determined utilizing a Liquid Scintillation Counter. Sr-89 and Sr-90 are quantitatively analyzed by counting the precipitate with a gas flow proportional counter. Fe-55 is counted with a Liquid Scintillation Counter after digestion of the iron. Gross alpha analysis is performed using a zinc sulfide scintillation counter.

Given the nuclide specific activity concentration and total volume of the tank that was released, the activity of each nuclide released to the environment can be determined.

## E. Batch Releases

### 1. Liquid

#### 3rd Quarter 1992

|   |   |                              |
|---|---|------------------------------|
| a. Number of batch releases   | : | 212                          |
| b. Total time period for batch releases   | : | 1435.48 hr                   |
| c. Maximum time period for batch releases   | : | 29.5 hr                      |
| d. Average time period for batch releases   | : | 6.80 hr                      |
| e. Minimum time period for a batch release  | : | 0.07 hr                      |
| f. Average stream flow during periods of<br>release of effluent into a flowing stream | : | 389,667 ft <sup>3</sup> /sec |

#### 4th Quarter 1992

|   |   |                              |
|---|---|------------------------------|
| a. Number of batch releases   | : | 110                          |
| b. Total time period for batch releases   | : | 818.93 hr                    |
| c. Maximum time period for batch releases   | : | 13.85 hr                     |
| d. Average time period for batch releases   | : | 7.62 hr                      |
| e. Minimum time period for a batch release  | : | 4.43 hr                      |
| f. Average stream flow during periods of<br>release of effluent into a flowing stream | : | 442,333 ft <sup>3</sup> /sec |

### 2. Gaseous

All gaseous releases from River Bend Station are considered continuous releases.

## F. Abnormal Releases

No abnormal Liquid or Gaseous release occurred during the reporting period of July 1, 1992 through December 31, 1992.



## G. Estimate of Total Error

### 1. Liquid

The maximum error associated with sample collection, laboratory analysis, and discharge volume are collectively estimated to be:

|                                     |   |   |       |
|-------------------------------------|---|---|-------|
| Fission and Activation Products     | : | ± | 14.2% |
| Tritium                             | : | ± | 14.2% |
| Dissolved and Entrained Noble Gases | : | ± | 14.2% |
| Gross Alpha Radioactivity           | : | ± | 14.2% |

### 2. Gaseous

The maximum errors (not including sample line loss) associated with sample flow, process flow, sample collection, monitor accuracy and laboratory analysis are collectively estimated to be:

|                              |   |   |       |
|------------------------------|---|---|-------|
| Fission and Activation Gases | : | ± | 37.0% |
| Iodines                      | : | ± | 18.6% |
| Particulates                 | : | ± | 18.6% |
| Tritium                      | : | ± | 18.2% |

### 3. Determination of Total Error

The total error (i.e., collective error due to sample collection, laboratory analysis, sample flow, process flow, monitor accuracy, etc.) is calculated using the following equation:

$$E_T = \sqrt{(E_1)^2 + (E_2)^2 + \dots + (E_n)^2}$$

where:

$E_T$  = total error

$E_1, E_2 \dots E_n$  = individual errors due to sample collection, laboratory analysis, sample flow, process flow, monitor accuracy, etc.

### III. GASEOUS EFFLUENTS SUMMARY INFORMATION

Refer to Tables 3, 4 and 5 for Summation of All Releases and Nuclides Released, respectively. It should be noted that an entry of "0.00E+00" Curie (Ci) or microcurie/second (uCi/sec) in this section does not indicate the absence of a radionuclide; but, rather, indicates that the concentration of the particular radionuclide was below the Lower Limit of Detection (LLD) as listed in Table 1.

### IV. LIQUID EFFLUENTS SUMMARY INFORMATION

Refer to Table 6 for Summation of All Releases and Nuclides Released. It should be noted that an entry of "0.00E+00" Ci or uCi/ml in this section does not indicate the absence of a radionuclide; but, rather, indicates that the concentration of the particular radionuclide was below the Lower Limit of Detection (LLD) as listed in Table 2.

### V. SOLID WASTE

Refer to Table 7. A revision to the 1st and 2nd quarter solid waste information accounting for additional shipments has also been provided.

### VI. RADIOLOGICAL IMPACT ON MAN

Doses to the maximally exposed individual offsite and populations were calculated using measured effluent and meteorological data. These doses can be found in Tables 8 through 12. Third quarter composite results were used for the fourth quarter dose calculations with both liquid and gaseous releases. The fourth quarter composite values and the final 40CFR190 determination will be provided in the Addendum to the Semi-Annual Radiological Effluents Release Report.

In addition, doses were calculated for a maximally - exposed member of the public inside the site boundary. Parameters and assumptions utilized to make this determination can be found in Table 13. The results of the calculations can be found in Table 14. The maximally exposed member of the public on site was the private driver who delivers an employee to work and returns later that day to pick him/her up. It should be noted that liquid effluent pathway dose was not considered since these individuals would not engage in activities that would allow exposure to this pathway.

### VII. METEOROLOGICAL DATA

See Tables 15 and 16 for cumulative joint frequency distributions and meteorological data for continuous releases.

### VIII. RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION OPERABILITY

The minimum number of channels required to be **OPERABLE** as described in Table 3.3.7.10-1 of Technical Specification 3.3.7.10 were, if inoperable at any time in the period 7/1/92 through 12/31/92, restored to operable status within the required time. Reporting of these inoperable channels in this report is, therefore, not required.

IX. RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION OPERABILITY

The minimum number of channels required to be **OPERABLE** as described in Table 3.3.7.11-1 of Technical Specification 3.3.7.11 were, if inoperable at any time in the period 7/1/92 through 12/31/92, restored to operable status within the required time. Reporting of these inoperable channels in this report is therefore, not required.

X. LIQUID HOLD UP TANKS

The maximum quantity of radioactive material, excluding tritium and dissolved or entrained noble gases, contained in any unprotected outdoor tank during the period of 7/1/92 through 12/31/92 was less than or equal to the 10 curie limit as required by Technical Specification 3.11.1.4.

XI. RADIOLOGICAL ENVIRONMENTAL MONITORING

There were no changes in sampling locations for the Radiological Environmental Monitoring Program (REMP) during the reporting period 7/1/92 through 12/31/92.

XII. LAND USE CENSUS

The Land Use Census, as required by Technical Specification 4.12.2, did not identify any location(s) that would yield a calculated dose or dose commitment greater than the values calculated.

XIII. OFFSITE DOSE CALCULATION MANUAL (ODCM)

There were no changes to the ODCM for the period 7/1/92 through 12/31/92.

XIV. MAJOR CHANGES TO RADIOACTIVE LIQUID, GASEOUS, AND SOLID WASTE TREATMENT SYSTEMS

There were no major changes to the radioactive liquid, gaseous, and solid waste treatment systems for the period of 7/1/92 through 12/31/92.

XV. PROCESS CONTROL PROGRAM (PCP)

No changes were made to the RBS Process Control Program (PCP) for the period 7/1/92 through 12/31/92.

**TABLE 1**  
**RADIOACTIVE GASEOUS WASTE SAMPLING AND ANALYSIS PROGRAM**

| GASEOUS<br>RELEASE<br>TYPE                                    | SAMPLING<br>FREQUENCY | MINIMUM<br>ANALYSIS<br>FREQUENCY        | TYPE OF<br>ACTIVITY ANALYSIS                | LOWER<br>LIMIT OF<br>DETECTION<br>(LLD)<br>uCi/ml |
|---|-----------------------|---|---|---|
| A. Main Plant<br>Exhaust<br>Duct                              | M<br>Grab<br>Sample   | M                                       | Principal Gamma<br>Emitters                 | 1.00E-04  |
|   |                       |   | H-3   | 1.00E-06  |
| B. Fuel<br>Building<br>Ventilation<br>Exhaust<br>Duct         | M<br>Grab<br>Sample   | M                                       | Principal Gamma<br>Emitters                 | 1.00E-04  |
|   |                       |   | H-3   | 1.00E-06  |
| C. Radwaste<br>Building<br>Ventilation<br>Exhaust<br>Duct     | M<br>Grab<br>Sample   | M                                       | Principal Gamma<br>Emitters                 | 1.00E-04  |
| D. All Release<br>Types as<br>listed in<br>A, B, & C<br>Above | Continuous            | W<br>Charcoal<br>Sample                 | I-131                                       | 1.00E-12  |
|   |                       |   | I-133                                       | 1.00E-10  |
|   | Continuous            | W<br>Particulate<br>Sample              | Principal Gamma<br>Emitters (I-131, Others) | 1.00E-11  |
|   | Continuous            | M<br>Composite<br>Particulate<br>Sample | Gross Alpha                                 | 1.00E-11  |
|   | Continuous            | Q<br>Composite<br>Particulate<br>Sample | Sr-89, Sr-90                                | 1.00E-11  |
|   | Continuous            | Noble Gas<br>Monitor                    | Noble Gases<br>Gross Beta or Gamma          | 1.00E-06  |

W = AT LEAST ONCE PER 7 DAYS  
M = AT LEAST ONCE PER 31 DAYS  
Q = AT LEAST ONCE PER 92 DAYS

**TABLE 2**  
**RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM**

| LIQUID RELEASE TYPE  | SAMPLING FREQUENCY | MINIMUM ANALYSIS FREQUENCY | TYPE OF ACTIVITY ANALYSIS                      | LOWER LIMIT OF DETECTION (LLD) uCi/ml |
|--|--------------------|----------------------------|--|---------------------------------------|
| A. Batch Waste Release (Liquid Radwaste Recovery Sample Tanks) | P<br>Each Batch    | P<br>Each Batch            | Principal Gamma Emitters: except for Ce-144    | 5.00E-07<br><hr/> 5.00E-06            |
|  |                    |                            | I-131  | 1.00E-06                              |
|  |                    |                            |  |                                       |
|  | P<br>One Batch/M   | M                          | Dissolved and Entrained Gases (Gamma Emitters) | 1.00E-05                              |
|  | P<br>Each Batch    | M<br>Composite             | H-3  | 1.00E-05                              |
|  |                    |                            | Gross Alpha                                    | 1.00E-07                              |
|  | P<br>Each Batch    | Q<br>Composite             | Sr-89, Sr-90                                   | 5.00E-08                              |
|  |                    |                            | Fe-55  | 1.00E-06                              |

P = Prior to each radioactive release

M = At least once per 31 days

Q = At least once per 92 days

TABLE 3  
Effluent and Waste Disposal Semi-Annual Report 1992 Year  
Gaseous Effluents - Summation of All Releases 3/4 Quarters

|  | Unit | Quarter 3 | Quarter 4 | Estimated<br>Total<br>Error % |
|--|------|-----------|-----------|-------------------------------|
|--|------|-----------|-----------|-------------------------------|

A. Noble Gases

|  |         |          |          |          |
|--|---------|----------|----------|----------|
| 1. Total Release   | Ci      | 3.25E+02 | 5.77E+01 | 3.70E+01 |
| 2. Average release<br>rate for period                    | uCi/sec | 4.13E+01 | 7.32E+00 |          |
| 3. Percent of<br>technical<br>specification<br>limit (1) | %       | 6.28     | 1.15     |          |

B. Iodines

|   |             |          |          |          |
|---|-------------|----------|----------|----------|
| 1. Total I-131 and<br>I-133   | I-131<br>Ci | 2.94E-04 | 2.47E-03 | 1.86E+01 |
|   | I-133<br>Ci | 2.39E-03 | 2.01E-02 | 1.86E+01 |
| 2. Average release<br>rate for period<br>uCi/sec                                      | I-131       | 3.73E-05 | 3.13E-02 |          |
|   | I-133       | 3.03E-04 | 2.55E-03 |          |
| 3. I-131 + I-133<br>contribution<br>percent of<br>technical<br>specification<br>limit | %           | 1.03E-02 | 8.72E-01 |          |

C. Particulates

|  |         |          |          |          |
|--|---------|----------|----------|----------|
| 1. Particulates with<br>half lives of > 8<br>days    | Ci      | 2.53E-05 | (2)      | 1.86E+01 |
| 2. Average release<br>rate for period                | uCi/sec | 3.20E-06 | (2)      |          |
| 3. Percent of<br>technical<br>specification<br>limit | %       | 6.44E-01 | (2)      |          |
| 4. Gross alpha<br>radioactivity                      | Ci      | 0.00E+00 | 0.00E+00 |          |

|  | Unit | Quarter 3 | Quarter 4 | Estimated<br>Total<br>Error % |
|--|------|-----------|-----------|-------------------------------|
|--|------|-----------|-----------|-------------------------------|

D. Tritium

|  |         |          |          |          |
|--|---------|----------|----------|----------|
| 1. Total Release                                     | Ci      | 6.05E-01 | 6.55E-01 | 1.82E+01 |
| 2. Average release<br>rate for period                | uCi/sec | 7.68E-02 | 8.31E-02 |          |
| 3. Percent of<br>technical<br>Specification<br>limit | %       | 1.30E-02 | 1.30E-02 |          |

- (1) Either the gamma air dose limit of 5 mrads/qtr or beta air dose limit of 10 mrads/qtr (T.S. 3.11.2.2.a), which ever is most limiting.
- (2) Data is not available for submission at this time, supplemental report will follow.

TABLE 4

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1992 YEAR  
GASEOUS EFFLUENTS - CONDITIONALLY ELEVATED RELEASES 3/4 QUARTERS

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

## 1. Fission Gases

|                  |    |          |          |     |     |
|------------------|----|----------|----------|-----|-----|
| Argon-41         | Ci | 6.47E-01 | 0.00E+00 | N/A | N/A |
| Krypton-85m      | Ci | 4.14E+01 | 0.00E+00 | N/A | N/A |
| Krypton-85       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Krypton-87       | Ci | 5.33E+01 | 4.93E+00 | N/A | N/A |
| Krypton-88       | Ci | 9.24E+01 | 0.00E+00 | N/A | N/A |
| Xenon-133m       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Xenon-133        | Ci | 3.47E+01 | 1.90E+01 | N/A | N/A |
| Xenon-135m       | Ci | 2.01E+01 | 0.00E+00 | N/A | N/A |
| Xenon-135        | Ci | 1.32E+01 | 7.62E+00 | N/A | N/A |
| Xenon-137        | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Xenon-138        | Ci | 8.02E+01 | 0.00E+00 | N/A | N/A |
| Unidentified     | Ci | N/A      | N/A      | N/A | N/A |
| Total For Period | Ci | 3.08E+02 | 3.16E+01 | N/A | N/A |

## 2. Gaseous Iodines

|            |    |          |          |     |     |
|------------|----|----------|----------|-----|-----|
| Iodine-131 | Ci | 2.91E-04 | 2.44E-03 | N/A | N/A |
| Iodine-132 | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iodine-133 | Ci | 2.38E-03 | 2.00E-02 | N/A | N/A |
| Iodine-134 | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iodine-135 | Ci | 0.00E+00 | 3.28E-03 | N/A | N/A |
| Total      | Ci | 2.67E-03 | 2.57E-02 | N/A | N/A |



## Continuous Mode

## Batch Mode

| Nuclides Released | Unit | Quarter 3 | Quarter 4 | Quarter 3 | Quarter 4 |
|-------------------|------|-----------|-----------|-----------|-----------|
|-------------------|------|-----------|-----------|-----------|-----------|

## 3. Particulates

|                  |    |          |          |     |     |
|------------------|----|----------|----------|-----|-----|
| Strontium-89     | Ci | 1.60E-05 | (1)      | N/A | N/A |
| Strontium-90     | Ci | 6.53E-07 | (1)      | N/A | N/A |
| Cesium-134       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cesium-137       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Barium-140       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cobalt-60        | Ci | 0.00E+00 | 5.14E-05 | N/A | N/A |
| Chromium-51      | Ci | 3.44E-06 | 0.00E+00 | N/A | N/A |
| Zirconium-95     | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Niobium-95       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Zinc-65          | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iron-59          | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Manganese-54     | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iodine-131       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cerium-141       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cerium-144       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cobalt-58        | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Silver-110m      | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Molybdenum-99    | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Unidentified     | Ci | N/A      | N/A      | N/A | N/A |
| Total For Period | Ci | 2.01E-05 | (1)      | N/A | N/A |

| Nuclides Released | Unit | Quarter 3 | Quarter 4 | Quarter 3 | Quarter 4 |
|-------------------|------|-----------|-----------|-----------|-----------|
|-------------------|------|-----------|-----------|-----------|-----------|

4. Tritium

|            |    |          |          |     |     |
|------------|----|----------|----------|-----|-----|
| Hydrogen-3 | Ci | 4.06E-01 | 4.59E-01 | N/A | N/A |
|------------|----|----------|----------|-----|-----|

(1) Data is not available for submission at this time, supplemental report will follow.

NOTE: Main Plant Exhaust Duct is considered a conditionally elevated release point.

TABLE 5

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1992 YEAR  
GASEOUS EFFLUENTS - GROUND LEVEL RELEASES 3/4 QUARTERS

| Continuous Mode   |      |           |           | Batch Mode |           |
|-------------------|------|-----------|-----------|------------|-----------|
| Nuclides Released | Unit | Quarter 3 | Quarter 4 | Quarter 3  | Quarter 4 |

## 1. Fission Gases

|                  |    |          |          |     |     |
|------------------|----|----------|----------|-----|-----|
| Argon-41         | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Krypton-85m      | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Krypton-85       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Krypton-87       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Krypton-88       | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Xenon-133m       | Ci | 7.83E-01 | 0.00E+00 | N/A | N/A |
| Xenon-133        | Ci | 3.47E+00 | 6.30E+00 | N/A | N/A |
| Xenon-135m       | Ci | 0.00E+00 | 6.96E+00 | N/A | N/A |
| Xenon-135        | Ci | 1.40+01  | 1.98E+01 | N/A | N/A |
| Xenon-137        | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Xenon-138        | Ci | 0.00E+00 | 3.89E+02 | N/A | N/A |
| Unidentified     | Ci | N/A      | N/A      | N/A | N/A |
| Total For Period | Ci | 1.71E+01 | 2.61E+01 | N/A | N/A |

## 2. Gaseous Iodines

|            |    |          |          |     |     |
|------------|----|----------|----------|-----|-----|
| Iodine-131 | Ci | 2.68E-06 | 2.60E-05 | N/A | N/A |
| Iodine-132 | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iodine-133 | Ci | 1.08E-05 | 1.23E-04 | N/A | N/A |
| Iodine-134 | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iodine-135 | Ci | 0.00E+00 | 3.28E-03 | N/A | N/A |
| Total      | Ci | 1.35E-05 | 3.43E-03 | N/A | N/A |

## Continuous Mode

## Batch Mode

| Nuclides Released | Unit | Quarter 3 | Quarter 4 | Quarter 3 | Quarter 4 |
|-------------------|------|-----------|-----------|-----------|-----------|
|-------------------|------|-----------|-----------|-----------|-----------|

## 3. Particulates

|                      |    |          |          |     |     |
|----------------------|----|----------|----------|-----|-----|
| Strontium-89         | Ci | 3.61E-08 | (1)      | N/A | N/A |
| Strontium-90         | Ci | 0.00E+00 | (1)      | N/A | N/A |
| Cesium-134           | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cesium-137           | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Barium               | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Lanthanum-140        | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cobalt-60            | Ci | 4.27E-06 | 1.13E-04 | N/A | N/A |
| Chromium-51          | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Zirconium-niobium-95 | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Zinc-65              | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iron-59              | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Manganese-54         | Ci | 8.46E-07 | 0.00E+00 | N/A | N/A |
| Iodine-131           | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iodine-132           | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Iodine-133           | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cerium-141           | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cerium-144           | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Cobalt-58            | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Silver-110m          | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Molybdenum-99        | Ci | 0.00E+00 | 0.00E+00 | N/A | N/A |
| Unidentified         | Ci | N/A      | N/A      | N/A | N/A |
| Total For Period     | Ci | 5.15E-06 | (1)      | N/A | N/A |

| Continuous Mode   |      |           |           | Batch Mode |           |
|-------------------|------|-----------|-----------|------------|-----------|
| Nuclides Released | Unit | Quarter 3 | Quarter 4 | Quarter 3  | Quarter 4 |

#### 4.0 Tritium

|            |    |          |          |     |     |
|------------|----|----------|----------|-----|-----|
| Hydrogen-3 | Ci | 1.99E-01 | 1.96E-01 | N/A | N/A |
|------------|----|----------|----------|-----|-----|

- (1) Data is not available for submission at this time, supplemental report will follow.

**NOTE:** Fuel Building Exhaust Vent and Radwaste Building Exhaust Vent are considered ground level release points.

TABLE 6

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1992 YEAR  
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

|  | Unit | Quarter 3 | Quarter 4 | Est.<br>Total<br>Error % |
|--|------|-----------|-----------|--------------------------|
|--|------|-----------|-----------|--------------------------|

## A. Fission and activation products

|  |        |          |     |          |
|--|--------|----------|-----|----------|
| 1. Total release (not including tritium, gases, alpha) | Ci     | 8.63E-01 | (4) | 1.42E+01 |
| 2. Average diluted concentration during period         | uCi/ml | 7.23E-07 | (4) |          |
| 3. Percent of applicable limit (1)                     | %      | 6.90E+01 | (4) |          |

## B. Tritium

|  |        |          |          |          |
|--|--------|----------|----------|----------|
| 1. Total release                               | Ci     | 4.26E+00 | 3.12E+00 | 1.42E+01 |
| 2. Average diluted concentration during period | uCi/ml | 3.58E-06 | 3.21E-06 |          |
| 3. Percent of applicable limit (2)             | %      | 1.19E-01 | 1.07E-01 |          |

## C. Dissolved and entrained gases

|  |        |          |          |          |
|--|--------|----------|----------|----------|
| 1. Total release                               | Ci     | 5.50E-02 | 4.06E-02 | 1.42E+01 |
| 2. Average diluted concentration during period | uCi/ml | 4.61E-08 | 4.17E-08 |          |
| 3. Percent of applicable limit (3)             | %      | 2.31E-02 | 2.08E-02 |          |

## D. Gross alpha radioactivity

|                  |    |          |          |          |
|------------------|----|----------|----------|----------|
| 1. Total release | Ci | 0.00E+00 | 0.00E+00 | 1.42E+01 |
|------------------|----|----------|----------|----------|

| Unit | Quarter 3 | Quarter 4 | Est. Total Error % |
|------|-----------|-----------|--------------------|
|------|-----------|-----------|--------------------|

E. Volume of waste released (prior to dilution)

|        |          |          |          |
|--------|----------|----------|----------|
| Liters | 1.19E+07 | 5.99E+06 | 8.73E-01 |
|--------|----------|----------|----------|

F. Volume of dilution water

|        |          |          |          |
|--------|----------|----------|----------|
| Liters | 1.19E+12 | 9.74E+08 | 5.70E-01 |
|--------|----------|----------|----------|

- (1) 25% of the 5 Ci annual limit (1.25 Ci) for liquid releases is the applicable limit from 10CFR50 Appendix I, except for tritium and dissolved or entrained noble gases.
- (2) 10CFR20, Appendix B, Table II, Column 2 MPC limit of 3.00-03 uCi/ml for tritium.
- (3) Technical Specification 3.11.1.1 limit of 2.00E-04 uCi/ml for dissolved or entrained noble gases in liquid effluents.
- (4) Data is not available at this time, supplemental report will follow.

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1992 YEAR  
LIQUID EFFLUENTS 3/4 QUARTERS

G. Particulates

| Nuclides Released | Unit | Continuous Mode |           | Batch Mode |           |
|-------------------|------|-----------------|-----------|------------|-----------|
|                   |      | Quarter 3       | Quarter 4 | Quarter 3  | Quarter 4 |
| Hydrogen-3        | Ci   | N/A             | N/A       | 4.26E+00   | 3.12E+00  |
| Arsenic-76        | Ci   | N/A             | N/A       | 8.20E-05   | 3.13E-06  |
| Strontium-89      | Ci   | N/A             | N/A       | 8.43E-03   | (1)       |
| Strontium-90      | Ci   | N/A             | N/A       | 1.48E-04   | (1)       |
| Strontium-91      | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Strontium-92      | Ci   | N/A             | N/A       | 1.97E-04   | 5.17E-06  |
| Cesium-134        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Cesium-137        | Ci   | N/A             | N/A       | 1.13E-04   | 1.95E-04  |
| Iodine-131        | Ci   | N/A             | N/A       | 8.69E-05   | 8.92E-04  |
| Iodine-132        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Iodine-133        | Ci   | N/A             | N/A       | 2.18E-04   | 9.92E-05  |
| Iodine-134        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Iodine-135        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Sodium-24         | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Cobalt-57         | Ci   | N/A             | N/A       | 6.14E-06   | 0.00E+00  |
| Cobalt-58         | Ci   | N/A             | N/A       | 1.17E-02   | 3.38E-03  |
| Cobalt-60         | Ci   | N/A             | N/A       | 6.12E-01   | 1.74E-01  |
| Iron-55           | Ci   | N/A             | N/A       | 9.65E-02   | (1)       |
| Iron-59           | Ci   | N/A             | N/A       | 1.68E-03   | 1.14E-03  |
| Zinc-65           | Ci   | N/A             | N/A       | 2.09E-02   | 4.96E-03  |
| Manganese-54      | Ci   | N/A             | N/A       | 9.29E-02   | 4.25E-02  |
| Manganese-56      | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Chromium-51       | Ci   | N/A             | N/A       | 3.58E-03   | 3.28E-02  |
| Zirconium-95      | Ci   | N/A             | N/A       | 5.33E-05   | 5.24E-04  |
| Niobium-95        | Ci   | N/A             | N/A       | 1.14E-03   | 4.49E-04  |
| Niobium-97        | Ci   | N/A             | N/A       | 1.42E-03   | 7.31E-05  |
| Molybdenum-99     | Ci   | N/A             | N/A       | 1.61E-04   | 2.16E-04  |



| Nuclides Released | Unit | Continuous Mode |           | Batch Mode |           |
|-------------------|------|-----------------|-----------|------------|-----------|
|                   |      | Quarter 3       | Quarter 4 | Quarter 3  | Quarter 4 |
| Technicium-99m    | Ci   | N/A             | N/A       | 1.87E-04   | 2.42E-04  |
| Barium-140        | Ci   | N/A             | N/A       | 7.58E-04   | 1.46E-03  |
| Lanthanum-140     | Ci   | N/A             | N/A       | 5.09E-03   | 2.43E-02  |
| Cerium-141        | Ci   | N/A             | N/A       | 3.19E-04   | 1.22E-03  |
| Cerium-144        | Ci   | N/A             | N/A       | 5.17E-04   | 0.00E+00  |
| Antimony-122      | Ci   | N/A             | N/A       | 2.50E-04   | 0.00E+00  |
| Antimony-124      | Ci   | N/A             | N/A       | 1.78E-03   | 4.64E-04  |
| Rhodium-105       | Ci   | N/A             | N/A       | 0.00E+00   | 1.12E-04  |
| Bromine-82        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Neptunium-239     | Ci   | N/A             | N/A       | 2.93E-04   | 6.72E-04  |
| Yttrium-91m       | Ci   | N/A             | N/A       | 3.49E-05   | 0.00E+00  |
| Yttrium-92        | Ci   | N/A             | N/A       | 5.28E-04   | 0.00E+00  |
| Silver-110m       | Ci   | N/A             | N/A       | 4.75E-04   | 1.12E-05  |
| Tungsten-187      | Ci   | N/A             | N/A       | 2.668E-04  | 0.00E+00  |
| Copper-64         | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Tin-113           | Ci   | N/A             | N/A       | 2.89E-05   | 3.36E-05  |
| Tellurium-132     | Ci   | N/A             | N/A       | 3.48E-05   | 8.01E-05  |
| Ruthenium-103     | Ci   | N/A             | N/A       | 5.07E-05   | 1.46E-04  |
| Ruthenium-105     | Ci   | N/A             | N/A       | 8.24E-05   | 1.49E-04  |
| Total For Period  | Ci   | N/A             | N/A       | 5.12E+00   | (1)       |

(1) Data is not available at this time, supplemental report will follow.

## H. DISSOLVED AND ENTRAINED GASES

| Nuclides Released | Unit | Continuous Mode |           | Batch Mode |           |
|-------------------|------|-----------------|-----------|------------|-----------|
|                   |      | Quarter 3       | Quarter 4 | Quarter 3  | Quarter 4 |
| Argon-41          | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Krypton-85m       | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Krypton-85        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Krypton-87        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Krypton-88        | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Xenon-131m        | Ci   | N/A             | N/A       | 2.21E-04   | 1.75E-04  |
| Xenon-133m        | Ci   | N/A             | N/A       | 2.79E-04   | 2.19E-04  |
| Xenon-133         | Ci   | N/A             | N/A       | 2.40E-02   | 1.75E-02  |
| Xenon-135m        | Ci   | N/A             | N/A       | 8.08E-05   | 0.00E+00  |
| Xenon-135         | Ci   | N/A             | N/A       | 3.00E-02   | 2.27E-02  |
| Xenon-137         | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Xenon-138         | Ci   | N/A             | N/A       | 0.00E+00   | 0.00E+00  |
| Unidentified      | Ci   | N/A             | N/A       | N/A        | N/A       |
| Total For Period  | Ci   | N/A             | N/A       | 5.46E-02   | 4.06E-02  |

**TABLE 7**  
**Effluent and Waste Disposal Semi-Annual Report 1992 Year**  
**Solid Waste and Irradiated Fuel Shipments**  
**Reporting Period 01/01/92 to 06/01/92 Quarters 1/2 (Revised)**

A. Solid Waste Shipped for Burial or Disposal (Not irradiated fuel)

| 1. Type of Waste  | Unit                   | 6 Month Period       | Waste Class     | Estimated Total Error % |
|---|------------------------|----------------------|-----------------|-------------------------|
| a. Spent resins, filter sludges<br>evaporator bottoms, etc. | **m <sup>3</sup><br>Ci | 111.8<br>304.0       | A-U<br>A-S<br>B | See Below               |
| b. Dry compressible wastes,<br>contaminated equipment, etc. | **m <sup>3</sup><br>Ci | 8.75E+01<br>1.28E+00 | A-U             | See Below               |
| c. Irradiated<br>components,<br>control rods,<br>etc.       | **m <sup>3</sup><br>Ci | 0.00E+00<br>0.00E+00 | N/A             | N/A                     |
| d. Other (None)   | **m <sup>3</sup><br>Ci | 0.00E+00<br>0.00E+00 | N/A             | N/A                     |

\*\* - Volume considered to be the total disposal volume of the container.

Radwaste Estimated Error (%)

Waste types considered are processed solid waste (i.e., resin, filter media...) and non-compactable/compactable dry active waste.

1. Possible Errors
  - a. Volume
  - b. Representative sampling
  - c. Instrument/counting
  - d. Dose to Curie calculations
2. Volume Error  
 Radwaste vendor personnel have stated that level indication can be determined to  $\pm 0.5$  inches. This correlates to approximately 1.0%. Container manufacturer stated design tolerance allows for 1.0% deviation from container dimensions.
3. Representative Sampling Error  
 Sampling error for processed resins is based upon obtaining a representative sample from the waste being processed using an iso-lock sampler. Sampling error for dry active waste is based upon obtaining a representative sample from the material being packaged. This error is assumed to be  $\pm 10\%$ , which is consistent with industry standards.
4. Instrument/Counting Error  
 The error caused by sample geometry, counting time, sample activity and instrument background is estimated to be  $\pm 10\%$ . The error for radiological survey instrumentation is estimated to be  $\pm 20\%$ .
5. Dose to Curie Calculations  
 The Dose to Curie method used to calculate activity suffers from analytical accuracy in that certain important parameters are neglected. These parameters are geometry of package, measuring instrument characteristics, build-up, internal attenuation effect, and external media attenuation. An activity correction factor is applied to provide adjustment for these factors.

## 2. ESTIMATES OF MAJOR NUCLIDES BY WASTE STREAM

| Type of Waste   | Spent Resins, Filter Sludges, Evaporator Bottoms, Etc. |                   | Dry Compressible Waste, Contaminated Equipment, Etc. |                   | Irradiated Components Control Rods, Etc. | Other (None) |
|---|--|-------------------|--|-------------------|--|--------------|
| Principle Radionuclides (Identity and % Abundance)  | Isotope  | Percent Abundance | Isotope  | Percent Abundance | N/A                                      | N/A          |
|   | Co-60  | 65.994%           | Fe-55  | 50.160%           |  |              |
|   | Fe-55  | 15.658%           | Co-60  | 25.730%           |  |              |
|   | Mn-54  | 6.790%            | Cr-51  | 8.420%            |  |              |
|   | Cs-137   | 2.689%            | Mn-54  | 4.960%            |  |              |
|   | Zn-65  | 2.249%            | Sr-89  | 3.170%            |  |              |
|   | Sr-89  | 1.773%            | Zn-65  | 3.010%            |  |              |
|   | Cs-134   | 1.671%            | Cs-137   | 2.340%            |  |              |
|   | Co-58  | 1.102%            | Co-58  | 1.380%            |  |              |
|   | Sr-90  | 0.924%            | Fe-59  | 0.081%            |  |              |
|   | Ni-63  | 0.432%            | Sr-90  | 0.020%            |  |              |
|   | Ba/La  |                   | Pu-238   | 0.000%            |  |              |
|   | -140   | 0.220%            | Pu-  |                   |  |              |
|   | Cr-51  | 0.021%            | 239/40   | 0.000%            |  |              |
|   | C-14   | 0.119%            | Am-241   | 0.000%            |  |              |
|   | Nb-95  | 0.085%            | Cm-242   | 0.000%            |  |              |
|   | Ce-144   | 0.053%            | Cm-  |                   |  |              |
|   | H-3  | 0.040%            | 243/44   | 0.000%            |  |              |
|   | I-131  | 0.000%            |  |                   |  |              |
|   | Pu-238   | 0.000%            |  |                   |  |              |
|   | Pu-  |                   |  |                   |  |              |
|   | 239/40   | 0.000%            |  |                   |  |              |
|   | Cm-242   | 0.000%            |  |                   |  |              |
|   | Pu-241   | 0.000%            |  |                   |  |              |
|   | I-129  | 0.000%            |  |                   |  |              |
|   | Tc-99  | 0.000%            |  |                   |  |              |
|   | Nb-94  | 0.000%            |  |                   |  |              |
|   | Ni-59  | 0.000%            |  |                   |  |              |
| Above Determined By:<br>A. Measurement<br>B. Estimation<br>C. Measurement and Correlation | C  |                   | C  |                   | N/A                                      | N/A          |
| Type of Container   | Strong, Tight Liners                                   |                   | Strong, Tight Containers                             |                   | N/A                                      | N/A          |
| Solidification Agent or Absorbent   | Cement - 2 Liners<br>and<br>None - 18 Liners           |                   | None   |                   | N/A                                      | N/A          |

## 3. SOLID WASTE DISPOSITION

Number of Shipments

33

08

Mode of Transportation

Truck

Truck

Destination

Barnwell, S.C.

Beatty, NV.

## B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments

Zero (0)

Mode of Transportation

N/A

Destination

N/A

**TABLE 7**  
**Effluent and Waste Disposal Semi-Annual Report 1992 Year**  
**Solid Waste and Irradiated Fuel Shipments**  
**Reporting Period 07/01/92 to 12/31/92 Quarters 3/4**

A. Solid Waste Shipped for Burial or Disposal (Not irradiated fuel)

| 1. Type of Waste  | Unit                   | 6 Month Period       | Waste Class | Estimated Total Error % |
|---|------------------------|----------------------|-------------|-------------------------|
| a. Spent resins, filter sludges<br>evaporator bottoms, etc. | **m <sup>3</sup><br>Ci | 106.5<br>378.0       | A-U<br>A-S  | See Below               |
| b. Dry compressible wastes,<br>contaminated equipment, etc. | **m <sup>3</sup><br>Ci | 1.23E+02<br>6.10E+00 | A-U         | See Below               |
| c. Irradiated<br>components,<br>control rods,<br>etc.       | **m <sup>3</sup><br>Ci | 0.00E+00<br>0.00E+00 | N/A         | N/A                     |
| d. Other (None)   | **m <sup>3</sup><br>Ci | 0.00E+00<br>0.00E+00 | N/A         | N/A                     |

\*\* - Volume considered to be the total disposal volume of the container.

Radwaste Estimated Error (%)

Waste types considered are processed solid waste (i.e., resin, filter media...) and non-compactable/compactable dry active waste.

1. Possible Errors
  - a. Volume
  - b. Representative sampling
  - c. Instrument/counting
  - d. Dose to Curie calculations
2. Volume Error  
 Radwaste vendor personnel have stated that level indication can be determined to  $\pm 0.5$  inches. This correlates to approximately 1.0%. Container manufacturer stated design tolerance allows for 1.0% deviation from container dimensions.
3. Representative Sampling Error  
 Sampling error for processed resins is based upon obtaining a representative sample from the waste being processed using an iso-lock sampler. Sampling error for dry active waste is based upon obtaining a representative sample from the material being packaged. This error is assumed to be  $\pm 10\%$ , which is consistent with industry standards.
4. Instrument/Counting Error  
 The error caused by sample geometry, counting time, sample activity and instrument background is estimated to be  $\pm 10\%$ . The error for radiological survey instrumentation is estimated to be  $\pm 20\%$ .
5. Dose to Curie Calculations  
 The Dose to Curie method used to calculate activity suffers from analytical accuracy in that certain important parameters are neglected. These parameters are geometry of package, measuring instrument characteristics, build-up, internal attenuation effect, and external media attenuation. An activity correction factor is applied to provide adjustment for these factors.

## 2. ESTIMATES OF MAJOR NUCLIDES BY WASTE STREAM

| Type of Waste   | Spent Resins, Filter Sludges, Evaporator Bottoms, Etc. |                   | Dry Compressible Waste, Contaminated Equipment, Etc. |                   | Irradiated Components Control Rods, Etc. | Other (None) |
|---|--|-------------------|--|-------------------|--|--------------|
| Principle Radionuclides (Identity and % Abundance)  | Isotope  | Percent Abundance | Isotope  | Percent Abundance | N/A                                      | N/A          |
|   | Co-60  | 62.339%           | Fe-55  | 46.030%           |  |              |
|   | Fe-55  | 18.123%           | Co-60  | 22.770%           |  |              |
|   | Mn-54  | 7.986%            | Cr-51  | 15.540%           |  |              |
|   | Cr-51  | 3.978%            | Mn-54  | 5.110%            |  |              |
|   | Zn-65  | 3.199%            | Zn-65  | 3.230%            |  |              |
|   | Co-58  | 1.294%            | Co-58  | 2.130%            |  |              |
|   | Sr-89  | 1.182%            | Cs-137   | 2.010%            |  |              |
|   | Ni-63  | 0.531%            | Co-58  | 1.610%            |  |              |
|   | Ba/La-140  | 0.488%            | Fe-59  | 1.570%            |  |              |
|   | Cs-137   | 0.400%            | Sr-90  | 0.000%            |  |              |
|   | Cs-134   | 0.237%            | Pu-238   | 0.000%            |  |              |
|   | Sr-90  | 0.093%            | Pu-  |                   |  |              |
|   | C-14   | 0.077%            | 239/40   | 0.000%            |  |              |
|   | Ce-144   | 0.028%            | Am-241   | 0.000%            |  |              |
|   | I-131  | 0.022%            | Cm-242   | 0.000%            |  |              |
|   | H-3  | 0.012%            | Cm-  |                   |  |              |
|   | Pu-241   | 0.011%            | 243/44   | 0.000%            |  |              |
|   | Pu-238   | 0.000%            |  |                   |  |              |
|   | Pu-  |                   |  |                   |  |              |
|   | 239/40   | 0.000%            |  |                   |  |              |
|   | Cm-242   | 0.000%            |  |                   |  |              |
|   | Am-241   | 0.000%            |  |                   |  |              |
|   | I-129  | 0.000%            |  |                   |  |              |
|   | Tc-99  | 0.000%            |  |                   |  |              |
|   | Nb-94  | 0.000%            |  |                   |  |              |
|   | Ni-59  | 0.000%            |  |                   |  |              |
| Above Determined By:<br>A. Measurement<br>B. Estimation<br>C. Measurement and Correlation | C  |                   | C  |                   | N/A                                      | N/A          |
| Type of Container   | Strong, Tight Liners                                   |                   | Strong, Tight Containers                             |                   | N/A                                      | N/A          |
| Solidification Agent or Absorbent   | None - 20 liners                                       |                   | None   |                   | N/A                                      | N/A          |

### 3. SOLID WASTE DISPOSITION

Number of Shipments

41

44

Mode of Transportation

Truck

Truck

Destination

Barnwell, S.C.

Beatty, NV.

#### B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments

Zero (0)

Mode of Transportation

N/A

Destination

N/A

TABLE 8

Maximum Individual Doses Due to  
Noble Gas Releases  
1992

|                   | Critical Sector | Critical Distance | Whole Body Dose*<br>(mrem) | Skin Dose*<br>(mrem) |
|-------------------|-----------------|-------------------|----------------------------|----------------------|
| 1st Quarter       | WNW             | 994m              | 2.50E-02                   | 4.10E-02             |
| 2nd Quarter       | WNW             | 994m              | 0.00E+00                   | 0.00E+00             |
| Semi-Annual Total |                 |                   | 2.50E-02                   | 4.10E-02             |
| 3rd Quarter       | WNW             | 994m              | 2.60E-01                   | 4.30E-01             |
| 4th Quarter       | WNW             | 994m              | 3.30E-02                   | 7.20E-02             |
| Semi-Annual Total |                 |                   | 2.93E-01                   | 5.02E-01             |
| Annual Total      |                 |                   | 3.18E-01                   | 5.43E-01             |

\*All age groups equally exposed

TABLE 9

Maximum Individual Doses Due To  
Gaseous Releases (H3, Radioiodines and Particulates)  
1992

| Significant Organ Dose (mrem) |                 |                       |                       |                   |                  |
|-------------------------------|-----------------|-----------------------|-----------------------|-------------------|------------------|
|                               | Critical Sector | Critical*<br>Distance | Critical<br>Age Group | Critical<br>Organ | Critical<br>Dose |
| 1st Quarter                   | WNW             | 994m                  | Child                 | Thyroid           | 1.65E-01         |
| 2nd Quarter                   | WNW             | 994m                  | Child                 | Thyroid           | 4.20E-03         |
| Semi-Annual<br>Total          |                 |                       |                       |                   | 1.69E-01         |
| 3rd Quarter                   | WNW             | 994m                  | Child                 | Thyroid           | 4.32E-03         |
| 4th Quarter                   | WNW             | 994m                  | Child                 | Thyroid           | 9.70E-02         |
| Semi-Annual<br>Total          |                 |                       |                       |                   | 1.01E-01         |
| Annual Total                  |                 |                       |                       |                   | 2.07E-01         |

\*The 994m maximum individual includes a "control cow" at 4.5 miles in the WNW sector



TABLE 10

Maximum Individual Doses (Liquid)  
1992

Critical Receptor: Edge of Initial Mixing Zone

|                   | Whole Body Dose (mrem) |          | Significant Organ Dose (mrem) |                |          |
|-------------------|------------------------|----------|-------------------------------|----------------|----------|
|                   | Critical Age           | Dose     | Critical Age                  | Critical Organ | Dose     |
| 1st Quarter       | Teen                   | 9.10E-02 | Adult                         | GI Tract       | 1.00E+00 |
| 2nd Quarter       | Teen                   | 5.50E-02 | Adult                         | GI Tract       | 4.90E-01 |
| Semi-Annual Total |                        | 1.46E-01 |                               |                | 1.49E+00 |

|                   |      |          |       |          |          |
|-------------------|------|----------|-------|----------|----------|
| 3rd Quarter       | Teen | 2.30E-01 | Adult | GI Tract | 1.90E+00 |
| 4th Quarter       | Teen | 1.00E-01 | Adult | GI Tract | 1.00E+00 |
| Semi-Annual Total |      | 3.30E-01 |       |          | 2.90E+00 |
| Annual Total      |      | 4.76E-01 |       |          | 4.39E+00 |

TABLE 11

SEMI-ANNUAL POPULATION DOSE (GASEOUS)  
RELEASED OCCURRING 01/01/92 THROUGH 06/30/92

| PATHWAY | WHOLE BODY DOSE (MAN-REM) | THYROID DOSE (MAN-REM) |
|---------|---------------------------|------------------------|
|---------|---------------------------|------------------------|

SUBMERSION IN NOBLE GASES

|             |          |          |
|-------------|----------|----------|
| 1st Quarter | 1.10E-02 | 1.10E-02 |
| 2nd Quarter | 0.00E+00 | 0.00E+00 |

CONTAMINATED GROUND

|             |          |          |
|-------------|----------|----------|
| 1st Quarter | 4.70E-05 | 4.70E-05 |
| 2nd Quarter | 2.90E-04 | 2.90E-04 |

INHALATION

|             |          |          |
|-------------|----------|----------|
| 1st Quarter | 4.90E-04 | 4.30E-02 |
| 2nd Quarter | 2.30E-04 | 8.10E-04 |

VEGETATION CONSUMPTION

|             |          |          |
|-------------|----------|----------|
| 1st Quarter | 3.00E-04 | 2.80E-02 |
| 2nd Quarter | 1.40E-04 | 9.20E-04 |

COW MILK CONSUMPTION

|             |          |          |
|-------------|----------|----------|
| 1st Quarter | 8.20E-05 | 2.90E-02 |
| 2nd Quarter | 1.80E-05 | 7.10E-04 |

BEEF CONSUMPTION

|             |          |          |
|-------------|----------|----------|
| 1st Quarter | 6.40E-05 | 5.40E-03 |
| 2nd Quarter | 3.00E-05 | 1.50E-04 |

|       |          |          |
|-------|----------|----------|
| Total | 1.27E-02 | 1.19E-01 |
|-------|----------|----------|

AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)

|             |          |          |
|-------------|----------|----------|
| 1st Quarter | 1.03E-05 | 1.00E-04 |
| 2nd Quarter | 6.09E-07 | 2.48E-06 |
| Total       | 1.09E-05 | 1.03E-04 |

TABLE 11

SEMI-ANNUAL POPULATION DOSE (GASEOUS)  
RELEASED OCCURRING 07/01/92 THROUGH 12/31/92

| PATHWAY | WHOLE BODY DOSE (MAN-REM) | THYROID DOSE (MAN-REM) |
|---------|---------------------------|------------------------|
|---------|---------------------------|------------------------|

SUBMERSION IN NOBLE GASES

|             |          |          |
|-------------|----------|----------|
| 3rd Quarter | 2.30E-01 | 2.30E-01 |
| 4th Quarter | 3.50E-02 | 3.50E-02 |

CONTAMINATED GROUND

|             |          |          |
|-------------|----------|----------|
| 3rd Quarter | 7.00E-05 | 7.00E-05 |
| 4th Quarter | 6.60E-04 | 6.60E-04 |

INHALATION

|             |          |          |
|-------------|----------|----------|
| 3rd Quarter | 2.71E-04 | 1.30E-03 |
| 4th Quarter | 4.40E-04 | 1.80E-02 |

VEGETATION CONSUMPTION

|             |          |          |
|-------------|----------|----------|
| 3rd Quarter | 2.30E-04 | 2.20E-03 |
| 4th Quarter | 2.60E-04 | 1.70E-02 |

COW MILK CONSUMPTION

|             |          |          |
|-------------|----------|----------|
| 3rd Quarter | 2.20E-05 | 8.10E-04 |
| 4th Quarter | 4.10E-05 | 1.00E-02 |

BEEF CONSUMPTION

|             |          |          |
|-------------|----------|----------|
| 3rd Quarter | 5.10E-05 | 2.50E-04 |
| 4th Quarter | 5.10E-05 | 1.90E-03 |

|       |          |          |
|-------|----------|----------|
| Total | 2.67E-01 | 3.17E-01 |
|-------|----------|----------|

AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)

|             |          |          |
|-------------|----------|----------|
| 3rd Quarter | 1.98E-04 | 2.02E-04 |
| 4th Quarter | 3.13E-05 | 7.10E-05 |

|       |          |          |
|-------|----------|----------|
| Total | 2.30E-04 | 2.73E-04 |
|-------|----------|----------|

TABLE 12  
SEMI-ANNUAL POPULATION DOSES (LIQUID)  
RELEASES OCCURRING 01/01/92 THROUGH 06/30/92

| PATHWAY | TOTAL BODY<br>(MAN-REM) | THYROID<br>(MAN-REM) | SKIN<br>(MAN-REM) |
|---------|-------------------------|----------------------|-------------------|
|---------|-------------------------|----------------------|-------------------|

SWIMMING

|             |          |     |          |
|-------------|----------|-----|----------|
| 1st Quarter | 9.20E-05 | N/A | 1.10E-04 |
| 2nd Quarter | 7.30E-05 | N/A | 8.50E-05 |

BOATING

|             |          |     |          |
|-------------|----------|-----|----------|
| 1st Quarter | 1.80E-04 | N/A | 2.20E-04 |
| 2nd Quarter | 1.40E-04 | N/A | 1.70E-04 |

POTABLE WATER

|             |          |          |     |
|-------------|----------|----------|-----|
| 1st Quarter | 1.30E-03 | 1.20E-03 | N/A |
| 2nd Quarter | 9.70E-04 | 6.20E-04 | N/A |

SPORT FISH

|             |          |          |     |
|-------------|----------|----------|-----|
| 1st Quarter | 1.20E-02 | 1.00E-03 | N/A |
| 2nd Quarter | 7.10E-03 | 6.80E-05 | N/A |

COMMERCIAL FISH

|             |          |          |     |
|-------------|----------|----------|-----|
| 1st Quarter | 3.40E-05 | 2.30E-06 | N/A |
| 2nd Quarter | 2.10E-05 | 2.00E-07 | N/A |

SHORELINE RECREATION

|             |          |     |     |
|-------------|----------|-----|-----|
| 1st Quarter | 1.80E-02 | N/A | N/A |
| 2nd Quarter | 1.70E-02 | N/A | N/A |

|       |          |          |          |
|-------|----------|----------|----------|
| TOTAL | 5.69E-02 | 2.89E-03 | 5.85E-04 |
|-------|----------|----------|----------|

AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)

|             |          |          |          |
|-------------|----------|----------|----------|
| 1st Quarter | 2.72E-05 | 1.89E-06 | 2.84E-07 |
| 2nd Quarter | 2.18E-05 | 5.92E-07 | 2.19E-07 |

|       |          |          |          |
|-------|----------|----------|----------|
| Total | 4.90E-05 | 2.48E-06 | 5.03E-07 |
|-------|----------|----------|----------|

TABLE 12

SEMI-ANNUAL POPULATION DOSES (LIQUID)  
RELEASES OCCURRING 07/01/92 THROUGH 12/31/92

| PATHWAY | TOTAL BODY<br>(MAN-REM) | THYROID<br>(MAN-REM) | SKIN<br>(MAN-REM) |
|---------|-------------------------|----------------------|-------------------|
|---------|-------------------------|----------------------|-------------------|

SWIMMING

|             |          |     |          |
|-------------|----------|-----|----------|
| 3rd Quarter | 3.30E-04 | N/A | 3.90E-04 |
| 4th Quarter | 1.30E-04 | N/A | 1.60E-04 |

BOATING

|             |          |     |          |
|-------------|----------|-----|----------|
| 3rd Quarter | 6.60E-04 | N/A | 7.70E-04 |
| 4th Quarter | 2.60E-04 | N/A | 3.10E-04 |

POTABLE WATER

|             |          |          |     |
|-------------|----------|----------|-----|
| 3rd Quarter | 1.90E-03 | 2.60E-04 | N/A |
| 4th Quarter | 9.60E-04 | 1.00E-03 | N/A |

SPORT FISH

|             |          |          |     |
|-------------|----------|----------|-----|
| 3rd Quarter | 2.80E-02 | 9.40E-05 | N/A |
| 4th Quarter | 1.10E-02 | 9.40E-04 | N/A |

COMMERCIAL FISH

|             |          |          |     |
|-------------|----------|----------|-----|
| 3rd Quarter | 8.10E-05 | 2.30E-07 | N/A |
| 4th Quarter | 3.20E-05 | 2.10E-06 | N/A |

SHORELINE RECREATION

|             |          |     |     |
|-------------|----------|-----|-----|
| 3rd Quarter | 7.80E-02 | N/A | N/A |
| 4th Quarter | 2.70E-02 | N/A | N/A |

|       |          |          |          |
|-------|----------|----------|----------|
| Total | 1.48E-01 | 2.30E-03 | 1.63E-03 |
|-------|----------|----------|----------|

AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)

|             |          |          |          |
|-------------|----------|----------|----------|
| 3rd Quarter | 9.37E-05 | 3.05E-07 | 9.97E-07 |
| 4th Quarter | 3.39E-05 | 1.67E-06 | 4.04E-07 |

|       |          |          |          |
|-------|----------|----------|----------|
| Total | 1.28E-04 | 1.97E-06 | 1.40E-06 |
|-------|----------|----------|----------|

TABLE 13

**ASSUMPTIONS/PARAMETERS FOR DOSES TO A  
MEMBER OF THE PUBLIC INSIDE SITE BOUNDARY<sup>(6)</sup>**

| MEMBER OF<br>THE PUBLIC                    | LOCATION   | DISTANCE <sup>(1)</sup><br>METERS | SECTOR | DURATION<br>(HR/YEAR) |
|--|--|-----------------------------------|--------|-----------------------|
| Private Drivers                            | North Parking<br>Lot                                 | 275                               | N      | 125 <sup>(4)</sup>    |
| Visitors to<br>Energy Center               | Training Center                                      | 1771                              | N      | 1.5                   |
| Employee<br>Candidate <sup>(2)</sup>       | Personnel Office<br>(across from<br>Training Center) | 1771                              | N      | 2                     |
| Employee<br>Candidate <sup>(2)</sup>       | Service<br>Building                                  | 115 <sup>(3)</sup>                | ENE    | 5                     |
| People Entering<br>Site Without<br>Consent | Alligator Bayou                                      | 2500                              | SW     | 40                    |
| Casual Drivers                             | Main Admin<br>Building                               | 500                               | WNW    | 76 <sup>(5)</sup>     |
| Tour Group<br>In Bus                       | North Parking<br>Lot                                 | 275                               | N      | 1                     |

- (1) The approximate distance from main plant vent exhaust to location.
- (2) The employee candidate is expected to spend 2 hours in the Personnel Office for initial interviews and 5 hours in the Services Building for interviews with prospective supervisors/co-workers.
- (3) Midpoint of building
- (4) An individual is assumed to be on site 0.25/hr in the morning and 0.25/hr in the evening, 5 days per week, 50 weeks per year (0.5 hr/day \* 5 days/week \* 50 weeks/year = 125 hours).
- (5) An individual is assumed to be on site 0.5 hr/day.
- (6) Liquid pathways dose is not considered due to nature of activities that individuals are engaged in.

TABLE 14

**DOSES TO MEMBERS OF THE PUBLIC ON SITE  
FROM GASEOUS RELEASES 1992**

| MEMBER OF THE PUBLIC | RECEPTOR LOCATION            | QUARTER           | CRITICAL AGE GROUP | CRITICAL ORGAN | CRITICAL ORGAN DOSE (MREM) | WHOLE BODY DOSE (MREM) | SKIN DOSE (MREM) |
|----------------------|------------------------------|-------------------|--------------------|----------------|----------------------------|------------------------|------------------|
| Private Drivers      | North Parking Lot at 275 m N | 1st Quarter       | Teen               | Thyroid        | 4.34E-03                   | 2.80E-03               | 5.18E-03         |
|                      |                              | 2nd Quarter       | Teen               | Thyroid        | 7.98E-06                   | 2.38E-05               | 4.76E-06         |
|                      |                              | Semi-Annual Total |                    |                | 4.35E-03                   | 2.82E-03               | 5.18E-03         |
|                      |                              | 3rd Quarter       | Teen               | Thyroid        | 1.02E-02                   | 1.01E-02               | 1.68E-02         |
|                      |                              | 4th Quarter       | Teen               | Thyroid        | 1.54E-03                   | 1.11E-03               | 2.38E-03         |
|                      |                              | Semi-Annual Total |                    |                | 1.17E-02                   | 1.12E-02               | 1.92E-02         |

|                    |                             |                   |      |         |          |          |          |
|--------------------|-----------------------------|-------------------|------|---------|----------|----------|----------|
| Employee Candidate | Services Building 115 m ENE | 1st Quarter       | Teen | Thyroid | 7.98E-04 | 5.07E-04 | 9.12E-04 |
|                    |                             | 2nd Quarter       | Teen | Thyroid | 3.08E-04 | 4.79E-06 | 3.65E-07 |
|                    |                             | Semi-Annual Total |      |         | 1.11E-03 | 5.12E-04 | 9.12E-04 |
|                    |                             | 3rd Quarter       | Teen | Thyroid | 2.00E-03 | 2.00E-03 | 3.42E-03 |
|                    |                             | 4th Quarter       | Teen | Thyroid | 3.36E-04 | 1.77E-04 | 3.65E-04 |
|                    |                             | Semi-Annual Total |      |         | 2.34E-03 | 2.18E-03 | 3.79E-03 |



TABLE 14

DOSES TO MEMBERS OF THE PUBLIC ON SITE  
FROM GASEOUS RELEASES 1992

| MEMBER<br>OF THE<br>PUBLIC | RECEPTOR<br>LOCATION | QUARTER | CRITICAL<br>AGE<br>GROUP | CRITICAL<br>ORGAN | CRITICAL<br>ORGAN<br>DOSE<br>(MREM) | WHOLE<br>BODY<br>DOSE<br>(MREM) | SKIN<br>DOSE<br>(MREM) |
|----------------------------|----------------------|---------|--------------------------|-------------------|-------------------------------------|---------------------------------|------------------------|
|----------------------------|----------------------|---------|--------------------------|-------------------|-------------------------------------|---------------------------------|------------------------|

|  |                                    |                      |      |         |          |          |          |
|--|------------------------------------|----------------------|------|---------|----------|----------|----------|
| People<br>Entering<br>Site<br>Without<br>Consent | Alligator<br>Bayou at<br>2500 m SW | 1st<br>Quarter       | Teen | Thyroid | 5.06E-05 | 3.17E-05 | 5.98E-05 |
|  |                                    | 2nd<br>Quarter       | Teen | Thyroid | 1.89E-05 | 2.30E-07 | 5.52E-08 |
|  |                                    | Semi-Annual<br>Total |      |         | 6.95E-05 | 3.19E-05 | 5.99E-05 |
|  |                                    | 3rd<br>Quarter       | Teen | Thyroid | 3.29E-04 | 3.29E-04 | 5.40E-04 |
|  |                                    | 4th<br>Quarter       | Teen | Thyroid | 3.92E-05 | 2.61E-05 | 5.40E-05 |
|  |                                    | Semi-Annual<br>Total |      |         | 7.21E-04 | 3.55E-04 | 5.94E-04 |

|                   |                               |                      |      |         |          |          |          |
|-------------------|-------------------------------|----------------------|------|---------|----------|----------|----------|
| Casual<br>Visitor | Main<br>Admin at<br>500 m WNW | 1st<br>Quarter       | Teen | Thyroid | 2.09E-03 | 1.39E-03 | 2.61E-03 |
|                   |                               | 2nd<br>Quarter       | Teen | Thyroid | 7.22E-04 | 1.04E-05 | 3.22E-06 |
|                   |                               | Semi-Annual<br>Total |      |         | 2.81E-03 | 1.40E-03 | 2.61E-03 |
|                   |                               | 3rd<br>Quarter       | Teen | Thyroid | 6.36E-03 | 6.36E-03 | 1.03E-02 |
|                   |                               | 4th<br>Quarter       | Teen | Thyroid | 1.38E-03 | 1.03E-03 | 2.06E-03 |
|                   |                               | Semi-Annual<br>Total |      |         | 7.74E-03 | 7.39E-03 | 1.24E-02 |



TABLE 15  
METEOROLOGICAL DATA  
1992

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 1/ 1/92 0100 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 6    | 10   | 6    | 12   | 23   | 35   | 52   | 0    | 0    | 0     | 0     | 0   | 144  |
| NNE   | 8    | 7    | 10   | 13   | 16   | 36   | 17   | 0    | 0    | 0     | 0     | 0   | 107  |
| NE    | 16   | 15   | 6    | 7    | 31   | 28   | 20   | 1    | 0    | 0     | 0     | 0   | 124  |
| ENE   | 18   | 42   | 32   | 47   | 25   | 23   | 17   | 0    | 0    | 0     | 0     | 0   | 204  |
| E     | 20   | 42   | 22   | 33   | 25   | 19   | 0    | 0    | 0    | 0     | 0     | 0   | 161  |
| ESE   | 4    | 15   | 11   | 29   | 26   | 48   | 6    | 0    | 0    | 0     | 0     | 0   | 139  |
| SE    | 4    | 3    | 10   | 43   | 46   | 71   | 20   | 0    | 0    | 0     | 0     | 0   | 197  |
| SSE   | 2    | 4    | 3    | 12   | 15   | 40   | 30   | 2    | 1    | 0     | 0     | 0   | 109  |
| S     | 1    | 7    | 4    | 8    | 31   | 27   | 39   | 6    | 0    | 0     | 0     | 0   | 123  |
| SSW   | 4    | 11   | 11   | 19   | 25   | 28   | 11   | 0    | 0    | 0     | 0     | 0   | 109  |
| SW    | 3    | 3    | 7    | 15   | 25   | 24   | 7    | 0    | 0    | 0     | 0     | 0   | 84   |
| WSW   | 3    | 6    | 9    | 13   | 14   | 39   | 9    | 0    | 0    | 0     | 0     | 0   | 93   |
| W     | 4    | 19   | 12   | 20   | 18   | 19   | 12   | 0    | 0    | 0     | 0     | 0   | 104  |
| WNW   | 2    | 11   | 12   | 15   | 18   | 18   | 11   | 4    | 0    | 0     | 0     | 0   | 91   |
| NW    | 3    | 12   | 8    | 24   | 15   | 37   | 46   | 5    | 0    | 0     | 0     | 0   | 150  |
| NNW   | 10   | 6    | 9    | 13   | 21   | 33   | 60   | 2    | 0    | 0     | 0     | 0   | 154  |
| TOTAL | 108  | 213  | 172  | 323  | 374  | 525  | 357  | 20   | 1    | 0     | 0     | 0   | 2093 |

NUMBER OF CALMS: 12  
NUMBER OF INVALID HOURS: 79  
NUMBER OF VALID HOURS: 2105  
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 1    | 1    | 4    | 0    | 0    | 0     | 0     | 0   | 6    |
| NNE   | 0    | 0    | 0    | 0    | 1    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 7    |
| NE    | 0    | 0    | 0    | 0    | 7    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 13   |
| ENE   | 0    | 0    | 0    | 1    | 3    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| E     | 0    | 0    | 0    | 3    | 7    | 6    | 0    | 0    | 0    | 0     | 0     | 0   | 16   |
| ESE   | 0    | 0    | 1    | 2    | 6    | 17   | 1    | 0    | 0    | 0     | 0     | 0   | 27   |
| SE    | 0    | 0    | 0    | 2    | 8    | 28   | 9    | 0    | 0    | 0     | 0     | 0   | 47   |
| SSE   | 0    | 0    | 0    | 1    | 2    | 10   | 4    | 0    | 0    | 0     | 0     | 0   | 17   |
| S     | 0    | 0    | 0    | 0    | 2    | 1    | 6    | 1    | 0    | 0     | 0     | 0   | 10   |
| SSW   | 0    | 0    | 0    | 0    | 0    | 8    | 1    | 0    | 0    | 0     | 0     | 0   | 9    |
| SW    | 0    | 0    | 0    | 1    | 3    | 8    | 2    | 0    | 0    | 0     | 0     | 0   | 14   |
| WSW   | 0    | 0    | 0    | 0    | 1    | 18   | 2    | 0    | 0    | 0     | 0     | 0   | 21   |
| W     | 0    | 0    | 0    | 2    | 1    | 7    | 5    | 0    | 0    | 0     | 0     | 0   | 15   |
| WNW   | 0    | 0    | 0    | 0    | 2    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 5    |
| NW    | 0    | 0    | 0    | 0    | 0    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| NNW   | 0    | 0    | 0    | 2    | 0    | 1    | 6    | 0    | 0    | 0     | 0     | 0   | 9    |
| TOTAL | 0    | 0    | 1    | 14   | 44   | 121  | 46   | 1    | 0    | 0     | 0     | 0   | 227  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 227  
TOTAL HOURS FOR THE PERIOD: 227

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 0    | 3    | 7    | 0    | 0    | 0     | 0     | 0   | 10   |
| NNE   | 0    | 0    | 0    | 0    | 0    | 3    | 2    | 0    | 0    | 0     | 0     | 0   | 5    |
| NE    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| ENE   | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| E     | 0    | 0    | 0    | 2    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| ESE   | 0    | 0    | 0    | 1    | 0    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| SE    | 0    | 0    | 0    | 0    | 1    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 7    |
| SSE   | 0    | 0    | 0    | 0    | 1    | 3    | 6    | 0    | 0    | 0     | 0     | 0   | 10   |
| S     | 0    | 0    | 0    | 0    | 2    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 5    |
| SSW   | 0    | 0    | 0    | 0    | 1    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 5    |
| SW    | 0    | 0    | 0    | 0    | 4    | 5    | 2    | 0    | 0    | 0     | 0     | 0   | 11   |
| WSW   | 0    | 0    | 0    | 0    | 1    | 10   | 6    | 0    | 0    | 0     | 0     | 0   | 17   |
| W     | 0    | 0    | 0    | 1    | 1    | 4    | 4    | 0    | 0    | 0     | 0     | 0   | 10   |
| WNW   | 0    | 0    | 0    | 1    | 1    | 4    | 7    | 0    | 0    | 0     | 0     | 0   | 13   |
| NW    | 0    | 0    | 0    | 0    | 0    | 3    | 11   | 0    | 0    | 0     | 0     | 0   | 14   |
| NNW   | 0    | 0    | 0    | 0    | 0    | 2    | 16   | 0    | 0    | 0     | 0     | 0   | 18   |
| TOTAL | 0    | 0    | 0    | 6    | 14   | 49   | 66   | 0    | 0    | 0     | 0     | 0   | 135  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 135  
TOTAL HOURS FOR THE PERIOD: 135

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 2    | 3    | 3    | 0    | 0    | 0     | 0     | 0   | 8    |
| NNE   | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 2    |
| NE    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| ENE   | 0    | 0    | 0    | 1    | 0    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 2    |
| E     | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| ESE   | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| SE    | 0    | 0    | 0    | 1    | 0    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 5    |
| SSE   | 0    | 0    | 0    | 0    | 2    | 2    | 1    | 1    | 0    | 0     | 0     | 0   | 6    |
| S     | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 1    | 0    | 0     | 0     | 0   | 2    |
| SSW   | 0    | 0    | 0    | 0    | 0    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 4    |
| SW    | 0    | 0    | 0    | 0    | 0    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| WSW   | 0    | 0    | 0    | 0    | 0    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 4    |
| W     | 0    | 0    | 0    | 3    | 0    | 4    | 1    | 0    | 0    | 0     | 0     | 0   | 8    |
| WNW   | 0    | 0    | 0    | 0    | 0    | 4    | 1    | 0    | 0    | 0     | 0     | 0   | 5    |
| NW    | 0    | 0    | 0    | 0    | 0    | 3    | 4    | 1    | 0    | 0     | 0     | 0   | 8    |
| NNW   | 0    | 0    | 0    | 1    | 0    | 3    | 4    | 0    | 0    | 0     | 0     | 0   | 8    |
| TOTAL | 0    | 0    | 0    | 7    | 6    | 37   | 18   | 3    | 0    | 0     | 0     | 0   | 71   |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 71  
TOTAL HOURS FOR THE PERIOD: 71

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 1    | 2    | 5    | 17   | 37   | 0    | 0    | 0     | 0     | 0   | 62   |
| NNE   | 0    | 0    | 1    | 3    | 11   | 27   | 10   | 0    | 0    | 0     | 0     | 0   | 52   |
| NE    | 0    | 0    | 0    | 1    | 3    | 9    | 12   | 0    | 0    | 0     | 0     | 0   | 25   |
| ENE   | 0    | 1    | 0    | 6    | 3    | 9    | 7    | 0    | 0    | 0     | 0     | 0   | 26   |
| E     | 0    | 0    | 0    | 4    | 8    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 16   |
| ESE   | 0    | 0    | 0    | 10   | 6    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 13   |
| SE    | 1    | 0    | 2    | 8    | 13   | 19   | 4    | 0    | 0    | 0     | 0     | 0   | 47   |
| SSE   | 0    | 1    | 0    | 1    | 2    | 9    | 17   | 1    | 1    | 0     | 0     | 0   | 32   |
| S     | 0    | 1    | 0    | 1    | 10   | 6    | 24   | 4    | 0    | 0     | 0     | 0   | 46   |
| SSW   | 0    | 1    | 3    | 3    | 8    | 9    | 3    | 0    | 0    | 0     | 0     | 0   | 27   |
| SW    | 0    | 0    | 0    | 2    | 8    | 7    | 1    | 0    | 0    | 0     | 0     | 0   | 18   |
| WSW   | 0    | 0    | 0    | 6    | 8    | 6    | 0    | 0    | 0    | 0     | 0     | 0   | 20   |
| W     | 0    | 1    | 2    | 8    | 12   | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 27   |
| WNW   | 0    | 0    | 1    | 2    | 10   | 4    | 1    | 4    | 0    | 0     | 0     | 0   | 22   |
| NW    | 0    | 0    | 0    | 6    | 7    | 19   | 24   | 4    | 0    | 0     | 0     | 0   | 60   |
| NNW   | 0    | 0    | 1    | 2    | 4    | 15   | 33   | 2    | 0    | 0     | 0     | 0   | 57   |
| TOTAL | 1    | 5    | 11   | 65   | 118  | 169  | 175  | 15   | 1    | 0     | 0     | 0   | 560  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 560  
TOTAL HOURS FOR THE PERIOD: 560

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 1    | 1    | 4    | 12   | 10   | 1    | 0    | 0    | 0     | 0     | 0   | 29   |
| NNE   | 1    | 0    | 1    | 5    | 2    | 0    | 2    | 0    | 0    | 0     | 0     | 0   | 11   |
| NE    | 2    | 3    | 1    | 2    | 14   | 12   | 6    | 1    | 0    | 0     | 0     | 0   | 41   |
| ENE   | 2    | 2    | 5    | 15   | 10   | 6    | 9    | 0    | 0    | 0     | 0     | 0   | 49   |
| E     | 1    | 4    | 9    | 18   | 7    | 8    | 0    | 0    | 0    | 0     | 0     | 0   | 47   |
| ESE   | 0    | 1    | 3    | 13   | 13   | 21   | 4    | 0    | 0    | 0     | 0     | 0   | 55   |
| SE    | 0    | 0    | 4    | 20   | 22   | 16   | 5    | 0    | 0    | 0     | 0     | 0   | 67   |
| SSE   | 1    | 1    | 2    | 5    | 8    | 16   | 2    | 0    | 0    | 0     | 0     | 0   | 35   |
| S     | 0    | 1    | 1    | 2    | 15   | 18   | 8    | 0    | 0    | 0     | 0     | 0   | 45   |
| SSW   | 0    | 4    | 3    | 7    | 12   | 6    | 4    | 0    | 0    | 0     | 0     | 0   | 36   |
| SW    | 0    | 1    | 2    | 6    | 9    | 1    | 2    | 0    | 0    | 0     | 0     | 0   | 21   |
| WSW   | 0    | 0    | 3    | 5    | 3    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| W     | 1    | 1    | 3    | 5    | 4    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 16   |
| WNW   | 0    | 0    | 3    | 6    | 2    | 4    | 1    | 0    | 0    | 0     | 0     | 0   | 16   |
| NW    | 0    | 1    | 2    | 8    | 6    | 7    | 6    | 0    | 0    | 0     | 0     | 0   | 30   |
| NNW   | 0    | 1    | 2    | 4    | 11   | 11   | 1    | 0    | 0    | 0     | 0     | 0   | 30   |
| TOTAL | 8    | 21   | 45   | 125  | 150  | 139  | 52   | 1    | 0    | 0     | 0     | 0   | 541  |

NUMBER OF CALMS: 1  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 542  
TOTAL HOURS FOR THE PERIOD: 542

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 1/ 1/92 0100 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 1    | 3    | 6    | 3    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 14   |
| NNE   | 0    | 0    | 0    | 3    | 2    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| NE    | 1    | 2    | 0    | 3    | 4    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| ENE   | 0    | 5    | 8    | 14   | 7    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 38   |
| E     | 1    | 2    | 2    | 5    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| ESE   | 1    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 5    |
| SE    | 0    | 2    | 2    | 9    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 15   |
| SSE   | 0    | 1    | 1    | 4    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| S     | 1    | 0    | 1    | 5    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| SSW   | 0    | 1    | 2    | 6    | 4    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| SW    | 1    | 0    | 1    | 4    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| WSW   | 0    | 2    | 2    | 4    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| W     | 0    | 5    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| WNW   | 0    | 3    | 4    | 3    | 3    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| NW    | 0    | 4    | 1    | 7    | 2    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 17   |
| NNW   | 1    | 1    | 3    | 2    | 6    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 14   |
| TOTAL | 6    | 31   | 36   | 73   | 36   | 10   | 0    | 0    | 0    | 0     | 0     | 0   | 192  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 192  
TOTAL HOURS FOR THE PERIOD: 192



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS G

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 6    | 8    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 15   |
| NNE   | 7    | 7    | 8    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 24   |
| NE    | 13   | 10   | 5    | 1    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 31   |
| ENE   | 16   | 34   | 19   | 9    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 80   |
| E     | 18   | 36   | 11   | 1    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 68   |
| ESE   | 3    | 12   | 5    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 22   |
| SE    | 3    | 1    | 2    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 9    |
| SSE   | 1    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| S     | 0    | 5    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| SSW   | 4    | 5    | 3    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 15   |
| SW    | 2    | 2    | 4    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| WSW   | 3    | 4    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 12   |
| W     | 3    | 12   | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 18   |
| WNW   | 2    | 8    | 4    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 17   |
| NW    | 3    | 7    | 5    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 18   |
| NNW   | 9    | 4    | 3    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 18   |
| TOTAL | 93   | 156  | 79   | 33   | 6    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 367  |

NUMBER OF CALMS: 11  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 378  
TOTAL HOURS FOR THE PERIOD: 378

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 1/ 1/92 0100 TO 3/31/92 2300

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 1    | 2    | 7    | 5    | 31   | 75   | 30   | 1    | 0     | 0     | 0   | 152  |
| NNE   | 0    | 1    | 0    | 2    | 7    | 33   | 44   | 6    | 0    | 0     | 0     | 0   | 93   |
| NE    | 1    | 0    | 2    | 6    | 5    | 37   | 76   | 24   | 4    | 0     | 0     | 0   | 155  |
| ENE   | 0    | 0    | 1    | 3    | 9    | 11   | 66   | 18   | 12   | 0     | 0     | 0   | 120  |
| E     | 0    | 1    | 0    | 2    | 10   | 42   | 57   | 6    | 1    | 0     | 0     | 0   | 119  |
| ESE   | 0    | 0    | 1    | 2    | 8    | 33   | 115  | 45   | 9    | 0     | 0     | 0   | 213  |
| SE    | 1    | 1    | 1    | 7    | 8    | 31   | 99   | 26   | 4    | 0     | 0     | 0   | 178  |
| SSE   | 0    | 0    | 2    | 5    | 4    | 21   | 41   | 10   | 1    | 1     | 0     | 0   | 85   |
| S     | 0    | 1    | 1    | 3    | 7    | 42   | 49   | 25   | 1    | 0     | 0     | 0   | 129  |
| SSW   | 0    | 1    | 0    | 6    | 13   | 44   | 33   | 6    | 0    | 0     | 0     | 0   | 103  |
| SW    | 1    | 0    | 1    | 4    | 11   | 45   | 39   | 1    | 1    | 0     | 0     | 0   | 103  |
| WSW   | 0    | 1    | 1    | 4    | 18   | 47   | 50   | 2    | 0    | 0     | 0     | 0   | 123  |
| W     | 0    | 1    | 4    | 12   | 13   | 50   | 46   | 3    | 3    | 0     | 0     | 0   | 132  |
| WNW   | 0    | 0    | 4    | 8    | 15   | 32   | 29   | 5    | 8    | 0     | 0     | 0   | 101  |
| NW    | 0    | 0    | 0    | 0    | 7    | 32   | 71   | 36   | 8    | 0     | 0     | 0   | 154  |
| NNW   | 0    | 0    | 0    | 7    | 5    | 35   | 63   | 34   | 0    | 0     | 0     | 0   | 144  |
| TOTAL | 3    | 8    | 20   | 78   | 145  | 566  | 953  | 277  | 53   | 1     | 0     | 0   | 2104 |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 80  
NUMBER OF VALID HOURS: 2104  
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 1    | 0    | 1    | 3    | 2    | 0    | 0     | 0     | 0   | 7    |
| NNE   | 0    | 0    | 0    | 0    | 0    | 5    | 3    | 0    | 0    | 0     | 0     | 0   | 8    |
| NE    | 0    | 0    | 0    | 0    | 1    | 7    | 3    | 2    | 0    | 0     | 0     | 0   | 13   |
| ENE   | 0    | 0    | 0    | 0    | 1    | 2    | 3    | 0    | 0    | 0     | 0     | 0   | 6    |
| E     | 0    | 0    | 0    | 1    | 1    | 7    | 9    | 1    | 0    | 0     | 0     | 0   | 19   |
| ESE   | 0    | 0    | 0    | 0    | 2    | 6    | 31   | 9    | 0    | 0     | 0     | 0   | 48   |
| SE    | 0    | 0    | 0    | 0    | 2    | 9    | 15   | 8    | 0    | 0     | 0     | 0   | 34   |
| SSE   | 0    | 0    | 0    | 0    | 0    | 3    | 4    | 2    | 0    | 0     | 0     | 0   | 9    |
| S     | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 3    | 0    | 0     | 0     | 0   | 7    |
| SSW   | 0    | 0    | 0    | 0    | 0    | 4    | 3    | 0    | 0    | 0     | 0     | 0   | 7    |
| SW    | 0    | 0    | 0    | 1    | 1    | 7    | 2    | 0    | 0    | 0     | 0     | 0   | 11   |
| WSW   | 0    | 0    | 0    | 0    | 2    | 4    | 17   | 0    | 0    | 0     | 0     | 0   | 23   |
| W     | 0    | 0    | 0    | 0    | 1    | 6    | 9    | 1    | 1    | 0     | 0     | 0   | 18   |
| WNW   | 0    | 0    | 0    | 1    | 1    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 6    |
| NW    | 0    | 0    | 0    | 0    | 1    | 2    | 1    | 3    | 0    | 0     | 0     | 0   | 7    |
| NNW   | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 3    | 0    | 0     | 0     | 0   | 4    |
| TOTAL | 0    | 0    | 0    | 4    | 13   | 68   | 107  | 34   | 1    | 0     | 0     | 0   | 227  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 227  
TOTAL HOURS FOR THE PERIOD: 227

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 0    | 0    | 7    | 2    | 0    | 0     | 0     | 0   | 9    |
| NNE   | 0    | 0    | 0    | 0    | 0    | 1    | 3    | 0    | 0    | 0     | 0     | 0   | 4    |
| NE    | 0    | 0    | 0    | 0    | 0    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| ENE   | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| E     | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 2    |
| ESE   | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 3    | 0    | 0     | 0     | 0   | 7    |
| SE    | 0    | 0    | 0    | 0    | 1    | 1    | 5    | 2    | 1    | 0     | 0     | 0   | 10   |
| SSE   | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 2    | 0    | 0     | 0     | 0   | 6    |
| S     | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 4    |
| SSW   | 0    | 0    | 0    | 0    | 1    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 5    |
| SW    | 0    | 0    | 0    | 0    | 1    | 2    | 4    | 0    | 0    | 0     | 0     | 0   | 7    |
| WSW   | 0    | 0    | 0    | 0    | 1    | 3    | 14   | 0    | 0    | 0     | 0     | 0   | 18   |
| W     | 0    | 0    | 0    | 0    | 0    | 4    | 9    | 0    | 0    | 0     | 0     | 0   | 13   |
| WNW   | 0    | 0    | 0    | 1    | 1    | 2    | 6    | 1    | 2    | 0     | 0     | 0   | 13   |
| NW    | 0    | 0    | 0    | 0    | 0    | 0    | 7    | 7    |      | 0     | 0     | 0   | 14   |
| NNW   | 0    | 0    | 0    | 0    | 0    | 2    | 6    | 11   | 0    | 0     | 0     | 0   | 19   |
| TOTAL | 0    | 0    | 0    | 1    | 6    | 26   | 71   | 28   | 3    | 0     | 0     | 0   | 135  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 135  
TOTAL HOURS FOR THE PERIOD: 135

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 0    | 3    | 4    | 0    | 0    | 0     | 0     | 0   | 7    |
| NNE   | 0    | 0    | 0    | 0    | 1    | 0    | 1    | 1    | 0    | 0     | 0     | 0   | 3    |
| NE    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0     | 0     | 0   | 2    |
| ENE   | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 1    | 0    | 0     | 0     | 0   | 2    |
| E     | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 1    |
| ESE   | 0    | 0    | 0    | 1    | 0    | 0    | 2    | 0    | 0    | 0     | 0     | 0   | 3    |
| SE    | 0    | 0    | 0    | 0    | 0    | 1    | 3    | 1    | 0    | 0     | 0     | 0   | 5    |
| SSE   | 0    | 0    | 0    | 0    | 0    | 2    | 3    | 1    | 0    | 0     | 0     | 0   | 6    |
| S     | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 1    | 0    | 0     | 0     | 0   | 2    |
| SSW   | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 4    |
| SW    | 0    | 0    | 0    | 0    | 0    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| WSW   | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 0    | 0    | 0     | 0     | 0   | 3    |
| W     | 0    | 0    | 0    | 2    | 0    | 4    | 4    | 0    | 0    | 0     | 0     | 0   | 10   |
| WNW   | 0    | 0    | 0    | 0    | 1    | 1    | 2    | 0    | 1    | 0     | 0     | 0   | 5    |
| NW    | 0    | 0    | 0    | 0    | 0    | 0    | 6    | 1    | 0    | 0     | 0     | 0   | 7    |
| NNW   | 0    | 0    | 0    | 1    | 0    | 1    | 5    | 1    | 0    | 0     | 0     | 0   | 8    |
| TOTAL | 0    | 0    | 0    | 4    | 4    | 17   | 38   | 7    | 1    | 0     | 0     | 0   | 71   |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 71  
TOTAL HOURS FOR THE PERIOD: 71

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 2    | 2    | 6    | 27   | 26   | 1    | 0     | 0     | 0   | 64   |
| NNE   | 0    | 0    | 0    | 0    | 1    | 8    | 27   | 4    | 0    | 0     | 0     | 0   | 40   |
| NE    | 0    | 0    | 1    | 1    | 0    | 3    | 18   | 15   | 1    | 0     | 0     | 0   | 39   |
| ENE   | 0    | 0    | 0    | 0    | 1    | 2    | 9    | 4    | 4    | 0     | 0     | 0   | 20   |
| E     | 0    | 0    | 0    | 1    | 1    | 4    | 13   | 2    | 0    | 0     | 0     | 0   | 21   |
| ESE   | 0    | 0    | 0    | 1    | 1    | 2    | 21   | 7    | 0    | 0     | 0     | 0   | 32   |
| SE    | 0    | 0    | 0    | 2    | 0    | 2    | 29   | 6    | 3    | 0     | 0     | 0   | 42   |
| SSE   | 0    | 0    | 2    | 0    | 1    | 1    | 13   | 4    | 1    | 1     | 0     | 0   | 23   |
| S     | 0    | 1    | 0    | 0    | 5    | 12   | 17   | 16   | 1    | 0     | 0     | 0   | 52   |
| SSW   | 0    | 1    | 0    | 2    | 3    | 9    | 5    | 3    | 0    | 0     | 0     | 0   | 23   |
| SW    | 0    | 0    | 0    | 0    | 2    | 4    | 8    | 0    | 0    | 0     | 0     | 0   | 14   |
| WSW   | 0    | 0    | 0    | 1    | 5    | 11   | 4    | 0    | 0    | 0     | 0     | 0   | 21   |
| W     | 0    | 1    | 3    | 3    | 6    | 9    | 7    | 0    | 1    | 0     | 0     | 0   | 30   |
| WNW   | 0    | 0    | 1    | 1    | 6    | 10   | 2    | 3    | 5    | 0     | 0     | 0   | 28   |
| NW    | 0    | 0    | 0    | 0    | 2    | 9    | 25   | 19   | 8    | 0     | 0     | 0   | 63   |
| NNW   | 0    | 0    | 0    | 1    | 1    | 9    | 18   | 19   | 0    | 0     | 0     | 0   | 48   |
| TOTAL | 0    | 3    | 7    | 15   | 37   | 101  | 243  | 128  | 25   | 1     | 0     | 0   | 560  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 560  
TOTAL HOURS FOR THE PERIOD: 560

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N           | 0           | 0           | 1           | 2           | 2           | 7           | 19          | 0           | 0            | 0             | 0             | 0   | 31   |
| NNE         | 0           | 0           | 0           | 1           | 1           | 3           | 2           | 1           | 0            | 0             | 0             | 0   | 8    |
| NE          | 1           | 0           | 0           | 1           | 0           | 7           | 25          | 7           | 3            | 0             | 0             | 0   | 44   |
| ENE         | 0           | 0           | 0           | 1           | 2           | 3           | 19          | 7           | 8            | 0             | 0             | 0   | 40   |
| E           | 0           | 0           | 0           | 0           | 6           | 10          | 22          | 3           | 1            | 0             | 0             | 0   | 42   |
| ESE         | 0           | 0           | 1           | 0           | 3           | 11          | 42          | 24          | 9            | 0             | 0             | 0   | 90   |
| SE          | 1           | 1           | 1           | 4           | 2           | 6           | 27          | 9           | 0            | 0             | 0             | 0   | 51   |
| SSE         | 0           | 0           | 0           | 1           | 2           | 8           | 16          | 1           | 0            | 0             | 0             | 0   | 28   |
| S           | 0           | 0           | 0           | 0           | 1           | 9           | 26          | 5           | 0            | 0             | 0             | 0   | 41   |
| SSW         | 0           | 0           | 0           | 0           | 4           | 11          | 8           | 3           | 0            | 0             | 0             | 0   | 26   |
| SW          | 0           | 0           | 1           | 1           | 1           | 8           | 19          | 1           | 0            | 0             | 0             | 0   | 31   |
| WSW         | 0           | 1           | 0           | 0           | 3           | 10          | 5           | 2           | 0            | 0             | 0             | 0   | 21   |
| W           | 0           | 0           | 0           | 2           | 1           | 6           | 6           | 2           | 1            | 0             | 0             | 0   | 18   |
| WNW         | 0           | 0           | 1           | 0           | 1           | 4           | 6           | 1           | 0            | 0             | 0             | 0   | 13   |
| NW          | 0           | 0           | 0           | 0           | 1           | 9           | 11          | 6           | 0            | 0             | 0             | 0   | 27   |
| NNW         | 0           | 0           | 0           | 2           | 1           | 9           | 19          | 0           | 0            | 0             | 0             | 0   | 31   |
| TOTAL       | 2           | 2           | 5           | 15          | 31          | 121         | 272         | 72          | 22           | 0             | 0             | 0   | 542  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 542  
TOTAL HOURS FOR THE PERIOD: 542

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 0    | 4    | 10   | 0    | 0    | 0     | 0     | 0   | 14   |
| NNE   | 0    | 0    | 0    | 0    | 3    | 4    | 3    | 0    | 0    | 0     | 0     | 0   | 10   |
| NE    | 0    | 0    | 0    | 0    | 0    | 4    | 12   | 0    | 0    | 0     | 0     | 0   | 16   |
| ENE   | 0    | 0    | 0    | 0    | 1    | 1    | 15   | 4    | 0    | 0     | 0     | 0   | 21   |
| E     | 0    | 0    | 0    | 0    | 1    | 6    | 6    | 0    | 0    | 0     | 0     | 0   | 13   |
| ESE   | 0    | 0    | 0    | 0    | 2    | 4    | 6    | 0    | 0    | 0     | 0     | 0   | 12   |
| SE    | 0    | 0    | 0    | 1    | 0    | 3    | 6    | 0    | 0    | 0     | 0     | 0   | 10   |
| SSE   | 0    | 0    | 0    | 2    | 0    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 5    |
| S     | 0    | 0    | 1    | 1    | 0    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 9    |
| SSW   | 0    | 0    | 0    | 0    | 2    | 3    | 9    | 0    | 0    | 0     | 0     | 0   | 14   |
| SW    | 0    | 0    | 0    | 0    | 1    | 6    | 3    | 0    | 0    | 0     | 0     | 0   | 10   |
| WSW   | 0    | 0    | 1    | 0    | 0    | 5    | 3    | 0    | 0    | 0     | 0     | 0   | 9    |
| W     | 0    | 0    | 0    | 1    | 0    | 10   | 3    | 0    | 0    | 0     | 0     | 0   | 14   |
| WNW   | 0    | 0    | 0    | 0    | 0    | 4    | 6    | 0    | 0    | 0     | 0     | 0   | 10   |
| NW    | 0    | 0    | 0    | 0    | 0    | 1    | 11   | 0    | 0    | 0     | 0     | 0   | 12   |
| NNW   | 0    | 0    | 0    | 2    | 1    | 2    | 8    | 0    | 0    | 0     | 0     | 0   | 13   |
| TOTAL | 0    | 0    | 2    | 7    | 11   | 65   | 103  | 4    | 0    | 0     | 0     | 0   | 192  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 192  
TOTAL HOURS FOR THE PERIOD: 192



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS G

FROM 1/ 1/92 0:00 TO 3/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 1    | 1    | 2    | 1    | 10   | 5    | 0    | 0    | 0     | 0     | 0   | 20   |
| NNE   | 0    | 1    | 0    | 1    | 1    | 12   | 5    | 0    | 0    | 0     | 0     | 0   | 20   |
| NE    | 0    | 0    | 1    | 4    | 4    | 14   | 15   | 0    | 0    | 0     | 0     | 0   | 38   |
| ENE   | 0    | 0    | 1    | 2    | 2    | 3    | 20   | 2    | 0    | 0     | 0     | 0   | 30   |
| E     | 0    | 1    | 0    | 0    | 1    | 14   | 5    | 0    | 0    | 0     | 0     | 0   | 21   |
| ESE   | 0    | 0    | 0    | 0    | 0    | 8    | 11   | 2    | 0    | 0     | 0     | 0   | 21   |
| SE    | 0    | 0    | 0    | 0    | 3    | 9    | 14   | 0    | 0    | 0     | 0     | 0   | 26   |
| SSE   | 0    | 0    | 0    | 2    | 1    | 3    | 2    | 0    | 0    | 0     | 0     | 0   | 8    |
| S     | 0    | 0    | 0    | 2    | 0    | 11   | 1    | 0    | 0    | 0     | 0     | 0   | 14   |
| SSW   | 0    | 0    | 0    | 4    | 3    | 13   | 4    | 0    | 0    | 0     | 0     | 0   | 24   |
| SW    | 1    | 0    | 0    | 2    | 5    | 16   | 2    | 0    | 1    | 0     | 0     | 0   | 27   |
| WSW   | 0    | 0    | 0    | 3    | 7    | 13   | 5    | 0    | 0    | 0     | 0     | 0   | 28   |
| W     | 0    | 0    | 1    | 4    | 5    | 11   | 8    | 0    | 0    | 0     | 0     | 0   | 29   |
| WNW   | 0    | 0    | 2    | 5    | 5    | 8    | 6    | 0    | 0    | 0     | 0     | 0   | 26   |
| NW    | 0    | 0    | 0    | 0    | 3    | 11   | 10   | 0    | 0    | 0     | 0     | 0   | 24   |
| NNW   | 0    | 0    | 0    | 1    | 2    | 12   | 6    | 0    | 0    | 0     | 0     | 0   | 21   |
| TOTAL | 1    | 3    | 6    | 32   | 43   | 168  | 119  | 4    | 1    | 0     | 0     | 0   | 377  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 1  
NUMBER OF VALID HOURS: 377  
TOTAL HOURS FOR THE PERIOD: 378

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 15   | 13   | 11   | 27   | 28   | 38   | 33   | 0    | 0    | 0     | 0     | 0   | 165  |
| NNE   | 26   | 15   | 12   | 26   | 36   | 18   | 8    | 0    | 0    | 0     | 0     | 0   | 141  |
| NE    | 39   | 38   | 18   | 25   | 20   | 14   | 1    | 0    | 0    | 0     | 0     | 0   | 155  |
| ENE   | 32   | 51   | 41   | 26   | 16   | 7    | 0    | 0    | 0    | 0     | 0     | 0   | 173  |
| E     | 14   | 28   | 30   | 34   | 17   | 6    | 0    | 0    | 0    | 0     | 0     | 0   | 129  |
| ESE   | 14   | 16   | 33   | 47   | 30   | 12   | 2    | 0    | 0    | 0     | 0     | 0   | 154  |
| SE    | 2    | 16   | 33   | 70   | 53   | 45   | 11   | 0    | 0    | 0     | 0     | 0   | 230  |
| SSE   | 2    | 6    | 10   | 25   | 16   | 64   | 25   | 0    | 0    | 0     | 0     | 0   | 148  |
| S     | 1    | 5    | 5    | 25   | 26   | 60   | 28   | 0    | 0    | 0     | 0     | 0   | 150  |
| SSW   | 7    | 6    | 4    | 22   | 27   | 28   | 19   | 0    | 0    | 0     | 0     | 0   | 113  |
| SW    | 3    | 5    | 14   | 24   | 17   | 10   | 4    | 0    | 0    | 0     | 0     | 0   | 77   |
| WSW   | 5    | 8    | 7    | 12   | 24   | 15   | 1    | 0    | 0    | 0     | 0     | 0   | 72   |
| W     | 6    | 12   | 12   | 15   | 33   | 32   | 1    | 0    | 0    | 0     | 0     | 0   | 111  |
| WNW   | 5    | 9    | 6    | 11   | 23   | 27   | 4    | 0    | 0    | 0     | 0     | 0   | 85   |
| NW    | 8    | 19   | 10   | 14   | 18   | 25   | 7    | 0    | 0    | 0     | 0     | 0   | 101  |
| NNW   | 20   | 13   | 15   | 15   | 25   | 33   | 16   | 0    | 0    | 0     | 0     | 0   | 137  |
| TOTAL | 199  | 260  | 261  | 418  | 409  | 434  | 160  | 0    | 0    | 0     | 0     | 0   | 2141 |

NUMBER OF CALMS: 11  
NUMBER OF INVALID HOURS: 32  
NUMBER OF VALID HOURS: 2152  
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 1    | 0    | 9    | 7    | 18   | 0    | 0    | 0     | 0     | 0   | 35   |
| NNE   | 0    | 0    | 0    | 0    | 9    | 5    | 4    | 0    | 0    | 0     | 0     | 0   | 18   |
| NE    | 0    | 0    | 0    | 3    | 3    | 7    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| ENE   | 0    | 0    | 0    | 2    | 6    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| E     | 0    | 0    | 1    | 7    | 10   | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 19   |
| ESE   | 0    | 0    | 0    | 7    | 18   | 11   | 0    | 0    | 0    | 0     | 0     | 0   | 36   |
| SE    | 0    | 1    | 0    | 1    | 14   | 28   | 8    | 0    | 0    | 0     | 0     | 0   | 52   |
| SSE   | 0    | 0    | 0    | 2    | 3    | 20   | 9    | 0    | 0    | 0     | 0     | 0   | 34   |
| S     | 0    | 0    | 0    | 0    | 4    | 26   | 15   | 0    | 0    | 0     | 0     | 0   | 45   |
| SSW   | 0    | 0    | 0    | 0    | 2    | 7    | 10   | 0    | 0    | 0     | 0     | 0   | 19   |
| SW    | 0    | 0    | 0    | 7    | 9    | 7    | 3    | 0    | 0    | 0     | 0     | 0   | 26   |
| WSW   | 0    | 0    | 0    | 4    | 13   | 8    | 0    | 0    | 0    | 0     | 0     | 0   | 25   |
| W     | 0    | 0    | 0    | 5    | 22   | 26   | 1    | 0    | 0    | 0     | 0     | 0   | 54   |
| WNW   | 0    | 0    | 0    | 1    | 12   | 19   | 1    | 0    | 0    | 0     | 0     | 0   | 33   |
| NW    | 0    | 0    | 0    | 2    | 6    | 13   | 4    | 0    | 0    | 0     | 0     | 0   | 25   |
| NNW   | 0    | 0    | 0    | 1    | 13   | 11   | 7    | 0    | 0    | 0     | 0     | 0   | 32   |
| TOTAL | 0    | 1    | 2    | 42   | 153  | 201  | 30   | 0    | 0    | 0     | 0     | 0   | 479  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 479  
TOTAL HOURS FOR THE PERIOD: 479

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N        | 0           | 0           | 0           | 0           | 1           | 8           | 7           | 0           | 0            | 0             | 0             | 0   | 16   |
| NNE      | 0           | 0           | 0           | 0           | 2           | 3           | 1           | 0           | 0            | 0             | 0             | 0   | 6    |
| NE       | 0           | 0           | 1           | 1           | 4           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 6    |
| ENE      | 0           | 0           | 0           | 3           | 1           | 2           | 0           | 0           | 0            | 0             | 0             | 0   | 6    |
| E        | 0           | 0           | 0           | 1           | 3           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 4    |
| ESE      | 0           | 0           | 0           | 0           | 3           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| SE       | 0           | 0           | 0           | 3           | 11          | 5           | 0           | 0           | 0            | 0             | 0             | 0   | 19   |
| SSE      | 0           | 0           | 0           | 3           | 1           | 12          | 4           | 0           | 0            | 0             | 0             | 0   | 20   |
| S        | 0           | 0           | 0           | 0           | 1           | 8           | 6           | 0           | 0            | 0             | 0             | 0   | 15   |
| SSW      | 0           | 0           | 0           | 0           | 0           | 2           | 5           | 0           | 0            | 0             | 0             | 0   | 7    |
| SW       | 0           | 0           | 0           | 2           | 1           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| WSW      | 0           | 0           | 0           | 1           | 6           | 3           | 0           | 0           | 0            | 0             | 0             | 0   | 10   |
| W        | 0           | 0           | 0           | 2           | 3           | 3           | 0           | 0           | 0            | 0             | 0             | 0   | 8    |
| WNW      | 0           | 0           | 0           | 1           | 4           | 1           | 2           | 0           | 0            | 0             | 0             | 0   | 8    |
| NW       | 0           | 0           | 0           | 1           | 3           | 3           | 0           | 0           | 0            | 0             | 0             | 0   | 7    |
| NNW      | 0           | 0           | 0           | 1           | 1           | 7           | 6           | 0           | 0            | 0             | 0             | 0   | 15   |
| TOTAL    | 0           | 0           | 1           | 19          | 45          | 57          | 31          | 0           | 0            | 0             | 0             | 0   | 153  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 153  
TOTAL HOURS FOR THE PERIOD: 153

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 1    | 1    | 1    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 7    |
| NNE   | 0    | 0    | 0    | 1    | 2    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 6    |
| NE    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| ENE   | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| E     | 0    | 0    | 0    | 1    | 3    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| ESE   | 0    | 0    | 1    | 4    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| SE    | 0    | 0    | 0    | 4    | 2    | 3    | 2    | 0    | 0    | 0     | 0     | 0   | 11   |
| SSE   | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| S     | 0    | 0    | 0    | 1    | 1    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 5    |
| SSW   | 0    | 0    | 0    | 1    | 0    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| SW    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| WSW   | 0    | 0    | 0    | 2    | 3    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| W     | 0    | 0    | 0    | 1    | 3    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| WNW   | 0    | 0    | 0    | 1    | 2    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| NW    | 0    | 0    | 0    | 1    | 2    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 6    |
| NNW   | 0    | 0    | 0    | 0    | 0    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 5    |
| TOTAL | 0    | 0    | 2    | 19   | 23   | 31   | 7    | 0    | 0    | 0     | 0     | 0   | 82   |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 82  
TOTAL HOURS FOR THE PERIOD: 82

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND DIR | .22-.50 | .51-.75 | .76-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-5.0 | 5.1-7.0 | 7.1-10.0 | 10.1-13.0 | 13.1-18.0 | >18 | TOT. |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|-----|------|
| N        | 0       | 0       | 0       | 6       | 10      | 14      | 7       | 0       | 0        | 0         | 0         | 0   | 37   |
| NNE      | 0       | 1       | 1       | 4       | 10      | 3       | 2       | 0       | 0        | 0         | 0         | 0   | 21   |
| NE       | 0       | 2       | 1       | 7       | 6       | 4       | 1       | 0       | 0        | 0         | 0         | 0   | 21   |
| ENE      | 0       | 0       | 5       | 11      | 8       | 0       | 0       | 0       | 0        | 0         | 0         | 0   | 24   |
| E        | 0       | 0       | 5       | 17      | 1       | 2       | 0       | 0       | 0        | 0         | 0         | 0   | 25   |
| ESE      | 0       | 3       | 10      | 23      | 6       | 1       | 2       | 0       | 0        | 0         | 0         | 0   | 45   |
| SE       | 0       | 1       | 4       | 25      | 22      | 8       | 0       | 0       | 0        | 0         | 0         | 0   | 60   |
| SSE      | 0       | 0       | 1       | 4       | 5       | 24      | 12      | 0       | 0        | 0         | 0         | 0   | 46   |
| S        | 0       | 0       | 0       | 9       | 9       | 18      | 6       | 0       | 0        | 0         | 0         | 0   | 42   |
| SSW      | 0       | 1       | 0       | 4       | 9       | 10      | 2       | 0       | 0        | 0         | 0         | 0   | 26   |
| SW       | 0       | 0       | 0       | 3       | 4       | 2       | 1       | 0       | 0        | 0         | 0         | 0   | 10   |
| WSW      | 0       | 0       | 2       | 3       | 2       | 1       | 0       | 0       | 0        | 0         | 0         | 0   | 8    |
| W        | 0       | 0       | 2       | 5       | 3       | 1       | 0       | 0       | 0        | 0         | 0         | 0   | 11   |
| WNW      | 0       | 0       | 1       | 3       | 4       | 0       | 0       | 0       | 0        | 0         | 0         | 0   | 8    |
| NW       | 0       | 1       | 2       | 4       | 4       | 5       | 1       | 0       | 0        | 0         | 0         | 0   | 17   |
| NNW      | 0       | 0       | 0       | 5       | 7       | 10      | 3       | 0       | 0        | 0         | 0         | 0   | 25   |
| TOTAL    | 0       | 9       | 34      | 133     | 110     | 103     | 37      | 0       | 0        | 0         | 0         | 0   | 426  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 426  
TOTAL HOURS FOR THE PERIOD: 426

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 1           | 3           | 4           | 11          | 4           | 5           | 0           | 0           | 0            | 0             | 0             | 28          |
| NNE         | 1           | 1           | 7           | 14          | 12          | 5           | 0           | 0           | 0            | 0             | 0             | 40          |
| NE          | 0           | 12          | 10          | 8           | 5           | 3           | 0           | 0           | 0            | 0             | 0             | 38          |
| ENE         | 3           | 14          | 20          | 6           | 1           | 0           | 0           | 0           | 0            | 0             | 0             | 44          |
| E           | 6           | 14          | 22          | 7           | 0           | 3           | 0           | 0           | 0            | 0             | 0             | 52          |
| ESE         | 3           | 8           | 22          | 13          | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 48          |
| SE          | 0           | 11          | 24          | 34          | 4           | 1           | 1           | 0           | 0            | 0             | 0             | 75          |
| SSE         | 0           | 3           | 7           | 14          | 7           | 6           | 0           | 0           | 0            | 0             | 0             | 37          |
| S           | 0           | 2           | 1           | 14          | 11          | 6           | 0           | 0           | 0            | 0             | 0             | 34          |
| SSW         | 2           | 4           | 2           | 11          | 14          | 8           | 1           | 0           | 0            | 0             | 0             | 42          |
| SW          | 2           | 3           | 9           | 11          | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 27          |
| WSW         | 0           | 5           | 5           | 1           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 11          |
| W           | 2           | 3           | 6           | 2           | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 15          |
| WNW         | 0           | 1           | 4           | 3           | 1           | 0           | 0           | 0           | 0            | 0             | 0             | 9           |
| NW          | 1           | 4           | 4           | 4           | 3           | 2           | 1           | 0           | 0            | 0             | 0             | 19          |
| NNW         | 2           | 3           | 6           | 6           | 1           | 0           | 0           | 0           | 0            | 0             | 0             | 18          |
| TOTAL       | 23          | 91          | 153         | 159         | 69          | 39          | 3           | 0           | 0            | 0             | 0             | 537         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 537  
TOTAL HOURS FOR THE PERIOD: 537

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 6    | 5    | 2    | 8    | 2    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 24   |
| NNE   | 5    | 5    | 4    | 7    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 22   |
| NE    | 6    | 9    | 6    | 5    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 26   |
| ENE   | 4    | 7    | 6    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 19   |
| E     | 1    | 8    | 2    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 12   |
| ESE   | 5    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| SE    | 1    | 1    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| SSE   | 1    | 3    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| S     | 0    | 1    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| SSW   | 4    | 1    | 2    | 5    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| SW    | 1    | 1    | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| WSW   | 0    | 1    | 0    | 1    | 0    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| W     | 1    | 6    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| WNW   | 1    | 4    | 1    | 1    | 0    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 9    |
| NW    | 1    | 1    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| NNW   | 4    | 4    | 5    | 2    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 17   |
| TOTAL | 41   | 60   | 47   | 38   | 6    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 196  |

NUMBER OF CALMS: 3  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 199  
TOTAL HOURS FOR THE PERIOD: 199



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS G

FROM 4/ 1/92 0100 TO 6/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 8    | 5    | 3    | 1    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 18   |
| NNE   | 20   | 8    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 28   |
| NE    | 33   | 15   | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 49   |
| ENE   | 25   | 30   | 10   | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 66   |
| E     | 7    | 6    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| ESE   | 6    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| SE    | 1    | 2    | 1    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| SSE   | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| S     | 1    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| SSW   | 1    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| SW    | 0    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| WSW   | 5    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| W     | 3    | 3    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| WNW   | 4    | 4    | 0    | 1    | 0    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 10   |
| NW    | 6    | 13   | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 21   |
| NNW   | 14   | 6    | 4    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 25   |
| TOTAL | 135  | 99   | 22   | 8    | 3    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 268  |

NUMBER OF CALMS: 8  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 276  
TOTAL HOURS FOR THE PERIOD: 276

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 0           | 3           | 6           | 9           | 45          | 61          | 25          | 1            | 1             | 0             | 0 151       |
| NNE         | 0           | 1           | 2           | 3           | 11          | 44          | 41          | 10          | 0            | 0             | 0             | 0 112       |
| NE          | 0           | 0           | 0           | 6           | 11          | 28          | 50          | 3           | 0            | 0             | 0             | 0 98        |
| ENE         | 0           | 0           | 4           | 12          | 18          | 51          | 37          | 2           | 0            | 0             | 0             | 0 124       |
| E           | 0           | 0           | 3           | 8           | 20          | 84          | 30          | 0           | 0            | 0             | 0             | 0 145       |
| ESE         | 0           | 2           | 3           | 12          | 25          | 109         | 95          | 7           | 1            | 0             | 0             | 0 254       |
| SE          | 0           | 0           | 6           | 16          | 26          | 56          | 95          | 19          | 2            | 0             | 0             | 0 220       |
| SSE         | 0           | 0           | 0           | 6           | 30          | 35          | 56          | 5           | 0            | 0             | 0             | 0 132       |
| S           | 0           | 0           | 2           | 12          | 18          | 51          | 74          | 2           | 0            | 0             | 0             | 0 159       |
| SSW         | 0           | 0           | 3           | 5           | 23          | 43          | 69          | 1           | 0            | 0             | 0             | 0 144       |
| SW          | 0           | 0           | 2           | 8           | 21          | 49          | 19          | 0           | 0            | 0             | 0             | 0 99        |
| WSW         | 0           | 0           | 0           | 6           | 25          | 65          | 14          | 1           | 0            | 0             | 0             | 0 111       |
| W           | 0           | 1           | 0           | 10          | 22          | 68          | 34          | 1           | 0            | 0             | 0             | 0 136       |
| WNW         | 1           | 0           | 1           | 6           | 10          | 33          | 22          | 2           | 0            | 0             | 0             | 0 75        |
| NW          | 0           | 0           | 1           | 7           | 15          | 25          | 30          | 1           | 1            | 0             | 0             | 0 80        |
| NNW         | 1           | 0           | 2           | 4           | 12          | 43          | 45          | 5           | 0            | 0             | 0             | 0 112       |
| TOTAL       | 2           | 4           | 32          | 127         | 296         | 829         | 772         | 84          | 5            | 1             | 0             | 0 2152      |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 32  
NUMBER OF VALID HOURS: 2152  
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 2    | 9    | 3    | 14   | 0    | 0     | 0     | 0   | 28   |
| NNE   | 0    | 0    | 1    | 0    | 2    | 12   | 4    | 6    | 0    | 0     | 0     | 0   | 25   |
| NE    | 0    | 0    | 0    | 1    | 2    | 4    | 5    | 0    | 0    | 0     | 0     | 0   | 12   |
| ENE   | 0    | 0    | 0    | 1    | 1    | 9    | 5    | 0    | 0    | 0     | 0     | 0   | 16   |
| E     | 0    | 0    | 0    | 1    | 3    | 11   | 10   | 0    | 0    | 0     | 0     | 0   | 25   |
| ESE   | 0    | 0    | 0    | 0    | 4    | 19   | 30   | 4    | 1    | 0     | 0     | 0   | 58   |
| SE    | 0    | 0    | 0    | 1    | 1    | 3    | 21   | 7    | 2    | 0     | 0     | 0   | 35   |
| SSE   | 0    | 0    | 0    | 1    | 2    | 5    | 14   | 2    | 0    | 0     | 0     | 0   | 24   |
| S     | 0    | 0    | 0    | 0    | 0    | 11   | 30   | 0    | 0    | 0     | 0     | 0   | 41   |
| SSW   | 0    | 0    | 1    | 0    | 1    | 2    | 19   | 0    | 0    | 0     | 0     | 0   | 23   |
| SW    | 0    | 0    | 0    | 1    | 7    | 8    | 4    | 0    | 0    | 0     | 0     | 0   | 20   |
| WSW   | 0    | 0    | 0    | 0    | 9    | 16   | 8    | 0    | 0    | 0     | 0     | 0   | 33   |
| W     | 0    | 0    | 0    | 1    | 8    | 35   | 23   | 0    | 0    | 0     | 0     | 0   | 67   |
| WNW   | 0    | 0    | 0    | 0    | 4    | 9    | 5    | 0    | 0    | 0     | 0     | 0   | 18   |
| NW    | 0    | 0    | 0    | 1    | 4    | 11   | 9    | 0    | 0    | 0     | 0     | 0   | 25   |
| NNW   | 0    | 0    | 0    | 1    | 7    | 13   | 5    | 3    | 0    | 0     | 0     | 0   | 29   |
| TOTAL | 0    | 0    | 2    | 9    | 57   | 177  | 195  | 36   | 3    | 0     | 0     | 0   | 479  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 479  
TOTAL HOURS FOR THE PERIOD: 479

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 4/ 1/92 0100 TO 6/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 0    | 4    | 5    | 3    | 0    | 0     | 0     | 0   | 12   |
| NNE   | 0    | 0    | 0    | 0    | 0    | 2    | 4    | 1    | 0    | 0     | 0     | 0   | 7    |
| NE    | 0    | 0    | 0    | 0    | 0    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| ENE   | 0    | 0    | 0    | 1    | 1    | 2    | 3    | 0    | 0    | 0     | 0     | 0   | 7    |
| E     | 0    | 0    | 0    | 0    | 1    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 5    |
| ESE   | 0    | 0    | 0    | 0    | 1    | 5    | 3    | 1    | 0    | 0     | 0     | 0   | 10   |
| SE    | 0    | 0    | 0    | 0    | 2    | 7    | 9    | 3    | 0    | 0     | 0     | 0   | 21   |
| SSE   | 0    | 0    | 0    | 1    | 2    | 0    | 9    | 0    | 0    | 0     | 0     | 0   | 12   |
| S     | 0    | 0    | 0    | 1    | 1    | 1    | 11   | 1    | 0    | 0     | 0     | 0   | 15   |
| SSW   | 0    | 0    | 0    | 0    | 0    | 0    | 4    | 0    | 0    | 0     | 0     | 0   | 4    |
| SW    | 0    | 0    | 0    | 0    | 3    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 7    |
| WSW   | 0    | 0    | 0    | 1    | 1    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 9    |
| W     | 0    | 0    | 0    | 4    | 0    | 5    | 3    | 0    | 0    | 0     | 0     | 0   | 12   |
| WNW   | 0    | 0    | 0    | 0    | 0    | 3    | 3    | 0    | 0    | 0     | 0     | 0   | 6    |
| NW    | 0    | 0    | 0    | 0    | 1    | 2    | 4    | 0    | 0    | 0     | 0     | 0   | 7    |
| NNW   | 0    | 0    | 0    | 0    | 0    | 6    | 8    | 1    | 0    | 0     | 0     | 0   | 15   |
| TOTAL | 0    | 0    | 0    | 8    | 13   | 51   | 71   | 10   | 0    | 0     | 0     | 0   | 153  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 153  
TOTAL HOURS FOR THE PERIOD: 153

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 0           | 0           | 1           | 1           | 2           | 3           | 0           | 0            | 0             | 0             | 7           |
| NNE         | 0           | 0           | 0           | 0           | 0           | 1           | 2           | 0           | 0            | 0             | 0             | 3           |
| NE          | 0           | 0           | 0           | 1           | 0           | 2           | 1           | 0           | 0            | 0             | 0             | 4           |
| ENE         | 0           | 0           | 0           | 0           | 0           | 0           | 1           | 0           | 0            | 0             | 0             | 1           |
| E           | 0           | 0           | 0           | 0           | 2           | 4           | 0           | 0           | 0            | 0             | 0             | 6           |
| ESE         | 0           | 0           | 1           | 0           | 2           | 1           | 4           | 0           | 0            | 0             | 0             | 8           |
| SE          | 0           | 0           | 0           | 0           | 2           | 2           | 3           | 3           | 0            | 0             | 0             | 10          |
| SSE         | 0           | 0           | 0           | 0           | 1           | 1           | 0           | 0           | 0            | 0             | 0             | 2           |
| S           | 0           | 0           | 0           | 0           | 1           | 1           | 1           | 0           | 0            | 0             | 0             | 3           |
| SSW         | 0           | 0           | 0           | 0           | 1           | 0           | 2           | 0           | 0            | 0             | 0             | 3           |
| SW          | 0           | 0           | 0           | 0           | 0           | 2           | 0           | 0           | 0            | 0             | 0             | 2           |
| WSW         | 0           | 0           | 0           | 1           | 1           | 5           | 0           | 0           | 0            | 0             | 0             | 7           |
| W           | 0           | 0           | 0           | 1           | 2           | 5           | 3           | 0           | 0            | 0             | 0             | 11          |
| WNW         | 0           | 0           | 0           | 0           | 3           | 1           | 2           | 0           | 0            | 0             | 0             | 6           |
| NW          | 0           | 0           | 0           | 0           | 0           | 2           | 2           | 0           | 0            | 0             | 0             | 4           |
| NNW         | 0           | 0           | 0           | 0           | 0           | 1           | 4           | 0           | 0            | 0             | 0             | 5           |
| TOTAL       | 0           | 0           | 1           | 4           | 16          | 30          | 28          | 3           | 0            | 0             | 0             | 82          |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 82  
TOTAL HOURS FOR THE PERIOD: 82

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N           | 0           | 0           | 0           | 0           | 1           | 15          | 18          | 4           | 1            | 1             | 0             | 0   | 40   |
| NNE         | 0           | 0           | 0           | 0           | 4           | 4           | 6           | 3           | 0            | 0             | 0             | 0   | 17   |
| NE          | 0           | 0           | 0           | 2           | 2           | 2           | 9           | 1           | 0            | 0             | 0             | 0   | 16   |
| ENE         | 0           | 0           | 0           | 2           | 3           | 12          | 12          | 0           | 0            | 0             | 0             | 0   | 29   |
| E           | 0           | 0           | 0           | 2           | 7           | 16          | 4           | 0           | 0            | 0             | 0             | 0   | 29   |
| ESE         | 0           | 1           | 0           | 2           | 6           | 21          | 29          | 2           | 0            | 0             | 0             | 0   | 61   |
| SE          | 0           | 0           | 1           | 1           | 8           | 9           | 27          | 4           | 0            | 0             | 0             | 0   | 50   |
| SSE         | 0           | 0           | 0           | 1           | 6           | 6           | 22          | 3           | 0            | 0             | 0             | 0   | 38   |
| S           | 0           | 0           | 0           | 2           | 3           | 12          | 19          | 1           | 0            | 0             | 0             | 0   | 37   |
| SSW         | 0           | 0           | 0           | 0           | 4           | 9           | 13          | 0           | 0            | 0             | 0             | 0   | 26   |
| SW          | 0           | 0           | 1           | 1           | 2           | 4           | 2           | 0           | 0            | 0             | 0             | 0   | 10   |
| WSW         | 0           | 0           | 0           | 0           | 7           | 3           | 3           | 1           | 0            | 0             | 0             | 0   | 14   |
| W           | 0           | 0           | 0           | 0           | 5           | 5           | 2           | 0           | 0            | 0             | 0             | 0   | 12   |
| WNW         | 0           | 0           | 0           | 0           | 1           | 6           | 4           | 0           | 0            | 0             | 0             | 0   | 11   |
| NW          | 0           | 0           | 0           | 3           | 2           | 1           | 7           | 0           | 1            | 0             | 0             | 0   | 14   |
| NNW         | 0           | 0           | 0           | 1           | 1           | 12          | 7           | 1           | 0            | 0             | 0             | 0   | 22   |
| TOTAL       | 0           | 1           | 2           | 17          | 62          | 137         | 184         | 20          | 2            | 1             | 0             | 0   | 426  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 426  
TOTAL HOURS FOR THE PERIOD: 426

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 0           | 0           | 2           | 4           | 4           | 11          | 3           | 0            | 0             | 0             | 24          |
| NNE         | 0           | 0           | 0           | 1           | 2           | 11          | 16          | 0           | 0            | 0             | 0             | 30          |
| NE          | 0           | 0           | 0           | 0           | 2           | 12          | 23          | 2           | 0            | 0             | 0             | 39          |
| ENE         | 0           | 0           | 2           | 0           | 7           | 20          | 9           | 2           | 0            | 0             | 0             | 40          |
| E           | 0           | 0           | 2           | 2           | 3           | 32          | 6           | 0           | 0            | 0             | 0             | 45          |
| ESE         | 0           | 1           | 0           | 5           | 4           | 42          | 25          | 0           | 0            | 0             | 0             | 77          |
| SE          | 0           | 0           | 2           | 5           | 4           | 27          | 29          | 2           | 0            | 0             | 0             | 69          |
| SSE         | 0           | 0           | 0           | 0           | 7           | 10          | 10          | 0           | 0            | 0             | 0             | 27          |
| S           | 0           | 0           | 1           | 4           | 4           | 14          | 9           | 0           | 0            | 0             | 0             | 32          |
| SSW         | 0           | 0           | 2           | 3           | 5           | 17          | 26          | 1           | 0            | 0             | 0             | 54          |
| SW          | 0           | 0           | 0           | 0           | 3           | 17          | 10          | 0           | 0            | 0             | 0             | 30          |
| WSW         | 0           | 0           | 0           | 2           | 2           | 12          | 2           | 0           | 0            | 0             | 0             | 18          |
| W           | 0           | 0           | 0           | 2           | 2           | 7           | 3           | 0           | 0            | 0             | 0             | 14          |
| WNW         | 0           | 0           | 0           | 2           | 0           | 5           | 4           | 0           | 0            | 0             | 0             | 11          |
| NW          | 0           | 0           | 1           | 2           | 3           | 3           | 4           | 1           | 0            | 0             | 0             | 14          |
| NNW         | 0           | 0           | 0           | 1           | 2           | 3           | 7           | 0           | 0            | 0             | 0             | 13          |
| TOTAL       | 0           | 1           | 10          | 31          | 54          | 236         | 194         | 11          | 0            | 0             | 0             | 537         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 537  
TOTAL HOURS FOR THE PERIOD: 537

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 4/ 1/92 0100 TO 6/30/92 2300

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 2    | 2    | 0    | 5    | 13   | 1    | 0    | 0     | 0     | 0   | 23   |
| NNE   | 0    | 1    | 0    | 1    | 1    | 6    | 7    | 0    | 0    | 0     | 0     | 0   | 16   |
| NE    | 0    | 0    | 0    | 1    | 1    | 1    | 10   | 0    | 0    | 0     | 0     | 0   | 13   |
| ENE   | 0    | 0    | 2    | 4    | 2    | 3    | 2    | 0    | 0    | 0     | 0     | 0   | 13   |
| E     | 0    | 0    | 1    | 2    | 1    | 8    | 1    | 0    | 0    | 0     | 0     | 0   | 13   |
| ESE   | 0    | 0    | 2    | 1    | 4    | 8    | 2    | 0    | 0    | 0     | 0     | 0   | 17   |
| SE    | 0    | 0    | 3    | 4    | 5    | 4    | 4    | 0    | 0    | 0     | 0     | 0   | 20   |
| SSE   | 0    | 0    | 0    | 1    | 6    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 12   |
| S     | 0    | 0    | 1    | 2    | 6    | 6    | 2    | 0    | 0    | 0     | 0     | 0   | 17   |
| SSW   | 0    | 0    | 0    | 0    | 5    | 5    | 5    | 0    | 0    | 0     | 0     | 0   | 15   |
| SW    | 0    | 0    | 1    | 2    | 2    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 9    |
| WSW   | 0    | 0    | 0    | 0    | 1    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| W     | 0    | 0    | 0    | 1    | 3    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| WNW   | 1    | 0    | 1    | 1    | 2    | 2    | 1    | 2    | 0    | 0     | 0     | 0   | 10   |
| NW    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| NNW   | 1    | 0    | 1    | 0    | 1    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 9    |
| TOTAL | 2    | 1    | 14   | 23   | 40   | 67   | 49   | 3    | 0    | 0     | 0     | 0   | 199  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 199  
TOTAL HOURS FOR THE PERIOD: 199



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS G

FROM 4/ 1/92 0:00 TO 6/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 1    | 1    | 1    | 6    | 8    | 0    | 0    | 0     | 0     | 0   | 17   |
| NNE   | 0    | 0    | 1    | 1    | 2    | 8    | 2    | 0    | 0    | 0     | 0     | 0   | 14   |
| NE    | 0    | 0    | 0    | 1    | 4    | 3    | 2    | 0    | 0    | 0     | 0     | 0   | 10   |
| ENE   | 0    | 0    | 0    | 4    | 4    | 5    | 5    | 0    | 0    | 0     | 0     | 0   | 18   |
| E     | 0    | 0    | 0    | 1    | 3    | 11   | 7    | 0    | 0    | 0     | 0     | 0   | 22   |
| ESE   | 0    | 0    | 0    | 4    | 4    | 13   | 2    | 0    | 0    | 0     | 0     | 0   | 23   |
| SE    | 0    | 0    | 0    | 5    | 4    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 15   |
| SSE   | 0    | 0    | 0    | 2    | 6    | 8    | 1    | 0    | 0    | 0     | 0     | 0   | 17   |
| S     | 0    | 0    | 0    | 3    | 3    | 6    | 2    | 0    | 0    | 0     | 0     | 0   | 14   |
| SSW   | 0    | 0    | 0    | 2    | 7    | 10   | 0    | 0    | 0    | 0     | 0     | 0   | 19   |
| SW    | 0    | 0    | 0    | 4    | 4    | 12   | 1    | 0    | 0    | 0     | 0     | 0   | 21   |
| WSW   | 0    | 0    | 0    | 2    | 4    | 20   | 0    | 0    | 0    | 0     | 0     | 0   | 26   |
| W     | 0    | 1    | 0    | 1    | 2    | 8    | 0    | 1    | 0    | 0     | 0     | 0   | 13   |
| WNW   | 0    | 0    | 0    | 3    | 0    | 7    | 3    | 0    | 0    | 0     | 0     | 0   | 13   |
| NW    | 0    | 0    | 0    | 0    | 5    | 6    | 4    | 0    | 0    | 0     | 0     | 0   | 15   |
| NNW   | 0    | 0    | 1    | 1    | 1    | 4    | 12   | 0    | 0    | 0     | 0     | 0   | 19   |
| TOTAL | 0    | 1    | 3    | 35   | 54   | 131  | 51   | 1    | 0    | 0     | 0     | 0   | 276  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 276  
TOTAL HOURS FOR THE PERIOD: 276

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 10          | 9           | 10          | 31          | 43          | 43          | 12          | 0           | 1            | 0             | 0             | 0 159       |
| NNE         | 18          | 10          | 16          | 44          | 63          | 65          | 11          | 0           | 0            | 0             | 0             | 0 227       |
| NE          | 20          | 52          | 37          | 42          | 26          | 23          | 9           | 0           | 1            | 0             | 0             | 0 210       |
| ENE         | 10          | 40          | 48          | 42          | 28          | 18          | 2           | 3           | 2            | 0             | 0             | 0 193       |
| E           | 7           | 19          | 26          | 26          | 16          | 5           | 0           | 0           | 1            | 0             | 0             | 0 100       |
| ESE         | 6           | 29          | 31          | 30          | 20          | 12          | 0           | 0           | 0            | 0             | 0             | 0 128       |
| SE          | 5           | 10          | 19          | 35          | 22          | 10          | 0           | 0           | 0            | 0             | 0             | 0 101       |
| SSE         | 4           | 7           | 15          | 22          | 20          | 24          | 5           | 0           | 0            | 0             | 0             | 0 97        |
| S           | 5           | 5           | 9           | 27          | 41          | 48          | 30          | 0           | 0            | 0             | 0             | 0 165       |
| SSW         | 3           | 8           | 21          | 42          | 13          | 20          | 23          | 1           | 1            | 0             | 0             | 0 132       |
| SW          | 4           | 10          | 14          | 28          | 24          | 21          | 3           | 4           | 0            | 0             | 0             | 0 100       |
| WSW         | 0           | 21          | 15          | 19          | 26          | 18          | 7           | 0           | 0            | 0             | 0             | 0 106       |
| W           | 10          | 13          | 11          | 11          | 33          | 34          | 3           | 0           | 0            | 0             | 0             | 0 115       |
| WNW         | 7           | 12          | 6           | 17          | 16          | 21          | 0           | 0           | 0            | 0             | 0             | 0 79        |
| NW          | 6           | 10          | 4           | 18          | 9           | 8           | 1           | 0           | 0            | 0             | 0             | 0 56        |
| NNW         | 13          | 10          | 5           | 16          | 16          | 27          | 4           | 0           | 0            | 0             | 0             | 0 91        |
| TOTAL       | 128         | 265         | 287         | 450         | 416         | 397         | 110         | 8           | 6            | 0             | 0             | 0 2067      |

NUMBER OF CALMS: 7  
NUMBER OF INVALID HOURS: 134  
NUMBER OF VALID HOURS: 2074  
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0           |
| NNE         | 0           | 0           | 0           | 0           | 1           | 2           | 5           | 0           | 0            | 0             | 0             | 8           |
| NE          | 0           | 0           | 0           | 0           | 0           | 7           | 2           | 0           | 0            | 0             | 0             | 9           |
| ENE         | 0           | 0           | 0           | 0           | 3           | 6           | 0           | 3           | 0            | 0             | 0             | 12          |
| E           | 0           | 0           | 0           | 0           | 2           | 4           | 0           | 0           | 0            | 0             | 0             | 6           |
| ESE         | 0           | 0           | 0           | 0           | 2           | 7           | 0           | 0           | 0            | 0             | 0             | 9           |
| SE          | 0           | 0           | 0           | 3           | 3           | 5           | 0           | 0           | 0            | 0             | 0             | 11          |
| SSE         | 0           | 0           | 0           | 1           | 0           | 4           | 0           | 0           | 0            | 0             | 0             | 5           |
| S           | 0           | 0           | 0           | 0           | 1           | 2           | 10          | 0           | 0            | 0             | 0             | 13          |
| SSW         | 0           | 0           | 1           | 1           | 2           | 2           | 14          | 0           | 0            | 0             | 0             | 20          |
| SW          | 0           | 0           | 1           | 1           | 3           | 2           | 1           | 0           | 0            | 0             | 0             | 8           |
| WSW         | 0           | 0           | 0           | 0           | 2           | 6           | 0           | 0           | 0            | 0             | 0             | 8           |
| W           | 0           | 0           | 1           | 1           | 9           | 14          | 1           | 0           | 0            | 0             | 0             | 26          |
| WNW         | 0           | 0           | 0           | 2           | 1           | 13          | 0           | 0           | 0            | 0             | 0             | 16          |
| NW          | 0           | 0           | 0           | 0           | 0           | 1           | 1           | 0           | 0            | 0             | 0             | 2           |
| NNW         | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0           |
| TOTAL       | 0           | 0           | 3           | 9           | 29          | 75          | 34          | 3           | 0            | 0             | 0             | 153         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 153  
TOTAL HOURS FOR THE PERIOD: 153

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 7/ 1/92 01:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 1    | 1    | 14   | 4    | 0    | 0    | 0     | 0     | 0   | 20   |
| NNE   | 0    | 0    | 0    | 1    | 2    | 7    | 2    | 0    | 0    | 0     | 0     | 0   | 12   |
| NE    | 0    | 0    | 0    | 0    | 5    | 4    | 0    | 0    | 1    | 0     | 0     | 0   | 10   |
| ENE   | 0    | 0    | 1    | 1    | 8    | 3    | 0    | 0    | 1    | 0     | 0     | 0   | 14   |
| E     | 0    | 0    | 0    | 0    | 4    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 5    |
| ESE   | 0    | 0    | 1    | 3    | 10   | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 16   |
| SE    | 0    | 0    | 0    | 1    | 6    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 9    |
| SSE   | 0    | 0    | 0    | 1    | 5    | 4    | 1    | 0    | 0    | 0     | 0     | 0   | 11   |
| S     | 0    | 0    | 1    | 0    | 0    | 7    | 5    | 0    | 0    | 0     | 0     | 0   | 13   |
| SSW   | 0    | 0    | 0    | 0    | 1    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 8    |
| SW    | 0    | 0    | 0    | 0    | 6    | 8    | 2    | 0    | 0    | 0     | 0     | 0   | 16   |
| WSW   | 0    | 0    | 0    | 2    | 11   | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 17   |
| W     | 0    | 0    | 0    | 0    | 9    | 15   | 1    | 0    | 0    | 0     | 0     | 0   | 25   |
| WNW   | 0    | 0    | 0    | 0    | 8    | 6    | 0    | 0    | 0    | 0     | 0     | 0   | 14   |
| NW    | 0    | 0    | 0    | 0    | 3    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| NNW   | 0    | 0    | 0    | 0    | 2    | 11   | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| TOTAL | 0    | 0    | 3    | 10   | 81   | 97   | 17   | 0    | 2    | 0     | 0     | 0   | 210  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 1  
NUMBER OF VALID HOURS: 210  
TOTAL HOURS FOR THE PERIOD: 211

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N           | 0           | 0           | 0           | 1           | 4           | 1           | 2           | 0           | 0            | 0             | 0             | 0   | 8    |
| NNE         | 0           | 0           | 0           | 0           | 6           | 4           | 1           | 0           | 0            | 0             | 0             | 0   | 11   |
| NE          | 0           | 0           | 0           | 0           | 6           | 2           | 1           | 0           | 0            | 0             | 0             | 0   | 9    |
| ENE         | 0           | 0           | 0           | 1           | 6           | 2           | 0           | 0           | 1            | 0             | 0             | 0   | 10   |
| E           | 0           | 0           | 0           | 2           | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 4    |
| ESE         | 0           | 0           | 0           | 4           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 4    |
| SE          | 0           | 0           | 1           | 1           | 4           | 1           | 0           | 0           | 0            | 0             | 0             | 0   | 7    |
| SSE         | 0           | 0           | 0           | 0           | 2           | 5           | 2           | 0           | 0            | 0             | 0             | 0   | 9    |
| S           | 0           | 0           | 0           | 2           | 5           | 2           | 4           | 0           | 0            | 0             | 0             | 0   | 13   |
| SSW         | 0           | 0           | 0           | 2           | 3           | 3           | 1           | 0           | 0            | 0             | 0             | 0   | 9    |
| SW          | 0           | 0           | 0           | 3           | 3           | 3           | 0           | 0           | 0            | 0             | 0             | 0   | 9    |
| WSW         | 0           | 0           | 0           | 0           | 6           | 2           | 0           | 0           | 0            | 0             | 0             | 0   | 8    |
| W           | 0           | 0           | 0           | 4           | 8           | 2           | 0           | 0           | 0            | 0             | 0             | 0   | 14   |
| WNW         | 0           | 0           | 0           | 3           | 3           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 6    |
| NW          | 0           | 0           | 0           | 2           | 3           | 2           | 0           | 0           | 0            | 0             | 0             | 0   | 7    |
| NNW         | 0           | 0           | 0           | 0           | 1           | 4           | 2           | 0           | 0            | 0             | 0             | 0   | 7    |
| TOTAL       | 0           | 0           | 1           | 25          | 62          | 33          | 13          | 0           | 1            | 0             | 0             | 0   | 135  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 1  
NUMBER OF VALID HOURS: 135  
TOTAL HOURS FOR THE PERIOD: 136

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 7/ 1/92 01:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 4    | 14   | 20   | 20   | 2    | 0    | 1    | 0     | 0     | 0   | 61   |
| NNE   | 0    | 0    | 3    | 13   | 21   | 22   | 2    | 0    | 0    | 0     | 0     | 0   | 61   |
| NE    | 0    | 0    | 8    | 15   | 7    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 33   |
| ENE   | 1    | 2    | 9    | 21   | 8    | 6    | 2    | 0    | 0    | 0     | 0     | 0   | 49   |
| E     | 0    | 1    | 8    | 17   | 7    | 0    | 0    | 0    | 1    | 0     | 0     | 0   | 34   |
| ESE   | 0    | 4    | 8    | 14   | 5    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 34   |
| SE    | 0    | 1    | 4    | 13   | 3    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 22   |
| SSE   | 0    | 0    | 3    | 8    | 6    | 5    | 2    | 0    | 0    | 0     | 0     | 0   | 24   |
| S     | 0    | 0    | 1    | 8    | 13   | 17   | 11   | 0    | 0    | 0     | 0     | 0   | 50   |
| SSW   | 0    | 0    | 1    | 10   | 2    | 8    | 7    | 0    | 0    | 0     | 0     | 0   | 28   |
| SW    | 0    | 0    | 1    | 11   | 9    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 26   |
| WSW   | 0    | 0    | 4    | 12   | 5    | 5    | 4    | 0    | 0    | 0     | 0     | 0   | 30   |
| W     | 0    | 0    | 3    | 5    | 7    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 19   |
| WNW   | 0    | 0    | 1    | 9    | 4    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 16   |
| NW    | 0    | 0    | 2    | 6    | 3    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 12   |
| NNW   | 0    | 0    | 3    | 9    | 7    | 12   | 1    | 0    | 0    | 0     | 0     | 0   | 32   |
| TOTAL | 1    | 8    | 63   | 185  | 127  | 113  | 32   | 0    | 2    | 0     | 0     | 0   | 531  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 1  
NUMBER OF VALID HOURS: 531  
TOTAL HOURS FOR THE PERIOD: 532

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 1    | 4    | 11   | 17   | 8    | 3    | 0    | 0    | 0     | 0     | 0   | 44   |
| NNE   | 3    | 5    | 9    | 27   | 33   | 29   | 1    | 0    | 0    | 0     | 0     | 0   | 107  |
| NE    | 4    | 26   | 21   | 23   | 8    | 7    | 6    | 0    | 0    | 0     | 0     | 0   | 95   |
| ENE   | 2    | 19   | 23   | 19   | 3    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 67   |
| E     | 1    | 11   | 11   | 7    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 31   |
| ESE   | 2    | 22   | 20   | 9    | 3    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 56   |
| SE    | 1    | 3    | 14   | 17   | 6    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 42   |
| SSE   | 1    | 3    | 9    | 9    | 7    | 6    | 0    | 0    | 0    | 0     | 0     | 0   | 35   |
| S     | 0    | 3    | 4    | 12   | 21   | 20   | 0    | 0    | 0    | 0     | 0     | 0   | 60   |
| SSW   | 1    | 3    | 15   | 25   | 4    | 1    | 0    | 1    | 1    | 0     | 0     | 0   | 51   |
| SW    | 1    | 4    | 8    | 8    | 3    | 3    | 0    | 4    | 0    | 0     | 0     | 0   | 31   |
| WSW   | 0    | 9    | 8    | 5    | 2    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 28   |
| W     | 2    | 7    | 5    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 15   |
| WNW   | 1    | 4    | 4    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 12   |
| NW    | 3    | 3    | 1    | 9    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 16   |
| NNW   | 1    | 5    | 1    | 6    | 5    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 19   |
| TOTAL | 23   | 128  | 157  | 191  | 113  | 78   | 13   | 5    | 1    | 0     | 0     | 0   | 709  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 2  
NUMBER OF VALID HOURS: 709  
TOTAL HOURS FOR THE PERIOD: 711

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 4    | 6    | 1    | 4    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 16   |
| NNE   | 8    | 5    | 3    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 19   |
| NE    | 5    | 15   | 7    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 30   |
| ENE   | 5    | 12   | 6    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 23   |
| E     | 4    | 6    | 7    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 17   |
| ESE   | 3    | 3    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| SE    | 3    | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| SSE   | 1    | 3    | 3    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| S     | 1    | 2    | 2    | 4    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| SSW   | 1    | 5    | 4    | 4    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 15   |
| SW    | 1    | 5    | 4    | 5    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 15   |
| WSW   | 0    | 11   | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 14   |
| W     | 2    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| WNW   | 3    | 7    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 11   |
| NW    | 1    | 6    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 9    |
| NNW   | 5    | 5    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 13   |
| TOTAL | 47   | 100  | 45   | 28   | 4    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 224  |

NUMBER OF CALMS: 3  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 227  
TOTAL HOURS FOR THE PERIOD: 227



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS G

FROM 7/ 1/92 01:00 TO 9/30/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N           | 6           | 2           | 1           | 0           | 0           | 0           | 1           | 0           | 0            | 0             | 0             | 0   | 10   |
| NNE         | 7           | 0           | 1           | 0           | 0           | 1           | 0           | 0           | 0            | 0             | 0             | 0   | 9    |
| NE          | 11          | 11          | 1           | 1           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 24   |
| ENE         | 2           | 7           | 9           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 18   |
| E           | 2           | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| ESE         | 1           | 0           | 1           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 2    |
| SE          | 1           | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 2    |
| SSE         | 2           | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| S           | 4           | 0           | 1           | 1           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 6    |
| SSW         | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 1    |
| SW          | 2           | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| WSW         | 0           | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 1    |
| W           | 6           | 2           | 1           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 9    |
| WNW         | 3           | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 4    |
| NW          | 2           | 1           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| NNW         | 7           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 7    |
| TOTAL       | 57          | 29          | 15          | 2           | 0           | 1           | 1           | 0           | 0            | 0             | 0             | 0   | 105  |

NUMBER OF CALMS: 4  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 109  
TOTAL HOURS FOR THE PERIOD: 109

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 0           | 1           | 3           | 1           | 18          | 47          | 2           | 0            | 1             | 0             | 0 73        |
| NNE         | 0           | 2           | 3           | 8           | 21          | 81          | 141         | 14          | 0            | 0             | 0             | 0 270       |
| NE          | 3           | 1           | 1           | 17          | 41          | 64          | 72          | 13          | 4            | 0             | 1             | 0 217       |
| ENE         | 1           | 2           | 4           | 19          | 39          | 102         | 79          | 4           | 2            | 1             | 5             | 0 258       |
| E           | 1           | 6           | 5           | 34          | 55          | 114         | 49          | 1           | 2            | 0             | 0             | 0 267       |
| ESE         | 1           | 1           | 6           | 30          | 37          | 102         | 58          | 4           | 4            | 0             | 0             | 0 243       |
| SE          | 0           | 1           | 6           | 17          | 38          | 78          | 25          | 2           | 2            | 1             | 0             | 0 170       |
| SSE         | 0           | 0           | 7           | 19          | 26          | 91          | 62          | 2           | 0            | 0             | 0             | 0 207       |
| S           | 0           | 0           | 2           | 8           | 12          | 14          | 50          | 3           | 0            | 0             | 0             | 0 89        |
| SSW         | 0           | 0           | 0           | 9           | 17          | 37          | 25          | 15          | 1            | 0             | 0             | 0 104       |
| SW          | 0           | 0           | 1           | 2           | 6           | 29          | 8           | 0           | 0            | 0             | 0             | 0 46        |
| WSW         | 0           | 0           | 0           | 5           | 9           | 39          | 4           | 0           | 0            | 0             | 0             | 0 57        |
| W           | 0           | 0           | 0           | 4           | 5           | 31          | 8           | 0           | 0            | 0             | 0             | 0 48        |
| WNW         | 0           | 0           | 0           | 4           | 3           | 3           | 1           | 0           | 0            | 0             | 0             | 0 11        |
| NW          | 0           | 0           | 0           | 1           | 3           | 1           | 0           | 0           | 0            | 0             | 0             | 0 5         |
| NNW         | 0           | 0           | 0           | 1           | 1           | 3           | 3           | 1           | 0            | 0             | 0             | 0 9         |
| TOTAL       | 6           | 13          | 36          | 181         | 314         | 807         | 632         | 61          | 15           | 3             | 6             | 0 2074      |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 134  
NUMBER OF VALID HOURS: 2074  
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 7/ 1/92 00:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 0    |
| NNE         | 0           | 0           | 0           | 0           | 0           | 1           | 0           | 3           | 0            | 0             | 0             | 0   | 4    |
| NE          | 0           | 0           | 0           | 0           | 0           | 2           | 6           | 4           | 0            | 0             | 0             | 0   | 12   |
| ENE         | 0           | 0           | 0           | 0           | 0           | 3           | 10          | 1           | 0            | 0             | 3             | 0   | 17   |
| E           | 0           | 0           | 0           | 0           | 1           | 6           | 14          | 0           | 0            | 0             | 0             | 0   | 21   |
| ESE         | 0           | 0           | 1           | 1           | 1           | 4           | 11          | 0           | 0            | 0             | 0             | 0   | 18   |
| SE          | 0           | 0           | 0           | 1           | 1           | 2           | 4           | 1           | 0            | 0             | 0             | 0   | 9    |
| SSE         | 0           | 0           | 1           | 0           | 0           | 2           | 6           | 1           | 0            | 0             | 0             | 0   | 10   |
| S           | 0           | 0           | 0           | 0           | 0           | 1           | 2           | 2           | 0            | 0             | 0             | 0   | 5    |
| SSW         | 0           | 0           | 0           | 1           | 0           | 1           | 7           | 8           | 0            | 0             | 0             | 0   | 17   |
| SW          | 0           | 0           | 0           | 0           | 1           | 2           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| WSW         | 0           | 0           | 0           | 0           | 0           | 7           | 2           | 0           | 0            | 0             | 0             | 0   | 9    |
| W           | 0           | 0           | 0           | 2           | 0           | 15          | 8           | 0           | 0            | 0             | 0             | 0   | 25   |
| WNW         | 0           | 0           | 0           | 1           | 1           | 1           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| NW          | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 0    |
| NNW         | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 0    |
| TOTAL       | 0           | 0           | 2           | 6           | 5           | 47          | 70          | 20          | 0            | 0             | 3             | 0   | 153  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 153  
TOTAL HOURS FOR THE PERIOD: 153

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 7/ 1/92 01:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N        | 0           | 0           | 0           | 0           | 0           | 1           | 1           | 1           | 0            | 0             | 0             | 3           |
| NNE      | 0           | 0           | 0           | 0           | 1           | 14          | 21          | 2           | 0            | 0             | 0             | 38          |
| NE       | 0           | 0           | 0           | 0           | 2           | 6           | 7           | 1           | 0            | 0             | 1             | 17          |
| ENE      | 0           | 0           | 1           | 0           | 3           | 13          | 9           | 1           | 0            | 0             | 1             | 28          |
| E        | 0           | 0           | 1           | 1           | 2           | 21          | 13          | 0           | 0            | 0             | 0             | 38          |
| ESE      | 0           | 0           | 0           | 0           | 5           | 21          | 5           | 1           | 0            | 0             | 0             | 32          |
| SE       | 0           | 0           | 0           | 0           | 1           | 10          | 4           | 0           | 0            | 0             | 0             | 15          |
| SSE      | 0           | 0           | 0           | 0           | 1           | 8           | 6           | 0           | 0            | 0             | 0             | 15          |
| S        | 0           | 0           | 0           | 0           | 0           | 0           | 2           | 1           | 0            | 0             | 0             | 3           |
| SSW      | 0           | 0           | 0           | 1           | 0           | 3           | 1           | 0           | 0            | 0             | 0             | 5           |
| SW       | 0           | 0           | 0           | 0           | 0           | 3           | 2           | 0           | 0            | 0             | 0             | 5           |
| WSW      | 0           | 0           | 0           | 0           | 1           | 4           | 0           | 0           | 0            | 0             | 0             | 5           |
| W        | 0           | 0           | 0           | 0           | 0           | 5           | 0           | 0           | 0            | 0             | 0             | 5           |
| WNW      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0           |
| NW       | 0           | 0           | 0           | 0           | 0           | 1           | 0           | 0           | 0            | 0             | 0             | 1           |
| NNW      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0           |
| TOTAL    | 0           | 0           | 2           | 2           | 16          | 110         | 71          | 7           | 0            | 0             | 2             | 210         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 1  
NUMBER OF VALID HOURS: 210  
TOTAL HOURS FOR THE PERIOD: 211

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 1    |
| NNE   | 0    | 0    | 0    | 0    | 3    | 7    | 7    | 2    | 0    | 0     | 0     | 0   | 19   |
| NE    | 0    | 0    | 0    | 0    | 9    | 5    | 1    | 1    | 0    | 0     | 0     | 0   | 16   |
| ENE   | 0    | 0    | 0    | 1    | 6    | 6    | 6    | 0    | 0    | 0     | 1     | 0   | 20   |
| E     | 0    | 0    | 0    | 1    | 8    | 9    | 1    | 0    | 0    | 0     | 0     | 0   | 19   |
| ESE   | 0    | 0    | 0    | 4    | 4    | 0    | 4    | 0    | 0    | 0     | 0     | 0   | 12   |
| SE    | 0    | 0    | 1    | 2    | 2    | 6    | 2    | 1    | 0    | 0     | 0     | 0   | 14   |
| SSE   | 0    | 0    | 0    | 0    | 0    | 6    | 6    | 0    | 0    | 0     | 0     | 0   | 12   |
| S     | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| SSW   | 0    | 0    | 0    | 1    | 0    | 4    | 1    | 0    | 0    | 0     | 0     | 0   | 6    |
| SW    | 0    | 0    | 0    | 0    | 2    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| WSW   | 0    | 0    | 0    | 0    | 0    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| W     | 0    | 0    | 0    | 1    | 0    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| WNW   | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| NW    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| NNW   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| TOTAL | 0    | 0    | 1    | 10   | 35   | 54   | 30   | 4    | 0    | 0     | 1     | 0   | 135  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 1  
NUMBER OF VALID HOURS: 135  
TOTAL HOURS FOR THE PERIOD: 136

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 1    | 1    | 7    | 14   | 0    | 0    | 1     | 0     | 0   | 24   |
| NNE   | 0    | 0    | 1    | 5    | 15   | 30   | 36   | 2    | 0    | 0     | 0     | 0   | 89   |
| NE    | 0    | 0    | 1    | 10   | 15   | 24   | 15   | 1    | 0    | 0     | 0     | 0   | 66   |
| ENE   | 0    | 0    | 1    | 8    | 17   | 22   | 18   | 2    | 0    | 1     | 0     | 0   | 69   |
| E     | 0    | 3    | 2    | 15   | 12   | 17   | 13   | 1    | 2    | 0     | 0     | 0   | 65   |
| ESE   | 0    | 0    | 3    | 12   | 5    | 11   | 18   | 2    | 0    | 0     | 0     | 0   | 51   |
| SE    | 0    | 0    | 1    | 5    | 11   | 14   | 7    | 0    | 0    | 0     | 0     | 0   | 38   |
| SSE   | 0    | 0    | 1    | 5    | 6    | 14   | 10   | 1    | 0    | 0     | 0     | 0   | 37   |
| S     | 0    | 0    | 1    | 2    | 3    | 3    | 21   | 0    | 0    | 0     | 0     | 0   | 30   |
| SSW   | 0    | 0    | 0    | 3    | 2    | 4    | 7    | 5    | 1    | 0     | 0     | 0   | 22   |
| SW    | 0    | 0    | 0    | 1    | 0    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 8    |
| WSW   | 0    | 0    | 0    | 3    | 4    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 12   |
| W     | 0    | 0    | 0    | 0    | 3    | 7    | 0    | 0    | 0    | 0     | 0     | 0   | 10   |
| WNW   | 0    | 0    | 0    | 2    | 2    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 5    |
| NW    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| NNW   | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0     | 0     | 0   | 3    |
| TOTAL | 0    | 3    | 11   | 73   | 97   | 165  | 162  | 15   | 3    | 2     | 0     | 0   | 531  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 1  
NUMBER OF VALID HOURS: 531  
TOTAL HOURS FOR THE PERIOD: 532

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 1    | 0    | 8    | 25   | 1    | 0    | 0     | 0     | 0   | 35   |
| NNE   | 0    | 2    | 1    | 1    | 2    | 20   | 72   | 5    | 0    | 0     | 0     | 0   | 103  |
| NE    | 3    | 1    | 0    | 2    | 12   | 20   | 31   | 6    | 4    | 0     | 0     | 0   | 79   |
| ENE   | 1    | 2    | 1    | 6    | 8    | 44   | 23   | 0    | 2    | 0     | 0     | 0   | 87   |
| E     | 1    | 2    | 2    | 11   | 18   | 38   | 8    | 0    | 0    | 0     | 0     | 0   | 80   |
| ESE   | 1    | 1    | 0    | 5    | 12   | 47   | 16   | 1    | 4    | 0     | 0     | 0   | 87   |
| SE    | 0    | 1    | 1    | 2    | 13   | 34   | 7    | 0    | 2    | 1     | 0     | 0   | 61   |
| SSE   | 0    | 0    | 2    | 6    | 9    | 42   | 27   | 0    | 0    | 0     | 0     | 0   | 86   |
| S     | 0    | 0    | 0    | 1    | 4    | 4    | 23   | 0    | 0    | 0     | 0     | 0   | 32   |
| SSW   | 0    | 0    | 0    | 1    | 4    | 15   | 8    | 2    | 0    | 0     | 0     | 0   | 30   |
| SW    | 0    | 0    | 0    | 0    | 2    | 5    | 4    | 0    | 0    | 0     | 0     | 0   | 11   |
| WSW   | 0    | 0    | 0    | 1    | 1    | 8    | 2    | 0    | 0    | 0     | 0     | 0   | 12   |
| W     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| WNW   | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| NW    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| NNW   | 0    | 0    | 0    | 0    | 1    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 5    |
| TOTAL | 6    | 9    | 7    | 37   | 86   | 288  | 248  | 15   | 12   | 1     | 0     | 0   | 709  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 2  
NUMBER OF VALID HOURS: 709  
TOTAL HOURS FOR THE PERIOD: 711

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 1    | 0    | 2    | 6    | 0    | 0    | 0     | 0     | 0   | 9    |
| NNE   | 0    | 0    | 1    | 2    | 0    | 9    | 3    | 0    | 0    | 0     | 0     | 0   | 15   |
| NE    | 0    | 0    | 0    | 4    | 2    | 5    | 5    | 0    | 0    | 0     | 0     | 0   | 16   |
| ENE   | 0    | 0    | 1    | 4    | 2    | 8    | 9    | 0    | 0    | 0     | 0     | 0   | 24   |
| E     | 0    | 0    | 0    | 3    | 6    | 11   | 0    | 0    | 0    | 0     | 0     | 0   | 20   |
| ESE   | 0    | 0    | 1    | 7    | 8    | 13   | 3    | 0    | 0    | 0     | 0     | 0   | 32   |
| SE    | 0    | 0    | 2    | 6    | 7    | 11   | 1    | 0    | 0    | 0     | 0     | 0   | 27   |
| SSE   | 0    | 0    | 0    | 6    | 8    | 15   | 5    | 0    | 0    | 0     | 0     | 0   | 34   |
| S     | 0    | 0    | 1    | 2    | 1    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 8    |
| SSW   | 0    | 0    | 0    | 1    | 9    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 17   |
| SW    | 0    | 0    | 1    | 1    | 0    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 9    |
| WSW   | 0    | 0    | 0    | 0    | 3    | 8    | 0    | 0    | 0    | 0     | 0     | 0   | 11   |
| W     | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| WNW   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| NW    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| NNW   | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| TOTAL | 0    | 0    | 7    | 38   | 49   | 98   | 35   | 0    | 0    | 0     | 0     | 0   | 227  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 227  
TOTAL HOURS FOR THE PERIOD: 227



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS G

FROM 7/ 1/92 0:00 TO 9/30/92 23:00

PRIMARY SENSORS - 150 FOOT

| WIND SPEED (METERS/SECOND) |      |      |      |      |      |      |      |      |      |       |       |     |      |
|----------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| WIND                       | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
| DIR                        | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N                          | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| NNE                        | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0     | 0     | 0   | 2    |
| NE                         | 0    | 0    | 0    | 1    | 1    | 2    | 7    | 0    | 0    | 0     | 0     | 0   | 11   |
| ENE                        | 0    | 0    | 0    | 0    | 3    | 6    | 4    | 0    | 0    | 0     | 0     | 0   | 13   |
| E                          | 0    | 1    | 0    | 3    | 8    | 12   | 0    | 0    | 0    | 0     | 0     | 0   | 24   |
| ESE                        | 0    | 0    | 1    | 1    | 2    | 6    | 1    | 0    | 0    | 0     | 0     | 0   | 11   |
| SE                         | 0    | 0    | 1    | 1    | 3    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| SSE                        | 0    | 0    | 3    | 2    | 2    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 13   |
| S                          | 0    | 0    | 0    | 3    | 3    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| SSW                        | 0    | 0    | 0    | 1    | 2    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| SW                         | 0    | 0    | 0    | 0    | 1    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| WSW                        | 0    | 0    | 0    | 1    | 0    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| W                          | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| WNW                        | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| NW                         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| NNW                        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| TOTAL                      | 0    | 1    | 6    | 15   | 26   | 45   | 16   | 0    | 0    | 0     | 0     | 0   | 109  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 109  
TOTAL HOURS FOR THE PERIOD: 109

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 10/ 1/92 0100 TO 12/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 13          | 3           | 17          | 35          | 40          | 55          | 34          | 0           | 0            | 0             | 0             | 197         |
| NNE         | 6           | 11          | 8           | 64          | 45          | 68          | 16          | 0           | 0            | 0             | 0             | 218         |
| NE          | 7           | 14          | 18          | 29          | 33          | 56          | 13          | 0           | 0            | 0             | 0             | 170         |
| ENE         | 11          | 15          | 11          | 51          | 26          | 31          | 4           | 0           | 0            | 0             | 0             | 149         |
| E           | 10          | 18          | 21          | 51          | 34          | 12          | 0           | 0           | 0            | 0             | 0             | 146         |
| ESE         | 5           | 12          | 27          | 32          | 41          | 52          | 3           | 0           | 0            | 0             | 0             | 172         |
| SE          | 2           | 9           | 24          | 75          | 76          | 96          | 32          | 1           | 0            | 0             | 0             | 315         |
| SSE         | 0           | 2           | 6           | 29          | 23          | 56          | 22          | 2           | 1            | 0             | 0             | 141         |
| S           | 0           | 0           | 5           | 12          | 25          | 39          | 17          | 0           | 0            | 0             | 0             | 98          |
| SSW         | 0           | 3           | 3           | 13          | 15          | 15          | 4           | 0           | 0            | 0             | 0             | 53          |
| SW          | 0           | 4           | 8           | 10          | 5           | 7           | 1           | 0           | 0            | 0             | 0             | 35          |
| WSW         | 4           | 5           | 6           | 11          | 10          | 3           | 2           | 0           | 0            | 0             | 0             | 41          |
| W           | 6           | 7           | 9           | 18          | 17          | 18          | 5           | 0           | 0            | 0             | 0             | 80          |
| WNW         | 10          | 19          | 19          | 14          | 9           | 14          | 6           | 0           | 0            | 0             | 0             | 91          |
| NW          | 8           | 12          | 18          | 28          | 24          | 24          | 9           | 0           | 0            | 0             | 0             | 123         |
| NNW         | 15          | 8           | 11          | 22          | 16          | 47          | 26          | 0           | 0            | 0             | 0             | 145         |
| TOTAL       | 97          | 142         | 211         | 494         | 439         | 593         | 194         | 3           | 1            | 0             | 0             | 2174        |

NUMBER OF CALMS: 3  
NUMBER OF INVALID HOURS: 31  
NUMBER OF VALID HOURS: 2177  
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 10/ 1/92 0100 TO 12/31/92 2300

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N           | 0           | 0           | 0           | 0           | 0           | 2           | 4           | 0           | 0            | 0             | 0             | 0   | 6    |
| NNE         | 0           | 0           | 0           | 0           | 0           | 7           | 5           | 0           | 0            | 0             | 0             | 0   | 12   |
| NE          | 0           | 0           | 0           | 0           | 1           | 9           | 5           | 0           | 0            | 0             | 0             | 0   | 15   |
| ENE         | 0           | 0           | 0           | 0           | 0           | 11          | 2           | 0           | 0            | 0             | 0             | 0   | 13   |
| E           | 0           | 0           | 0           | 0           | 3           | 2           | 0           | 0           | 0            | 0             | 0             | 0   | 5    |
| ESE         | 0           | 0           | 0           | 0           | 2           | 18          | 2           | 0           | 0            | 0             | 0             | 0   | 22   |
| SE          | 0           | 0           | 0           | 0           | 6           | 17          | 8           | 0           | 0            | 0             | 0             | 0   | 31   |
| SSE         | 0           | 0           | 0           | 0           | 0           | 3           | 5           | 0           | 0            | 0             | 0             | 0   | 8    |
| S           | 0           | 0           | 0           | 0           | 0           | 3           | 1           | 0           | 0            | 0             | 0             | 0   | 4    |
| SSW         | 0           | 0           | 0           | 0           | 1           | 2           | 0           | 0           | 0            | 0             | 0             | 0   | 3    |
| SW          | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 0    |
| WSW         | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 0   | 0    |
| W           | 0           | 0           | 0           | 0           | 0           | 1           | 0           | 0           | 0            | 0             | 0             | 0   | 1    |
| WNW         | 0           | 0           | 0           | 0           | 0           | 0           | 2           | 0           | 0            | 0             | 0             | 0   | 2    |
| NW          | 0           | 0           | 0           | 0           | 0           | 0           | 1           | 0           | 0            | 0             | 0             | 0   | 1    |
| NNW         | 0           | 0           | 0           | 0           | 0           | 1           | 2           | 0           | 0            | 0             | 0             | 0   | 3    |
| TOTAL       | 0           | 0           | 0           | 0           | 13          | 76          | 37          | 0           | 0            | 0             | 0             | 0   | 126  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 126  
TOTAL HOURS FOR THE PERIOD: 126

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 2    | 4    | 11   | 0    | 0    | 0     | 0     | 0   | 17   |
| NNE   | 0    | 0    | 0    | 0    | 1    | 10   | 2    | 0    | 0    | 0     | 0     | 0   | 13   |
| NE    | 0    | 0    | 1    | 0    | 3    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 10   |
| ENE   | 0    | 0    | 0    | 0    | 2    | 7    | 0    | 0    | 0    | 0     | 0     | 0   | 9    |
| E     | 0    | 0    | 0    | 0    | 2    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| ESE   | 0    | 0    | 0    | 0    | 5    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 7    |
| SE    | 0    | 0    | 0    | 1    | 4    | 5    | 2    | 0    | 0    | 0     | 0     | 0   | 12   |
| SSE   | 0    | 0    | 0    | 1    | 1    | 4    | 3    | 0    | 0    | 0     | 0     | 0   | 9    |
| S     | 0    | 0    | 0    | 0    | 1    | 3    | 5    | 0    | 0    | 0     | 0     | 0   | 9    |
| SSW   | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0     | 0     | 0   | 1    |
| SW    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| WSW   | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| W     | 0    | 0    | 0    | 0    | 1    | 6    | 3    | 0    | 0    | 0     | 0     | 0   | 10   |
| WNW   | 0    | 0    | 0    | 0    | 1    | 4    | 2    | 0    | 0    | 0     | 0     | 0   | 7    |
| NW    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| NNW   | 0    | 0    | 0    | 0    | 0    | 3    | 4    | 0    | 0    | 0     | 0     | 0   | 7    |
| TOTAL | 0    | 0    | 1    | 2    | 25   | 58   | 36   | 0    | 0    | 0     | 0     | 0   | 122  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 122  
TOTAL HOURS FOR THE PERIOD: 122

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 1    | 1    | 7    | 3    | 0    | 0    | 0     | 0     | 0   | 12   |
| NNE   | 0    | 0    | 0    | 0    | 0    | 4    | 1    | 0    | 0    | 0     | 0     | 0   | 5    |
| NE    | 0    | 0    | 0    | 0    | 2    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| ENE   | 0    | 0    | 0    | 1    | 3    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| E     | 0    | 0    | 0    | 1    | 2    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 3    |
| ESE   | 0    | 0    | 0    | 1    | 3    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| SE    | 0    | 0    | 0    | 1    | 1    | 3    | 0    | 0    | 0    | 0     | 0     | 0   | 5    |
| SSE   | 0    | 0    | 0    | 1    | 3    | 3    | 1    | 0    | 0    | 0     | 0     | 0   | 8    |
| S     | 0    | 0    | 0    | 0    | 2    | 2    | 2    | 0    | 0    | 0     | 0     | 0   | 6    |
| SSW   | 0    | 0    | 0    | 0    | 3    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 4    |
| SW    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| WSW   | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| W     | 0    | 0    | 0    | 0    | 3    | 5    | 0    | 0    | 0    | 0     | 0     | 0   | 8    |
| WNW   | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| NW    | 0    | 0    | 0    | 0    | 1    | 4    | 3    | 0    | 0    | 0     | 0     | 0   | 8    |
| NNW   | 0    | 0    | 0    | 0    | 1    | 5    | 4    | 0    | 0    | 0     | 0     | 0   | 10   |
| TOTAL | 0    | 0    | 0    | 6    | 26   | 43   | 15   | 0    | 0    | 0     | 0     | 0   | 90   |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 90  
TOTAL HOURS FOR THE PERIOD: 90

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 10/ 1/92 01:00 TO 12/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N        | 0           | 0           | 4           | 15          | 22          | 39          | 16          | 0           | 0            | 0             | 0             | 96          |
| NNE      | 0           | 0           | 0           | 12          | 22          | 38          | 7           | 0           | 0            | 0             | 0             | 79          |
| NE       | 0           | 0           | 3           | 13          | 7           | 27          | 5           | 0           | 0            | 0             | 0             | 55          |
| ENE      | 0           | 0           | 2           | 15          | 16          | 10          | 1           | 0           | 0            | 0             | 0             | 44          |
| E        | 0           | 0           | 2           | 19          | 18          | 1           | 0           | 0           | 0            | 0             | 0             | 40          |
| ESE      | 0           | 0           | 1           | 10          | 23          | 19          | 1           | 0           | 0            | 0             | 0             | 54          |
| SE       | 0           | 0           | 1           | 20          | 36          | 40          | 13          | 1           | 0            | 0             | 0             | 111         |
| SSE      | 0           | 0           | 2           | 6           | 9           | 24          | 12          | 2           | 1            | 0             | 0             | 56          |
| S        | 0           | 0           | 3           | 4           | 13          | 19          | 8           | 0           | 0            | 0             | 0             | 47          |
| SSW      | 0           | 0           | 1           | 3           | 4           | 10          | 3           | 0           | 0            | 0             | 0             | 21          |
| SW       | 0           | 0           | 1           | 5           | 4           | 4           | 1           | 0           | 0            | 0             | 0             | 15          |
| WSW      | 0           | 0           | 1           | 7           | 8           | 1           | 1           | 0           | 0            | 0             | 0             | 18          |
| W        | 0           | 0           | 2           | 10          | 11          | 6           | 2           | 0           | 0            | 0             | 0             | 31          |
| WNW      | 0           | 0           | 2           | 4           | 3           | 7           | 1           | 0           | 0            | 0             | 0             | 17          |
| NW       | 0           | 0           | 1           | 9           | 13          | 17          | 4           | 0           | 0            | 0             | 0             | 44          |
| NNW      | 0           | 1           | 4           | 10          | 8           | 34          | 14          | 0           | 0            | 0             | 0             | 71          |
| TOTAL    | 0           | 1           | 30          | 162         | 217         | 296         | 89          | 3           | 1            | 0             | 0             | 799         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 799  
TOTAL HOURS FOR THE PERIOD: 799

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 0           | 0           | 7           | 12          | 3           | 0           | 0           | 0            | 0             | 0             | 22          |
| NNE         | 0           | 1           | 2           | 21          | 20          | 9           | 1           | 0           | 0            | 0             | 0             | 54          |
| NE          | 0           | 0           | 4           | 10          | 15          | 14          | 1           | 0           | 0            | 0             | 0             | 44          |
| ENE         | 0           | 0           | 1           | 19          | 3           | 2           | 1           | 0           | 0            | 0             | 0             | 26          |
| E           | 1           | 3           | 6           | 26          | 9           | 7           | 0           | 0           | 0            | 0             | 0             | 52          |
| ESE         | 0           | 4           | 15          | 18          | 6           | 8           | 0           | 0           | 0            | 0             | 0             | 51          |
| SE          | 0           | 3           | 12          | 38          | 21          | 30          | 9           | 0           | 0            | 0             | 0             | 113         |
| SSE         | 0           | 0           | 1           | 12          | 9           | 20          | 1           | 0           | 0            | 0             | 0             | 43          |
| S           | 0           | 0           | 2           | 7           | 7           | 12          | 1           | 0           | 0            | 0             | 0             | 29          |
| SSW         | 0           | 1           | 0           | 10          | 7           | 2           | 0           | 0           | 0            | 0             | 0             | 20          |
| SW          | 0           | 1           | 3           | 4           | 0           | 1           | 0           | 0           | 0            | 0             | 0             | 9           |
| WSW         | 0           | 0           | 1           | 4           | 1           | 0           | 0           | 0           | 0            | 0             | 0             | 6           |
| W           | 0           | 0           | 4           | 6           | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 12          |
| WNW         | 0           | 3           | 2           | 7           | 2           | 2           | 0           | 0           | 0            | 0             | 0             | 16          |
| NW          | 1           | 3           | 2           | 9           | 9           | 1           | 1           | 0           | 0            | 0             | 0             | 26          |
| NNW         | 1           | 0           | 1           | 7           | 5           | 4           | 2           | 0           | 0            | 0             | 0             | 20          |
| TOTAL       | 3           | 19          | 56          | 205         | 128         | 115         | 17          | 0           | 0            | 0             | 0             | 543         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 543  
TOTAL HOURS FOR THE PERIOD: 543

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 10/ 1/92 01:00 TO 12/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 1           | 1           | 5           | 8           | 3           | 0           | 0           | 0           | 0            | 0             | 0             | 18          |
| NNE         | 0           | 0           | 1           | 25          | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 28          |
| NE          | 0           | 1           | 7           | 5           | 5           | 0           | 0           | 0           | 0            | 0             | 0             | 18          |
| ENE         | 0           | 1           | 6           | 9           | 2           | 1           | 0           | 0           | 0            | 0             | 0             | 19          |
| E           | 2           | 4           | 9           | 5           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 20          |
| ESE         | 1           | 4           | 10          | 3           | 2           | 1           | 0           | 0           | 0            | 0             | 0             | 21          |
| SE          | 1           | 3           | 11          | 14          | 8           | 1           | 0           | 0           | 0            | 0             | 0             | 38          |
| SSE         | 0           | 1           | 3           | 9           | 1           | 2           | 0           | 0           | 0            | 0             | 0             | 16          |
| S           | 0           | 0           | 0           | 1           | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 3           |
| SSW         | 0           | 2           | 2           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 4           |
| SW          | 0           | 2           | 4           | 1           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 7           |
| WSW         | 1           | 4           | 2           | 0           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 7           |
| W           | 0           | 3           | 2           | 2           | 0           | 0           | 0           | 0           | 0            | 0             | 0             | 7           |
| WNW         | 0           | 4           | 6           | 2           | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 14          |
| NW          | 0           | 1           | 5           | 8           | 1           | 0           | 0           | 0           | 0            | 0             | 0             | 15          |
| NNW         | 2           | 3           | 4           | 2           | 2           | 0           | 0           | 0           | 0            | 0             | 0             | 13          |
| TOTAL       | 8           | 34          | 77          | 94          | 30          | 5           | 0           | 0           | 0            | 0             | 0             | 248         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 248  
TOTAL HOURS FOR THE PERIOD: 248



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 12   | 2    | 8    | 4    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 26   |
| NNE   | 6    | 10   | 5    | 6    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 27   |
| NE    | 7    | 13   | 3    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 24   |
| ENE   | 11   | 14   | 2    | 7    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 34   |
| E     | 7    | 11   | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 22   |
| ESE   | 4    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 9    |
| SE    | 1    | 3    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 5    |
| SSE   | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| S     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| SSW   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| SW    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| WSW   | 3    | 1    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 6    |
| W     | 6    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 11   |
| WNW   | 10   | 12   | 9    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 32   |
| NW    | 7    | 8    | 10   | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 27   |
| NNW   | 12   | 4    | 2    | 3    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 21   |
| TOTAL | 86   | 88   | 47   | 25   | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 246  |

NUMBER OF CALMS: 3  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 249  
TOTAL HOURS FOR THE PERIOD: 249

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
ALL STABILITY CLASSES

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 1    | 2    | 0    | 9    | 17   | 40   | 99   | 15   | 0    | 0     | 0     | 0   | 183  |
| NNE   | 0    | 0    | 1    | 6    | 5    | 57   | 95   | 6    | 0    | 0     | 0     | 0   | 170  |
| NE    | 0    | 0    | 0    | 2    | 18   | 40   | 146  | 19   | 0    | 0     | 0     | 0   | 225  |
| ENE   | 0    | 0    | 1    | 5    | 14   | 46   | 96   | 34   | 0    | 0     | 0     | 0   | 196  |
| E     | 0    | 0    | 1    | 2    | 13   | 29   | 58   | 12   | 0    | 0     | 0     | 0   | 115  |
| ESE   | 0    | 0    | 2    | 4    | 6    | 39   | 182  | 91   | 17   | 0     | 0     | 0   | 341  |
| SE    | 0    | 0    | 0    | 4    | 3    | 42   | 124  | 20   | 8    | 0     | 0     | 0   | 201  |
| SSE   | 0    | 0    | 0    | 5    | 9    | 20   | 59   | 5    | 3    | 0     | 0     | 0   | 101  |
| S     | 0    | 0    | 1    | 3    | 6    | 35   | 43   | 6    | 1    | 0     | 0     | 0   | 95   |
| SSW   | 0    | 0    | 1    | 4    | 8    | 23   | 21   | 0    | 0    | 0     | 0     | 0   | 57   |
| SW    | 0    | 0    | 0    | 3    | 6    | 16   | 9    | 1    | 0    | 0     | 0     | 0   | 35   |
| WSW   | 0    | 0    | 1    | 6    | 7    | 39   | 9    | 2    | 0    | 0     | 0     | 0   | 64   |
| W     | 0    | 0    | 0    | 3    | 8    | 57   | 26   | 2    | 1    | 0     | 0     | 0   | 97   |
| WNW   | 0    | 0    | 1    | 3    | 2    | 23   | 26   | 5    | 0    | 0     | 0     | 0   | 60   |
| NW    | 0    | 0    | 1    | 8    | 11   | 27   | 53   | 8    | 0    | 0     | 0     | 0   | 108  |
| NNW   | 1    | 2    | 2    | 6    | 10   | 26   | 75   | 7    | 0    | 0     | 0     | 0   | 129  |
| TOTAL | 2    | 4    | 12   | 73   | 143  | 559  | 1121 | 233  | 30   | 0     | 0     | 0   | 2177 |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 31  
NUMBER OF VALID HOURS: 2177  
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS A

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 0    | 1    | 3    | 2    | 0    | 0     | 0     | 0   | 6    |
| NNE   | 0    | 0    | 0    | 0    | 0    | 0    | 9    | 0    | 0    | 0     | 0     | 0   | 9    |
| NE    | 0    | 0    | 0    | 0    | 0    | 3    | 9    | 3    | 0    | 0     | 0     | 0   | 15   |
| ENE   | 0    | 0    | 0    | 0    | 0    | 0    | 9    | 8    | 0    | 0     | 0     | 0   | 17   |
| E     | 0    | 0    | 0    | 0    | 0    | 1    | 6    | 0    | 0    | 0     | 0     | 0   | 7    |
| ESE   | 0    | 0    | 0    | 0    | 1    | 2    | 21   | 11   | 4    | 0     | 0     | 0   | 39   |
| SE    | 0    | 0    | 0    | 0    | 0    | 3    | 8    | 4    | 0    | 0     | 0     | 0   | 15   |
| SSE   | 0    | 0    | 0    | 0    | 0    | 0    | 5    | 2    | 0    | 0     | 0     | 0   | 7    |
| S     | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0     | 0     | 0   | 2    |
| SSW   | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| SW    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| WSW   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 0    |
| W     | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| WNW   | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0     | 0     | 0   | 2    |
| NW    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0     | 0     | 0   | 1    |
| NNW   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0     | 0     | 0   | 2    |
| TOTAL | 0    | 0    | 0    | 0    | 2    | 13   | 73   | 34   | 4    | 0     | 0     | 0   | 126  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 126  
TOTAL HOURS FOR THE PERIOD: 126

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS B

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| N           | 0           | 0           | 0           | 0           | 0           | 3           | 8           | 4           | 0            | 0             | 0             | 0   | 15   |
| NNE         | 0           | 0           | 0           | 0           | 1           | 4           | 5           | 0           | 0            | 0             | 0             | 0   | 10   |
| NE          | 0           | 0           | 0           | 0           | 0           | 6           | 4           | 1           | 0            | 0             | 0             | 0   | 11   |
| ENE         | 0           | 0           | 0           | 1           | 0           | 2           | 7           | 2           | 0            | 0             | 0             | 0   | 12   |
| E           | 0           | 0           | 0           | 0           | 1           | 0           | 5           | 0           | 0            | 0             | 0             | 0   | 6    |
| ESE         | 0           | 0           | 0           | 0           | 0           | 7           | 3           | 2           | 0            | 0             | 0             | 0   | 12   |
| SE          | 0           | 0           | 0           | 0           | 0           | 3           | 2           | 2           | 0            | 0             | 0             | 0   | 7    |
| SSE         | 0           | 0           | 0           | 1           | 0           | 0           | 5           | 1           | 0            | 0             | 0             | 0   | 7    |
| S           | 0           | 0           | 0           | 0           | 1           | 2           | 3           | 2           | 0            | 0             | 0             | 0   | 8    |
| SSW         | 0           | 0           | 0           | 0           | 0           | 1           | 1           | 0           | 0            | 0             | 0             | 0   | 2    |
| SW          | 0           | 0           | 0           | 0           | 0           | 1           | 0           | 0           | 0            | 0             | 0             | 0   | 1    |
| WSW         | 0           | 0           | 0           | 0           | 0           | 3           | 2           | 0           | 0            | 0             | 0             | 0   | 5    |
| W           | 0           | 0           | 0           | 0           | 1           | 5           | 5           | 1           | 0            | 0             | 0             | 0   | 12   |
| WNW         | 0           | 0           | 0           | 0           | 0           | 1           | 2           | 1           | 0            | 0             | 0             | 0   | 4    |
| NW          | 0           | 0           | 0           | 0           | 0           | 2           | 1           | 0           | 0            | 0             | 0             | 0   | 3    |
| NNW         | 0           | 0           | 0           | 0           | 0           | 1           | 4           | 2           | 0            | 0             | 0             | 0   | 7    |
| TOTAL       | 0           | 0           | 0           | 2           | 4           | 41          | 57          | 18          | 0            | 0             | 0             | 0   | 122  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 122  
TOTAL HOURS FOR THE PERIOD: 122

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS C

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 0    | 0    | 0    | 0    | 1    | 2    | 9    | 0    | 0    | 0     | 0     | 0   | 12   |
| NNE   | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 0    | 0    | 0     | 0     | 0   | 3    |
| NE    | 0    | 0    | 0    | 0    | 0    | 3    | 3    | 0    | 0    | 0     | 0     | 0   | 6    |
| ENE   | 0    | 0    | 0    | 0    | 1    | 1    | 2    | 0    | 0    | 0     | 0     | 0   | 4    |
| E     | 0    | 0    | 0    | 0    | 1    | 4    | 0    | 0    | 0    | 0     | 0     | 0   | 5    |
| ESE   | 0    | 0    | 0    | 0    | 0    | 1    | 4    | 2    | 0    | 0     | 0     | 0   | 7    |
| SE    | 0    | 0    | 0    | 0    | 1    | 6    | 2    | 1    | 0    | 0     | 0     | 0   | 10   |
| SSE   | 0    | 0    | 0    | 0    | 0    | 2    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| S     | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 1    | 0    | 0     | 0     | 0   | 5    |
| SSW   | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0    | 0     | 0     | 0   | 3    |
| SW    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0   | 1    |
| WSW   | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0     | 0     | 0   | 2    |
| W     | 0    | 0    | 0    | 0    | 0    | 5    | 2    | 0    | 0    | 0     | 0     | 0   | 7    |
| WNW   | 0    | 0    | 0    | 0    | 0    | 3    | 2    | 2    | 0    | 0     | 0     | 0   | 7    |
| NW    | 0    | 0    | 0    | 0    | 0    | 1    | 4    | 0    | 0    | 0     | 0     | 0   | 5    |
| NNW   | 0    | 0    | 0    | 0    | 0    | ?    | 7    | 1    | 0    | 0     | 0     | 0   | 10   |
| TOTAL | 0    | 0    | 0    | 0    | 6    | 36   | 41   | 7    | 0    | 0     | 0     | 0   | 90   |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 90  
TOTAL HOURS FOR THE PERIOD: 90

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS D

FROM 10/ 1/92 01:00 TO 12/31/92 23:00

PRIMARY SENSORS - 150 FOOT

| WIND SPEED (METERS/SECOND) |             |             |             |             |             |             |             |             |              |               |               |     |      |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-----|------|
| WIND<br>DIR                | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18 | TOT. |
| N                          | 0           | 0           | 0           | 6           | 13          | 16          | 39          | 9           | 0            | 0             | 0             | 0   | 83   |
| NNE                        | 0           | 0           | 0           | 2           | 2           | 23          | 39          | 5           | 0            | 0             | 0             | 0   | 71   |
| NE                         | 0           | 0           | 0           | 0           | 13          | 11          | 40          | 7           | 0            | 0             | 0             | 0   | 71   |
| ENE                        | 0           | 0           | 0           | 2           | 8           | 21          | 28          | 4           | 0            | 0             | 0             | 0   | 63   |
| E                          | 0           | 0           | 1           | 2           | 6           | 8           | 11          | 2           | 0            | 0             | 0             | 0   | 30   |
| ESE                        | 0           | 0           | 2           | 0           | 4           | 16          | 55          | 30          | 6            | 0             | 0             | 0   | 113  |
| SE                         | 0           | 0           | 0           | 3           | 0           | 21          | 32          | 8           | 5            | 0             | 0             | 0   | 69   |
| SSE                        | 0           | 0           | 0           | 4           | 4           | 5           | 26          | 1           | 3            | 0             | 0             | 0   | 43   |
| S                          | 0           | 0           | 1           | 2           | 1           | 18          | 15          | 2           | 1            | 0             | 0             | 0   | 40   |
| SSW                        | 0           | 0           | 0           | 2           | 3           | 6           | 11          | 0           | 0            | 0             | 0             | 0   | 22   |
| SW                         | 0           | 0           | 0           | 0           | 4           | 6           | 1           | 1           | 0            | 0             | 0             | 0   | 12   |
| WSW                        | 0           | 0           | 0           | 4           | 4           | 10          | 1           | 2           | 0            | 0             | 0             | 0   | 21   |
| W                          | 0           | 0           | 0           | 1           | 4           | 17          | 9           | 1           | 1            | 0             | 0             | 0   | 33   |
| WNW                        | 0           | 0           | 1           | 2           | 1           | 9           | 6           | 1           | 0            | 0             | 0             | 0   | 20   |
| NW                         | 0           | 0           | 0           | 1           | 7           | 9           | 22          | 5           | 0            | 0             | 0             | 0   | 44   |
| NNW                        | 0           | 1           | 0           | 2           | 10          | 15          | 34          | 2           | 0            | 0             | 0             | 0   | 64   |
| TOTAL                      | 0           | 1           | 5           | 33          | 84          | 211         | 369         | 80          | 16           | 0             | 0             | 0   | 799  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 799  
TOTAL HOURS FOR THE PERIOD: 799

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS E

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND  | .22- | .51- | .76- | 1.1- | 1.6- | 2.1- | 3.1- | 5.1- | 7.1- | 10.1- | 13.1- | >18 | TOT. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|------|
| DIR   | .50  | .75  | 1.0  | 1.5  | 2.0  | 3.0  | 5.0  | 7.0  | 10.0 | 13.0  | 18.0  |     |      |
| N     | 1    | 0    | 0    | 0    | 1    | 5    | 23   | 0    | 0    | 0     | 0     | 0   | 30   |
| NNE   | 0    | 0    | 0    | 1    | 1    | 10   | 17   | 1    | 0    | 0     | 0     | 0   | 30   |
| NE    | 0    | 0    | 0    | 1    | 0    | 9    | 42   | 7    | 0    | 0     | 0     | 0   | 59   |
| ENE   | 0    | 0    | 0    | 0    | 0    | 6    | 19   | 15   | 0    | 0     | 0     | 0   | 40   |
| E     | 0    | 0    | 0    | 0    | 1    | 8    | 26   | 10   | 0    | 0     | 0     | 0   | 45   |
| ESE   | 0    | 0    | 0    | 1    | 1    | 7    | 57   | 37   | 7    | 0     | 0     | 0   | 110  |
| SE    | 0    | 0    | 0    | 1    | 2    | 9    | 47   | 5    | 3    | 0     | 0     | 0   | 67   |
| SSE   | 0    | 0    | 0    | 0    | 4    | 9    | 17   | 1    | 0    | 0     | 0     | 0   | 31   |
| S     | 0    | 0    | 0    | 1    | 4    | 9    | 16   | 1    | 0    | 0     | 0     | 0   | 31   |
| SSW   | 0    | 0    | 0    | 1    | 0    | 11   | 8    | 0    | 0    | 0     | 0     | 0   | 20   |
| SW    | 0    | 0    | 0    | 0    | 0    | 5    | 6    | 0    | 0    | 0     | 0     | 0   | 11   |
| WSW   | 0    | 0    | 1    | 1    | 1    | 3    | 2    | 0    | 0    | 0     | 0     | 0   | 8    |
| W     | 0    | 0    | 0    | 0    | 2    | 8    | 4    | 0    | 0    | 0     | 0     | 0   | 14   |
| WNW   | 0    | 0    | 0    | 1    | 0    | 3    | 8    | 0    | 0    | 0     | 0     | 0   | 12   |
| NW    | 0    | 0    | 0    | 3    | 0    | 7    | 10   | 2    | 0    | 0     | 0     | 0   | 22   |
| NNW   | 0    | 0    | 0    | 2    | 0    | 2    | 9    | 0    | 0    | 0     | 0     | 0   | 13   |
| TOTAL | 1    | 0    | 1    | 13   | 17   | 111  | 311  | 79   | 10   | 0     | 0     | 0   | 543  |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 543  
TOTAL HOURS FOR THE PERIOD: 543

RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS F

FROM 10/ 1/92 0:00 TO 12/31/92 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 1           | 0           | 0           | 0           | 6           | 10          | 0           | 0            | 0             | 0             | 17          |
| NNE         | 0           | 0           | 0           | 1           | 0           | 5           | 13          | 0           | 0            | 0             | 0             | 19          |
| NE          | 0           | 0           | 0           | 0           | 0           | 3           | 20          | 1           | 0            | 0             | 0             | 24          |
| ENE         | 0           | 0           | 0           | 0           | 1           | 4           | 19          | 5           | 0            | 0             | 0             | 29          |
| E           | 0           | 0           | 0           | 0           | 0           | 7           | 8           | 0           | 0            | 0             | 0             | 15          |
| ESE         | 0           | 0           | 0           | 1           | 0           | 5           | 38          | 9           | 0            | 0             | 0             | 53          |
| SE          | 0           | 0           | 0           | 0           | 0           | 0           | 26          | 0           | 0            | 0             | 0             | 26          |
| SSE         | 0           | 0           | 0           | 0           | 1           | 1           | 2           | 0           | 0            | 0             | 0             | 4           |
| S           | 0           | 0           | 0           | 0           | 0           | 0           | 5           | 0           | 0            | 0             | 0             | 5           |
| SSW         | 0           | 0           | 1           | 1           | 1           | 1           | 0           | 0           | 0            | 0             | 0             | 4           |
| SW          | 0           | 0           | 0           | 1           | 0           | 2           | 1           | 0           | 0            | 0             | 0             | 4           |
| WSW         | 0           | 0           | 0           | 0           | 0           | 5           | 2           | 0           | 0            | 0             | 0             | 7           |
| W           | 0           | 0           | 0           | 1           | 0           | 8           | 3           | 0           | 0            | 0             | 0             | 12          |
| WNW         | 0           | 0           | 0           | 0           | 1           | 1           | 3           | 0           | 0            | 0             | 0             | 5           |
| NW          | 0           | 0           | 0           | 0           | 0           | 6           | 6           | 0           | 0            | 0             | 0             | 12          |
| NNW         | 1           | 0           | 1           | 1           | 0           | 3           | 6           | 0           | 0            | 0             | 0             | 12          |
| TOTAL       | 1           | 1           | 2           | 6           | 4           | 57          | 162         | 15          | 0            | 0             | 0             | 248         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 248  
TOTAL HOURS FOR THE PERIOD: 248



RIVER BEND STATION  
JOINT FREQUENCY TABLE  
STABILITY CLASS G

FROM 10/ 1/92 0100 TO 12/31/92 2300

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

| WIND<br>DIR | .22-<br>.50 | .51-<br>.75 | .76-<br>1.0 | 1.1-<br>1.5 | 1.6-<br>2.0 | 2.1-<br>3.0 | 3.1-<br>5.0 | 5.1-<br>7.0 | 7.1-<br>10.0 | 10.1-<br>13.0 | 13.1-<br>18.0 | >18<br>TOT. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|-------------|
| N           | 0           | 1           | 0           | 3           | 2           | 7           | 7           | 0           | 0            | 0             | 0             | 20          |
| NNE         | 0           | 0           | 1           | 2           | 1           | 14          | 10          | 0           | 0            | 0             | 0             | 28          |
| NE          | 0           | 0           | 0           | 1           | 5           | 5           | 28          | 0           | 0            | 0             | 0             | 39          |
| ENE         | 0           | 0           | 1           | 2           | 4           | 12          | 12          | 0           | 0            | 0             | 0             | 31          |
| E           | 0           | 0           | 0           | 0           | 4           | 1           | 2           | 0           | 0            | 0             | 0             | 7           |
| ESE         | 0           | 0           | 0           | 2           | 0           | 1           | 4           | 0           | 0            | 0             | 0             | 7           |
| SE          | 0           | 0           | 0           | 0           | 0           | 0           | 7           | 0           | 0            | 0             | 0             | 7           |
| SSE         | 0           | 0           | 0           | 0           | 0           | 3           | 3           | 0           | 0            | 0             | 0             | 6           |
| S           | 0           | 0           | 0           | 0           | 0           | 4           | 0           | 0           | 0            | 0             | 0             | 4           |
| SSW         | 0           | 0           | 0           | 0           | 3           | 1           | 0           | 0           | 0            | 0             | 0             | 4           |
| SW          | 0           | 0           | 0           | 2           | 0           | 2           | 1           | 0           | 0            | 0             | 0             | 5           |
| WSW         | 0           | 0           | 0           | 1           | 2           | 16          | 2           | 0           | 0            | 0             | 0             | 21          |
| W           | 0           | 0           | 0           | 1           | 1           | 13          | 3           | 0           | 0            | 0             | 0             | 18          |
| WNW         | 0           | 0           | 0           | 0           | 0           | 6           | 4           | 0           | 0            | 0             | 0             | 10          |
| NW          | 0           | 0           | 1           | 4           | 4           | 2           | 10          | 0           | 0            | 0             | 0             | 21          |
| NNW         | 0           | 1           | 1           | 1           | 0           | 3           | 15          | 0           | 0            | 0             | 0             | 21          |
| TOTAL       | 0           | 2           | 1           | 19          | 26          | 90          | 108         | 0           | 0            | 0             | 0             | 249         |

NUMBER OF CALMS: 0  
NUMBER OF INVALID HOURS: 0  
NUMBER OF VALID HOURS: 249  
TOTAL HOURS FOR THE PERIOD: 249

TABLE 16  
ATMOSPHERIC DISPERSION FACTORS  
(X/Q FACTORS) (D/Q FACTORS)  
1992

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 0.60            | 994           | 0.353E-05                              |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 0.60            | 994           | 0.218E-07                            |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 4.50            | 7242          | 0.102E-06                              |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 4.50            | 7242          | 0.259E-09                            |

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 377      | 115    | 0.725E-04                 |
| N                  | 902      | 275    | 0.148E-04                 |
| WNW                | 1640     | 500    | 0.109E-04                 |
| SW                 | 8202     | 2500   | 0.547E-06                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 377      | 115    | 0.959E-07               |
| N                  | 902      | 275    | 0.511E-07               |
| WNW                | 1640     | 500    | 0.562E-07               |
| SW                 | 8202     | 2500   | 0.183E-08               |

**RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)**  
**CONTINUOUS RELEASE FROM MAIN PLANT VENT**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**  
**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.333E-05 | 0.442E-06 | 0.167E-06 | 0.101E-06 | 0.677E-07 | 0.330E-07 | 0.144E-07 | 0.801E-08 | 0.546E-08 | 0.410E-08 |
| SSW                | 0.188E-05 | 0.247E-06 | 0.919E-07 | 0.552E-07 | 0.374E-07 | 0.186E-07 | 0.836E-08 | 0.477E-08 | 0.330E-08 | 0.251E-08 |
| SW                 | 0.495E-05 | 0.543E-06 | 0.208E-06 | 0.124E-06 | 0.834E-07 | 0.407E-07 | 0.181E-07 | 0.103E-07 | 0.707E-08 | 0.535E-08 |
| WSW                | 0.391E-05 | 0.427E-06 | 0.163E-06 | 0.967E-07 | 0.652E-07 | 0.318E-07 | 0.141E-07 | 0.799E-08 | 0.550E-08 | 0.416E-08 |
| W                  | 0.296E-05 | 0.354E-06 | 0.142E-06 | 0.868E-07 | 0.594E-07 | 0.295E-07 | 0.132E-07 | 0.747E-08 | 0.513E-08 | 0.387E-08 |
| WNW                | 0.496E-05 | 0.596E-06 | 0.226E-06 | 0.158E-06 | 0.102E-06 | 0.422E-07 | 0.178E-07 | 0.980E-08 | 0.660E-08 | 0.491E-08 |
| NW                 | 0.450E-05 | 0.571E-06 | 0.235E-06 | 0.146E-06 | 0.106E-06 | 0.537E-07 | 0.277E-07 | 0.148E-07 | 0.679E-08 | 0.509E-08 |
| NNW                | 0.135E-05 | 0.233E-06 | 0.964E-07 | 0.702E-07 | 0.477E-07 | 0.276E-07 | 0.130E-07 | 0.689E-08 | 0.453E-08 | 0.201E-08 |
| N                  | 0.248E-05 | 0.408E-06 | 0.184E-06 | 0.119E-06 | 0.835E-07 | 0.502E-07 | 0.202E-07 | 0.106E-07 | 0.698E-08 | 0.510E-08 |
| NNE                | 0.220E-05 | 0.331E-06 | 0.161E-06 | 0.107E-06 | 0.796E-07 | 0.588E-07 | 0.247E-07 | 0.133E-07 | 0.885E-08 | 0.654E-08 |
| NE                 | 0.246E-05 | 0.321E-06 | 0.156E-06 | 0.877E-07 | 0.682E-07 | 0.474E-07 | 0.241E-07 | 0.130E-07 | 0.871E-08 | 0.645E-08 |
| ENE                | 0.261E-05 | 0.344E-06 | 0.141E-06 | 0.782E-07 | 0.524E-07 | 0.492E-07 | 0.239E-07 | 0.133E-07 | 0.902E-08 | 0.667E-08 |
| E                  | 0.350E-05 | 0.427E-06 | 0.175E-06 | 0.102E-06 | 0.703E-07 | 0.488E-07 | 0.262E-07 | 0.162E-07 | 0.108E-07 | 0.801E-08 |
| ESE                | 0.256E-05 | 0.303E-06 | 0.116E-06 | 0.666E-07 | 0.481E-07 | 0.268E-07 | 0.129E-07 | 0.602E-08 | 0.424E-08 | 0.327E-08 |
| SE                 | 0.372E-05 | 0.468E-06 | 0.174E-06 | 0.967E-07 | 0.646E-07 | 0.305E-07 | 0.131E-07 | 0.725E-08 | 0.493E-08 | 0.369E-08 |
| SSE                | 0.341E-05 | 0.406E-06 | 0.159E-06 | 0.951E-07 | 0.643E-07 | 0.311E-07 | 0.136E-07 | 0.764E-08 | 0.522E-08 | 0.393E-08 |

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)  
CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT POPULATION RECEPTORS  
D/Q VALUES (SEC/M<sup>3</sup>)

DISTANCE IN MILES

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.189E-07 | 0.230E-08 | 0.687E-09 | 0.353E-09 | 0.209E-09 | 0.765E-10 | 0.233E-10 | 0.102E-10 | 0.618E-11 | 0.433E-11 |
| SSW                | 0.107E-07 | 0.135E-08 | 0.397E-09 | 0.206E-09 | 0.123E-09 | 0.457E-10 | 0.141E-10 | 0.630E-11 | 0.386E-11 | 0.272E-11 |
| SW                 | 0.181E-07 | 0.195E-08 | 0.575E-09 | 0.292E-09 | 0.173E-09 | 0.632E-10 | 0.193E-10 | 0.853E-11 | 0.533E-11 | 0.390E-11 |
| WSW                | 0.136E-07 | 0.135E-08 | 0.389E-09 | 0.196E-09 | 0.115E-09 | 0.416E-10 | 0.128E-10 | 0.562E-11 | 0.353E-11 | 0.262E-11 |
| W                  | 0.127E-07 | 0.129E-08 | 0.383E-09 | 0.196E-09 | 0.116E-09 | 0.432E-10 | 0.137E-10 | 0.635E-11 | 0.412E-11 | 0.308E-11 |
| WNW                | 0.303E-07 | 0.295E-08 | 0.861E-09 | 0.440E-09 | 0.259E-09 | 0.946E-10 | 0.302E-10 | 0.138E-10 | 0.868E-11 | 0.628E-11 |
| NW                 | 0.254E-07 | 0.263E-08 | 0.773E-09 | 0.393E-09 | 0.233E-09 | 0.123E-09 | 0.525E-10 | 0.220E-10 | 0.760E-11 | 0.544E-11 |
| NNW                | 0.116E-07 | 0.124E-08 | 0.371E-09 | 0.196E-09 | 0.120E-09 | 0.692E-10 | 0.235E-10 | 0.953E-11 | 0.512E-11 | 0.252E-11 |
| N                  | 0.144E-07 | 0.186E-08 | 0.571E-09 | 0.308E-09 | 0.205E-09 | 0.112E-09 | 0.355E-10 | 0.145E-10 | 0.781E-11 | 0.487E-11 |
| NNE                | 0.889E-08 | 0.108E-08 | 0.330E-09 | 0.181E-09 | 0.133E-09 | 0.834E-10 | 0.273E-10 | 0.111E-10 | 0.596E-11 | 0.370E-11 |
| NE                 | 0.102E-07 | 0.108E-08 | 0.324E-09 | 0.164E-09 | 0.983E-10 | 0.823E-10 | 0.275E-10 | 0.113E-10 | 0.610E-11 | 0.379E-11 |
| ENE                | 0.159E-07 | 0.163E-08 | 0.479E-09 | 0.241E-09 | 0.143E-09 | 0.937E-10 | 0.357E-10 | 0.132E-10 | 0.707E-11 | 0.441E-11 |
| E                  | 0.110E-07 | 0.182E-08 | 0.556E-09 | 0.283E-09 | 0.169E-09 | 0.913E-10 | 0.453E-10 | 0.162E-10 | 0.888E-11 | 0.560E-11 |
| ESE                | 0.124E-07 | 0.130E-08 | 0.385E-09 | 0.194E-09 | 0.117E-09 | 0.432E-10 | 0.137E-10 | 0.640E-11 | 0.404E-11 | 0.291E-11 |
| SE                 | 0.228E-07 | 0.245E-08 | 0.720E-09 | 0.359E-09 | 0.212E-09 | 0.777E-10 | 0.243E-10 | 0.109E-10 | 0.662E-11 | 0.467E-11 |
| SSE                | 0.202E-07 | 0.226E-08 | 0.680E-09 | 0.348E-09 | 0.206E-09 | 0.752E-10 | 0.232E-10 | 0.103E-10 | 0.625E-11 | 0.441E-11 |

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 0.60            | 994           | 0.269E-04                              |

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 0.60            | 994           | 0.369E-07                            |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 4.50            | 7242          | 0.465E-06                              |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 4.50            | 7242          | 0.350E-09                            |

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 410      | 125    | 0.885E-03                 |
| N                  | 820      | 250    | 0.143E-03                 |
| WNW                | 1558     | 475    | 0.864E-04                 |
| SW                 | 8202     | 2500   | 0.317E-05                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 410      | 125    | 0.653E-06               |
| N                  | 820      | 250    | 0.284E-06               |
| WNW                | 1558     | 475    | 0.120E-06               |
| SW                 | 8202     | 2500   | 0.344E-08               |



RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)  
CONTINUOUS RELEASE FROM FUEL BUILDING  
AT POPULATION RECEPTORS  
D/Q VALUES (SEC/M<sup>3</sup>)

DISTANCE IN MILES

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.876E-07 | 0.747E-08 | 0.219E-08 | 0.102E-08 | 0.587E-09 | 0.208E-09 | 0.638E-10 | 0.259E-10 | 0.139E-10 | 0.865E-11 |
| SSW                | 0.740E-07 | 0.631E-08 | 0.185E-08 | 0.860E-09 | 0.496E-09 | 0.176E-09 | 0.539E-10 | 0.219E-10 | 0.118E-10 | 0.731E-11 |
| SW                 | 0.482E-07 | 0.411E-08 | 0.121E-08 | 0.560E-09 | 0.323E-09 | 0.115E-09 | 0.351E-10 | 0.142E-10 | 0.767E-11 | 0.476E-11 |
| WSW                | 0.545E-07 | 0.465E-08 | 0.136E-08 | 0.633E-09 | 0.365E-09 | 0.129E-09 | 0.397E-10 | 0.161E-10 | 0.866E-11 | 0.538E-11 |
| W                  | 0.309E-07 | 0.264E-08 | 0.773E-09 | 0.359E-09 | 0.207E-10 | 0.735E-10 | 0.225E-10 | 0.914E-11 | 0.492E-11 | 0.305E-11 |
| WNW                | 0.383E-07 | 0.327E-08 | 0.957E-09 | 0.445E-09 | 0.257E-09 | 0.910E-10 | 0.279E-10 | 0.113E-10 | 0.609E-11 | 0.378E-11 |
| NW                 | 0.692E-07 | 0.590E-08 | 0.173E-08 | 0.804E-09 | 0.464E-09 | 0.164E-09 | 0.504E-10 | 0.204E-10 | 0.110E-10 | 0.683E-11 |
| NNW                | 0.644E-07 | 0.549E-08 | 0.161E-08 | 0.749E-09 | 0.432E-09 | 0.153E-09 | 0.469E-10 | 0.190E-10 | 0.102E-10 | 0.636E-11 |
| N                  | 0.475E-07 | 0.405E-08 | 0.119E-08 | 0.552E-09 | 0.318E-09 | 0.113E-09 | 0.346E-10 | 0.140E-10 | 0.755E-11 | 0.469E-11 |
| NNE                | 0.397E-07 | 0.339E-08 | 0.994E-09 | 0.462E-09 | 0.267E-09 | 0.945E-10 | 0.289E-10 | 0.117E-10 | 0.632E-11 | 0.393E-11 |
| NE                 | 0.224E-07 | 0.192E-08 | 0.561E-09 | 0.261E-09 | 0.151E-09 | 0.534E-10 | 0.164E-10 | 0.664E-11 | 0.357E-11 | 0.222E-11 |
| ENE                | 0.195E-07 | 0.166E-08 | 0.488E-09 | 0.227E-09 | 0.131E-09 | 0.464E-10 | 0.142E-10 | 0.577E-11 | 0.310E-11 | 0.173E-11 |
| E                  | 0.294E-07 | 0.251E-08 | 0.736E-09 | 0.342E-09 | 0.197E-09 | 0.700E-10 | 0.214E-10 | 0.870E-11 | 0.468E-11 | 0.291E-11 |
| ESE                | 0.368E-07 | 0.314E-08 | 0.920E-09 | 0.428E-09 | 0.247E-09 | 0.875E-10 | 0.268E-10 | 0.109E-10 | 0.585E-11 | 0.364E-11 |
| SE                 | 0.511E-07 | 0.436E-08 | 0.128E-08 | 0.595E-09 | 0.343E-09 | 0.122E-09 | 0.373E-10 | 0.151E-10 | 0.814E-11 | 0.505E-11 |
| SSE                | 0.692E-07 | 0.590E-08 | 0.173E-08 | 0.804E-09 | 0.464E-09 | 0.164E-09 | 0.504E-10 | 0.204E-10 | 0.110E-10 | 0.683E-11 |

**RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)**  
**CONTINUOUS RELEASE FROM FUEL BUILDING**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00      | 35.00      | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|
| S                  | 0.419E-04 | 0.446E-05 | 0.152E-05 | 0.787E-06 | 0.497E-06 | 0.214E-06 | 0.833E-07 | 0.444E-07  | 0.294E-07  | 0.216E-07 |
| SSW                | 0.336E-04 | 0.353E-05 | 0.120E-05 | 0.617E-06 | 0.388E-06 | 0.166E-06 | 0.641E-07 | 0.341E-07  | 0.225E-07  | 0.166E-07 |
| SW                 | 0.287E-04 | 0.322E-05 | 0.111E-05 | 0.581E-06 | 0.369E-06 | 0.161E-06 | 0.639E-07 | 0.348E-07  | 0.233E-07  | 0.173E-07 |
| WSW                | 0.406E-04 | 0.464E-05 | 0.161E-05 | 0.848E-06 | 0.540E-06 | 0.237E-06 | 0.950E-07 | 0.521E-07  | 0.351E-07  | 0.261E-07 |
| W                  | 0.323E-04 | 0.366E-05 | 0.127E-05 | 0.666E-06 | 0.424E-06 | 0.186E-06 | 0.740E-07 | 0.404E-07  | 0.0271E-07 | 0.202E-07 |
| WNW                | 0.183E-04 | 0.194E-05 | 0.659E-06 | 0.341E-06 | 0.215E-06 | 0.921E-07 | 0.359E-07 | 0.193E-07  | 0.128E-07  | 0.945E-08 |
| NW                 | 0.312E-04 | 0.328E-05 | 0.111E-05 | 0.574E-06 | 0.362E-06 | 0.154E-06 | 0.598E-07 | 0.319E-07  | 0.211E-07  | 0.155E-07 |
| NNW                | 0.159E-04 | 0.162E-05 | 0.541E-06 | 0.277E-06 | 0.174E-06 | 0.733E-07 | 0.279E-07 | 0.147E-07  | 0.962E-08  | 0.703E-08 |
| N                  | 0.978E-05 | 0.982E-06 | 0.327E-06 | 0.167E-06 | 0.105E-06 | 0.442E-07 | 0.168E-07 | 0.3867E-08 | 0.573E-08  | 0.417E-08 |
| NNE                | 0.128E-04 | 0.133E-05 | 0.448E-06 | 0.230E-06 | 0.145E-06 | 0.615E-07 | 0.236E-07 | 0.125E-07  | 0.822E-08  | 0.602E-08 |
| NE                 | 0.101E-04 | 0.108E-05 | 0.368E-06 | 0.190E-06 | 0.120E-06 | 0.511E-07 | 0.199E-07 | 0.106E-07  | 0.708E-08  | 0.522E-08 |
| ENE                | 0.121E-04 | 0.132E-05 | 0.454E-06 | 0.237E-06 | 0.150E-06 | 0.651E-07 | 0.257E-07 | 0.139E-07  | 0.926E-08  | 0.685E-08 |
| E                  | 0.215E-04 | 0.233E-05 | 0.798E-06 | 0.415E-06 | 0.263E-06 | 0.113E-06 | 0.446E-07 | 0.240E-07  | 0.160E-07  | 0.118E-07 |
| ESE                | 0.312E-04 | 0.345E-05 | 0.119E-05 | 0.621E-06 | 0.394E-06 | 0.171E-06 | 0.678E-07 | 0.367E-07  | 0.245E-07  | 0.182E-07 |
| SE                 | 0.334E-04 | 0.360E-05 | 0.123E-05 | 0.639E-06 | 0.404E-06 | 0.174E-06 | 0.682E-07 | 0.366E-07  | 0.243E-07  | 0.179E-07 |
| SSE                | 0.268E-04 | 0.273E-05 | 0.915E-06 | 0.470E-06 | 0.259E-06 | 0.124E-06 | 0.476E-07 | 0.249E-07  | 0.163E-07  | 0.119E-07 |

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 0.60     | 994    | 0.238E-04                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 0.60     | 994    | 0.369E-07               |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 4.50     | 7242   | 0.447E-06                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 4.50     | 7242   | 0.350E-09               |

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 492      | 150    | 0.358E-03                 |
| N                  | 1033     | 315    | 0.918E-04                 |
| WNW                | 1575     | 480    | 0.817E-04                 |
| SW                 | 8202     | 2500   | 0.292E-05                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 492      | 150    | 0.421E-06               |
| N                  | 1033     | 315    | 0.203E-06               |
| WNW                | 1575     | 480    | 0.118E-06               |
| SW                 | 8202     | 2500   | 0.344E-08               |

RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)  
CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT POPULATION RECEPTORS  
X/Q VALUES (SEC/M<sup>3</sup>)

DISTANCE IN MILES

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.243E-04 | 0.264E-05 | 0.926E-06 | 0.488E-06 | 0.312E-06 | 0.137E-06 | 0.542E-07 | 0.293E-07 | 0.196E-07 | 0.145E-07 |
| SSW                | 0.238E-04 | 0.263E-05 | 0.936E-06 | 0.497E-06 | 0.319E-06 | 0.141E-06 | 0.566E-07 | 0.310E-07 | 0.209E-07 | 0.156E-07 |
| SW                 | 0.282E-04 | 0.314E-05 | 0.111E-05 | 0.592E-06 | 0.380E-06 | 0.168E-06 | 0.674E-07 | 0.368E-07 | 0.247E-07 | 0.184E-07 |
| WSW                | 0.798E-04 | 0.905E-05 | 0.324E-05 | 0.173E-05 | 0.112E-05 | 0.498E-06 | 0.202E-06 | 0.111E-06 | 0.751E-07 | 0.560E-07 |
| W                  | 0.690E-04 | 0.780E-05 | 0.280E-05 | 0.150E-05 | 0.965E-06 | 0.439E-06 | 0.175E-06 | 0.966E-07 | 0.653E-07 | 0.488E-07 |
| WNW                | 0.339E-04 | 0.372E-05 | 0.132E-05 | 0.698E-06 | 0.447E-06 | 0.196E-06 | 0.787E-07 | 0.431E-07 | 0.290E-07 | 0.215E-07 |
| NW                 | 0.286E-04 | 0.302E-05 | 0.104E-05 | 0.545E-06 | 0.346E-06 | 0.149E-06 | 0.583E-07 | 0.311E-07 | 0.205E-07 | 0.151E-07 |
| NNW                | 0.146E-04 | 0.154E-05 | 0.531E-06 | 0.277E-06 | 0.176E-06 | 0.756E-07 | 0.296E-07 | 0.158E-07 | 0.105E-07 | 0.771E-08 |
| N                  | 0.193E-04 | 0.208E-05 | 0.725E-06 | 0.381E-06 | 0.242E-06 | 0.105E-06 | 0.415E-07 | 0.224E-07 | 0.149E-07 | 0.110E-07 |
| NNE                | 0.242E-04 | 0.265E-05 | 0.932E-06 | 0.493E-06 | 0.315E-06 | 0.138E-06 | 0.550E-07 | 0.298E-07 | 0.200E-07 | 0.148E-07 |
| NE                 | 0.172E-04 | 0.188E-05 | 0.663E-06 | 0.351E-06 | 0.225E-06 | 0.990E-07 | 0.396E-07 | 0.216E-07 | 0.145E-07 | 0.108E-07 |
| ENE                | 0.186E-04 | 0.204E-05 | 0.723E-06 | 0.384E-06 | 0.246E-06 | 0.109E-06 | 0.438E-07 | 0.240E-07 | 0.161E-07 | 0.120E-07 |
| E                  | 0.336E-04 | 0.373E-05 | 0.133E-05 | 0.705E-06 | 0.452E-06 | 0.201E-06 | 0.807E-07 | 0.441E-07 | 0.297E-07 | 0.221E-07 |
| ESE                | 0.226E-04 | 0.250E-05 | 0.883E-06 | 0.468E-06 | 0.300E-06 | 0.132E-06 | 0.530E-07 | 0.289E-07 | 0.194E-07 | 0.144E-07 |
| SE                 | 0.291E-04 | 0.320E-05 | 0.113E-05 | 0.598E-06 | 0.383E-06 | 0.169E-06 | 0.674E-07 | 0.366E-07 | 0.245E-07 | 0.182E-07 |
| SSE                | 0.260E-04 | 0.283E-05 | 0.989E-06 | 0.522E-06 | 0.333E-06 | 0.146E-06 | 0.580E-07 | 0.312E-07 | 0.208E-07 | 0.154E-07 |

**RIVER BEND STATION FIRST QUARTER (JANUARY 1, 1992 TO MARCH 31, 1992)  
CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT POPULATION RECEPTORS  
D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.5mi     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.540E-07 | 0.461E-08 | 0.135E-08 | 0.628E-09 | 0.362E-09 | 0.128E-09 | 0.393E-10 | 0.160E-10 | 0.859E-11 | 0.534E-11 |
| SSW                | 0.391E-07 | 0.334E-08 | 0.978E-09 | 0.455E-09 | 0.262E-09 | 0.930E-10 | 0.285E-10 | 0.116E-10 | 0.622E-11 | 0.386E-11 |
| SW                 | 0.440E-07 | 0.375E-08 | 0.110E-08 | 0.511E-09 | 0.295E-09 | 0.104E-09 | 0.320E-10 | 0.130E-10 | 0.699E-11 | 0.434E-11 |
| WSW                | 0.745E-07 | 0.636E-08 | 0.186E-08 | 0.866E-09 | 0.500E-09 | 0.177E-09 | 0.543E-10 | 0.220E-10 | 0.119E-10 | 0.736E-11 |
| W                  | 0.603E-07 | 0.515E-08 | 0.151E-08 | 0.701E-09 | 0.405E-09 | 0.143E-09 | 0.440E-10 | 0.178E-10 | 0.960E-11 | 0.596E-11 |
| WNW                | 0.522E-07 | 0.445E-08 | 0.130E-08 | 0.606E-09 | 0.350E-09 | 0.124E-09 | 0.380E-10 | 0.154E-10 | 0.830E-11 | 0.515E-11 |
| NW                 | 0.764E-07 | 0.652E-08 | 0.191E-08 | 0.888E-09 | 0.512E-09 | 0.182E-09 | 0.556E-10 | 0.226E-10 | 0.121E-10 | 0.754E-11 |
| NNW                | 0.402E-07 | 0.343E-08 | 0.101E-08 | 0.468E-09 | 0.270E-09 | 0.956E-10 | 0.293E-10 | 0.119E-10 | 0.640E-11 | 0.397E-11 |
| N                  | 0.477E-07 | 0.407E-08 | 0.119E-08 | 0.554E-09 | 0.320E-09 | 0.113E-09 | 0.347E-10 | 0.141E-10 | 0.758E-11 | 0.471E-11 |
| NNE                | 0.395E-07 | 0.337E-08 | 0.988E-09 | 0.459E-09 | 0.265E-09 | 0.939E-10 | 0.288E-10 | 0.117E-10 | 0.628E-11 | 0.390E-11 |
| NE                 | 0.317E-07 | 0.270E-08 | 0.792E-09 | 0.368E-09 | 0.212E-09 | 0.753E-10 | 0.231E-10 | 0.936E-11 | 0.504E-11 | 0.313E-11 |
| ENE                | 0.346E-07 | 0.296E-08 | 0.867E-09 | 0.403E-09 | 0.232E-09 | 0.824E-10 | 0.252E-10 | 0.102E-10 | 0.551E-11 | 0.342E-11 |
| E                  | 0.421E-07 | 0.359E-08 | 0.105E-08 | 0.489E-09 | 0.282E-09 | 0.100E-09 | 0.307E-10 | 0.124E-10 | 0.670E-11 | 0.416E-11 |
| ESE                | 0.339E-07 | 0.289E-08 | 0.848E-09 | 0.394E-09 | 0.227E-09 | 0.806E-10 | 0.247E-10 | 0.100E-10 | 0.539E-11 | 0.335E-11 |
| SE                 | 0.548E-07 | 0.467E-08 | 0.137E-08 | 0.637E-09 | 0.367E-09 | 0.130E-09 | 0.399E-10 | 0.162E-10 | 0.871E-11 | 0.541E-11 |
| SSE                | 0.577E-07 | 0.493E-08 | 0.144E-08 | 0.671E-09 | 0.387E-09 | 0.137E-09 | 0.421E-10 | 0.171E-10 | 0.918E-11 | 0.570E-11 |

RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 0.60     | 994    | 0.361E-05                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 0.60     | 994    | 0.223E-07               |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 4.50     | 7242   | 0.139E-06                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 4.50     | 7242   | 0.314E-09               |

RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 377      | 115    | 0.124E-03                 |
| N                  | 902      | 275    | 0.196E-04                 |
| WNW                | 1640     | 500    | 0.109E-04                 |
| SW                 | 8202     | 2500   | 0.340E-06                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 377      | 115    | 0.839E-07               |
| N                  | 902      | 275    | 0.670E-07               |
| WNW                | 1640     | 500    | 0.549E-07               |
| SW                 | 8202     | 2500   | 0.101E-08               |



RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)  
CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT POPULATION RECEPTORS  
X/Q VALUES (SEC/M<sup>3</sup>)

DISTANCE IN MILES

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.426E-05 | 0.498E-06 | 0.188E-06 | 0.113E-06 | 0.762E-07 | 0.375E-07 | 0.165E-07 | 0.928E-08 | 0.634E-08 | 0.477E-08 |
| SSW                | 0.269E-05 | 0.324E-06 | 0.123E-06 | 0.755E-07 | 0.519E-07 | 0.260E-07 | 0.116E-07 | 0.658E-08 | 0.451E-08 | 0.339E-08 |
| SW                 | 0.258E-05 | 0.322E-06 | 0.127E-06 | 0.767E-07 | 0.521E-07 | 0.253E-07 | 0.109E-07 | 0.606E-08 | 0.409E-08 | 0.305E-08 |
| WSW                | 0.308E-05 | 0.385E-06 | 0.158E-06 | 0.977E-07 | 0.674E-07 | 0.339E-07 | 0.151E-07 | 0.855E-08 | 0.585E-08 | 0.440E-08 |
| W                  | 0.418E-05 | 0.512E-06 | 0.208E-06 | 0.128E-06 | 0.874E-07 | 0.430E-07 | 0.187E-07 | 0.104E-07 | 0.705E-08 | 0.528E-08 |
| WNW                | 0.507E-05 | 0.695E-06 | 0.276E-06 | 0.213E-06 | 0.139E-06 | 0.562E-07 | 0.244E-07 | 0.136E-07 | 0.918E-08 | 0.685E-08 |
| NW                 | 0.398E-05 | 0.626E-06 | 0.272E-06 | 0.173E-06 | 0.128E-06 | 0.651E-07 | 0.338E-07 | 0.178E-07 | 0.773E-08 | 0.577E-08 |
| NNW                | 0.311E-05 | 0.439E-06 | 0.175E-06 | 0.125E-06 | 0.851E-07 | 0.494E-07 | 0.231E-07 | 0.123E-07 | 0.815E-08 | 0.376E-08 |
| N                  | 0.316E-05 | 0.461E-06 | 0.219E-06 | 0.146E-06 | 0.104E-06 | 0.639E-07 | 0.259E-07 | 0.137E-07 | 0.902E-08 | 0.661E-08 |
| NNE                | 0.358E-05 | 0.546E-06 | 0.254E-06 | 0.160E-06 | 0.113E-06 | 0.692E-07 | 0.281E-07 | 0.150E-07 | 0.994E-08 | 0.731E-08 |
| NE                 | 0.328E-05 | 0.397E-06 | 0.192E-06 | 0.109E-06 | 0.829E-07 | 0.537E-07 | 0.263E-07 | 0.142E-07 | 0.949E-08 | 0.702E-08 |
| ENE                | 0.425E-05 | 0.460E-06 | 0.179E-06 | 0.101E-06 | 0.670E-07 | 0.524E-07 | 0.248E-07 | 0.139E-07 | 0.940E-08 | 0.699E-08 |
| E                  | 0.289E-05 | 0.298E-06 | 0.116E-06 | 0.666E-07 | 0.453E-07 | 0.291E-07 | 0.147E-07 | 0.889E-08 | 0.594E-08 | 0.440E-08 |
| ESE                | 0.220E-05 | 0.242E-06 | 0.940E-07 | 0.546E-07 | 0.403E-07 | 0.223E-07 | 0.103E-07 | 0.507E-08 | 0.353E-08 | 0.269E-08 |
| SE                 | 0.291E-05 | 0.315E-06 | 0.121E-06 | 0.692E-07 | 0.468E-07 | 0.226E-07 | 0.986E-08 | 0.557E-08 | 0.383E-08 | 0.289E-08 |
| SSE                | 0.378E-05 | 0.376E-06 | 0.143E-06 | 0.854E-07 | 0.575E-07 | 0.277E-07 | 0.122E-07 | 0.692E-08 | 0.476E-08 | 0.360E-08 |

**RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)**  
**CONTINUOUS RELEASE FROM MAIN PLANT VENT**  
**AT POPULATION RECEPTORS**  
**D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.232E-07 | 0.245E-08 | 0.707E-09 | 0.361E-09 | 0.212E-09 | 0.787E-10 | 0.248E-10 | 0.112E-10 | 0.689E-11 | 0.485E-11 |
| SSW                | 0.126E-07 | 0.127E-08 | 0.368E-09 | 0.189E-09 | 0.112E-09 | 0.419E-10 | 0.136E-10 | 0.638E-11 | 0.410E-11 | 0.301E-11 |
| SW                 | 0.106E-07 | 0.108E-08 | 0.320E-09 | 0.164E-09 | 0.976E-10 | 0.364E-10 | 0.116E-10 | 0.541E-11 | 0.351E-11 | 0.261E-11 |
| WSW                | 0.114E-07 | 0.124E-08 | 0.380E-09 | 0.197E-09 | 0.118E-09 | 0.441E-10 | 0.142E-10 | 0.660E-11 | 0.426E-11 | 0.315E-11 |
| W                  | 0.169E-07 | 0.170E-08 | 0.512E-09 | 0.267E-09 | 0.160E-09 | 0.607E-10 | 0.196E-10 | 0.916E-11 | 0.586E-11 | 0.429E-11 |
| WNW                | 0.315E-07 | 0.336E-08 | 0.100E-08 | 0.530E-09 | 0.314E-09 | 0.114E-09 | 0.364E-10 | 0.168E-10 | 0.106E-10 | 0.759E-11 |
| NW                 | 0.309E-07 | 0.318E-08 | 0.944E-09 | 0.481E-09 | 0.284E-09 | 0.138E-09 | 0.670E-10 | 0.282E-10 | 0.948E-11 | 0.679E-11 |
| NNW                | 0.176E-07 | 0.195E-08 | 0.581E-09 | 0.309E-09 | 0.192E-09 | 0.101E-09 | 0.350E-10 | 0.142E-10 | 0.772E-11 | 0.418E-11 |
| N                  | 0.226E-07 | 0.238E-08 | 0.710E-09 | 0.370E-09 | 0.241E-09 | 0.131E-09 | 0.421E-10 | 0.172E-10 | 0.924E-11 | 0.576E-11 |
| NNE                | 0.147E-07 | 0.160E-08 | 0.474E-09 | 0.258E-09 | 0.185E-09 | 0.118E-09 | 0.373E-10 | 0.152E-10 | 0.818E-11 | 0.509E-11 |
| NE                 | 0.106E-07 | 0.108E-08 | 0.322E-09 | 0.164E-09 | 0.994E-09 | 0.794E-10 | 0.267E-10 | 0.109E-10 | 0.589E-11 | 0.366E-11 |
| ENE                | 0.155E-07 | 0.157E-08 | 0.459E-09 | 0.230E-09 | 0.137E-09 | 0.842E-10 | 0.307E-10 | 0.122E-10 | 0.649E-11 | 0.408E-11 |
| E                  | 0.266E-07 | 0.246E-08 | 0.719E-09 | 0.362E-09 | 0.216E-09 | 0.928E-10 | 0.403E-10 | 0.168E-10 | 0.987E-11 | 0.651E-11 |
| ESE                | 0.107E-07 | 0.104E-08 | 0.303E-09 | 0.153E-09 | 0.920E-09 | 0.343E-10 | 0.113E-10 | 0.548E-11 | 0.352E-11 | 0.253E-11 |
| SE                 | 0.120E-07 | 0.120E-08 | 0.358E-09 | 0.180E-09 | 0.108E-09 | 0.406E-10 | 0.134E-10 | 0.639E-11 | 0.405E-11 | 0.289E-11 |
| SSE                | 0.168E-07 | 0.174E-08 | 0.516E-09 | 0.264E-09 | 0.158E-09 | 0.592E-10 | 0.194E-10 | 0.919E-11 | 0.580E-11 | 0.411E-11 |

RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 0.60     | 994    | 0.282E-04                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 0.60     | 994    | 0.392E-07               |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 4.50     | 7242   | 0.427E-06                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 4.50     | 7242   | 0.371E-09               |

RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 410      | 125    | 0.670E-03                 |
| N                  | 820      | 250    | 0.157E-03                 |
| WNW                | 1558     | 475    | 0.902E-04                 |
| SW                 | 8202     | 2500   | 0.701E-05                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 410      | 125    | 0.649E-06               |
| N                  | 820      | 250    | 0.340E-06               |
| WNW                | 1558     | 475    | 0.127E-06               |
| SW                 | 8202     | 2500   | 0.396E-08               |

**RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)**  
**CONTINUOUS RELEASE FROM FUEL BUILDING**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.442E-04 | 0.492E-05 | 0.170E-05 | 0.892E-06 | 0.568E-06 | 0.248E-06 | 0.98E-07  | 0.538E-07 | 0.360E-07 | 0.267E-07 |
| SSW                | 0.402E-04 | 0.448E-05 | 0.155E-05 | 0.812E-06 | 0.517E-06 | 0.226E-06 | 0.899E-07 | 0.489E-07 | 0.327E-07 | 0.243E-07 |
| SW                 | 0.667E-04 | 0.757E-05 | 0.262E-05 | 0.138E-05 | 0.879E-06 | 0.386E-06 | 0.154E-06 | 0.843E-07 | 0.566E-07 | 0.421E-07 |
| WSW                | 0.918E-04 | 0.104E-04 | 0.360E-05 | 0.189E-05 | 0.120E-05 | 0.528E-06 | 0.211E-06 | 0.115E-06 | 5.772E-07 | 0.573E-07 |
| W                  | 0.540E-04 | 0.584E-05 | 0.200E-05 | 0.104E-05 | 0.661E-06 | 0.286E-06 | 0.112E-06 | 0.605E-07 | 0.403E-07 | 0.297E-07 |
| WNW                | 0.390E-04 | 0.394E-05 | 0.132E-05 | 0.680E-06 | 0.427E-06 | 0.180E-06 | 0.691E-07 | 0.362E-07 | 0.236E-07 | 0.172E-07 |
| NW                 | 0.622E-04 | 0.654E-05 | 0.222E-05 | 0.115E-05 | 0.726E-06 | 0.311E-06 | 0.121E-06 | 0.647E-07 | 0.429E-07 | 0.315E-07 |
| NNW                | 0.242E-04 | 0.246E-05 | 0.826E-06 | 0.426E-06 | 0.268E-06 | 0.114E-06 | 0.440E-07 | 0.231E-07 | 0.152E-07 | 0.111E-07 |
| N                  | 0.230E-04 | 0.236E-05 | 0.797E-06 | 0.412E-06 | 0.260E-06 | 0.111E-06 | 0.430E-07 | 0.228E-07 | 0.150E-07 | 0.110E-07 |
| NNE                | 0.234E-04 | 0.240E-05 | 0.811E-06 | 0.420E-06 | 0.265E-06 | 0.113E-06 | 0.439E-07 | 0.231E-07 | 0.152E-07 | 0.111E-07 |
| NE                 | 0.257E-04 | 0.280E-05 | 0.962E-06 | 0.503E-06 | 0.320E-06 | 0.139E-06 | 0.551E-07 | 0.298E-07 | 0.199E-07 | 0.147E-07 |
| ENE                | 0.175E-04 | 0.193E-05 | 0.666E-06 | 0.348E-06 | 0.221E-06 | 0.966E-07 | 0.385E-07 | 0.210E-07 | 0.141E-07 | 0.105E-07 |
| E                  | 0.270E-04 | 0.296E-05 | 0.102E-05 | 0.536E-06 | 0.341E-06 | 0.149E-06 | 0.595E-07 | 0.323E-07 | 0.216E-07 | 0.160E-07 |
| ESE                | 0.198E-04 | 0.220E-05 | 0.726E-06 | 0.400E-06 | 0.255E-06 | 0.112E-06 | 0.447E-07 | 0.244E-07 | 0.164E-07 | 0.122E-07 |
| SE                 | 0.342E-04 | 0.384E-05 | 0.133E-05 | 0.698E-06 | 0.445E-06 | 0.195E-06 | 0.779E-07 | 0.424E-07 | 0.285E-07 | 0.211E-07 |
| SSE                | 0.341E-04 | 0.379E-05 | 0.131E-05 | 0.686E-06 | 0.436E-06 | 0.191E-06 | 0.761E-07 | 0.414E-07 | 0.277E-07 | 0.205E-07 |

**RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)**

**CONTINUOUS RELEASE FROM FUEL BUILDING**

**AT POPULATION RECEPTORS**

**D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.618E-07 | 0.528E-08 | 0.155E-08 | 0.719E-09 | 0.415E-09 | 0.147E-09 | 0.450E-10 | 0.183E-10 | 0.983E-11 | 0.611E-11 |
| SSW                | 0.451E-07 | 0.385E-08 | 0.113E-08 | 0.524E-09 | 0.302E-09 | 0.107E-09 | 0.329E-10 | 0.133E-10 | 0.717E-11 | 0.446E-11 |
| SW                 | 0.506E-07 | 0.431E-08 | 0.126E-08 | 0.588E-09 | 0.339E-09 | 0.120E-09 | 0.368E-10 | 0.149E-10 | 0.804E-11 | 0.499E-11 |
| WSW                | 0.622E-07 | 0.531E-08 | 0.156E-08 | 0.723E-09 | 0.417E-09 | 0.148E-09 | 0.453E-10 | 0.184E-10 | 0.989E-11 | 0.614E-11 |
| W                  | 0.495E-07 | 0.422E-08 | 0.124E-08 | 0.575E-09 | 0.332E-09 | 0.118E-09 | 0.360E-10 | 0.146E-10 | 0.787E-11 | 0.489E-11 |
| WNW                | 0.553E-07 | 0.472E-08 | 0.138E-08 | 0.643E-09 | 0.371E-09 | 0.131E-09 | 0.403E-10 | 0.163E-10 | 0.879E-11 | 0.546E-11 |
| NW                 | 0.909E-07 | 0.776E-08 | 0.227E-08 | 0.106E-08 | 0.610E-09 | 0.216E-09 | 0.662E-10 | 0.269E-10 | 0.145E-10 | 0.898E-11 |
| NNW                | 0.553E-07 | 0.472E-08 | 0.138E-08 | 0.643E-09 | 0.371E-09 | 0.131E-09 | 0.403E-10 | 0.163E-10 | 0.879E-11 | 0.546E-11 |
| N                  | 0.571E-07 | 0.487E-08 | 0.143E-08 | 0.664E-09 | 0.383E-09 | 0.136E-09 | 0.416E-10 | 0.169E-10 | 0.908E-11 | 0.564E-11 |
| NNE                | 0.411E-07 | 0.351E-08 | 0.103E-08 | 0.478E-09 | 0.276E-09 | 0.977E-10 | 0.299E-10 | 0.121E-10 | 0.654E-11 | 0.406E-11 |
| NE                 | 0.309E-07 | 0.264E-08 | 0.773E-09 | 0.359E-09 | 0.207E-09 | 0.735E-10 | 0.225E-10 | 0.914E-11 | 0.492E-11 | 0.305E-11 |
| ENE                | 0.262E-07 | 0.223E-08 | 0.655E-09 | 0.304E-09 | 0.176E-09 | 0.622E-10 | 0.191E-10 | 0.774E-11 | 0.417E-11 | 0.259E-11 |
| E                  | 0.418E-07 | 0.357E-08 | 0.105E-08 | 0.486E-09 | 0.280E-09 | 0.994E-10 | 0.305E-10 | 0.124E-10 | 0.665E-11 | 0.413E-11 |
| ESE                | 0.309E-07 | 0.264E-08 | 0.773E-09 | 0.359E-09 | 0.207E-09 | 0.735E-10 | 0.225E-10 | 0.914E-11 | 0.492E-11 | 0.305E-11 |
| SE                 | 0.371E-07 | 0.317E-08 | 0.928E-09 | 0.431E-09 | 0.249E-09 | 0.882E-10 | 0.270E-10 | 0.110E-10 | 0.590E-11 | 0.366E-11 |
| SSE                | 0.469E-07 | 0.400E-08 | 0.117E-08 | 0.545E-09 | 0.315E-09 | 0.112E-09 | 0.342E-10 | 0.139E-10 | 0.746E-11 | 0.463E-11 |

RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR<br/>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q<br/>SEC/M<sup>3</sup></u> |
|----------------------------|-----------------|---------------|----------------------------------|
|                            | <u>MILES</u>    | <u>METERS</u> |                                  |
| WNW                        | 0.60            | 994           | 0.258E-04                        |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR<br/>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q<br/>1/M<sup>2</sup></u> |
|----------------------------|-----------------|---------------|--------------------------------|
|                            | <u>MILES</u>    | <u>METERS</u> |                                |
| WNW                        | 0.60            | 994           | 0.392E-07                      |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR<br/>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q<br/>SEC/M<sup>3</sup></u> |
|----------------------------|-----------------|---------------|----------------------------------|
|                            | <u>MILES</u>    | <u>METERS</u> |                                  |
| WNW                        | 4.50            | 7242          | 0.417E-06                        |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR<br/>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q<br/>1/M<sup>2</sup></u> |
|----------------------------|-----------------|---------------|--------------------------------|
|                            | <u>MILES</u>    | <u>METERS</u> |                                |
| WNW                        | 4.50            | 7242          | 0.371E-09                      |

RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 492      | 150    | 0.317E-03                 |
| N                  | 1033     | 315    | 0.998E-04                 |
| WNW                | 1575     | 480    | 0.815E-04                 |
| SW                 | 8202     | 2500   | 0.642E-05                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 492      | 150    | 0.318E-06               |
| N                  | 1033     | 315    | 0.243E-06               |
| WNW                | 1575     | 480    | 0.125E-06               |
| SW                 | 8202     | 2500   | 0.396E-08               |



**RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)**  
**CONTINUOUS RELEASE FROM RADWASTE BUILDING**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.409E-04 | 0.452E-05 | 0.160E-05 | 0.850E-06 | 0.545E-06 | 0.241E-06 | 0.967E-07 | 0.528E-07 | 0.354E-07 | 0.263E-07 |
| SSW                | 0.371E-04 | 0.412E-05 | 0.146E-05 | 0.755E-06 | 0.497E-06 | 0.220E-06 | 0.881E-07 | 0.480E-07 | 0.322E-07 | 0.239E-07 |
| SW                 | 0.617E-04 | 0.691E-05 | 0.246E-05 | 0.131E-05 | 0.843E-06 | 0.374E-06 | 0.151E-06 | 0.826E-07 | 0.556E-07 | 0.414E-07 |
| WSW                | 0.847E-04 | 0.950E-05 | 0.338E-05 | 0.180E-05 | 0.116E-05 | 0.513E-06 | 0.207E-06 | 0.113E-06 | 0.759E-07 | 0.564E-07 |
| W                  | 0.498E-04 | 0.543E-05 | 0.190E-05 | 0.100E-05 | 0.639E-06 | 0.278E-06 | 0.110E-06 | 0.596E-07 | 0.397E-07 | 0.293E-07 |
| WNW                | 0.359E-04 | 0.375E-05 | 0.128E-05 | 0.662E-06 | 0.417E-06 | 0.177E-06 | 0.683E-07 | 0.358E-07 | 0.234E-07 | 0.171E-07 |
| NW                 | 0.576E-04 | 0.613E-05 | 0.212E-05 | 0.111E-05 | 0.705E-06 | 0.304E-06 | 0.119E-06 | 0.638E-07 | 0.423E-07 | 0.311E-07 |
| NNW                | 0.222E-04 | 0.233E-05 | 0.796E-06 | 0.414E-06 | 0.262E-06 | 0.112E-06 | 0.434E-07 | 0.229E-07 | 0.150E-07 | 0.110E-07 |
| N                  | 0.212E-04 | 0.222E-05 | 0.765E-06 | 0.399E-06 | 0.253E-06 | 0.109E-06 | 0.424E-07 | 0.225E-07 | 0.148E-07 | 0.109E-07 |
| NNE                | 0.213E-04 | 0.227E-05 | 0.781E-06 | 0.408E-06 | 0.258E-06 | 0.111E-06 | 0.433E-07 | 0.229E-07 | 0.150E-07 | 0.110E-07 |
| NE                 | 0.236E-04 | 0.259E-05 | 0.911E-06 | 0.482E-06 | 0.308E-06 | 0.135E-06 | 0.541E-07 | 0.293E-07 | 0.196E-07 | 0.145E-07 |
| ENE                | 0.163E-04 | 0.177E-05 | 0.626E-06 | 0.332E-06 | 0.213E-06 | 0.937E-07 | 0.376E-07 | 0.206E-07 | 0.139E-07 | 0.103E-07 |
| E                  | 0.250E-04 | 0.272E-05 | 0.964E-06 | 0.512E-06 | 0.328E-06 | 0.145E-06 | 0.582E-07 | 0.317E-07 | 0.213E-07 | 0.158E-07 |
| ESE                | 0.184E-04 | 0.201E-05 | 0.715E-06 | 0.381E-06 | 0.244E-06 | 0.109E-06 | 0.437E-07 | 0.239E-07 | 0.161E-07 | 0.120E-07 |
| SE                 | 0.316E-04 | 0.351E-05 | 0.125E-05 | 0.664E-06 | 0.427E-06 | 0.189E-06 | 0.762E-07 | 0.416E-07 | 0.280E-07 | 0.208E-07 |
| SSE                | 0.315E-04 | 0.347E-05 | 0.123E-05 | 0.654E-06 | 0.419E-06 | 0.186E-06 | 0.745E-07 | 0.406E-07 | 0.272E-07 | 0.202E-07 |

**RIVER BEND STATION SECOND QUARTER (APRIL 1, 1992 TO JUNE 30, 1992)**  
**CONTINUOUS RELEASE FROM RADWASTE BUILDING**  
**AT POPULATION RECEPTORS**  
**D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.618E-07 | 0.528E-08 | 0.155E-08 | 0.719E-09 | 0.415E-09 | 0.147E-09 | 0.450E-10 | 0.183E-10 | 0.983E-11 | 0.611E-11 |
| SSW                | 0.451E-07 | 0.385E-08 | 0.113E-08 | 0.524E-09 | 0.302E-09 | 0.107E-09 | 0.329E-10 | 0.133E-10 | 0.717E-11 | 0.446E-11 |
| SW                 | 0.506E-07 | 0.431E-08 | 0.126E-08 | 0.588E-09 | 0.339E-09 | 0.120E-09 | 0.368E-10 | 0.149E-10 | 0.804E-11 | 0.499E-11 |
| WSW                | 0.622E-07 | 0.531E-08 | 0.156E-08 | 0.723E-09 | 0.417E-09 | 0.148E-09 | 0.453E-10 | 0.184E-10 | 0.989E-11 | 0.614E-11 |
| W                  | 0.495E-07 | 0.422E-08 | 0.124E-08 | 0.575E-09 | 0.332E-09 | 0.118E-09 | 0.360E-10 | 0.146E-10 | 0.787E-11 | 0.489E-11 |
| WNW                | 0.553E-07 | 0.472E-08 | 0.138E-08 | 0.643E-09 | 0.371E-09 | 0.131E-09 | 0.403E-10 | 0.163E-10 | 0.879E-11 | 0.546E-11 |
| NW                 | 0.909E-07 | 0.776E-08 | 0.227E-08 | 0.106E-08 | 0.610E-09 | 0.216E-09 | 0.662E-10 | 0.269E-10 | 0.145E-10 | 0.898E-11 |
| NNW                | 0.553E-07 | 0.472E-08 | 0.138E-08 | 0.643E-09 | 0.371E-09 | 0.131E-09 | 0.403E-10 | 0.163E-10 | 0.879E-11 | 0.546E-11 |
| N                  | 0.571E-07 | 0.487E-08 | 0.143E-08 | 0.664E-09 | 0.383E-09 | 0.136E-09 | 0.416E-10 | 0.169E-10 | 0.908E-11 | 0.564E-11 |
| NNE                | 0.411E-07 | 0.351E-08 | 0.103E-08 | 0.478E-09 | 0.276E-09 | 0.977E-10 | 0.299E-10 | 0.121E-10 | 0.654E-11 | 0.406E-11 |
| NE                 | 0.309E-07 | 0.264E-08 | 0.773E-09 | 0.359E-09 | 0.207E-09 | 0.735E-10 | 0.225E-10 | 0.914E-11 | 0.492E-11 | 0.305E-11 |
| ENE                | 0.262E-07 | 0.223E-08 | 0.655E-09 | 0.304E-09 | 0.176E-09 | 0.662E-10 | 0.191E-10 | 0.774E-11 | 0.417E-11 | 0.259E-11 |
| E                  | 0.418E-07 | 0.357E-08 | 0.105E-08 | 0.486E-09 | 0.280E-09 | 0.994E-10 | 0.305E-10 | 0.124E-10 | 0.665E-11 | 0.413E-11 |
| ESE                | 0.309E-07 | 0.264E-08 | 0.773E-09 | 0.359E-09 | 0.207E-09 | 0.735E-10 | 0.225E-10 | 0.914E-11 | 0.492E-11 | 0.305E-11 |
| SE                 | 0.371E-07 | 0.317E-08 | 0.928E-09 | 0.431E-09 | 0.249E-09 | 0.882E-10 | 0.270E-10 | 0.110E-10 | 0.590E-11 | 0.366E-11 |
| SSE                | 0.469E-07 | 0.400E-08 | 0.117E-08 | 0.545E-09 | 0.315E-09 | 0.112E-09 | 0.342E-10 | 0.139E-10 | 0.746E-11 | 0.463E-11 |

RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 30, 1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 0.60     | 994    | 0.299E-05                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 0.60     | 994    | 0.174E-07               |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 4.50     | 7242   | 0.147E-06                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 4.50     | 7242   | 0.255E-09               |

RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 30, 1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 377      | 115    | 0.397E-04                 |
| N                  | 902      | 275    | 0.788E-05                 |
| WNW                | 1640     | 500    | 0.845E-05                 |
| SW                 | 8202     | 2500   | 0.831E-06                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 377      | 115    | 0.698E-07               |
| N                  | 902      | 275    | 0.292E-07               |
| WNW                | 1640     | 500    | 0.411E-07               |
| SW                 | 8202     | 2500   | 0.299E-08               |

**RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM MAIN PLANT VENT**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.137E-05 | 0.234E-06 | 0.933E-07 | 0.590E-07 | 0.405E-07 | 0.204E-07 | 0.880E-08 | 0.482E-08 | 0.322E-08 | 0.237E-08 |
| SSW                | 0.346E-05 | 0.656E-06 | 0.254E-06 | 0.159E-06 | 0.109E-06 | 0.527E-07 | 0.215E-07 | 0.114E-07 | 0.745E-08 | 0.541E-08 |
| SW                 | 0.548E-05 | 0.762E-06 | 0.315E-06 | 0.194E-06 | 0.133E-06 | 0.643E-07 | 0.268E-07 | 0.145E-07 | 0.958E-08 | 0.704E-08 |
| WSW                | 0.477E-05 | 0.688E-06 | 0.296E-06 | 0.185E-06 | 0.127E-06 | 0.627E-07 | 0.265E-07 | 0.144E-07 | 0.959E-08 | 0.707E-08 |
| W                  | 0.503E-05 | 0.723E-06 | 0.320E-06 | 0.206E-06 | 0.144E-06 | 0.731E-07 | 0.318E-07 | 0.175E-07 | 0.118E-07 | 0.873E-08 |
| WNW                | 0.414E-05 | 0.634E-06 | 0.266E-06 | 0.224E-06 | 0.147E-06 | 0.588E-07 | 0.257E-07 | 0.142E-07 | 0.958E-08 | 0.711E-08 |
| NW                 | 0.281E-05 | 0.545E-06 | 0.257E-06 | 0.168E-06 | 0.125E-06 | 0.633E-07 | 0.310E-07 | 0.161E-07 | 0.757E-08 | 0.562E-08 |
| NNW                | 0.376E-05 | 0.738E-06 | 0.320E-06 | 0.238E-06 | 0.161E-06 | 0.886E-07 | 0.401E-07 | 0.210E-07 | 0.137E-07 | 0.684E-08 |
| N                  | 0.141E-05 | 0.278E-06 | 0.135E-06 | 0.902E-07 | 0.639E-07 | 0.401E-07 | 0.162E-07 | 0.849E-08 | 0.556E-08 | 0.405E-08 |
| NNE                | 0.199E-05 | 0.332E-06 | 0.163E-06 | 0.104E-06 | 0.738E-07 | 0.444E-07 | 0.179E-07 | 0.940E-08 | 0.616E-08 | 0.449E-08 |
| NE                 | 0.133E-05 | 0.184E-06 | 0.896E-07 | 0.501E-07 | 0.374E-07 | 0.222E-07 | 0.102E-07 | 0.539E-08 | 0.355E-08 | 0.260E-08 |
| ENE                | 0.150E-05 | 0.228E-06 | 0.936E-07 | 0.513E-07 | 0.341E-07 | 0.244E-07 | 0.105E-07 | 0.559E-08 | 0.367E-08 | 0.267E-08 |
| E                  | 0.561E-06 | 0.634E-07 | 0.235E-07 | 0.129E-07 | 0.853E-08 | 0.551E-08 | 0.279E-08 | 0.168E-08 | 0.110E-08 | 0.804E-09 |
| ESE                | 0.749E-07 | 0.206E-07 | 0.937E-08 | 0.550E-08 | 0.403E-08 | 0.205E-08 | 0.852E-09 | 0.383E-09 | 0.251E-09 | 0.184E-09 |
| SE                 | 0.384E-07 | 0.110E-07 | 0.568E-08 | 0.323E-08 | 0.243E-08 | 0.136E-08 | 0.647E-09 | 0.369E-09 | 0.251E-09 | 0.188E-09 |
| SSE                | 0.131E-06 | 0.229E-07 | 0.978E-08 | 0.601E-08 | 0.408E-08 | 0.190E-08 | 0.761E-09 | 0.400E-09 | 0.261E-09 | 0.189E-09 |

**RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM MAIN PLANT VENT**  
**AT POPULATION RECEPTORS**  
**D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.773E-08 | 0.905E-09 | 0.266E-09 | 0.136E-09 | 0.795E-10 | 0.293E-10 | 0.894E-11 | 0.396E-11 | 0.249E-11 | 0.183E-11 |
| SSW                | 0.324E-07 | 0.377E-08 | 0.111E-08 | 0.578E-09 | 0.346E-09 | 0.129E-09 | 0.412E-10 | 0.188E-10 | 0.117E-10 | 0.833E-11 |
| SW                 | 0.277E-07 | 0.297E-08 | 0.937E-09 | 0.492E-09 | 0.295E-09 | 0.111E-09 | 0.353E-10 | 0.161E-10 | 0.992E-11 | 0.701E-11 |
| WSW                | 0.281E-07 | 0.307E-08 | 0.950E-09 | 0.495E-09 | 0.296E-09 | 0.111E-09 | 0.361E-10 | 0.167E-10 | 0.105E-10 | 0.757E-11 |
| W                  | 0.310E-07 | 0.325E-08 | 0.101E-08 | 0.534E-09 | 0.322E-09 | 0.122E-09 | 0.402E-10 | 0.189E-10 | 0.121E-10 | 0.868E-11 |
| WNW                | 0.242E-07 | 0.265E-08 | 0.801E-09 | 0.429E-09 | 0.255E-09 | 0.941E-10 | 0.307E-10 | 0.145E-10 | 0.942E-11 | 0.690E-11 |
| NW                 | 0.170E-07 | 0.197E-08 | 0.616E-09 | 0.321E-09 | 0.192E-09 | 0.821E-10 | 0.578E-10 | 0.249E-10 | 0.673E-11 | 0.492E-11 |
| NNW                | 0.193E-07 | 0.207E-08 | 0.619E-09 | 0.335E-09 | 0.214E-09 | 0.166E-09 | 0.558E-10 | 0.227E-10 | 0.123E-10 | 0.511E-11 |
| N                  | 0.884E-08 | 0.116E-08 | 0.354E-09 | 0.193E-09 | 0.132E-09 | 0.782E-10 | 0.248E-10 | 0.101E-10 | 0.544E-11 | 0.339E-11 |
| NNE                | 0.128E-07 | 0.132E-08 | 0.394E-09 | 0.205E-09 | 0.147E-09 | 0.858E-10 | 0.277E-10 | 0.113E-10 | 0.612E-11 | 0.381E-11 |
| NE                 | 0.663E-08 | 0.677E-09 | 0.201E-09 | 0.102E-09 | 0.601E-10 | 0.405E-10 | 0.137E-10 | 0.558E-11 | 0.300E-11 | 0.187E-11 |
| ENE                | 0.876E-08 | 0.917E-09 | 0.276E-09 | 0.140E-09 | 0.829E-10 | 0.506E-10 | 0.189E-10 | 0.703E-11 | 0.372E-11 | 0.231E-11 |
| E                  | 0.112E-07 | 0.107E-08 | 0.315E-09 | 0.159E-09 | 0.951E-10 | 0.367E-10 | 0.134E-10 | 0.616E-11 | 0.375E-11 | 0.253E-11 |
| ESE                | 0.117E-08 | 0.164E-09 | 0.554E-10 | 0.297E-10 | 0.181E-10 | 0.698E-11 | 0.225E-11 | 0.105E-11 | 0.649E-12 | 0.448E-12 |
| SE                 | 0.310E-09 | 0.475E-10 | 0.175E-10 | 0.952E-11 | 0.585E-11 | 0.226E-11 | 0.739E-12 | 0.342E-12 | 0.215E-12 | 0.154E-12 |
| SSE                | 0.821E-09 | 0.935E-10 | 0.274E-10 | 0.138E-10 | 0.817E-11 | 0.299E-11 | 0.920E-12 | 0.413E-12 | 0.264E-12 | 0.196E-12 |

RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 30, 1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 0.60     | 994    | 0.262E-04                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 0.60     | 994    | 0.350E-07               |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 4.50     | 7242   | 0.379E-06                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 4.50     | 7242   | 0.332E-09               |



RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 30, 1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 410      | 125    | 0.534E-03                 |
| N                  | 820      | 250    | 0.163E-03                 |
| WNW                | 1558     | 475    | 0.832E-04                 |
| SW                 | 8202     | 2500   | 0.782E-05                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 410      | 125    | 0.656E-06               |
| N                  | 820      | 250    | 0.374E-06               |
| WNW                | 1558     | 475    | 0.114E-06               |
| SW                 | 8202     | 2500   | 0.638E-08               |



**RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM FUEL BUILDING**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.301E-04 | 0.303E-05 | 0.101E-05 | 0.521E-06 | 0.328E-06 | 0.139E-06 | 0.533E-07 | 0.278E-07 | 0.181E-07 | 0.132E-07 |
| SSW                | 0.390E-04 | 0.384E-05 | 0.128E-05 | 0.655E-06 | 0.410E-06 | 0.172E-06 | 0.654E-07 | 0.337E-07 | 0.218E-07 | 0.157E-07 |
| SW                 | 0.792E-04 | 0.845E-05 | 0.288E-05 | 0.150E-05 | 0.948E-06 | 0.409E-06 | 0.160E-06 | 0.856E-07 | 0.567E-07 | 0.417E-07 |
| WSW                | 0.614E-04 | 0.651E-05 | 0.221E-05 | 0.115E-05 | 0.724E-06 | 0.310E-06 | 0.121E-06 | 0.647E-07 | 0.428E-07 | 0.315E-07 |
| W                  | 0.336E-04 | 0.338E-05 | 0.113E-05 | 0.581E-06 | 0.365E-06 | 0.154E-06 | 0.590E-07 | 0.307E-07 | 0.199E-07 | 0.145E-07 |
| WNW                | 0.365E-04 | 0.357E-05 | 0.118E-05 | 0.606E-06 | 0.379E-06 | 0.158E-06 | 0.598E-07 | 0.308E-07 | 0.199E-07 | 0.144E-07 |
| NW                 | 0.286E-04 | 0.289E-05 | 0.969E-06 | 0.499E-06 | 0.314E-06 | 0.133E-06 | 0.511E-07 | 0.268E-07 | 0.175E-07 | 0.128E-07 |
| NNW                | 0.231E-04 | 0.289E-05 | 0.808E-06 | 0.419E-06 | 0.264E-06 | 0.113E-06 | 0.439E-07 | 0.232E-07 | 0.153E-07 | 0.112E-07 |
| N                  | 0.257E-04 | 0.254E-05 | 0.846E-06 | 0.434E-06 | 0.272E-06 | 0.115E-06 | 0.438E-07 | 0.227E-07 | 0.147E-07 | 0.107E-07 |
| NNE                | 0.346E-04 | 0.865E-05 | 0.124E-05 | 0.644E-06 | 0.407E-06 | 0.175E-06 | 0.685E-07 | 0.365E-07 | 0.241E-07 | 0.177E-07 |
| NE                 | 0.273E-04 | 0.285E-05 | 0.966E-06 | 0.502E-06 | 0.317E-06 | 0.137E-06 | 0.533E-07 | 0.283E-07 | 0.186E-07 | 0.137E-07 |
| ENE                | 0.292E-04 | 0.296E-05 | 0.995E-06 | 0.515E-06 | 0.325E-06 | 0.139E-06 | 0.538E-07 | 0.281E-07 | 0.184E-07 | 0.134E-07 |
| E                  | 0.220E-04 | 0.233E-05 | 0.796E-06 | 0.414E-06 | 0.262E-06 | 0.114E-06 | 0.448E-07 | 0.241E-07 | 0.161E-07 | 0.119E-07 |
| ESE                | 0.230E-04 | 0.246E-05 | 0.842E-06 | 0.440E-06 | 0.279E-06 | 0.121E-06 | 0.478E-07 | 0.257E-07 | 0.171E-07 | 0.126E-07 |
| SE                 | 0.176E-04 | 0.187E-05 | 0.636E-06 | 0.331E-06 | 0.209E-06 | 0.904E-07 | 0.354E-07 | 0.190E-07 | 0.126E-07 | 0.929E-08 |
| SSE                | 0.158E-04 | 0.152E-05 | 0.502E-06 | 0.257E-06 | 0.161E-06 | 0.675E-07 | 0.255E-07 | 0.130E-07 | 0.832E-07 | 0.597E-08 |

**RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM FUEL BUILDING**  
**AT POPULATION RECEPTORS**  
**D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.601E-07 | 0.512E-08 | 0.150E-08 | 0.698E-09 | 0.403E-09 | 0.143E-09 | 0.438E-10 | 0.178E-10 | 0.955E-11 | 0.593E-11 |
| SSW                | 0.801E-07 | 0.683E-08 | 0.200E-08 | 0.931E-09 | 0.537E-09 | 0.190E-09 | 0.583E-10 | 0.237E-10 | 0.127E-10 | 0.791E-11 |
| SW                 | 0.816E-07 | 0.696E-08 | 0.204E-08 | 0.948E-09 | 0.547E-09 | 0.194E-09 | 0.594E-10 | 0.241E-10 | 0.130E-10 | 0.806E-11 |
| WSW                | 0.725E-07 | 0.619E-08 | 0.181E-08 | 0.843E-09 | 0.486E-09 | 0.172E-09 | 0.528E-10 | 0.214E-10 | 0.115E-10 | 0.716E-11 |
| W                  | 0.404E-07 | 0.345E-08 | 0.101E-08 | 0.470E-09 | 0.271E-09 | 0.961E-10 | 0.294E-10 | 0.119E-10 | 0.643E-11 | 0.399E-11 |
| WNW                | 0.495E-07 | 0.422E-08 | 0.124E-08 | 0.575E-09 | 0.332E-09 | 0.118E-09 | 0.360E-10 | 0.146E-10 | 0.787E-11 | 0.489E-11 |
| NW                 | 0.404E-07 | 0.345E-08 | 0.101E-08 | 0.470E-09 | 0.271E-09 | 0.961E-10 | 0.294E-10 | 0.119E-10 | 0.643E-11 | 0.399E-11 |
| NNW                | 0.363E-07 | 0.309E-08 | 0.907E-09 | 0.422E-09 | 0.243E-09 | 0.862E-10 | 0.264E-10 | 0.107E-10 | 0.577E-11 | 0.358E-11 |
| N                  | 0.627E-07 | 0.535E-08 | 0.157E-08 | 0.729E-09 | 0.420E-09 | 0.149E-09 | 0.457E-10 | 0.185E-10 | 0.997E-11 | 0.619E-11 |
| NNE                | 0.517E-07 | 0.442E-08 | 0.129E-08 | 0.602E-09 | 0.347E-09 | 0.123E-09 | 0.377E-10 | 0.153E-10 | 0.823E-11 | 0.511E-11 |
| NE                 | 0.423E-07 | 0.361E-08 | 0.106E-08 | 0.492E-09 | 0.284E-09 | 0.101E-09 | 0.308E-10 | 0.125E-10 | 0.673E-11 | 0.418E-11 |
| ENE                | 0.419E-07 | 0.358E-08 | 0.105E-08 | 0.487E-09 | 0.281E-09 | 0.997E-10 | 0.305E-10 | 0.124E-10 | 0.667E-11 | 0.414E-11 |
| E                  | 0.423E-07 | 0.361E-08 | 0.106E-08 | 0.492E-09 | 0.284E-09 | 0.101E-09 | 0.308E-10 | 0.125E-10 | 0.673E-11 | 0.418E-11 |
| ESE                | 0.298E-07 | 0.255E-08 | 0.746E-09 | 0.347E-09 | 0.200E-09 | 0.709E-10 | 0.217E-10 | 0.882E-11 | 0.475E-11 | 0.295E-11 |
| SE                 | 0.215E-07 | 0.184E-08 | 0.539E-09 | 0.250E-09 | 0.144E-09 | 0.512E-10 | 0.157E-10 | 0.636E-11 | 0.342E-11 | 0.213E-11 |
| SSE                | 0.295E-07 | 0.251E-08 | 0.737E-09 | 0.342E-09 | 0.198E-09 | 0.700E-10 | 0.215E-10 | 0.871E-11 | 0.469E-11 | 0.291E-11 |

RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 31, 1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 0.60     | 994    | 0.242E-04                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 0.60     | 994    | 0.350E-07               |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 4.50     | 7242   | 0.373E-06                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 4.50     | 7242   | 0.332E-09               |

RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 30, 1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 492      | 150    | 0.441E-03                 |
| N                  | 1033     | 315    | 0.104E-03                 |
| WNW                | 1575     | 480    | 0.738E-04                 |
| SW                 | 8202     | 2500   | 0.732E-05                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 492      | 150    | 0.510E-06               |
| N                  | 1033     | 315    | 0.267E-06               |
| WNW                | 1575     | 480    | 0.112E-06               |
| SW                 | 8202     | 2500   | 0.638E-08               |

**RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM RADWASTE BUILDING**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.275E-04 | 0.288E-05 | 0.979E-06 | 0.507E-06 | 0.320E-06 | 0.137E-06 | 0.526E-07 | 0.275E-07 | 0.180E-07 | 0.131E-07 |
| SSW                | 0.355E-04 | 0.369E-05 | 0.125E-05 | 0.642E-06 | 0.404E-06 | 0.170E-06 | 0.649E-07 | 0.335E-07 | 0.217E-07 | 0.157E-07 |
| SW                 | 0.725E-04 | 0.790E-05 | 0.275E-05 | 0.144E-05 | 0.920E-06 | 0.400E-06 | 0.158E-06 | 0.844E-07 | 0.560E-07 | 0.412E-07 |
| WSW                | 0.567E-04 | 0.609E-05 | 0.211E-05 | 0.111E-05 | 0.702E-06 | 0.303E-06 | 0.119E-06 | 0.637E-07 | 0.423E-07 | 0.311E-07 |
| W                  | 0.306E-04 | 0.322E-05 | 0.109E-05 | 0.567E-06 | 0.357E-06 | 0.152E-06 | 0.584E-07 | 0.304E-07 | 0.198E-07 | 0.144E-07 |
| WNW                | 0.334E-04 | 0.344E-05 | 0.116E-05 | 0.594E-06 | 0.373E-06 | 0.156E-06 | 0.593E-07 | 0.306E-07 | 0.198E-07 | 0.143E-07 |
| NW                 | 0.262E-04 | 0.275E-05 | 0.937E-06 | 0.486E-06 | 0.307E-06 | 0.131E-06 | 0.505E-07 | 0.265E-07 | 0.174E-07 | 0.127E-07 |
| NNW                | 0.212E-04 | 0.226E-05 | 0.776E-06 | 0.405E-06 | 0.257E-06 | 0.111E-06 | 0.433E-07 | 0.229E-07 | 0.151E-07 | 0.111E-07 |
| N                  | 0.234E-04 | 0.243E-05 | 0.821E-06 | 0.424E-06 | 0.267E-06 | 0.113E-06 | 0.434E-07 | 0.225E-07 | 0.146E-07 | 0.106E-07 |
| NNE                | 0.317E-04 | 0.342E-05 | 0.118E-05 | 0.622E-06 | 0.395E-06 | 0.171E-06 | 0.674E-07 | 0.360E-07 | 0.238E-07 | 0.175E-07 |
| NE                 | 0.249E-04 | 0.267E-05 | 0.924E-06 | 0.485E-06 | 0.308E-06 | 0.134E-06 | 0.525E-07 | 0.279E-07 | 0.184E-07 | 0.135E-07 |
| ENE                | 0.264E-04 | 0.281E-05 | 0.960E-06 | 0.501E-06 | 0.317E-06 | 0.137E-06 | 0.532E-07 | 0.278E-07 | 0.182E-07 | 0.132E-07 |
| E                  | 0.204E-04 | 0.216E-05 | 0.754E-06 | 0.397E-06 | 0.253E-06 | 0.111E-06 | 0.439E-07 | 0.237E-07 | 0.158E-07 | 0.117E-07 |
| ESE                | 0.211E-04 | 0.229E-05 | 0.800E-06 | 0.422E-06 | 0.269E-06 | 0.118E-06 | 0.469E-07 | 0.253E-07 | 0.168E-07 | 0.124E-07 |
| SE                 | 0.162E-04 | 0.174E-05 | 0.605E-06 | 0.318E-06 | 0.203E-06 | 0.882E-07 | 0.348E-07 | 0.187E-07 | 0.124E-07 | 0.917E-08 |
| SSE                | 0.143E-04 | 0.147E-05 | 0.491E-06 | 0.253E-06 | 0.158E-06 | 0.668E-07 | 0.253E-07 | 0.129E-07 | 0.828E-08 | 0.595E-08 |

RIVER BEND STATION THIRD QUARTER (JULY 1, 1992 TO SEPTEMBER 31, 1992)  
CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT POPULATION RECEPTORS  
D/Q VALUES (SEC/M')

DISTANCE IN MILES

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.601E-07 | 0.512E-08 | 0.150E-08 | 0.698E-09 | 0.403E-09 | 0.143E-09 | 0.438E-10 | 0.178E-10 | 0.955E-11 | 0.593E-11 |
| SSW                | 0.801E-07 | 0.683E-08 | 0.200E-08 | 0.931E-09 | 0.537E-09 | 0.190E-09 | 0.583E-10 | 0.237E-10 | 0.127E-10 | 0.791E-11 |
| SW                 | 0.816E-07 | 0.696E-08 | 0.204E-08 | 0.948E-09 | 0.547E-09 | 0.194E-09 | 0.594E-10 | 0.241E-10 | 0.130E-10 | 0.806E-11 |
| WSW                | 0.725E-07 | 0.619E-08 | 0.181E-08 | 0.843E-09 | 0.486E-09 | 0.172E-09 | 0.528E-10 | 0.214E-10 | 0.115E-10 | 0.716E-11 |
| W                  | 0.404E-07 | 0.345E-08 | 0.101E-08 | 0.470E-09 | 0.271E-09 | 0.961E-10 | 0.294E-10 | 0.119E-10 | 0.643E-11 | 0.399E-11 |
| WNW                | 0.495E-07 | 0.422E-08 | 0.124E-08 | 0.575E-09 | 0.332E-09 | 0.118E-09 | 0.360E-10 | 0.146E-10 | 0.787E-11 | 0.489E-11 |
| NW                 | 0.404E-07 | 0.345E-08 | 0.101E-08 | 0.470E-09 | 0.271E-09 | 0.961E-10 | 0.294E-10 | 0.119E-10 | 0.643E-11 | 0.399E-11 |
| NNW                | 0.368E-07 | 0.309E-08 | 0.907E-09 | 0.422E-09 | 0.243E-09 | 0.862E-10 | 0.264E-10 | 0.107E-10 | 0.577E-11 | 0.358E-11 |
| N                  | 0.627E-07 | 0.535E-08 | 0.157E-08 | 0.729E-09 | 0.420E-09 | 0.149E-09 | 0.457E-10 | 0.185E-10 | 0.997E-11 | 0.619E-11 |
| NNE                | 0.517E-07 | 0.442E-08 | 0.129E-08 | 0.602E-09 | 0.347E-09 | 0.123E-09 | 0.377E-10 | 0.153E-10 | 0.823E-11 | 0.511E-11 |
| NE                 | 0.423E-07 | 0.361E-08 | 0.106E-08 | 0.492E-09 | 0.284E-09 | 0.101E-09 | 0.308E-10 | 0.125E-10 | 0.673E-11 | 0.418E-11 |
| ENE                | 0.419E-07 | 0.358E-08 | 0.105E-08 | 0.487E-09 | 0.281E-09 | 0.997E-10 | 0.305E-10 | 0.124E-10 | 0.667E-11 | 0.414E-11 |
| E                  | 0.423E-07 | 0.361E-08 | 0.106E-08 | 0.492E-09 | 0.284E-09 | 0.101E-09 | 0.308E-10 | 0.125E-10 | 0.673E-11 | 0.418E-11 |
| ESE                | 0.298E-07 | 0.255E-08 | 0.746E-09 | 0.347E-09 | 0.200E-09 | 0.709E-10 | 0.217E-10 | 0.887E-11 | 0.475E-11 | 0.295E-11 |
| SE                 | 0.215E-07 | 0.184E-08 | 0.539E-09 | 0.250E-09 | 0.144E-09 | 0.512E-10 | 0.157E-10 | 0.636E-11 | 0.342E-11 | 0.213E-11 |
| SSE                | 0.295E-07 | 0.251E-08 | 0.737E-09 | 0.342E-09 | 0.198E-09 | 0.700E-10 | 0.215E-10 | 0.871E-11 | 0.469E-11 | 0.291E-11 |

RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 0.60     | 994    | 0.499E-05                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 0.60     | 994    | 0.283E-07               |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | MILES    | METERS |                           |
| WNW                | 4.50     | 7242   | 0.152E-06                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | MILES    | METERS |                         |
| WNW                | 4.50     | 7242   | 0.386E-09               |



RIVER BEND STATION FOURTH QUARTER (OCTOBER 1,1992 TO DECEMBER 31,1992)

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 377      | 115    | 0.926E-04                 |
| N                  | 902      | 275    | 0.103E-04                 |
| WNW                | 1640     | 500    | 0.147E-04                 |
| SW                 | 8202     | 2500   | 0.966E-06                 |

CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 377      | 115    | 0.438E-07               |
| N                  | 902      | 275    | 0.374E-07               |
| WNW                | 1640     | 500    | 0.711E-07               |
| SW                 | 8202     | 2500   | 0.279E-08               |



**RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM MAIN PLANT VENT**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.360E-05 | 0.527E-06 | 0.200E-06 | 0.121E-06 | 0.804E-07 | 0.386E-07 | 0.163E-07 | 0.894E-08 | 0.601E-08 | 0.447E-08 |
| SSW                | 0.414E-05 | 0.547E-06 | 0.204E-06 | 0.122E-06 | 0.823E-07 | 0.397E-07 | 0.171E-07 | 0.948E-08 | 0.644E-08 | 0.482E-08 |
| SW                 | 0.866E-05 | 0.961E-06 | 0.365E-06 | 0.216E-06 | 0.145E-06 | 0.685E-07 | 0.291E-07 | 0.161E-07 | 0.109E-07 | 0.818E-08 |
| WSW                | 0.539E-05 | 0.649E-06 | 0.252E-06 | 0.150E-06 | 0.100E-06 | 0.480E-07 | 0.206E-07 | 0.114E-07 | 0.773E-08 | 0.579E-08 |
| W                  | 0.232E-05 | 0.333E-06 | 0.133E-06 | 0.803E-07 | 0.543E-07 | 0.259E-07 | 0.108E-07 | 0.581E-08 | 0.386E-08 | 0.284E-08 |
| WNW                | 0.695E-05 | 0.919E-06 | 0.342E-06 | 0.237E-06 | 0.152E-06 | 0.621E-07 | 0.254E-07 | 0.135E-07 | 0.893E-08 | 0.654E-08 |
| NW                 | 0.716E-05 | 0.975E-06 | 0.369E-06 | 0.217E-06 | 0.146E-06 | 0.663E-07 | 0.278E-07 | 0.143E-07 | 0.806E-08 | 0.587E-08 |
| NNW                | 0.224E-05 | 0.370E-06 | 0.145E-06 | 0.947E-07 | 0.620E-07 | 0.303E-07 | 0.125E-07 | 0.648E-08 | 0.421E-08 | 0.249E-08 |
| N                  | 0.183E-05 | 0.324E-06 | 0.142E-06 | 0.873E-07 | 0.582E-07 | 0.291E-07 | 0.111E-07 | 0.573E-08 | 0.371E-08 | 0.269E-08 |
| NNE                | 0.848E-06 | 0.191E-06 | 0.914E-07 | 0.571E-07 | 0.398E-07 | 0.232E-07 | 0.916E-08 | 0.475E-08 | 0.309E-08 | 0.224E-08 |
| NE                 | 0.973E-06 | 0.149E-06 | 0.704E-07 | 0.393E-07 | 0.289E-07 | 0.174E-07 | 0.818E-08 | 0.436E-08 | 0.288E-08 | 0.212E-08 |
| ENE                | 0.300E-05 | 0.357E-06 | 0.141E-06 | 0.796E-07 | 0.530E-07 | 0.407E-07 | 0.190E-07 | 0.106E-07 | 0.714E-08 | 0.530E-08 |
| E                  | 0.303E-05 | 0.383E-06 | 0.151E-06 | 0.861E-07 | 0.582E-07 | 0.361E-07 | 0.176E-07 | 0.104E-07 | 0.682E-08 | 0.507E-08 |
| ESE                | 0.135E-05 | 0.199E-06 | 0.809E-07 | 0.472E-07 | 0.345E-07 | 0.178E-07 | 0.762E-08 | 0.375E-08 | 0.253E-08 | 0.188E-08 |
| SE                 | 0.251E-05 | 0.368E-06 | 0.142E-06 | 0.793E-07 | 0.537E-07 | 0.260E-07 | 0.114E-07 | 0.638E-08 | 0.436E-08 | 0.328E-08 |
| SSE                | 0.270E-05 | 0.373E-06 | 0.152E-06 | 0.923E-07 | 0.626E-07 | 0.303E-07 | 0.131E-07 | 0.727E-08 | 0.493E-08 | 0.369E-08 |

RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)  
CONTINUOUS RELEASE FROM MAIN PLANT VENT  
AT POPULATION RECEPTORS  
D/Q VALUES (SEC/M<sup>3</sup>)

DISTANCE IN MILES

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.219E-07 | 0.273E-08 | 0.832E-09 | 0.434E-09 | 0.259E-09 | 0.955E-10 | 0.296E-10 | 0.131E-10 | 0.789E-11 | 0.550E-11 |
| SSW                | 0.178E-07 | 0.230E-08 | 0.688E-09 | 0.357E-09 | 0.213E-09 | 0.786E-10 | 0.241E-10 | 0.106E-10 | 0.648E-11 | 0.459E-11 |
| SW                 | 0.261E-07 | 0.292E-08 | 0.880E-09 | 0.452E-09 | 0.268E-09 | 0.986E-10 | 0.304E-10 | 0.135E-10 | 0.831E-11 | 0.598E-11 |
| WSW                | 0.213E-07 | 0.242E-08 | 0.755E-09 | 0.392E-09 | 0.233E-09 | 0.862E-10 | 0.266E-10 | 0.118E-10 | 0.720E-11 | 0.514E-11 |
| W                  | 0.123E-07 | 0.137E-08 | 0.420E-09 | 0.218E-09 | 0.130E-09 | 0.482E-10 | 0.151E-10 | 0.675E-11 | 0.421E-11 | 0.306E-11 |
| WNW                | 0.389E-07 | 0.432E-08 | 0.127E-08 | 0.655E-09 | 0.386E-09 | 0.139E-09 | 0.428E-10 | 0.188E-10 | 0.114E-10 | 0.805E-11 |
| NW                 | 0.403E-07 | 0.420E-08 | 0.123E-08 | 0.618E-09 | 0.367E-09 | 0.190E-09 | 0.647E-10 | 0.268E-10 | 0.103E-10 | 0.715E-11 |
| NNW                | 0.133E-07 | 0.159E-08 | 0.477E-09 | 0.255E-09 | 0.158E-09 | 0.798E-10 | 0.272E-10 | 0.110E-10 | 0.589E-11 | 0.298E-11 |
| N                  | 0.117E-07 | 0.146E-08 | 0.443E-09 | 0.236E-09 | 0.155E-09 | 0.786E-10 | 0.254E-10 | 0.103E-10 | 0.556E-11 | 0.347E-11 |
| NNE                | 0.508E-08 | 0.720E-09 | 0.227E-09 | 0.121E-09 | 0.820E-10 | 0.452E-10 | 0.149E-10 | 0.606E-11 | 0.326E-11 | 0.202E-11 |
| NE                 | 0.291E-08 | 0.425E-09 | 0.130E-09 | 0.660E-10 | 0.401E-10 | 0.283E-10 | 0.967E-11 | 0.393E-11 | 0.212E-11 | 0.131E-11 |
| ENE                | 0.499E-08 | 0.664E-09 | 0.204E-09 | 0.103E-09 | 0.606E-10 | 0.468E-10 | 0.160E-10 | 0.634E-10 | 0.344E-11 | 0.214E-11 |
| E                  | 0.113E-07 | 0.134E-08 | 0.407E-09 | 0.206E-09 | 0.123E-09 | 0.671E-10 | 0.315E-10 | 0.112E-10 | 0.614E-11 | 0.388E-11 |
| ESE                | 0.715E-08 | 0.799E-09 | 0.243E-09 | 0.124E-09 | 0.742E-10 | 0.273E-10 | 0.856E-11 | 0.393E-11 | 0.244E-11 | 0.174E-11 |
| SE                 | 0.996E-08 | 0.135E-08 | 0.408E-09 | 0.207E-09 | 0.123E-09 | 0.450E-10 | 0.136E-10 | 0.591E-11 | 0.360E-11 | 0.257E-11 |
| SSE                | 0.139E-07 | 0.189E-08 | 0.602E-09 | 0.315E-09 | 0.188E-09 | 0.689E-10 | 0.210E-10 | 0.913E-11 | 0.541E-11 | 0.373E-11 |

RIVER BEND STATION FOURTH QUARTER (OCTOBER 1,1992 TO DECEMBER 31,1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 0.60            | 994           | 0.255E-04                              |

CONTINUOUS RELEASE FROM FUEL BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 0.60            | 994           | 0.428E-07                            |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 4.50            | 7242          | 0.405E-06                              |

CONTINUOUS RELEASE FROM FUEL BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 4.50            | 7242          | 0.405E-09                            |

RIVER BEND STATION FOURTH QUARTER (OCTOBER 1,1992 TO DECEMBER 31,1992)

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 410      | 125    | 0.443E-03                 |
| N                  | 820      | 250    | 0.826E-04                 |
| WNW                | 1558     | 475    | 0.807E-04                 |
| SW                 | 8202     | 2500   | 0.397E-05                 |

CONTINUOUS RELEASE FROM FUEL BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 410      | 125    | 0.457E-06               |
| N                  | 820      | 250    | 0.216E-06               |
| WNW                | 1558     | 475    | 0.139E-06               |
| SW                 | 8202     | 2500   | 0.504E-08               |

**RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM FUEL BUILDING**  
**AT POPULATION RECEPTORS**  
**X/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.363E-04 | 0.394E-05 | 0.135E-05 | 0.700E-06 | 0.443E-06 | 0.192E-06 | 0.752E-07 | 0.404E-07 | 0.269E-07 | 0.199E-07 |
| SSW                | 0.460E-04 | 0.504E-05 | 0.173E-05 | 0.901E-06 | 0.571E-06 | 0.248E-06 | 0.978E-07 | 0.529E-07 | 0.353E-07 | 0.261E-07 |
| SW                 | 0.391E-04 | 0.428E-05 | 0.147E-05 | 0.767E-06 | 0.486E-06 | 0.211E-06 | 0.834E-07 | 0.450E-07 | 0.301E-07 | 0.222E-07 |
| WSW                | 0.420E-04 | 0.474E-05 | 0.154E-05 | 0.859E-06 | 0.546E-06 | 0.239E-06 | 0.952E-07 | 0.519E-07 | 0.348E-07 | 0.258E-07 |
| W                  | 0.476E-04 | 0.521E-05 | 0.179E-05 | 0.932E-06 | 0.591E-06 | 0.257E-06 | 0.101E-06 | 0.546E-07 | 0.364E-07 | 0.269E-07 |
| WNW                | 0.350E-04 | 0.366E-05 | 0.124E-05 | 0.642E-06 | 0.405E-06 | 0.174E-06 | 0.676E-07 | 0.359E-07 | 0.236E-07 | 0.173E-07 |
| NW                 | 0.528E-04 | 0.537E-05 | 0.180E-05 | 0.930E-06 | 0.585E-06 | 0.248E-06 | 0.953E-07 | 0.499E-07 | 0.327E-07 | 0.238E-07 |
| NNW                | 0.202E-04 | 0.208E-05 | 0.700E-06 | 0.361E-06 | 0.227E-06 | 0.969E-07 | 0.374E-07 | 0.197E-07 | 0.130E-07 | 0.948E-08 |
| N                  | 0.122E-04 | 0.123E-05 | 0.412E-06 | 0.211E-05 | 0.132E-06 | 0.553E-07 | 0.210E-07 | 0.110E-07 | 0.722E-08 | 0.527E-08 |
| NNE                | 0.107E-04 | 0.112E-05 | 0.381E-06 | 0.197E-06 | 0.124E-06 | 0.533E-07 | 0.207E-07 | 0.110E-07 | 0.724E-08 | 0.531E-08 |
| NE                 | 0.102E-04 | 0.106E-05 | 0.358E-06 | 0.186E-06 | 0.117E-06 | 0.505E-07 | 0.196E-07 | 0.103E-07 | 0.676E-08 | 0.494E-08 |
| ENE                | 0.104E-04 | 0.107E-05 | 0.362E-06 | 0.187E-06 | 0.118E-06 | 0.507E-07 | 0.196E-07 | 0.103E-07 | 0.675E-08 | 0.492E-08 |
| E                  | 0.192E-04 | 0.207E-05 | 0.706E-06 | 0.368E-06 | 0.233E-06 | 0.101E-06 | 0.396E-07 | 0.213E-07 | 0.142E-07 | 0.105E-07 |
| ESE                | 0.319E-04 | 0.364E-05 | 0.126E-05 | 0.664E-06 | 0.424E-06 | 0.186E-06 | 0.745E-07 | 0.408E-07 | 0.274E-07 | 0.204E-07 |
| SE                 | 0.339E-04 | 0.377E-05 | 0.130E-05 | 0.679E-06 | 0.432E-06 | 0.188E-06 | 0.746E-07 | 0.405E-07 | 0.271E-07 | 0.201E-07 |
| SSE                | 0.254E-04 | 0.274E-05 | 0.935E-06 | 0.486E-06 | 0.307E-06 | 0.133E-06 | 0.519E-07 | 0.278E-07 | 0.184E-07 | 0.137E-07 |

**RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM FUEL BUILDING**  
**AT POPULATION RECEPTORS**  
**D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.712E-07 | 0.607E-08 | 0.178E-08 | 0.827E-09 | 0.477E-09 | 0.169E-09 | 0.519E-10 | 0.210E-10 | 0.113E-10 | 0.703E-11 |
| SSW                | 0.752E-07 | 0.650E-08 | 0.191E-08 | 0.886E-09 | 0.511E-09 | 0.181E-09 | 0.555E-10 | 0.225E-10 | 0.121E-10 | 0.753E-11 |
| SW                 | 0.644E-07 | 0.549E-08 | 0.161E-08 | 0.748E-09 | 0.432E-09 | 0.153E-09 | 0.469E-10 | 0.190E-10 | 0.102E-10 | 0.636E-11 |
| WSW                | 0.525E-07 | 0.448E-08 | 0.131E-08 | 0.610E-09 | 0.352E-09 | 0.125E-09 | 0.382E-10 | 0.155E-10 | 0.835E-11 | 0.519E-11 |
| W                  | 0.543E-07 | 0.463E-08 | 0.136E-08 | 0.631E-09 | 0.364E-09 | 0.129E-09 | 0.395E-10 | 0.160E-10 | 0.863E-11 | 0.536E-11 |
| WNW                | 0.604E-07 | 0.515E-08 | 0.151E-08 | 0.702E-09 | 0.405E-09 | 0.144E-09 | 0.440E-10 | 0.179E-10 | 0.961E-11 | 0.597E-11 |
| NW                 | 0.118E-06 | 0.101E-07 | 0.295E-08 | 0.137E-08 | 0.791E-09 | 0.280E-09 | 0.859E-10 | 0.349E-10 | 0.188E-10 | 0.116E-10 |
| NNW                | 0.503E-07 | 0.429E-08 | 0.126E-08 | 0.585E-09 | 0.338E-09 | 0.120E-09 | 0.367E-10 | 0.149E-10 | 0.801E-11 | 0.497E-11 |
| N                  | 0.363E-07 | 0.310E-08 | 0.908E-09 | 0.422E-09 | 0.244E-09 | 0.863E-10 | 0.265E-10 | 0.107E-10 | 0.578E-11 | 0.359E-11 |
| NNE                | 0.198E-07 | 0.169E-08 | 0.495E-09 | 0.230E-09 | 0.133E-09 | 0.470E-10 | 0.144E-10 | 0.585E-11 | 0.315E-11 | 0.195E-11 |
| NE                 | 0.133E-07 | 0.114E-08 | 0.333E-09 | 0.155E-09 | 0.892E-10 | 0.316E-10 | 0.969E-11 | 0.393E-11 | 0.212E-11 | 0.131E-11 |
| ENE                | 0.137E-07 | 0.117E-08 | 0.342E-09 | 0.159E-09 | 0.916E-10 | 0.325E-10 | 0.995E-11 | 0.404E-11 | 0.217E-11 | 0.135E-11 |
| E                  | 0.295E-07 | 0.252E-08 | 0.737E-09 | 0.343E-09 | 0.198E-09 | 0.701E-10 | 0.215E-10 | 0.871E-11 | 0.469E-11 | 0.291E-11 |
| ESE                | 0.306E-07 | 0.261E-08 | 0.764E-09 | 0.355E-09 | 0.205E-09 | 0.726E-10 | 0.223E-10 | 0.903E-11 | 0.486E-11 | 0.302E-11 |
| SE                 | 0.439E-07 | 0.374E-08 | 0.110E-08 | 0.510E-09 | 0.294E-09 | 0.104E-09 | 0.320E-10 | 0.130E-10 | 0.698E-11 | 0.433E-11 |
| SSE                | 0.485E-07 | 0.414E-08 | 0.121E-08 | 0.564E-09 | 0.325E-09 | 0.115E-09 | 0.354E-10 | 0.143E-10 | 0.772E-11 | 0.479E-11 |

RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 0.60            | 994           | 0.230E-04                              |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
VEGETABLE GARDEN D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 0.60            | 994           | 0.428E-07                            |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK X/Q VALUES (SEC/M<sup>3</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>X/Q</u><br><u>SEC/M<sup>3</sup></u> |
|----------------------------------|-----------------|---------------|--|
|                                  | <u>MILES</u>    | <u>METERS</u> |  |
| WNW                              | 4.50            | 7242          | 0.394E-06                              |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
COW MILK D/Q VALUES (1/M<sup>2</sup>)

| <u>RECEPTOR</u><br><u>SECTOR</u> | <u>DISTANCE</u> |               | <u>D/Q</u><br><u>1/M<sup>2</sup></u> |
|----------------------------------|-----------------|---------------|--------------------------------------|
|                                  | <u>MILES</u>    | <u>METERS</u> |                                      |
| WNW                              | 4.50            | 7242          | 0.405E-09                            |



RIVER BEND STATION FOURTH QUARTER (OCTOBER 1,1992 TO DECEMBER 31,1992)

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
X/Q VALUES (SEC/M<sup>3</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | X/Q<br>SEC/M <sup>3</sup> |
|--------------------|----------|--------|---------------------------|
|                    | FEET     | METERS |                           |
| ENE                | 492      | 150    | 0.158E-03                 |
| N                  | 1033     | 315    | 0.521E-04                 |
| WNW                | 1575     | 480    | 0.739E-04                 |
| SW                 | 8202     | 2500   | 0.367E-05                 |

CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT RECEPTORS WITHIN THE SITE BOUNDARY  
D/Q VALUES (1/M<sup>2</sup>)

| RECEPTOR<br>SECTOR | DISTANCE |        | D/Q<br>1/M <sup>2</sup> |
|--------------------|----------|--------|-------------------------|
|                    | FEET     | METERS |                         |
| ENE                | 492      | 150    | 0.166E-06               |
| N                  | 1033     | 315    | 0.155E-06               |
| WNW                | 1575     | 480    | 0.137E-06               |
| SW                 | 8202     | 2500   | 0.504E-08               |



RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)  
CONTINUOUS RELEASE FROM RADWASTE BUILDING  
AT POPULATION RECEPTORS  
X/Q VALUES (SEC/M<sup>3</sup>)

DISTANCE IN MILES

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.338E-04 | 0.365E-05 | 0.127E-05 | 0.670E-06 | 0.427E-06 | 0.187E-06 | 0.737E-07 | 0.397E-07 | 0.265E-07 | 0.196E-07 |
| SSW                | 0.427E-04 | 0.465E-05 | 0.163E-05 | 0.862E-06 | 0.550E-06 | 0.241E-06 | 0.959E-07 | 0.519E-07 | 0.347E-07 | 0.257E-07 |
| SW                 | 0.362E-04 | 0.395E-05 | 0.139E-05 | 0.733E-06 | 0.468E-06 | 0.205E-06 | 0.817E-07 | 0.443E-07 | 0.296E-07 | 0.219E-07 |
| WSW                | 0.391E-04 | 0.433E-05 | 0.154E-05 | 0.817E-06 | 0.524E-06 | 0.232E-06 | 0.931E-07 | 0.509E-07 | 0.342E-07 | 0.254E-07 |
| W                  | 0.439E-04 | 0.482E-05 | 0.169E-05 | 0.893E-06 | 0.571E-06 | 0.250E-06 | 0.994E-07 | 0.537E-07 | 0.358E-07 | 0.265E-07 |
| WNW                | 0.321E-04 | 0.343E-05 | 0.119E-05 | 0.621E-06 | 0.394E-06 | 0.170E-06 | 0.666E-07 | 0.354E-07 | 0.233E-07 | 0.171E-07 |
| NW                 | 0.484E-04 | 0.510E-05 | 0.174E-05 | 0.904E-06 | 0.571E-06 | 0.244E-06 | 0.941E-07 | 0.494E-07 | 0.323E-07 | 0.236E-07 |
| NNW                | 0.186E-04 | 0.196E-05 | 0.672E-06 | 0.350E-06 | 0.221E-06 | 0.949E-07 | 0.368E-07 | 0.195E-07 | 0.128E-07 | 0.938E-08 |
| N                  | 0.114E-04 | 0.117E-05 | 0.397E-06 | 0.204E-06 | 0.128E-06 | 0.542E-07 | 0.207E-07 | 0.109E-07 | 0.714E-08 | 0.522E-08 |
| NNE                | 0.988E-05 | 0.106E-05 | 0.364E-06 | 0.190E-06 | 0.121E-06 | 0.521E-07 | 0.203E-07 | 0.108E-07 | 0.715E-08 | 0.525E-08 |
| NE                 | 0.925E-05 | 0.997E-06 | 0.344E-06 | 0.180E-06 | 0.114E-06 | 0.495E-07 | 0.193E-07 | 0.102E-07 | 0.669E-08 | 0.489E-08 |
| ENE                | 0.946E-05 | 0.101E-05 | 0.348E-06 | 0.182E-06 | 0.115E-06 | 0.497E-07 | 0.193E-07 | 0.102E-07 | 0.668E-08 | 0.488E-08 |
| E                  | 0.178E-04 | 0.192E-05 | 0.669E-06 | 0.352E-06 | 0.224E-06 | 0.982E-07 | 0.389E-07 | 0.209E-07 | 0.140E-07 | 0.103E-07 |
| ESE                | 0.295E-04 | 0.332E-05 | 0.118E-05 | 0.631E-06 | 0.406E-06 | 0.180E-06 | 0.728E-07 | 0.400E-07 | 0.269E-07 | 0.200E-07 |
| SE                 | 0.314E-04 | 0.347E-05 | 0.122E-05 | 0.648E-06 | 0.415E-06 | 0.183E-06 | 0.730E-07 | 0.397E-07 | 0.266E-07 | 0.197E-07 |
| SSE                | 0.236E-04 | 0.254E-05 | 0.886E-06 | 0.465E-06 | 0.296E-06 | 0.129E-06 | 0.509E-07 | 0.274E-07 | 0.182E-07 | 0.135E-07 |

**RIVER BEND STATION FOURTH QUARTER (OCTOBER 1, 1992 TO DECEMBER 31, 1992)**  
**CONTINUOUS RELEASE FROM RADWASTE BUILDING**  
**AT POPULATION RECEPTORS**  
**D/Q VALUES (SEC/M<sup>3</sup>)**

**DISTANCE IN MILES**

| RECEPTOR<br>SECTOR | 0.500     | 1.500     | 2.500     | 3.500     | 4.500     | 7.500     | 15.00     | 25.00     | 35.00     | 45.00     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S                  | 0.712E-07 | 0.607E-08 | 0.178E-08 | 0.827E-09 | 0.477E-09 | 0.169E-09 | 0.519E-10 | 0.210E-10 | 0.113E-10 | 0.703E-11 |
| SSW                | 0.752E-07 | 0.650E-08 | 0.191E-08 | 0.886E-09 | 0.511E-09 | 0.181E-09 | 0.555E-10 | 0.225E-10 | 0.121E-10 | 0.753E-11 |
| SW                 | 0.644E-07 | 0.549E-08 | 0.161E-08 | 0.748E-09 | 0.432E-09 | 0.153E-09 | 0.469E-10 | 0.190E-10 | 0.102E-10 | 0.636E-11 |
| WSW                | 0.525E-07 | 0.448E-08 | 0.131E-08 | 0.610E-09 | 0.352E-09 | 0.125E-09 | 0.382E-10 | 0.155E-10 | 0.835E-11 | 0.519E-11 |
| W                  | 0.543E-07 | 0.463E-08 | 0.136E-08 | 0.631E-09 | 0.364E-09 | 0.129E-09 | 0.395E-10 | 0.160E-10 | 0.863E-11 | 0.536E-11 |
| WNW                | 0.604E-07 | 0.515E-08 | 0.151E-08 | 0.702E-09 | 0.405E-09 | 0.144E-09 | 0.440E-10 | 0.179E-10 | 0.961E-11 | 0.597E-11 |
| NW                 | 0.118E-06 | 0.101E-07 | 0.295E-08 | 0.137E-08 | 0.791E-09 | 0.280E-09 | 0.859E-10 | 0.349E-10 | 0.188E-10 | 0.116E-10 |
| NNW                | 0.503E-07 | 0.429E-08 | 0.126E-08 | 0.585E-09 | 0.338E-09 | 0.120E-09 | 0.367E-10 | 0.149E-10 | 0.801E-11 | 0.497E-11 |
| N                  | 0.363E-07 | 0.310E-08 | 0.908E-09 | 0.422E-09 | 0.244E-09 | 0.863E-10 | 0.265E-10 | 0.107E-10 | 0.578E-11 | 0.359E-11 |
| NNE                | 0.198E-07 | 0.169E-08 | 0.495E-09 | 0.230E-09 | 0.133E-09 | 0.470E-10 | 0.144E-10 | 0.585E-11 | 0.315E-11 | 0.195E-11 |
| NE                 | 0.133E-07 | 0.114E-08 | 0.333E-09 | 0.155E-09 | 0.892E-10 | 0.316E-10 | 0.969E-11 | 0.393E-11 | 0.212E-11 | 0.131E-11 |
| ENE                | 0.137E-07 | 0.117E-08 | 0.342E-09 | 0.159E-09 | 0.916E-10 | 0.325E-10 | 0.995E-11 | 0.404E-11 | 0.217E-11 | 0.135E-11 |
| E                  | 0.295E-07 | 0.252E-08 | 0.737E-09 | 0.343E-09 | 0.198E-09 | 0.701E-10 | 0.215E-10 | 0.871E-11 | 0.469E-11 | 0.291E-11 |
| ESE                | 0.306E-07 | 0.261E-08 | 0.764E-09 | 0.355E-09 | 0.205E-09 | 0.726E-10 | 0.223E-10 | 0.903E-11 | 0.486E-11 | 0.302E-11 |
| SE                 | 0.439E-07 | 0.374E-08 | 0.110E-08 | 0.510E-09 | 0.294E-09 | 0.104E-09 | 0.320E-10 | 0.130E-10 | 0.698E-11 | 0.433E-11 |
| SSE                | 0.485E-07 | 0.414E-08 | 0.121E-08 | 0.564E-09 | 0.325E-09 | 0.115E-09 | 0.354E-10 | 0.143E-10 | 0.772E-11 | 0.479E-11 |