

CALCULATION COVER SHEET
For Instructions See
KP-C233Title: Tornado Frequency Calculation For Station Blackout Coping AnalysisSafety-Related: ☒ yes ☐ no *JP*Calculation Package Number: SR - 88 - 001 - Rev 0

Statement of Calculation:

This package documents the review of tornado data for Wolf Creek and the determination of an annual expected frequency of tornadoes of intensity levels F2 and greater per square mile.

Prepared by: Michael D. Hall 10/12/88
Signature and Date

If Safety-Related complete the following section.

Reviewed by: Vernon P. LuckertDate: 10/12/88Approved by: Tim SmithDate: 10/13/889203310193 920324
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CALCULATION WORKSHEET

Nuclear Services Division

TABLE OF CONTENTS

| | |
|--|--------|
| REFERENCES | Page 2 |
| TORNADO FREQUENCY SUMMARY | 3 |
| I. TORNADO FREQUENCY FOR THE STATE OF KANSAS | 5 |
| II. TORNADO FREQUENCY FOR THE 5° BOX | 7 |
| III. TORNADO FREQUENCY FOR REGION AROUND BURLINGTON | 8 |
| APPENDIX A: NRC TORNADO DATA PROVIDED IN NUMARC 87-00 | A-1 |
| APPENDIX B: STATE OF KANSAS TORNADO DATA PROVIDED IN NUREG/CR-4461 | B-1 |
| APPENDIX C: 5° BOX TORNADO DATA PROVIDED IN NUREG/CR-4461 | C-1 |
| APPENDIX D: TORNADO DATA FOR REGION AROUND BURLINGTON, KANSAS PROVIDED BY NATIONAL SEVERE STORMS FORECAST CENTER | D-1 |

PREPARED BY _____
 DATE _____

CALCULATION
 PACKAGE NO. SR-88 CCR Rev. D
 PAGE 1 OF 9



CALCULATION WORKSHEET

Nuclear Services Division

REFERENCES

1. Guidelines and Technical Bases for NUMARC Initiatives Addressing Station Blackout at Light Water Reactors, NUMARC 87-00, November, 1987.
2. Tornado Climatology of the Contiguous United States, NUREG/CR-4461, PNL-5677 May, 1986
3. National Severe Storms Forecast Center Computer Printout "TORPLOT" for Tornadoes within 125 Nautical Miles of Burlington, Kansas, September 8, 1988, L. Grenier.

PREPARED BY _____

DATE _____

CALCULATION

PACKAGE NO. SR-88-001 Rev. CPAGE 2OF 9



CALCULATION WORKSHEET

Nuclear Services Division

TORNADO FREQUENCY SUMMARY

NUMARC 87-00, "Guidelines and Technical Bases for NUMARC Initiatives Addressing Station Blackout at Light Water Reactors", provided a value for the expected frequency of "F2+" tornadoes per square mile for Wolf Creek of 0.0003815.

Using data provided in NUREG/CR-4461, "Tornado Climatology of the Contiguous United States," and data provided by the National Severe Storms Forecast Center, other values were calculated for Wolf Creek for the expected frequency of "F2+" tornadoes per square mile. These values are shown in the following table.

PREPARED BY _____
DATE _____

CALCULATION
PACKAGE NO. SR-88-001 Rev. 0
PAGE 3 OF 9



CALCULATION WORKSHEET Nuclear Services Division

| REGION | AREA OF REGION (m.le ²) | NUMBER OF YEARS OF DATA | NUMBER OF TORNADO EVENTS OF INTENSITY OF $\geq F_2$ | ANNUAL FREQUENCY (PER MILE ²) |
|---|---|----------------------------|---|---|
| STATE OF KANSAS | 82264 | 30 (1954-1983) | 559 | 0.0002265 |
| 5° LATITUDE- LONGITUDE BOX CENTERED ON 37.5° NORTH 97.5° WEST | 94663.8 | 30 (1954-1983) * | 932 | 0.0003282 |
| 125 NAUTICAL MILE RADIUS AROUND BURLINGTON | 64918.2 | 36 (1950-1987) | 471 | 0.0001909 |
| 50 NAUTICAL MILE RADIUS AROUND Burlington | 10386.9 | (38) (1950-1987) | 88 | 0.0002236 |

PREPARED BY _____
DATE _____

CALCULATION
PACKAGE NO. SR-88-001-Rev. 0
PAGE 4 OF 7



CALCULATION WORKSHEET

Nuclear Services Division

I. Tornado Frequency for the state of Kansas

On Page C.27 of NUREG/CR-4461, "Tornado Climatology of the Contiguous United States", the following information on Kansas and tornadoes in Kansas was provided:

"State area = 82264 sq. mi.

Tornado Intensity (F-scale)

| | 0 | 1 | 2 | 3 | 4 | 5 | Missing |
|--------|-----|-----|-----|-----|----|---|---------|
| NUMBER | 354 | 366 | 306 | 120 | 34 | 5 | 239 |

Total number of tornadoes from 1954 through 1983 was 1311.
The total number of segments was 1424."

NUREG/CR-4461 used information for the known tornadoes to account for the missing tornadoes, i.e. calculate the average area for the known tornadoes and then multiply by the total number of tornadoes (pg. 7, 5th paragraph). Similarly, the proportion of tornadoes of intensity F2 or greater will be determined and used to calculate the number of missing tornadoes of intensity F2 or greater.

The number of tornadoes of intensity F0 and F1 is

$$354 + 366 = 720.$$

The number of tornadoes of intensity F2 or greater is

$$306 + 120 + 34 + 5 = 465.$$

PREPARED BY _____
DATE _____

CALCULATION
PACKAGE NO. SR-PF-001-Rev. C
PAGE 5 OF 9



CALCULATION WORKSHEET

Nuclear Services Division

The number of missing tornadoes of intensity f_2 or greater can be calculated by

$$\left(\frac{\text{Number of known tornadoes with intensity } \geq f_2}{\text{Number of known tornadoes}} \right) \text{ Number of missing tornadoes}$$

or

$$\left(\frac{465}{720 + 465} \right) (239) = 93.8 \quad \text{or}$$

94 missing tornadoes with intensity $\geq f_2$.

The total number of tornadoes with intensity $\geq f_2$ is now

$$465 + 94 = 559$$

The annual frequency per square mile for events of intensity of $\geq f_2$ can now be calculated by

$$h_2 = \frac{\# \text{ of events } \geq f_2}{(\# \text{ of years of data})(\text{area})}$$

where h_2 = annual frequency per square mile for $\geq f_2$ events
 years of data = 30
 Area = area of region = 82264 sq. mi.

$$h_2 = \frac{559}{(30)(82264)} = 0.0002265$$

PREPARED BY _____
 DATE _____

CALCULATION
 PACKAGE NO. SR-BB-001 Rev. 0
 PAGE 6 OF 9



CALCULATION WORKSHEET

Nuclear Services Division

II. Tornado frequency for the 5° Box

The USAR, Section 2.1.1.1, second paragraph on page 2-1-1 gives the latitude and longitude for Wolf Creek as $38^{\circ} 14' 20''$ N and $95^{\circ} 41' 20''$ W, respectively. Wolf Creek falls into the 5° Latitude Longitude Box centered on 37.5 North and 97.5 West in NUREG/CR-4461, pages D-47 and D-48.

The following information for this region comes from NUREG/CR-4461.

" 5° Box AREA = 94663.8 Sq. mi.

The total number of tornado events from 1954 through 1983 was 2212.

Tornado Intensity (F-scale)

| | 0 | 1 | 2 | 3 | 4 | 5 | missing |
|--------|-----|-----|-----|-----|----|----|---------|
| Number | 528 | 626 | 557 | 206 | 64 | 13 | 218 |

The total number of tornadoes of intensity F0 and F1

$$528 + 626 = 1154$$

The total number of tornadoes with intensity \geq F2

$$557 + 206 + 64 + 13 = 840$$

Using the proportional method previously discussed for determining the number of missing tornadoes with intensity \geq F2,

$$\left(\frac{840}{1154 + 840} \right) (218) = 91.8 \text{ or } 92$$

PREPARED BY _____
DATE _____

CALCULATION
PACKAGE NO. SR-88-001 Rev. C
PAGE 7 OF 9



CALCULATION WORKSHEET

Nuclear Services Division

The total number of tornadoes with intensity $\geq F2$ is now

$$840 + 92 = 932$$

The annual frequency, h_2 , of tornado events with intensity $\geq F2$ per square mile is

$$h_2 = \frac{932}{(30)(94663.8)} = 0.0003282$$

III. Tornado Frequency for Region around Burlington

The National Severe Storms Forecast Center, Kansas City, Missouri, was requested to provide tornado data for an area within 125 nautical miles around Burlington Kansas.

The data provided covered 38 years, 1950 through 1987.

The following breakdown was obtained from the data.

| Tornado Intensity (F scale) | | | | | | |
|-----------------------------|----------|-----|----|----|---|---------|
| | ≤ 1 | 2 | 3 | 4 | 5 | Missing |
| Number | 848 | 317 | 83 | 20 | 4 | 139 |

The Number of tornadoes with intensity $\geq F2$ is

$$317 + 83 + 20 + 4 = 424.$$

PREPARED BY _____

DATE _____

CALCULATION
PACKAGE NO. SR-EB-DUI Rev. 0
PAGE 8 OF 9



CALCULATION WORKSHEET

Nuclear Services Division

Using the proportional method previously discussed for determining the number of missing tornadoes with intensity $\geq F2$,

$$\left(\frac{424}{848 + 424} \right) (139) = 46.3 \text{ or } 47$$

The total number of tornadoes with intensity $\geq F2$ is now

$$424 + 47 = 471$$

The annual frequency, h_2 , of tornado events with intensity $\geq F2$ per square mile is

$$h_2 = \frac{471}{(38)(\text{AREA})}$$

$$\begin{aligned} \text{where AREA} &= \pi r^2 \\ &= (3.1416) \left[(125 \text{ n.m.}) \left(\frac{1.15 \text{ mile}}{\text{n.m.}} \right) \right]^2 \\ &= 64918.2 \text{ sq mi.} \end{aligned}$$

$$h_2 = \frac{471}{(38)(64918.2)} = 0.0001909$$

PREPARED BY _____
DATE _____

CALCULATION
PACKAGE NO. SR-88-001 Rev. 0
PAGE 9 OF 9

DETERMINE THE ESTIMATED FREQUENCY OF LOSS OF OFF-SITE POWER DUE TO SEVERE WEATHER AS FOLLOWS:

- A. Determine the total amount of snowfall in inches which falls on the site in any year. NOAA data for snowfall are provided in Table 3-3. Label the data used as h_1 .
- B. Determine the expected frequency of "F2+" tornadoes per square mile for the site using plant-specific data. NSSPC data are also provided in Table 3-3. Label the data used as h_2 .
- C. Determine the expected frequency of storms with winds between 75 and 124 mph at the site. NOAA data are also provided in Table 3-3. Label the data used as h_3 .
- D. Determine the expected frequency of hurricanes and tropical storms with significant salt spray for the site. NOAA data for sites vulnerable to the effects of salt spray are also provided in Table 3-3. Label the data used as h_4 .
- E. Calculate the estimated frequency of loss of off-site due to severe weather, f , in events per year.
- F. Use Table 3-4 to determine the Severe Weather Group (SW Group).

Table 3-3

SEVERE WEATHER DATA^b

| SITE | SNOWFALL | TORNADO | STORM | SALT SPRAY | SITE | SNOWFALL | TORNADO | STORM | SALT SPRAY |
|--------------------|----------|----------|-------|------------|-------------------|----------|-----------|-------|------------|
| | (in) | (in) | (in) | (in) | | (in) | (in) | (in) | (in) |
| ARLANS NUCLEAR ONE | 4 | 0.00048 | 0.007 | 0 | MONTICELLO | 46 | 0.0007218 | 0.08 | 0 |
| AROLD | 33 | 0.00027 | 0.25 | 0 | MOBILE POINT | 89 | 0.0000298 | 0.08 | 0 |
| BEAVER VALLEY | 45 | 0.000088 | 0.08 | 0 | NORTH ANNA | 13 | 0.000067 | 0.08 | 0 |
| BELLPORT | 4 | 0.00020 | 0.08 | 0 | OCCHIBI | 6 | 0.00008 | 0.12 | 0 |
| BIG ROCK AT | 97 | 0.000088 | 0.08 | 0 | UTTERI CHINE | 17 | 0.00008 | 0.08 | 0 |
| BLADWOOD | 40 | 0.00008 | 0.08 | 0 | PALJADON | 40 | 0.0001845 | 0.1 | 0 |
| BROWN POINT | 4 | 0.00045 | 0.08 | 0 | PALO VERDE | 5 | 0.000088 | 0.125 | 0 |
| BURNSVILLE | 3 | 0.00007 | 0.12 | 0 | PLACI BOTTOM | 23 | 0.00008 | 0.026 | 0 |
| BYRON | 35 | 0.00018 | 0.08 | 0 | POREY | 38 | 0.00008 | 0.08 | 0 |
| CALLAWAY | 24 | 0.00008 | 0.08 | 0 | PLORIN | 42 | 0.00008 | 0 | 0.08 |
| CALVERT CLIFF | 1 | 0.000077 | 0.08 | 0 | POINT BLANCH | 43 | 0.00008 | 0.1 | 0 |
| CATAWBA | 4 | 0.00004 | 0.12 | 0 | PLASIE ISLAND | 46 | 0.000713 | 0.08 | 0 |
| CLINTON | 34 | 0.00008 | 0.1 | 0 | QUAD CITY | 40 | 0.00008 | 0.13 | 0 |
| COMANCHE PEAK | 4 | 0.00008 | 0.08 | 0 | RANCHO SICO | 8 | 0.00008 | 0.1 | 0 |
| COKE | 40 | 0.00045 | 0.1 | 0 | RYAN BEND | 0 | 0.00004 | 0.08 | 0 |
| COOPER | 30 | 0.00008 | 0.1 | 0 | ROBINSON | 1 | 0.000077 | 0.08 | 0 |
| CRYSTAL RIVER | 0 | 0.00003 | 0.1 | 0 | SALINA | 23 | 0.000075 | 0.045 | 0 |
| DAVIS-BESSE | 38 | 0.00008 | 0.11 | 0 | SAN ONOFRE | 0 | 0.000033 | 0.08 | 0 |
| DIABLO CANYON | | 0.00008 | 0.07 | 0 | SEABOARD | 40 | 0.00004 | 0.045 | 0 |
| DRESDEN | 40 | 0.00008 | 0.08 | 0 | SEQUOIA | 4 | 0.000489 | 0.1 | 0 |
| FAIRLEY | 0 | 0.00008 | 0.08 | 0 | SHOREHAM | 26 | 0.000021 | 0.08 | 0 |
| FERME | 32 | 0.000079 | 0.08 | 0 | SOUTH TEXAS | 0 | 0.00008 | 0.12 | 0 |
| FITZPATRICK | 89 | 0.000027 | 0.04 | 0 | ST LUCIE | 0 | 0.00003 | 0.13 | 0 |
| PORT CALHOUN | 29 | 0.00048 | 0.1 | 0 | SUNBELT | 2 | 0.00008 | 0.12 | 0 |
| PORT ST. VRAIN | 39 | 0.00003 | 0.08 | 0 | SURET | 1 | 0.00004 | 0.1 | 0 |
| CHINA | 89 | 0.000084 | 0.08 | 0 | SUNSHINE | 44 | 0.000082 | 0.08 | 0 |
| GRAND GULF | 1 | 0.00008 | 0.08 | 0 | THREE MILE ISLAND | 13 | 0.000082 | 0.027 | 0 |
| HADDAM NECK | 27 | 0.00008 | 0.08 | 0 | TROIAN | 7 | 0.000084 | 0.14 | 0 |
| HARBO | 1 | 0.00002 | 0.13 | 0 | TURKEY POINT | 0 | 0.00002 | 0.18 | 0 |
| HATCH | 0 | 0.00008 | 0.12 | 0 | VERMONT TANKER | 79 | 0.000071 | 0.08 | 0 |
| HOPE CREEK | 21 | 0.000025 | 0.08 | 0 | WOOTLS | 2 | 0.00008 | 0.023 | 0 |
| INCLAN POINT | 29 | 0.00004 | 0.08 | 0 | WATSFORD | 0 | 0.00003 | 0.08 | 0 |
| KETWALINE | 40 | 0.00008 | 0.1 | 0 | WATTS BAR | 10 | 0.000402 | 0.1 | 0 |
| LASALLE | 40 | 0.00008 | 1.08 | 0 | WHP-3 | 53 | 0.000032 | 0.08 | 0 |
| LIMESTONE | 22 | 0.00008 | 0.107 | 0 | W-LP CREEK | 30 | 0.000045 | 0.23 | 0 |
| MAINE TANKER | 34 | 0.00008 | 0.44 | 0 | TANKER BOWE | 79 | 0.00008 | 0.08 | 0 |
| MCCLENN | 6 | 0.00008 | 0.08 | 0 | TECH | 40 | 0.00008 | 0.08 | 0 |
| MELSTONE | 27 | 0.00008 | 0 | 0.18 | | | | | |

NOTE (b): NRC STAFF PROVIDED THE DATA IN TABLE 3-3 USING CLIMATOLOGICAL SOURCES CITED IN THE REFERENCES TO THIS PROCEDURE. NUMARC HAS NOT VERIFIED THE ACCURACY OF THIS DATA.

TORNADO STATISTICS FOR KANSAS

STATE AREA = 82264. SQ MI

THE NUMBER OF TORNADOES FROM 1964 THROUGH 1983 WAS 1811.

THE TOTAL NUMBER OF SEGMENTS WAS 1424

EXPECTED LENGTH = 12.66 MI; EXPECTED WIDTH = 0.130 MI; EXPECTED AREA = 0.203 SQ MI

AVERAGE LENGTH = 8.10 MI; AVERAGE WIDTH = 0.112 MI; AVERAGE AREA = 1.292 SQ MI.

THE TORNADO STRIKE PROBABILITIES FOR THE STATE ARE 3.58E-03 PER YEAR (EXP) AND 7.46E-04 PER YEAR (AVE).

| | TORNADO INTENSITY (F - SCALE) | | | | | | MISSING |
|-------------------------------|-------------------------------|----------|----------|----------|----------|----------|---------|
| | 0 | 1 | 2 | 3 | 4 | 5 | |
| NUMBER | 364 | 360 | 380 | 120 | 34 | 5 | 239 |
| CUMULATIVE TOTAL | 364 | 720 | 1020 | 1140 | 1180 | 1186 | |
| COND. EXCEEDANCE PROB. | 1.00000 | 0.70127 | 0.39241 | 0.13410 | 0.03291 | 0.00422 | |
| EXPECTED LENGTH (MI) | 2.719 | 9.340 | 11.935 | 15.345 | 19.000 | 46.937 | |
| AVERAGE LENGTH (MI) | 2.731 | 8.982 | 9.483 | 13.609 | 18.384 | 17.167 | |
| NUMBER | 170 | 250 | 220 | 110 | 34 | 5 | 613 |
| EXPECTED WIDTH (MI) | 0.037 | 0.077 | 0.127 | 0.221 | 0.327 | 0.460 | |
| AVERAGE WIDTH (MI) | 0.039 | 0.072 | 0.123 | 0.200 | 0.284 | 0.432 | |
| NUMBER | 160 | 191 | 182 | 90 | 53 | 5 | 767 |
| EXPECTED AREA (SQ MI) | 0.270 | 1.103 | 1.593 | 4.531 | 7.014 | 9.636 | |
| AVERAGE AREA (SQ. MI) | 0.150 | 0.443 | 1.230 | 3.509 | 4.711 | 6.329 | |
| NUMBER | 147 | 180 | 179 | 96 | 33 | 5 | 777 |
| EXPECTED CLASS STRIKE PROB. | 4.66E-06 | 1.97E-04 | 2.37E-04 | 2.66E-04 | 1.16E-04 | 2.36E-05 | |
| CLASS STRIKE PROB. | 2.75E-06 | 7.90E-05 | 1.83E-04 | 1.90E-04 | 7.80E-05 | 1.54E-05 | |
| EXPECTED STRIKE EXCEEDANCE PR | 3.58E-03 | 1.02E-03 | 8.00E-04 | 4.17E-04 | 1.39E-04 | 2.36E-05 | |
| STRIKE EXCEEDANCE PROB. | 7.46E-04 | 6.50E-04 | 5.29E-04 | 2.90E-04 | 9.36E-05 | 1.54E-05 | |

STATISTICS OF THE LENGTH, WIDTH AND AREA DISTRIBUTIONS, ASSUMING LOG-NORMALITY

LENGTH

| | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|
| LOWER 5 PERCENT POINT | 1.50E-01 | 3.10E-01 | 6.90E-01 | 1.51E-00 | 1.66E-00 | 9.47E-01 |
| MODE | 1.24E-01 | 3.56E-01 | 1.07E-00 | 2.77E-00 | 3.49E-00 | 1.02E-00 |
| MEDIAN | 2.09E-00 | 4.01E-00 | 5.90E-00 | 8.91E-00 | 1.06E-01 | 1.31E-01 |
| MEAN | 1.26E-01 | 1.36E-01 | 1.41E-01 | 1.60E-01 | 1.91E-01 | 4.69E-01 |
| UPPER 5 PERCENT POINT | 4.83E-01 | 5.19E-01 | 5.16E-01 | 5.27E-01 | 6.26E-01 | 1.81E-02 |

WIDTH

| | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|
| LOWER 5 PERCENT POINT | 5.00E-03 | 1.03E-02 | 1.65E-02 | 3.05E-02 | 4.12E-02 | 1.39E-01 |
| MODE | 7.26E-03 | 1.79E-02 | 3.47E-02 | 5.84E-02 | 7.07E-02 | 2.64E-01 |
| MEDIAN | 4.90E-02 | 7.19E-02 | 1.04E-01 | 1.56E-01 | 2.12E-01 | 3.90E-01 |
| MEAN | 1.30E-01 | 1.44E-01 | 1.79E-01 | 2.52E-01 | 3.48E-01 | 4.88E-01 |
| UPPER 5 PERCENT POINT | 4.88E-01 | 4.99E-01 | 5.78E-01 | 7.06E-01 | 1.09E-00 | 1.14E-00 |

AREA

| | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|
| LOWER 5 PERCENT POINT | 1.08E-03 | 5.26E-03 | 2.48E-02 | 9.26E-02 | 1.01E-01 | 8.44E-01 |
| MODE | 3.61E-03 | 9.96E-04 | 1.49E-02 | 9.23E-02 | 2.16E-01 | 1.53E-00 |
| MEDIAN | 1.14E-01 | 2.51E-01 | 5.74E-01 | 1.39E-00 | 2.26E-00 | 5.22E-00 |
| MEAN | 6.20E-00 | 8.99E-00 | 3.56E-00 | 5.39E-00 | 7.32E-00 | 9.64E-00 |
| UPPER 5 PERCENT POINT | 1.19E-01 | 1.20E-01 | 1.33E-01 | 2.00E-01 | 2.82E-01 | 3.23E-01 |

Appendix B

TORNADO STATISTICS FOR KANSAS

STATE AREA = 82264. SQ MI

JOINT FREQUENCY TABLES (LENGTH, WIDTH, AND AREA VS F - SCALE)

| F-SCALE | LENGTH IN MILES | | | | | | | | | | | MISSING |
|---------|-----------------|------|------|------|------|------|-------|-------|-------|-------|-------|---------|
| | <0.1 | <0.2 | <0.5 | <1.0 | <2.0 | <5.0 | <10.0 | <20.0 | <50.0 | <100. | >100. | |
| 0 | 49 | 24 | 28 | 12 | 18 | 28 | 14 | 8 | 4 | 8 | 8 | 175 |
| 1 | 22 | 11 | 41 | 18 | 30 | 37 | 39 | 32 | 14 | 8 | 8 | 116 |
| 2 | 1 | 4 | 20 | 24 | 24 | 32 | 47 | 46 | 30 | 1 | 8 | 78 |
| 3 | 8 | 8 | 4 | 3 | 9 | 14 | 35 | 32 | 17 | 2 | 1 | 4 |
| 4 | 8 | 8 | 8 | 8 | 1 | 8 | 5 | 12 | 8 | 2 | 8 | 8 |
| 5 | 8 | 8 | 8 | 8 | 8 | 1 | 1 | 8 | 3 | 8 | 8 | 8 |
| MISSING | 4 | 8 | 7 | 7 | 5 | 18 | 7 | 8 | 3 | 1 | 8 | 179 |

| F-SCALE | WIDTH IN MILES | | | | | | | | | | | MISSING |
|---------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| | <0.01 | <0.02 | <0.04 | <0.06 | <0.12 | <0.18 | <0.24 | <0.32 | <0.48 | <0.64 | >0.64 | |
| 0 | 79 | 25 | 11 | 18 | 8 | 1 | 4 | 4 | 1 | 1 | 8 | 284 |
| 1 | 36 | 39 | 27 | 42 | 29 | 5 | 14 | 11 | 8 | 3 | 8 | 175 |
| 2 | 4 | 17 | 25 | 48 | 32 | 20 | 19 | 12 | 2 | 3 | 5 | 124 |
| 3 | 8 | 2 | 7 | 21 | 15 | 3 | 18 | 18 | 7 | 18 | 3 | 24 |
| 4 | 8 | 8 | 2 | 4 | 8 | 8 | 4 | 4 | 2 | 18 | 1 | 1 |
| 5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 1 | 1 | 1 | 8 |
| MISSING | 3 | 18 | 6 | 13 | 3 | 8 | 4 | 8 | 8 | 2 | 8 | 198 |

| F-SCALE | AREA IN SQUARE MILES | | | | | | | | | | | MISSING |
|---------|----------------------|-------|-------|------|------|------|------|------|------|-------|-------|---------|
| | <.01 | <0.02 | <0.05 | <0.1 | <0.2 | <0.5 | <1.0 | <2.0 | <5.0 | <10.0 | >10.0 | |
| 0 | 86 | 9 | 12 | 11 | 18 | 7 | 7 | 3 | 3 | 8 | 8 | 287 |
| 1 | 48 | 12 | 19 | 17 | 29 | 33 | 19 | 8 | 13 | 1 | 8 | 178 |
| 2 | 3 | 14 | 17 | 14 | 25 | 29 | 27 | 24 | 16 | 7 | 4 | 127 |
| 3 | 1 | 1 | 2 | 4 | 4 | 12 | 18 | 22 | 17 | 4 | 12 | 26 |
| 4 | 8 | 8 | 8 | 1 | 3 | 4 | 1 | 4 | 9 | 7 | 4 | 1 |
| 5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 1 | 8 |
| MISSING | 4 | 8 | 8 | 7 | 4 | 9 | 2 | 1 | 2 | 8 | 8 | 282 |

TORNADO STATISTICS FOR THE 6 DEGREE BOX CENTERED AT 37.5 NORTH, 97.5 WEST. BOX AREA = 94663.8 SQ MI

THE TOTAL NUMBER OF TORNADO EVENTS FROM 1964 THROUGH 1983 WAS 2212.

EXPECTED LENGTH = 18.99 MI; EXPECTED WIDTH = 8.127 MI; EXPECTED AREA = 4.711 SQ MI

AVERAGE LENGTH = 7.48 MI; AVERAGE WIDTH = 8.116 MI; AVERAGE AREA = 1.189 SQ MI

THE TORNADO STRIKE PROBABILITIES FOR THE 6 DEGREE BOX ARE 3.67E-03 PER YEAR (EXPECTED) AND 9.26E-04 PER YEAR (AVERAGE).

| | TORNADO INTENSITY (F - SCALE) | | | | | | |
|-------------------------------|-------------------------------|----------|----------|----------|----------|----------|---------|
| | 0 | 1 | 2 | 3 | 4 | 5 | MISSING |
| NUMBER | 520 | 620 | 667 | 200 | 64 | 13 | 218 |
| CUMULATIVE TOTAL | 520 | 1164 | 1711 | 1917 | 1981 | 1994 | |
| COND. EXCEEDANCE PROB. | 1.00000 | 0.73621 | 0.42126 | 0.14103 | 0.03802 | 0.00562 | |
| EXPECTED LENGTH (MI) | 2.398 | 6.547 | 18.229 | 13.818 | 16.119 | 26.436 | |
| AVERAGE LENGTH (MI) | 2.663 | 6.476 | 8.229 | 12.001 | 16.026 | 18.867 | |
| NUMBER | 228 | 428 | 433 | 199 | 63 | 13 | 866 |
| EXPECTED WIDTH (MI) | 0.836 | 0.872 | 0.132 | 0.190 | 0.332 | 0.423 | |
| AVERAGE WIDTH (MI) | 0.837 | 0.871 | 0.131 | 0.189 | 0.296 | 0.483 | |
| NUMBER | 202 | 363 | 361 | 168 | 62 | 11 | 1076 |
| EXPECTED AREA (SQ MI) | 0.178 | 0.648 | 2.818 | 3.690 | 6.298 | 8.874 | |
| AVERAGE AREA (SQ MI) | 0.146 | 0.346 | 1.241 | 2.662 | 4.337 | 7.233 | |
| NUMBER | 193 | 346 | 347 | 167 | 62 | 11 | 1097 |
| EXPECTED CLASS STRIKE PROB. | 3.67E-06 | 1.68E-04 | 4.37E-04 | 2.06E-04 | 1.32E-04 | 4.61E-06 | |
| CLASS STRIKE PROB. | 3.81E-06 | 8.47E-06 | 2.78E-04 | 2.13E-04 | 1.88E-04 | 3.67E-06 | |
| EXPECTED STRIKE EXCEEDANCE PR | 3.67E-03 | 1.89E-03 | 1.24E-03 | 5.89E-04 | 1.88E-04 | 4.61E-06 | |
| STRIKE EXCEEDANCE PROB. | 9.26E-04 | 8.86E-04 | 6.78E-04 | 3.69E-04 | 1.46E-04 | 3.67E-06 | |

STATISTICS OF THE LENGTH, WIDTH AND AREA DISTRIBUTIONS

LENGTH

| | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|
| LOWER 5 PERCENT POINT | 1.63E-01 | 3.82E-01 | 6.17E-01 | 1.75E-00 | 2.94E-00 | 2.41E-00 |
| MODE | 1.61E-01 | 3.72E-01 | 9.65E-01 | 3.31E-00 | 6.77E-00 | 4.41E-00 |
| MEDIAN | 2.63E-00 | 3.68E-00 | 5.36E-00 | 8.00E-00 | 1.17E-01 | 1.46E-01 |
| MEAN | 1.18E-01 | 1.12E-01 | 1.27E-01 | 1.46E-01 | 1.67E-01 | 2.64E-01 |
| UPPER 5 PERCENT POINT | 4.25E-01 | 4.29E-01 | 4.65E-01 | 4.67E-01 | 4.48E-01 | 8.78E-01 |

WIDTH

| | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|
| LOWER 5 PERCENT POINT | 6.68E-03 | 1.11E-02 | 1.83E-02 | 3.81E-02 | 4.68E-02 | 1.88E-01 |
| MODE | 1.84E-02 | 1.99E-02 | 3.44E-02 | 6.79E-02 | 9.86E-02 | 3.18E-01 |
| MEDIAN | 6.68E-02 | 7.28E-02 | 1.81E-01 | 1.49E-01 | 2.24E-01 | 3.82E-01 |
| MEAN | 1.27E-01 | 1.37E-01 | 1.74E-01 | 2.39E-01 | 3.63E-01 | 4.23E-01 |
| UPPER 5 PERCENT POINT | 4.68E-01 | 4.66E-01 | 6.62E-01 | 7.36E-01 | 1.87E-00 | 8.88E-01 |

AREA

| | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|
| LOWER 5 PERCENT POINT | 1.64E-03 | 6.32E-03 | 1.94E-02 | 1.64E-01 | 3.47E-01 | 1.34E-00 |
| MODE | 9.41E-05 | 1.18E-03 | 9.62E-03 | 1.16E-01 | 6.67E-01 | 2.82E-00 |
| MEDIAN | 1.28E-01 | 2.34E-01 | 6.17E-01 | 1.36E-00 | 2.73E-00 | 6.91E-00 |
| MEAN | 4.71E-00 | 3.38E-00 | 3.79E-00 | 4.68E-00 | 6.90E-00 | 8.87E-00 |
| UPPER 5 PERCENT POINT | 1.86E-01 | 1.83E-01 | 1.38E-01 | 1.77E-01 | 2.16E-01 | 2.68E-01 |

Appendix C

TORNADO STATISTICS FOR THE 5 DEGREE BOX CENTERED AT 37.5 NORTH, 97.5 WEST BOX AREA = 94663.8 SQ MI

JOINT FREQUENCY TABLES (LENGTH, WIDTH, AND AREA VS F - SCALE)

| F-SCALE | LENGTH IN MILES | | | | | | | | | | | MISSING |
|---------|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|---------|
| | <0.5 | <1.0 | <2.0 | <5.0 | <10.0 | <20.0 | <50.0 | <100. | <200. | <400. | >400. | |
| 0 | 142 | 14 | 10 | 21 | 18 | 12 | 5 | 0 | 0 | 0 | 0 | 308 |
| 1 | 126 | 45 | 65 | 55 | 66 | 38 | 17 | 5 | 0 | 0 | 0 | 285 |
| 2 | 50 | 39 | 60 | 78 | 83 | 77 | 43 | 3 | 0 | 0 | 0 | 124 |
| 3 | 7 | 4 | 14 | 20 | 54 | 60 | 29 | 1 | 0 | 0 | 0 | 7 |
| 4 | 0 | 0 | 2 | 8 | 15 | 26 | 10 | 2 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 0 | 1 | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 |
| MISSING | 7 | 0 | 0 | 13 | 6 | 6 | 3 | 1 | 0 | 0 | 0 | 107 |

| F-SCALE | WIDTH IN MILES | | | | | | | | | | | MISSING |
|---------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| | <0.01 | <0.02 | <0.04 | <0.08 | <0.12 | <0.18 | <0.24 | <0.32 | <0.48 | <0.64 | >0.64 | |
| 0 | 95 | 26 | 38 | 22 | 7 | 1 | 0 | 3 | 1 | 1 | 0 | 326 |
| 1 | 37 | 58 | 90 | 79 | 32 | 6 | 28 | 17 | 1 | 5 | 0 | 273 |
| 2 | 0 | 24 | 61 | 66 | 66 | 22 | 30 | 32 | 10 | 8 | 9 | 200 |
| 3 | 1 | 3 | 9 | 45 | 23 | 7 | 39 | 15 | 10 | 9 | 7 | 38 |
| 4 | 0 | 0 | 4 | 5 | 8 | 1 | 0 | 5 | 3 | 14 | 3 | 12 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 1 | 1 | 2 |
| MISSING | 2 | 7 | 5 | 12 | 4 | 0 | 3 | 0 | 0 | 2 | 0 | 103 |

| F-SCALE | AREA IN SQUARE MILES | | | | | | | | | | | MISSING |
|---------|----------------------|------|------|------|------|------|------|-------|-------|-------|-------|---------|
| | <0.05 | <0.1 | <0.2 | <0.5 | <1.0 | <2.0 | <5.0 | <10.0 | <20.0 | <50.0 | >50.0 | |
| 0 | 140 | 11 | 12 | 10 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 335 |
| 1 | 152 | 32 | 46 | 52 | 28 | 18 | 17 | 0 | 0 | 0 | 0 | 281 |
| 2 | 66 | 33 | 45 | 57 | 42 | 43 | 36 | 17 | 4 | 2 | 0 | 210 |
| 3 | 7 | 7 | 7 | 23 | 25 | 39 | 36 | 0 | 12 | 1 | 0 | 39 |
| 4 | 0 | 0 | 1 | 6 | 3 | 10 | 10 | 11 | 4 | 1 | 0 | 12 |
| 5 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 3 | 0 | 0 | 2 |
| MISSING | 12 | 4 | 4 | 7 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 100 |

```

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      S S S S S S S S S S S S S S
      S S S S S S S S S S S S S S
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```

DEST=granier USER=VERP QUEUE=LPT DEVICE=QLPR
 SEQ=4908 QPRI=177 CFI=132 LPP=66 COPIES=1 PAGES=222
 /DELETE

CREATED: 08-SEP-88 15:05:50
 ENQUEUED: 08-SEP-88 15:32:09
 PRINTING: 08-SEP-88 15:32:10

PATH=:UDD:TDU:BEVERLY:TORPLOT

```

      SSSSS SSS SSSS SSSS S SSS SSSSS
      S S S S S S S S S S S S S
      S S S S S S S S S S S S S
      S S S SSSS SSSS S S S S
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```

NSSFC /SYSBR Kansas City MO
 AOS/V5 REVISION 7.62.00.00
 AOS/V5 XLPT-32 REVISION 7.62.00.00

APPENDIX D



| | |
|--|----------------|
| CALCULATION PACKAGE NO. <u>SR-BB-001 Rev D</u> | |
| PAGE <u>D1</u> | OF <u> </u> |

Appendix D

NATIONAL SEVERE STORMS FORECAST C. TORNADO DATA

The enclosed tornado listing provides information on all reported tornadoes in the area indicated since 1950. The various entries, and tables are explained below. If you have additional questions, please write or call the National Severe Storms Forecast Center, Room 1720, 601 E. 13th St., Kansas City, Mo. 64106, phone (816) 374-3427.

The item-by-item listing shows the year, month, date and time of occurrence of each tornado in Central Standard Time.

The columns labeled SEQ and SEG indicate the sequence number and segment number of each tornado. Sequence numbers are assigned chronologically within each state. The first tornado in 1973 in Ohio is given sequence number 1 for the state of Ohio that year. Many tornadoes have lengthy paths that cross county or state lines. Some change direction quickly. In such cases the tracks are broken into segments that are denoted by segment numbers. A tornado with 3 segments has the same sequence number, but a different segment number, for each separate segment. The statistics in the tables are based only on the initial touchdown points.

The Latitude and Longitude of the beginning and ending points of each tornado are shown followed by the overall length and width. Deaths and injuries for each segment are listed, followed by Damage Class. Damage Class numbers range from 1 to 9 and provide an estimate of the damage according to the table (#1) below.

The columns labeled FPP provide the Fujita-Pearson scale estimates of Force, Path Length and Path Width. All three scales are logarithmic with values ranging from -1 for the smallest category to +5 for the largest.

The following table (#2) shows the range in each scale. The Path Length and the Path Width values represent estimates as to the actual amount of ground contact for each tornado. For instance, if a tornado had an overall length of 45 miles but made actual ground contact only 60 percent of the time the Path Length scale value would be a 3.

The AZRAN column indicates the azimuth and range from the center point. 129/83 indicates the tornado touchdown was 129 degrees (southeast) at 83 nautical miles from the center point.

A circular plot of tornado touchdown points is enclosed. The city of interest is at the center of the plot, north is at the top, east at the right hand side, etc. Each digit represents the number of touchdowns in a small square area, about 2 miles on a side. Thus, what might be plotted as 21 actually represents 2 touchdowns in one square and 1 touchdown in the adjacent square.

The four frequency tables provide detailed information about the time of day, time of year and length and width characteristics of tornadoes in the area of interest.

The Path Width vs Path Length table is computed from the P1 and Pw data. Also, the mean path length and mean path areas are computed from the P1 and Pw data. When the length and width scale values are converted back to length and width figures the minimum values in each range are used. For example, a P1 value of 3 is converted to a length of 10 miles in the calculation.

The monthly and hourly distribution tables indicate the favored times of day and year for tornadoes in each area. Monthly and hourly percentages are shown on the hourly distribution table. Mean times are shown for each month and for the entire year. These times should be interpreted and used in conjunction with the hourly percentages in examining the diurnal trend of tornadoes. All times in these tables are Central Standard Time.

The latitude and longitude of the center point of the search program is listed at the upper right hand side of the Hourly Distribution Table. These figures are in degrees and hundredths. The map scale used in the circular plot is compatible with the WSR 57 radar map, 125 nautical mile range.

Table #1 (DAMAGE CLASS)

| | 1 |
|---------------------------------|---|
| 1 Less than \$50 | - |
| 2 \$50 to \$500 | 0 |
| 3 \$500 to \$5,000 | 1 |
| 4 \$5,000 to \$50,000 | 2 |
| 5 \$50,000 to \$500,000 | 3 |
| 6 \$500,000 to \$5 million | 4 |
| 7 \$5 Million to \$50 Million | 5 |
| 8 \$50 Million to \$500 Million | |

Table #2 (FPP SCALE)

| SCALE | F (mph) | DAMAGE | P1 (miles) | Pw (width) |
|-------|--------------|-----------------------|--------------|---------------|
| - | Less than 40 | (little or no damage) | Less than .3 | Less than 6 |
| 0 | 40-72 | Light | 0.3-10 | 6-17 yards |
| 1 | 73-112 | Moderate | 10-31 | 18-55 yards |
| 2 | 113-157 | Considerable | 32-99 | 56-175 yards |
| 3 | 158-296 | Severe | 100-315 | 176-596 yards |
| 4 | 207-260 | Devastating | | 0.3-0.9 miles |
| 5 | 261-318 | Incredible | | 1.0-3.1 miles |

Tornadoes within 125 NM of JORLINGTON, KS

| Yr | Mo | Day | Time (LST) | Sta | Seq | Total # Seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10 ^{1/2} ft | Deaths | Injuries | Damage Class | F P P | AEON | Area sq. mi |
|----|----|-----|---------------|--------|-----|----------------|--------------|--------------|------------|------------|-----------------|-------------------------------|--------|----------|-----------------|-------|------------|----------------|
| 50 | 4 | 28 | 1700 | K5 001 | 1 | 1 | 3807 | 9531 | 3807 | 9538 | 9 | 0 | 0 | 0 | 4 | 1 2 2 | 36.1 17. | 0.00 |
| 50 | 5 | 5 | 1400 | K5 004 | 2 | 2 | 3937 | 9537 | 3937 | 9531 | 15 | 132 | 0 | 12 | 5 | 1 3 3 | 58.1 15. | 3.82 |
| 50 | 5 | 8 | 2117 | K5 008 | 1 | 1 | 3924 | 9739 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 308.1 11. | 0.00 |
| 50 | 5 | 9 | 1900 | K5 010 | 1 | 1 | 3912 | 9635 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 374.1 12. | 0.00 |
| 50 | 5 | 18 | 1900 | K5 012 | 1 | 1 | 3807 | 9649 | 3820 | 9649 | 13 | 30 | 0 | 2 | 5 | 3 3 2 | 360.1 13. | 0.77 |
| 50 | 5 | 19 | 1300 | K5 014 | 1 | 1 | 3749 | 9658 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 0 0 | 246.1 61. | 0.00 |
| 50 | 5 | 24 | 1730 | K5 017 | 1 | 1 | 3923 | 9658 | 3927 | 9647 | 5 | 12 | 0 | 0 | 4 | 1 2 4 | 65.1 9. | 0.12 |
| 50 | 6 | 8 | 2035 | K5 018 | 2 | 2 | 3820 | 9756 | 3820 | 9736 | 16 | 210 | 1 | 5 | 5 | 4 2 4 | 90.1 16. | 6.47 |
| 50 | 6 | 25 | 1845 | K5 020 | 1 | 1 | 3746 | 9728 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 0 0 | 252.1 89. | 0.00 |
| 50 | 7 | 1 | 1200 | K5 022 | 1 | 1 | 3842 | 9705 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 0 0 | 295.1 71. | 0.00 |
| 50 | 7 | 1 | 1200 | K5 023 | 1 | 1 | 3918 | 9655 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 0 2 | 318.1 86. | 0.00 |
| 50 | 7 | 8 | 2245 | K5 025 | 1 | 1 | 3949 | 9648 | 0 | 0 | 1 | 27 | 0 | 0 | 4 | 1 0 2 | 332.1 108. | 0.05 |
| 50 | 7 | 18 | 1630 | K5 026 | 1 | 1 | 3743 | 9531 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 0 2 | 167.1 34. | 0.00 |
| 50 | 5 | 29 | 1448 | K5 019 | 1 | 1 | 3623 | 9516 | 0 | 0 | 1 | 10 | 0 | 0 | 0 | 1 1 1 | 170.1 113. | 0.02 |
| 50 | 6 | 9 | 1825 | K5 020 | 1 | 1 | 3648 | 9715 | 0 | 0 | 0 | 30 | 0 | 0 | 3 | 1 1 1 | 221.1 114. | 0.00 |
| 50 | 3 | 2 | 2030 | K5 002 | 1 | 1 | 3950 | 9543 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 1 1 | 359.1 96. | 0.00 |
| 51 | 4 | 30 | 2345 | K5 009 | 1 | 1 | 3706 | 9630 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 0 0 | 210.1 78. | 0.00 |
| 51 | 5 | 2 | 1930 | K5 010 | 1 | 1 | 3902 | 9548 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 1 1 0 | 354.1 48. | 0.00 |
| 51 | 5 | 2 | 2030 | K5 011 | 1 | 1 | 3924 | 9524 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 1 0 | 11.1 71. | 0.00 |
| 51 | 5 | 9 | 1600 | K5 013 | 1 | 1 | 3918 | 9530 | 3920 | 9528 | 2 | 0 | 0 | 0 | 2 | 1 1 1 | 58.1 7. | 0.00 |
| 51 | 5 | 9 | 2100 | K5 014 | 1 | 1 | 3847 | 9535 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 1 1 | 11.1 34. | 0.00 |
| 51 | 5 | 21 | 1100 | K5 022 | 1 | 1 | 3902 | 9658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 0 0 | 309.1 77. | 0.00 |
| 51 | 5 | 25 | 1430 | K5 024 | 1 | 1 | 3927 | 9710 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 1 1 | 311.1 111. | 0.00 |
| 51 | 5 | 25 | 1600 | K5 025 | 1 | 1 | 3916 | 9711 | 0 | 0 | 4 | 132 | 1 | 0 | 3 | 1 2 3 | 18.1 4. | 1.09 |
| 51 | 5 | 30 | 2250 | K5 028 | 1 | 1 | 3924 | 9711 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 2 3 | 335.1 99. | 0.00 |
| 51 | 5 | 30 | 2250 | K5 029 | 1 | 1 | 3908 | 9703 | 3913 | 9656 | 8 | 0 | 0 | 0 | 3 | 1 2 2 | 47.1 7. | 0.00 |
| 51 | 5 | 30 | 2250 | K5 030 | 1 | 1 | 3917 | 9701 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 315.1 88. | 0.00 |
| 51 | 5 | 30 | 2250 | K5 031 | 1 | 1 | 3915 | 9635 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 326.1 74. | 0.00 |
| 51 | 5 | 30 | 2250 | K5 032 | 1 | 1 | 3921 | 9627 | 3924 | 9619 | 7 | 0 | 0 | 0 | 3 | 1 2 2 | 64.1 7. | 0.00 |
| 51 | 5 | 30 | 2250 | K5 033 | 1 | 1 | 3924 | 9602 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 347.1 72. | 0.00 |
| 51 | 5 | 30 | 2250 | K5 034 | 1 | 1 | 3928 | 9544 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 358.1 78. | 0.00 |
| 51 | 5 | 31 | 2345 | K5 035 | 1 | 1 | 3922 | 9524 | 3924 | 9521 | 3 | 132 | 0 | 0 | 3 | 2 1 3 | 49.1 3. | 0.88 |
| 51 | 6 | 6 | 2200 | K5 045 | 1 | 1 | 3741 | 9707 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 1 1 | 244.1 76. | 0.00 |
| 51 | 6 | 8 | 1330 | K5 046 | 1 | 1 | 3825 | 9537 | 0 | 0 | 0 | 180 | 0 | 0 | 2 | 1 0 4 | 16.1 11. | 0.27 |
| 51 | 6 | 8 | 1700 | K5 047 | 1 | 1 | 3853 | 9521 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 22.1 42. | 0.00 |
| 51 | 6 | 15 | 1915 | K5 048 | 1 | 1 | 3904 | 9549 | 0 | 0 | 0 | 30 | 0 | 0 | 3 | 0 0 2 | 353.1 50. | 0.03 |
| 51 | 6 | 17 | 2100 | K5 052 | 1 | 1 | 3837 | 9505 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 0 2 | 51.1 36. | 0.00 |
| 51 | 6 | 22 | 200 | K5 056 | 1 | 1 | 3750 | 9618 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 251.1 35. | 0.00 |
| 51 | 7 | 22 | 50 | K5 065 | 1 | 1 | 3929 | 9735 | 3924 | 9729 | 7 | 0 | 0 | 0 | 3 | 2 2 | 137.1 7. | 0.03 |
| 51 | 8 | 13 | 230 | K5 070 | 1 | 1 | 3814 | 9746 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 270.1 98. | 0.00 |
| 51 | 8 | 13 | 230 | K5 071 | 1 | 1 | 3814 | 9746 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 270.1 98. | 0.00 |
| 51 | 8 | 24 | 730 | K5 073 | 1 | 1 | 3840 | 9530 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 43.1 34. | 0.00 |
| 51 | 8 | 31 | 1620 | K5 075 | 1 | 1 | 3840 | 9740 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 286.1 97. | 0.00 |
| 51 | 8 | 31 | 1620 | K5 076 | 1 | 1 | 3840 | 9657 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 284.1 65. | 0.00 |
| 51 | 7 | 4 | 100 | K5 003 | 1 | 1 | 3709 | 9428 | 0 | 0 | 0 | 30 | 0 | 1 | 5 | 2 0 2 | 138.1 87. | 0.01 |
| 51 | 7 | 8 | 2015 | K5 004 | 1 | 1 | 3913 | 9401 | 3915 | 9401 | 0 | 30 | 0 | 0 | 4 | 2 0 2 | 360.1 2. | 0.01 |
| 51 | 4 | 24 | 2100 | K5 008 | 1 | 1 | 3645 | 9724 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 1 1 | 223.1 121. | 0.00 |
| 51 | 6 | 7 | 1815 | K5 029 | 1 | 1 | 3627 | 9545 | 3629 | 9539 | 6 | 10 | 0 | 1 | 4 | 1 2 1 | 67.1 5. | 0.11 |
| 51 | 6 | 8 | 1914 | K5 032 | 1 | 1 | 3640 | 9720 | 0 | 0 | 0 | 80 | 0 | 0 | 4 | 0 0 2 | 220.1 123. | 0.03 |
| 51 | 9 | 9 | 1620 | K5 042 | 1 | 1 | 3637 | 9501 | 0 | 0 | 2 | 20 | 0 | 0 | 3 | 2 1 2 | 162.1 102. | 0.08 |
| 51 | 10 | 21 | 2030 | K5 043 | 1 | 1 | 3632 | 9704 | 0 | 0 | 2 | 264 | 0 | 0 | 3 | 1 1 4 | 213.1 122. | 1.00 |
| 52 | 4 | 22 | 1730 | K5 002 | 1 | 1 | 3911 | 9645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 319.1 76. | 0.00 |
| 52 | 5 | 22 | 1745 | K5 006 | 3 | 3 | 3859 | 9535 | 3904 | 9443 | 27 | 132 | 0 | 3 | 4 | 4 3 3 | 78.1 28. | 0.86 |
| 52 | 6 | 19 | 1910 | K5 009 | 1 | 1 | 3711 | 9725 | 3713 | 9722 | 3 | 18 | 0 | 0 | 4 | 2 1 2 | 50.1 3. | 0.06 |
| 52 | 6 | 21 | 1900 | K5 010 | 1 | 1 | 3908 | 9509 | 3908 | 9441 | 22 | 0 | 0 | 0 | 4 | 2 3 2 | 90.1 22. | 0.00 |

*. before year event occurred within a 2 degree square centered on central point

CALCULATION SR-88 OF RAO

PAGE D3 OF

Tornadoes within 125 mi of SURLINGTON, KS

| yr | Mo | Day | Time (LST) | Sta | Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | P | P | P | Area sq mi |
|----|----|-----|------------|-----|-----|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|---|---|---|------------|
| 52 | 8 | 14 | 2130 | KS | 018 | 1 | 3641 | 9701 | 0 | 0 | 1 | 10 | 0 | 0 | 4 | 2 | 0 | 2 | 203.7 68. |
| 52 | 9 | 17 | 1600 | KS | 019 | 1 | 3940 | 9552 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 354.7 86. |
| 52 | 5 | 7 | 1600 | MO | 005 | 1 | 4006 | 9432 | 0 | 0 | 1 | 170 | 0 | 0 | 2 | 1 | 1 | 1 | 25.7 24. |
| 52 | 5 | 22 | 1900 | MO | 006 | 1 | 3854 | 9416 | 3856 | 9414 | 2 | 132 | 0 | 1 | 5 | 2 | 1 | 3 | 38.7 3. |
| 52 | 8 | 21 | 20 | MO | 008 | 1 | 3841 | 9316 | 3842 | 9314 | 2 | 90 | 1 | 33 | 7 | 2 | 1 | 3 | 38.7 2. |
| 52 | 4 | 21 | 1605 | KS | 006 | 1 | 3652 | 9720 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 1 | 224.7 114. |
| 52 | 7 | 15 | 1500 | OK | 020 | 1 | 3619 | 9542 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 180.7 115. |
| 52 | 3 | 30 | 1430 | KS | 001 | 1 | 3702 | 9747 | 3716 | 9745 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.7 14. |
| 53 | 5 | 10 | 200 | KS | 005 | 1 | 3752 | 9736 | 3723 | 9707 | 42 | 0 | 0 | 0 | 0 | 4 | 1 | 4 | 142.7 37. |
| 53 | 5 | 10 | 400 | KS | 006 | 1 | 3821 | 9640 | 3826 | 9603 | 52 | 0 | 0 | 0 | 0 | 4 | 3 | 4 | 39.7 45. |
| 53 | 5 | 10 | 430 | KS | 007 | 1 | 3720 | 9640 | 3726 | 9638 | 7 | 132 | 0 | 0 | 0 | 1 | 2 | 3 | 15.7 6. |
| 53 | 5 | 10 | 530 | KS | 008 | 1 | 3754 | 9524 | 0 | 0 | 0 | 60 | 0 | 0 | 2 | 1 | 0 | 1 | 145.7 24. |
| 53 | 5 | 16 | 1530 | KS | 009 | 1 | 3832 | 9652 | 0 | 0 | 2 | 66 | 0 | 0 | 3 | 1 | 1 | 1 | 148.7 86. |
| 53 | 6 | 5 | 1700 | KS | 015 | 1 | 3701 | 9444 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 51.7 11. |
| 53 | 6 | 7 | 2245 | KS | 019 | 1 | 3733 | 9709 | 3840 | 9638 | 12 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 90.7 8. |
| 53 | 6 | 19 | 1335 | KS | 020 | 1 | 3836 | 9704 | 3836 | 9654 | 5 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 5.7 82. |
| 53 | 6 | 19 | 1500 | KS | 021 | 1 | 3936 | 9536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 249.7 81. |
| 53 | 6 | 21 | 2125 | KS | 023 | 1 | 3745 | 9716 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 1 | 327.7 58. |
| 53 | 6 | 22 | 1900 | KS | 024 | 1 | 3903 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 252.7 120. |
| 53 | 6 | 24 | 1930 | KS | 026 | 1 | 3738 | 9803 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 332.7 113. |
| 53 | 7 | 4 | 1600 | KS | 027 | 1 | 3930 | 9730 | 0 | 0 | 1 | 30 | 0 | 0 | 0 | 0 | 1 | 2 | 334.7 86. |
| 53 | 7 | 15 | 1408 | KS | 028 | 1 | 3750 | 9725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 254.7 86. |
| 53 | 8 | 2 | 1500 | KS | 029 | 1 | 3943 | 9647 | 3945 | 9643 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 57.7 4. |
| 53 | 8 | 2 | 1630 | KS | 030 | 1 | 3736 | 9740 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 239.7 111. |
| 53 | 5 | 31 | 1600 | MO | 002 | 1 | 3822 | 9417 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 85.7 66. |
| 53 | 5 | 31 | 1630 | MO | 003 | 1 | 3828 | 9400 | 3829 | 9357 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 42.7 3. |
| 53 | 8 | 3 | 1700 | MO | 004 | 1 | 3813 | 9407 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 91.7 74. |
| 53 | 5 | 10 | 600 | ME | 007 | 1 | 4011 | 9556 | 4003 | 9512 | 9 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 159.7 9. |
| 53 | 8 | 2 | 1530 | ME | 043 | 1 | 4005 | 9645 | 4005 | 9642 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90.7 2. |
| 53 | 6 | 5 | 2020 | OK | 032 | 1 | 3650 | 9554 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 187.7 85. |
| 53 | 7 | 6 | 1540 | OK | 045 | 1 | 3642 | 9708 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 277.7 115. |
| 53 | 11 | 18 | 2130 | OK | 048 | 1 | 3648 | 9659 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 238.7 106. |
| 53 | 11 | 18 | 825 | OK | 050 | 1 | 3645 | 9715 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220.7 117. |
| 54 | 3 | 12 | 1220 | KS | 002 | 1 | 3935 | 9528 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 7.7 32. |
| 54 | 3 | 18 | 1030 | KS | 003 | 1 | 3726 | 9736 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 242.7 103. |
| 54 | 3 | 18 | 1100 | KS | 004 | 1 | 3829 | 9718 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 281.7 77. |
| 54 | 3 | 18 | 1115 | KS | 005 | 1 | 3848 | 9658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 300.7 69. |
| 54 | 3 | 18 | 1135 | KS | 006 | 1 | 3902 | 9655 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 310.7 75. |
| 54 | 3 | 18 | 1155 | KS | 007 | 1 | 3822 | 9633 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 281.7 42. |
| 54 | 3 | 18 | 1215 | KS | 008 | 1 | 3837 | 9612 | 0 | 0 | 2 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 314.7 53. |
| 54 | 3 | 18 | 1225 | KS | 009 | 1 | 3845 | 9607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 327.7 57. |
| 54 | 3 | 18 | 1230 | KS | 010 | 1 | 3843 | 9558 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 334.7 30. |
| 54 | 3 | 18 | 1310 | KS | 011 | 1 | 3854 | 9542 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 339.7 40. |
| 54 | 3 | 18 | 1315 | KS | 012 | 1 | 3847 | 9533 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11.7 34. |
| 54 | 3 | 18 | 1315 | KS | 013 | 1 | 3951 | 9531 | 0 | 0 | 2 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 5.7 97. |
| 54 | 3 | 18 | 1330 | KS | 014 | 1 | 3916 | 9516 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17.7 65. |
| 54 | 3 | 18 | 1200 | KS | 015 | 1 | 3823 | 9646 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 328.7 85. |
| 54 | 3 | 18 | 1200 | KS | 016 | 1 | 3940 | 9531 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.7 86. |
| 54 | 3 | 24 | 2030 | KS | 017 | 1 | 3844 | 9503 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45.7 42. |
| 54 | 3 | 24 | 2100 | KS | 018 | 1 | 3743 | 9531 | 3757 | 9544 | 20 | 264 | 0 | 0 | 0 | 0 | 0 | 0 | 44.7 19. |
| 54 | 3 | 24 | 2130 | KS | 019 | 1 | 3752 | 9557 | 0 | 0 | 2 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 177.7 62. |
| 54 | 3 | 24 | 2145 | KS | 020 | 1 | 3710 | 9450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 148.7 76. |
| 54 | 4 | 5 | 1845 | KS | 021 | 1 | 3911 | 9453 | 3917 | 9446 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49.7 9. |
| 54 | 4 | 5 | 1930 | KS | 022 | 1 | 3922 | 9557 | 3921 | 9553 | 1 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 108.7 3. |
| 54 | 4 | 10 | 1830 | KS | 023 | 1 | 3820 | 9531 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52.7 10. |

*. before year means event occurred within .2 square square centered on central point

Tornadoes within 125 NM of BURLINGTON, MS

| yr | Mo | Day | Time (CST) | Sta | Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | P | P | Path | Area sq mi |
|-----|----|-----|------------|--------|-----|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|---|---|-------|------------|
| *54 | 4 | 26 | 1620 | MS 026 | 1 | 3804 | 9559 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 0 | 1 | 1 | 235.1 | 17.0 |
| *54 | 4 | 29 | 1915 | MS 027 | 1 | 3750 | 9722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 253.1 | 81.0 |
| *54 | 4 | 29 | 2300 | MS 028 | 1 | 3718 | 9542 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 181.1 | 56.0 |
| *54 | 5 | 1 | 1605 | MS 029 | 1 | 3805 | 9800 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 265.1 | 110.0 |
| *54 | 5 | 1 | 1830 | MS 030 | 1 | 3713 | 9540 | 3118 | 9541 | 0 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 351.1 | 5.0 |
| *54 | 5 | 1 | 1830 | MS 031 | 1 | 3708 | 9514 | 3718 | 9510 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 47.1 | 4.0 |
| *54 | 5 | 31 | 1450 | MS 032 | 1 | 3811 | 9523 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102.1 | 14.0 |
| *54 | 5 | 31 | 1530 | MS 033 | 1 | 3730 | 9531 | 3750 | 9444 | 0 | 48 | 63 | 0 | 0 | 0 | 0 | 0 | 62.1 | 42.0 |
| *54 | 5 | 31 | 1530 | MS 034 | 1 | 3730 | 9531 | 3750 | 9444 | 0 | 48 | 63 | 0 | 0 | 0 | 0 | 0 | 62.1 | 42.0 |
| *54 | 5 | 31 | 1610 | MS 035 | 1 | 3853 | 9443 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49.1 | 60.0 |
| *54 | 5 | 31 | 2000 | MS 036 | 1 | 3837 | 9619 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 308.1 | 38.0 |
| *54 | 6 | 15 | 1230 | MS 037 | 1 | 3843 | 9614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 284.1 | 123.0 |
| *54 | 6 | 15 | 1230 | MS 038 | 1 | 3843 | 9614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90.1 | 3.0 |
| *54 | 6 | 23 | 1615 | MS 039 | 1 | 3852 | 9449 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47.1 | 56.0 |
| *54 | 6 | 30 | 1830 | MS 040 | 1 | 3841 | 9740 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 286.1 | 97.0 |
| *54 | 7 | 1 | 1508 | MS 041 | 1 | 3809 | 9732 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 125.1 | 9.0 |
| *54 | 7 | 5 | 1700 | MS 042 | 1 | 3821 | 9713 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 276.1 | 73.0 |
| *54 | 7 | 22 | 1445 | MS 043 | 1 | 3705 | 9511 | 3713 | 9502 | 0 | 11 | 132 | 0 | 0 | 0 | 0 | 0 | 35.1 | 10.0 |
| *54 | 7 | 22 | 2000 | MS 044 | 1 | 3810 | 9707 | 3823 | 9653 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 40.1 | 17.0 |
| *54 | 8 | 5 | 1631 | MS 045 | 1 | 3803 | 9757 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 284.1 | 108.0 |
| *54 | 8 | 5 | 1830 | MS 046 | 1 | 3831 | 9522 | 0 | 0 | 0 | 2 | 60 | 0 | 0 | 0 | 0 | 0 | 41.1 | 23.0 |
| *54 | 8 | 5 | 2015 | MS 047 | 1 | 3837 | 9516 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 40.1 | 30.0 |
| *54 | 8 | 7 | 1730 | MS 048 | 1 | 3713 | 9513 | 3715 | 9514 | 0 | 1 | 120 | 0 | 0 | 0 | 0 | 0 | 532.1 | 2.0 |
| *54 | 8 | 8 | 1830 | MS 049 | 1 | 3812 | 9658 | 3812 | 9646 | 0 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 90.1 | 9.0 |
| *54 | 8 | 23 | 1745 | MS 050 | 1 | 3857 | 9745 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 294.1 | 106.0 |
| *54 | 8 | 29 | 1400 | MS 051 | 1 | 3822 | 9740 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 275.1 | 94.0 |
| *54 | 9 | 9 | 200 | MS 052 | 1 | 3749 | 9728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 254.1 | 88.0 |
| *54 | 10 | 4 | 1800 | MS 053 | 1 | 3741 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 247.1 | 84.0 |
| *54 | 10 | 26 | 5 | MS 054 | 1 | 3741 | 9719 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 247.1 | 84.0 |
| *54 | 3 | 24 | 2200 | MS 055 | 1 | 3727 | 9424 | 3735 | 9410 | 0 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 54.1 | 14.0 |
| *54 | 3 | 24 | 2200 | MS 056 | 1 | 3707 | 9432 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 143.1 | 87.0 |
| *54 | 3 | 24 | 2300 | MS 057 | 1 | 3649 | 9347 | 3649 | 9347 | 0 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 90.1 | 5.0 |
| *54 | 3 | 24 | 2300 | MS 058 | 1 | 3649 | 9406 | 3649 | 9353 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 0 | 90.1 | 10.0 |
| *54 | 3 | 24 | 2300 | MS 059 | 2 | 3634 | 9431 | 3645 | 9406 | 0 | 2 | 15 | 0 | 0 | 0 | 0 | 0 | 41.1 | 23.0 |
| *54 | 5 | 7 | 1600 | MS 060 | 1 | 4005 | 9430 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 26.1 | 124.0 |
| *54 | 5 | 28 | 1315 | MS 061 | 1 | 3815 | 9308 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 40.1 | 120.0 |
| *54 | 5 | 31 | 1620 | MS 062 | 1 | 3750 | 9429 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 113.1 | 62.0 |
| *54 | 6 | 14 | 2100 | MS 063 | 1 | 4002 | 9429 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 27.1 | 121.0 |
| *54 | 6 | 15 | 1300 | MS 064 | 1 | 4003 | 9516 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 103.1 | 54.0 |
| *54 | 6 | 15 | 1300 | MS 065 | 1 | 3802 | 9434 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 39.1 | 3.0 |
| *54 | 6 | 15 | 1905 | MS 066 | 1 | 3656 | 9706 | 3658 | 9704 | 0 | 2 | 60 | 0 | 0 | 0 | 0 | 0 | 53.1 | 5.0 |
| *54 | 6 | 24 | 2218 | MS 067 | 1 | 3627 | 9509 | 3630 | 9504 | 0 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 38.1 | 8.0 |
| *54 | 6 | 27 | 1720 | MS 068 | 1 | 3823 | 9737 | 3824 | 9731 | 0 | 8 | 30 | 0 | 0 | 0 | 0 | 0 | 263.1 | 95.0 |
| *54 | 6 | 27 | 1730 | MS 069 | 1 | 3802 | 9741 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 281.1 | 95.0 |
| *54 | 6 | 27 | 1730 | MS 070 | 1 | 3848 | 9735 | 3831 | 9718 | 0 | 11 | 60 | 0 | 0 | 0 | 0 | 0 | 34.1 | 10.0 |
| *54 | 6 | 27 | 1750 | MS 071 | 1 | 3823 | 9725 | 3831 | 9718 | 0 | 11 | 60 | 0 | 0 | 0 | 0 | 0 | 303.1 | 88.0 |
| *54 | 6 | 27 | 1900 | MS 072 | 1 | 3902 | 9710 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 181.1 | 60.0 |
| *54 | 6 | 27 | 1900 | MS 073 | 1 | 3714 | 9542 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137.1 | 64.0 |
| *54 | 6 | 27 | 1943 | MS 074 | 1 | 3727 | 9446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44.1 | 37.0 |
| *54 | 6 | 27 | 2000 | MS 075 | 1 | 3838 | 9547 | 3819 | 9455 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 276.1 | 93.0 |
| *54 | 6 | 27 | 2000 | MS 076 | 1 | 3824 | 9739 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43.1 | 7.0 |
| *54 | 6 | 27 | 2000 | MS 077 | 1 | 3941 | 9459 | 3946 | 9453 | 0 | 7 | 66 | 0 | 0 | 0 | 0 | 0 | 322.1 | 45.0 |
| *54 | 6 | 27 | 2000 | MS 078 | 1 | 3750 | 9453 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 148.1 | 85.0 |
| *54 | 6 | 27 | 2000 | MS 079 | 1 | 3702 | 9445 | 3829 | 9446 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 47.1 | 24.0 |
| *54 | 6 | 27 | 2000 | MS 080 | 1 | 3813 | 9508 | 3829 | 9446 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 47.1 | 24.0 |

* Before year means event occurred within 2 degree square centered on central point

SR-66-001 Rev 0

Page 05

OF

Tor does within 125, N. of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | P P P | ARRAM | Area sq. mi |
|----|----|-----|------------|--------|-----|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|-------|----------|-------------|
| 55 | 5 | 27 | 2025 | K5 024 | 1 | 3759 | 9809 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 253.1122 | -00 |
| 55 | 5 | 27 | 2040 | K5 026 | 1 | 3926 | 9835 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 330.1181 | -00 |
| 55 | 5 | 27 | 2115 | K5 027 | 1 | 3755 | 9725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 257.1184 | -00 |
| 55 | 5 | 27 | 2115 | K5 028 | 1 | 3754 | 9724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 256.1184 | -00 |
| 55 | 5 | 27 | 2115 | K5 029 | 1 | 3753 | 9723 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 255.1184 | -00 |
| 55 | 5 | 27 | 2115 | K5 030 | 1 | 3745 | 9725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250.1187 | -00 |
| 55 | 5 | 27 | 2115 | K5 031 | 1 | 3744 | 9724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250.1187 | -00 |
| 55 | 5 | 27 | 2115 | K5 032 | 1 | 3735 | 9729 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 236.1108 | -00 |
| 55 | 5 | 27 | 2115 | K5 033 | 1 | 3734 | 9728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 235.1108 | -00 |
| 55 | 5 | 27 | 2115 | K5 034 | 1 | 3741 | 9651 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 239.1184 | -00 |
| 55 | 5 | 27 | 2115 | K5 035 | 1 | 3740 | 9650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 238.1184 | -00 |
| 55 | 5 | 27 | 2115 | K5 036 | 1 | 3736 | 9649 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 223.1179 | -00 |
| 55 | 5 | 27 | 2115 | K5 037 | 1 | 3715 | 9648 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 222.1180 | -00 |
| 55 | 5 | 27 | 2115 | K5 038 | 1 | 3704 | 9752 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 264.1108 | -00 |
| 55 | 5 | 27 | 2025 | K5 041 | 1 | 3753 | 9807 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 260.1117 | -00 |
| 55 | 5 | 27 | 1900 | K5 066 | 1 | 3821 | 9814 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273.1120 | -00 |
| 55 | 5 | 27 | 1900 | K5 067 | 1 | 3821 | 9814 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273.1120 | -00 |
| 55 | 5 | 27 | 1935 | K5 068 | 1 | 3904 | 9746 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 297.1109 | -00 |
| 55 | 5 | 27 | 1945 | K5 072 | 1 | 3954 | 9717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 317.1109 | -00 |
| 55 | 5 | 27 | 1205 | K5 076 | 1 | 3752 | 9440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115.1153 | -00 |
| 55 | 5 | 27 | 1335 | K5 087 | 1 | 3833 | 9725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 283.1184 | -00 |
| 55 | 5 | 27 | 1840 | K5 089 | 1 | 3933 | 9738 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 311.1120 | -00 |
| 55 | 5 | 27 | 1935 | K5 091 | 1 | 3953 | 9717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 318.1110 | -00 |
| 55 | 5 | 27 | 1630 | K5 095 | 1 | 3728 | 9508 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150.1153 | -00 |
| 55 | 5 | 27 | 1555 | K5 096 | 1 | 3738 | 9659 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 240.1171 | -00 |
| 55 | 5 | 27 | 1500 | K5 097 | 1 | 3818 | 9533 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57.1171 | -00 |
| 55 | 5 | 27 | 1730 | M0 001 | 3 | 3939 | 9415 | 3940 | 9407 | 8 | 75 | 0 | 0 | 0 | 3 | 2 | 85.1171 | -01 |
| 55 | 5 | 27 | 1740 | M0 002 | 3 | 3918 | 9413 | 3920 | 9410 | 5 | 75 | 0 | 0 | 0 | 4 | 2 | 49.1171 | -01 |
| 55 | 5 | 27 | 1800 | M0 003 | 1 | 3921 | 9416 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45.1195 | -02 |
| 55 | 5 | 27 | 1700 | M0 017 | 1 | 3705 | 9433 | 3707 | 9431 | 1 | 35 | 0 | 0 | 0 | 1 | 1 | 39.1171 | -04 |
| 55 | 5 | 27 | 1800 | M0 019 | 1 | 3920 | 9340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55.1115 | -00 |
| 55 | 5 | 27 | 2100 | M0 025 | 1 | 3844 | 9424 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63.1167 | -00 |
| 55 | 5 | 27 | 2100 | M0 029 | 1 | 3838 | 9410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71.1175 | -00 |
| 55 | 5 | 27 | 2100 | M0 032 | 1 | 3842 | 9718 | 3644 | 9716 | 2 | 23 | 0 | 0 | 0 | 1 | 1 | 105.1103 | -09 |
| 55 | 5 | 27 | 2130 | M0 046 | 1 | 3651 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39.1171 | -84 |
| 55 | 5 | 27 | 2200 | M0 047 | 1 | 3640 | 9718 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 228.1115 | -00 |
| 55 | 5 | 27 | 2100 | M0 048 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220.1122 | -00 |
| 55 | 5 | 27 | 2200 | M0 049 | 1 | 3651 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199.1100 | -00 |
| 55 | 5 | 27 | 2100 | M0 050 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36.1120 | -00 |
| 55 | 5 | 27 | 2100 | M0 051 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43.1104 | -00 |
| 55 | 5 | 27 | 2100 | M0 052 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 283.1195 | -00 |
| 55 | 5 | 27 | 2100 | M0 053 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38.1171 | -11 |
| 55 | 5 | 27 | 2100 | M0 054 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270.1150 | -00 |
| 55 | 5 | 27 | 2100 | M0 055 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180.1181 | -00 |
| 55 | 5 | 27 | 2100 | M0 056 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 256.1184 | -00 |
| 55 | 5 | 27 | 2100 | M0 057 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333.1194 | -00 |
| 55 | 5 | 27 | 2100 | M0 058 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 228.1181 | -00 |
| 55 | 5 | 27 | 2100 | M0 059 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 269.1185 | -00 |
| 55 | 5 | 27 | 2100 | M0 060 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 341.1196 | -00 |
| 55 | 5 | 27 | 2100 | M0 061 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 253.1194 | -00 |
| 55 | 5 | 27 | 2100 | M0 062 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57.1171 | -00 |
| 55 | 5 | 27 | 2100 | M0 063 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90.1171 | -00 |
| 55 | 5 | 27 | 2100 | M0 064 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 237.1194 | -00 |
| 55 | 5 | 27 | 2100 | M0 065 | 1 | 3640 | 9622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133.1171 | -00 |

-- before year means event occurred within a 2 degree square centered on central point

Tornadoes within 1...

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # | Lat | Lon | Lat | Lon | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F P P | AZMAN | Area sq. mi. |
|----|----|-----|------------|--------|-----|---------|------|------|------|-----|--------------|---------------|--------|----------|--------------|-------|------------|--------------|
| 56 | 7 | 19 | 1745 | K5 044 | 1 | 3702 | 9444 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 148-1 85- | 17-42 |
| 56 | 7 | 20 | 1830 | K5 045 | 1 | 3811 | 9529 | 3724 | 9441 | 34 | 264 | 0 | 0 | 0 | 0 | 3 | 141-1 61- | 17-42 |
| 56 | 7 | 21 | 1716 | K5 046 | 1 | 3801 | 9721 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 161-1 80- | 17-42 |
| 56 | 7 | 21 | 1716 | K5 047 | 1 | 3823 | 9640 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 281-1 47- | 17-42 |
| 56 | 10 | 29 | 1900 | K5 057 | 1 | 3848 | 9814 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 286-1 24- | 17-42 |
| 56 | 12 | 4 | 1800 | K5 059 | 1 | 3946 | 9457 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 20-1 98- | 17-42 |
| 56 | 2 | 24 | 2230 | MO 001 | 1 | 3732 | 9412 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 124-1 75- | 17-42 |
| 56 | 2 | 24 | 2230 | MO 002 | 1 | 3652 | 9436 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 148-1 97- | 17-42 |
| 56 | 2 | 24 | 2300 | MO 003 | 1 | 3718 | 9346 | 3723 | 9341 | 3 | 10 | 0 | 0 | 0 | 0 | 1 | 38-1 6- | 17-42 |
| 56 | 4 | 3 | 30 | MO 011 | 1 | 3630 | 9429 | 3836 | 9423 | 4 | 11 | 0 | 0 | 0 | 0 | 1 | 39-1 8- | 17-42 |
| 56 | 4 | 3 | 30 | MO 012 | 1 | 3935 | 9446 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 28-1 91- | 17-42 |
| 56 | 4 | 28 | 1900 | MO 013 | 1 | 3752 | 9427 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 111-1 62- | 17-42 |
| 56 | 5 | 13 | 1900 | MO 014 | 1 | 3923 | 9413 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 45-1 97- | 17-42 |
| 56 | 7 | 2 | 1430 | MO 016 | 1 | 3923 | 9413 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 29-1 8- | 17-42 |
| 56 | 12 | 4 | 1920 | MO 019 | 1 | 3816 | 9356 | 3823 | 9351 | 9 | 10 | 0 | 0 | 0 | 0 | 2 | 26-1 4- | 17-42 |
| 56 | 12 | 4 | 1930 | MO 020 | 1 | 3820 | 9414 | 3821 | 9409 | 4 | 60 | 0 | 0 | 0 | 0 | 2 | 76-1 4- | 17-42 |
| 56 | 5 | 29 | 2136 | NE 007 | 1 | 4004 | 9652 | 4004 | 9649 | 2 | 6 | 0 | 0 | 0 | 0 | 2 | 90-1 2- | 17-42 |
| 56 | 9 | 3 | 1700 | NE 029 | 1 | 4012 | 9606 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 351-1 20- | 17-42 |
| 56 | 4 | 2 | 1030 | OR 004 | 1 | 3616 | 9550 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 184-1 18- | 17-42 |
| 56 | 4 | 2 | 2135 | OR 010 | 2 | 3623 | 9642 | 3634 | 9641 | 12 | 30 | 0 | 0 | 0 | 0 | 2 | 4-1 11- | 17-42 |
| 56 | 4 | 2 | 2135 | OR 019 | 1 | 3633 | 9612 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 194-1 104- | 17-42 |
| 56 | 5 | 23 | 1400 | OR 024 | 1 | 3638 | 9536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 178-1 96- | 17-42 |
| 56 | 5 | 30 | 2144 | OR 028 | 1 | 3648 | 9721 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 223-1 118- | 17-42 |
| 56 | 6 | 27 | 1523 | OR 038 | 1 | 3645 | 9543 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 181-1 89- | 17-42 |
| 56 | 6 | 27 | 1645 | K5 003 | 1 | 3917 | 9707 | 3920 | 9704 | 4 | 90 | 0 | 0 | 0 | 0 | 1 | 38-1 4- | 17-42 |
| 56 | 6 | 22 | 1645 | K5 004 | 1 | 3917 | 9707 | 3920 | 9704 | 4 | 90 | 0 | 0 | 0 | 0 | 1 | 38-1 4- | 17-42 |
| 56 | 6 | 22 | 1645 | K5 004 | 1 | 3917 | 9707 | 3920 | 9704 | 4 | 90 | 0 | 0 | 0 | 0 | 1 | 38-1 4- | 17-42 |
| 56 | 5 | 9 | 1730 | K5 008 | 1 | 3821 | 9816 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 273-1 22- | 17-42 |
| 56 | 5 | 9 | 1800 | K5 009 | 1 | 3824 | 9758 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 275-1 108- | 17-42 |
| 56 | 5 | 16 | 1243 | K5 013 | 1 | 3710 | 9708 | 3713 | 9705 | 4 | 38 | 0 | 0 | 0 | 0 | 1 | 214-1 62- | 17-42 |
| 56 | 5 | 16 | 1445 | K5 014 | 1 | 3723 | 9625 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 54-1 12- | 17-42 |
| 56 | 5 | 16 | 1450 | K5 015 | 1 | 3737 | 9610 | 3744 | 9558 | 13 | 132 | 0 | 0 | 0 | 0 | 1 | 52-1 36- | 17-42 |
| 56 | 5 | 16 | 1450 | K5 016 | 1 | 3714 | 9559 | 3755 | 9525 | 39 | 60 | 0 | 0 | 0 | 0 | 2 | 50-1 3- | 17-42 |
| 56 | 5 | 16 | 1618 | K5 017 | 1 | 3724 | 9627 | 3726 | 9624 | 3 | 6 | 0 | 0 | 0 | 0 | 1 | 50-1 3- | 17-42 |
| 56 | 5 | 16 | 1635 | K5 018 | 1 | 3724 | 9627 | 3726 | 9624 | 3 | 6 | 0 | 0 | 0 | 0 | 1 | 50-1 3- | 17-42 |
| 56 | 5 | 16 | 1640 | K5 019 | 1 | 3721 | 9622 | 3724 | 9619 | 4 | 6 | 0 | 0 | 0 | 0 | 1 | 50-1 3- | 17-42 |
| 56 | 5 | 16 | 1650 | K5 020 | 1 | 3721 | 9622 | 3724 | 9619 | 4 | 6 | 0 | 0 | 0 | 0 | 1 | 50-1 3- | 17-42 |
| 56 | 5 | 20 | 1450 | K5 026 | 1 | 3923 | 9744 | 3953 | 9712 | 44 | 120 | 0 | 0 | 0 | 0 | 4 | 309-1 117- | 17-42 |
| 56 | 5 | 20 | 1450 | K5 027 | 1 | 3926 | 9738 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 310-1 119- | 17-42 |
| 56 | 5 | 20 | 1450 | K5 028 | 1 | 3931 | 9738 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 316-1 119- | 17-42 |
| 56 | 5 | 20 | 1450 | K5 029 | 1 | 3931 | 9738 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 44-1 6- | 17-42 |
| 56 | 5 | 20 | 1450 | K5 030 | 1 | 3934 | 9734 | 3938 | 9729 | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 270-1 15- | 17-42 |
| 56 | 5 | 20 | 1745 | K5 031 | 1 | 3814 | 9600 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 260-1 23- | 17-42 |
| 56 | 5 | 20 | 1815 | K5 032 | 1 | 3810 | 9610 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 67-1 5- | 17-42 |
| 56 | 5 | 20 | 1937 | K5 034 | 1 | 3830 | 9526 | 387 | 9520 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 237-1 92- | 17-42 |
| 56 | 5 | 24 | 1705 | K5 035 | 1 | 3734 | 9718 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 237-1 87- | 17-42 |
| 56 | 5 | 24 | 2208 | K5 036 | 1 | 3727 | 9713 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 148-1 86- | 17-42 |
| 56 | 5 | 24 | 2208 | K5 037 | 1 | 3701 | 9444 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 293-1 110- | 17-42 |
| 56 | 5 | 24 | 1900 | K5 039 | 1 | 3856 | 9751 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 353-1 44- | 17-42 |
| 56 | 6 | 13 | 1800 | K5 044 | 1 | 3852 | 9714 | 3854 | 9512 | 2 | 18 | 0 | 0 | 0 | 0 | 1 | 44-1 58- | 17-42 |
| 56 | 6 | 13 | 1945 | K5 045 | 1 | 3858 | 9548 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 309-1 71- | 17-42 |
| 56 | 6 | 13 | 2004 | K5 046 | 1 | 3856 | 9449 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 265-1 109- | 17-42 |
| 56 | 6 | 14 | 105 | K5 048 | 1 | 3859 | 9652 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 38-1 3- | 17-42 |
| 56 | 6 | 21 | 2114 | K5 056 | 1 | 3804 | 9759 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 76-1 8- | 17-42 |
| 56 | 6 | 21 | 2209 | K5 057 | 1 | 3750 | 9709 | 3752 | 9707 | 2 | 30 | 0 | 0 | 0 | 0 | 1 | 500-1 801 | 17-42 |
| 56 | 6 | 21 | 2330 | K5 058 | 1 | 3859 | 9456 | 3901 | 9446 | 9 | 120 | 0 | 0 | 0 | 0 | 1 | | |
| 56 | 6 | 29 | 2300 | K5 062 | 1 | 3854 | 9710 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | | |

* before year means event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of SURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta Seq | Total Seq | Lat | Lon | Length miles | Width 10^-4 ft | Deaths | Injuries | Damage Class | F P P | SRAN | Area sq mi |
|----|----|-----|------------|---------|-----------|------|------|--------------|----------------|--------|----------|--------------|-------|------------|------------|
| 57 | 4 | 26 | 1730 | MO 005 | 1 | 3736 | 9417 | 0 | 3 | 0 | 0 | 1 | 0 0 0 | 120.1 77. | -00 |
| 57 | 5 | 20 | 1700 | MO 011 | 1 | 3951 | 9421 | 7 | 60 | 0 | 0 | 4 | 2 3 3 | 46.1 9. | -90 |
| 57 | 5 | 20 | 1937 | MO 013 | 1 | 3912 | 9412 | 12 | 10 | 0 | 0 | 2 | 2 3 1 | 64.1 11. | -25 |
| 57 | 6 | 7 | 1600 | MO 027 | 1 | 4002 | 9500 | 0 | 0 | 0 | 0 | 4 | 1 0 1 | 16.1 112. | -00 |
| 57 | 6 | 7 | 2000 | MO 028 | 1 | 3938 | 9435 | 0 | 0 | 0 | 0 | 1 | 0 0 0 | 31.1 98. | -00 |
| 57 | 6 | 22 | 0 | MO 033 | 1 | 3900 | 9435 | 19 | 0 | 0 | 0 | 2 | 2 3 0 | 30.1 17. | -11 |
| 57 | 12 | 19 | 1610 | MO 042 | 1 | 3722 | 9404 | 3 | 0 | 0 | 0 | 2 | 2 2 2 | 32.1 6. | -19 |
| 57 | 6 | 15 | 1400 | ME 031 | 1 | 4014 | 9619 | 6 | 0 | 0 | 0 | 0 | 1 2 1 | 69.1 6. | -00 |
| 57 | 4 | 19 | 140 | OK 023 | 1 | 3613 | 9555 | 0 | 0 | 0 | 0 | 3 | 1 1 1 | 135.1 122. | -00 |
| 57 | 4 | 19 | 145 | OK 024 | 1 | 3628 | 9555 | 9 | 0 | 0 | 0 | 1 | 1 2 3 | 43.1 8. | 2.15 |
| 57 | 4 | 22 | 2200 | OK 036 | 1 | 3645 | 9703 | 0 | 0 | 0 | 0 | 4 | 0 0 1 | 216.1 111. | -00 |
| 57 | 4 | 25 | 2332 | OK 044 | 1 | 3618 | 9540 | 0 | 0 | 0 | 0 | 3 | 1 1 1 | 180.1 116. | -00 |
| 57 | 5 | 20 | 1745 | OK 051 | 1 | 3625 | 9623 | 0 | 0 | 0 | 0 | 2 | 1 1 1 | 197.1 116. | -00 |
| 57 | 5 | 20 | 1900 | OK 054 | 1 | 3642 | 9546 | 0 | 0 | 0 | 0 | 1 | 0 1 1 | 183.1 92. | -00 |
| 57 | 5 | 20 | 2230 | OK 057 | 1 | 3632 | 9528 | 0 | 0 | 0 | 0 | 1 | 1 1 1 | 174.1 103. | -00 |
| 57 | 5 | 20 | 2300 | OK 059 | 1 | 3646 | 9523 | 0 | 0 | 0 | 0 | 1 | 1 1 1 | 170.1 87. | -00 |
| 57 | 5 | 20 | 2300 | OK 060 | 1 | 3639 | 9508 | 0 | 0 | 0 | 0 | 1 | 1 1 1 | 164.1 99. | -00 |
| 57 | 5 | 22 | 038 | OK 063 | 1 | 3642 | 9709 | 0 | 0 | 0 | 0 | 2 | 0 1 1 | 217.1 116. | -03 |
| 57 | 5 | 24 | 2200 | OK 079 | 1 | 3657 | 9448 | 0 | 0 | 0 | 0 | 4 | 1 1 1 | 151.1 88. | -00 |
| 57 | 5 | 24 | 2337 | OK 088 | 1 | 3642 | 9713 | 0 | 0 | 0 | 0 | 1 | 0 1 1 | 219.1 118. | -00 |
| 57 | 5 | 24 | 30 | OK 090 | 1 | 3648 | 9556 | 0 | 0 | 0 | 0 | 1 | 0 1 1 | 188.1 87. | -00 |
| 57 | 6 | 12 | 740 | OK 093 | 1 | 3626 | 9516 | 8 | 0 | 0 | 0 | 4 | 1 2 0 | 87.1 7. | -00 |
| 57 | 6 | 14 | 1730 | OK 100 | 1 | 3615 | 9512 | 0 | 0 | 0 | 0 | 0 | 0 1 1 | 169.1 121. | -00 |
| 57 | 8 | 14 | 1800 | OK 101 | 1 | 3630 | 9458 | 4 | 264 | 0 | 0 | 3 | 1 2 4 | 302.1 4. | 2.18 |
| 57 | 4 | 20 | 20 | OK 051 | 1 | 3729 | 9658 | 0 | 0 | 0 | 0 | 1 | 1 1 1 | 234.1 76. | -00 |
| 58 | 4 | 4 | 1730 | KS 001 | 1 | 3933 | 9559 | 0 | 0 | 0 | 0 | 1 | 0 1 1 | 350.1 80. | -00 |
| 58 | 5 | 31 | 1845 | KS 004 | 1 | 3840 | 9511 | 0 | 18 | 0 | 0 | 4 | 2 0 2 | 42.1 55. | -03 |
| 58 | 5 | 31 | 1845 | KS 005 | 1 | 3844 | 9510 | 3 | 0 | 0 | 0 | 4 | 2 2 1 | 38.1 4. | -00 |
| 58 | 5 | 31 | 2035 | KS 006 | 1 | 3715 | 9512 | 0 | 30 | 0 | 0 | 4 | 3 0 2 | 159.1 63. | -02 |
| 58 | 6 | 7 | 600 | KS 008 | 1 | 3739 | 9716 | 0 | 528 | 0 | 0 | 4 | 3 2 5 | 245.1 83. | -00 |
| 58 | 6 | 10 | 1745 | KS 009 | 1 | 3751 | 9651 | 9 | 90 | 15 | 5 | 5 | 4 2 5 | 97.1 8. | 1.56 |
| 58 | 6 | 11 | 2315 | KS 010 | 1 | 3746 | 9720 | 0 | 0 | 0 | 0 | 6 | 5 2 2 | 250.1 83. | -00 |
| 58 | 6 | 11 | 2344 | KS 011 | 1 | 3743 | 9708 | 0 | 0 | 0 | 0 | 4 | 2 2 1 | 246.1 75. | -00 |
| 58 | 6 | 12 | 250 | KS 012 | 1 | 3811 | 9610 | 0 | 0 | 0 | 0 | 0 | 2 | 263.1 23. | -00 |
| 58 | 6 | 12 | 207 | KS 013 | 1 | 3925 | 9556 | 0 | 0 | 0 | 0 | 0 | 0 | 351.1 72. | -00 |
| 58 | 6 | 12 | 1608 | KS 017 | 1 | 3715 | 9631 | 0 | 0 | 0 | 0 | 1 | 1 1 1 | 328.1 72. | -00 |
| 58 | 6 | 12 | 1630 | KS 019 | 1 | 3902 | 9600 | 4 | 60 | 0 | 0 | 4 | 2 2 3 | 90.1 4. | -46 |
| 58 | 6 | 12 | 1745 | KS 020 | 1 | 3944 | 9523 | 7 | 60 | 0 | 0 | 0 | 2 3 | 85.1 12. | -81 |
| 58 | 6 | 14 | 2030 | KS 023 | 1 | 3843 | 9500 | 7 | 9 | 0 | 0 | 0 | 0 2 1 | 90.1 7. | -12 |
| 58 | 6 | 14 | 2055 | KS 024 | 1 | 3757 | 9601 | 19 | 0 | 0 | 0 | 4 | 0 3 1 | 140.1 18. | -00 |
| 58 | 6 | 15 | 300 | KS 025 | 1 | 3840 | 1627 | 0 | 0 | 0 | 0 | 0 | 0 | 306.1 44. | -00 |
| 58 | 6 | 22 | 1340 | KS 027 | 1 | 3905 | 9443 | 0 | 8 | 0 | 0 | 0 | 1 0 1 | 41.1 68. | -00 |
| 58 | 6 | 24 | 1730 | KS 028 | 1 | 3829 | 9614 | 0 | 15 | 0 | 0 | 0 | 1 1 1 | 300.1 50. | -06 |
| 58 | 7 | 3 | 1500 | KS 029 | 1 | 3811 | 9543 | 3 | 10 | 0 | 0 | 0 | 1 0 1 | 208.1 3. | -02 |
| 58 | 7 | 11 | 45 | KS 031 | 1 | 3900 | 9534 | 0 | 0 | 0 | 0 | 0 | 2 1 1 | 7.1 46. | -00 |
| 58 | 7 | 11 | 103 | KS 032 | 1 | 3858 | 9551 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 349.1 42. | -00 |
| 58 | 7 | 11 | 120 | KS 033 | 1 | 3920 | 9551 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 353.1 66. | -00 |
| 58 | 7 | 11 | 200 | KS 034 | 1 | 3843 | 9449 | 0 | 0 | 0 | 0 | 0 | 1 0 1 | 54.1 50. | -00 |
| 58 | 7 | 11 | 235 | KS 035 | 1 | 3753 | 9544 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 186.1 21. | -00 |
| 58 | 11 | 17 | 500 | KS 040 | 1 | 3731 | 9439 | 0 | 0 | 0 | 0 | 0 | 2 1 1 | 131.1 65. | -00 |
| 58 | 11 | 17 | 930 | KS 041 | 1 | 3703 | 9647 | 9 | 66 | 0 | 0 | 4 | 1 2 3 | 39.1 9. | 1.16 |
| 58 | 11 | 17 | 945 | KS 042 | 1 | 3719 | 9631 | 4 | 264 | 0 | 0 | 4 | 1 2 4 | 48.1 7. | 2.15 |
| 58 | 11 | 17 | 945 | KS 043 | 1 | 3724 | 9628 | 0 | 0 | 0 | 0 | 0 | 2 | 217.1 62. | -00 |
| 58 | 11 | 17 | 1020 | KS 044 | 1 | 3911 | 9502 | 0 | 0 | 0 | 0 | 0 | 2 | 26.1 65. | -00 |
| 58 | 11 | 17 | 1050 | KS 045 | 1 | 3805 | 9554 | 0 | 0 | 0 | 0 | 0 | 2 | 229.1 14. | -00 |

* before year means event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F P | SIGAN | Area sq.mi |
|----|----|-----|------------|--------|-----|---------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|-----|-----------|------------|
| 58 | 11 | 17 | 1055 | KS 046 | 1 | 3830 | 9537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 11.7 16. | -00 |
| 58 | 11 | 17 | 1100 | KS 047 | 1 | 3837 | 9525 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 28.7 26. | -00 |
| 58 | 11 | 17 | 1110 | KS 048 | 1 | 3845 | 9523 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 24.7 34. | -00 |
| 58 | 11 | 17 | 1115 | KS 049 | 1 | 3906 | 9506 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28.7 59. | -00 |
| 58 | 5 | 31 | 2100 | MO 006 | 1 | 3757 | 9432 | 3759 | 9425 | 0 | 0 | 110 | 0 | 0 | 5 | 2 | 70.7 6. | -14 |
| 58 | 5 | 31 | 2115 | MO 007 | 1 | 3653 | 9412 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 4 | 2 | 139.7108. | -01 |
| 58 | 6 | 15 | 1750 | MO 011 | 1 | 3859 | 9336 | 3857 | 9332 | 4 | 132 | 0 | 0 | 0 | 4 | 2 | 123.7 4. | -06 |
| 58 | 6 | 24 | 2135 | MO 014 | 1 | 3908 | 9359 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 4 | 1 | 56.7 96. | -01 |
| 58 | 6 | 24 | 2230 | MO 015 | 1 | 3904 | 9350 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 4 | 1 | 60.7100. | -01 |
| 58 | 7 | 13 | 2045 | MO 017 | 1 | 3752 | 9426 | 3752 | 9420 | 4 | 10 | 0 | 0 | 0 | 4 | 1 | 90.7 5. | -08 |
| 58 | 7 | 17 | 730 | MO 018 | 1 | 3705 | 9436 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 2 | 50.7102. | -04 |
| 58 | 9 | 16 | 1330 | MO 022 | 1 | 3705 | 9436 | 3750 | 9357 | 2 | 15 | 0 | 0 | 0 | 5 | 2 | 143.7 86. | -03 |
| 58 | 9 | 16 | 1530 | MO 023 | 5 | 3738 | 9436 | 3800 | 9433 | 9 | 120 | 0 | 0 | 1 | 5 | 3 | 38.7 3. | -08 |
| 58 | 11 | 17 | 1230 | OR 021 | 1 | 3651 | 9533 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 37.7 26. | -16 |
| 58 | 11 | 17 | 2200 | OR 021 | 1 | 3651 | 9533 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 176.7 83. | -00 |
| 58 | 8 | 20 | 1520 | OR 025 | 1 | 3615 | 9554 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 3 | 2 | 185.7119. | -00 |
| 58 | 9 | 1 | 1700 | OR 027 | 1 | 3664 | 9710 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 218.7115. | -00 |
| 58 | 9 | 1 | 1845 | OR 028 | 1 | 3655 | 9559 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 189.7 90. | -00 |
| 58 | 11 | 16 | 1500 | OR 031 | 1 | 3642 | 9503 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 162.7 97. | -00 |
| 58 | 11 | 16 | 530 | OR 032 | 1 | 3651 | 9536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 177.7 83. | -00 |
| 58 | 11 | 17 | 1120 | OR 042 | 1 | 3642 | 9503 | 3644 | 9500 | 3 | 38 | 0 | 0 | 0 | 4 | 1 | 50.7 3. | -26 |
| 59 | 2 | 9 | 2216 | KS 001 | 1 | 3712 | 9438 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 141.7 80. | -00 |
| 59 | 3 | 25 | 1730 | KS 002 | 1 | 3812 | 9722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 269.7 79. | -00 |
| 59 | 5 | 2 | 1200 | KS 003 | 1 | 3951 | 9639 | 3937 | 9628 | 18 | 30 | 0 | 0 | 0 | 4 | 2 | 149.7 16. | -00 |
| 59 | 5 | 4 | 1749 | KS 013 | 1 | 3915 | 9723 | 3915 | 9718 | 4 | 30 | 0 | 0 | 0 | 5 | 2 | 90.7 4. | -24 |
| 59 | 5 | 4 | 1830 | KS 015 | 1 | 3923 | 9710 | 3935 | 9706 | 4 | 30 | 0 | 0 | 0 | 3 | 2 | 57.7 4. | -00 |
| 59 | 5 | 4 | 1833 | KS 016 | 1 | 3730 | 9735 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 244.7101. | -00 |
| 59 | 5 | 4 | 1905 | KS 017 | 1 | 3745 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250.7 83. | -00 |
| 59 | 5 | 4 | 1905 | KS 018 | 1 | 3751 | 9722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 254.7 83. | -00 |
| 59 | 5 | 4 | 1930 | KS 019 | 1 | 3838 | 9642 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 297.7 53. | -00 |
| 59 | 5 | 4 | 1930 | KS 020 | 1 | 3839 | 9658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 293.7 65. | -00 |
| 59 | 5 | 4 | 2015 | KS 021 | 2 | 3901 | 9618 | 3901 | 9607 | 9 | 264 | 0 | 0 | 0 | 4 | 1 | 90.7 9. | -4.92 |
| 59 | 5 | 4 | 2030 | KS 022 | 1 | 3955 | 9549 | 3955 | 9538 | 25 | 528 | 0 | 0 | 0 | 5 | 2 | 152.7 22. | -25.02 |
| 59 | 5 | 9 | 1700 | KS 023 | 1 | 3719 | 9536 | 3724 | 9530 | 7 | 60 | 0 | 0 | 0 | 5 | 3 | 44.7 7. | -90 |
| 59 | 5 | 10 | 1420 | KS 024 | 1 | 3808 | 9725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 266.7 82. | -00 |
| 59 | 5 | 17 | 1845 | KS 025 | 1 | 3758 | 9646 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 253.7 54. | -00 |
| 59 | 5 | 17 | 1845 | KS 026 | 1 | 3804 | 9801 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 265.7111. | -45 |
| 59 | 5 | 18 | 1850 | KS 027 | 1 | 3849 | 9537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.7 95. | -03 |
| 59 | 5 | 18 | 1900 | KS 028 | 1 | 3944 | 9520 | 3939 | 9516 | 6 | 30 | 0 | 0 | 0 | 5 | 3 | 8.7 91. | -50 |
| 59 | 5 | 20 | 1951 | KS 031 | 1 | 3944 | 9520 | 3939 | 9516 | 6 | 120 | 0 | 0 | 0 | 5 | 3 | 145.7 6. | -1.54 |
| 59 | 5 | 20 | 1958 | KS 032 | 1 | 3819 | 9702 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 274.7 68. | -00 |
| 59 | 5 | 26 | 1900 | KS 035 | 1 | 3810 | 9702 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 266.7 64. | -00 |
| 59 | 5 | 26 | 1900 | KS 036 | 1 | 3815 | 9805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 271.7113. | -00 |
| 59 | 5 | 26 | 1900 | KS 037 | 1 | 3815 | 9805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 271.7113. | -00 |
| 59 | 5 | 26 | 1925 | KS 038 | 1 | 3821 | 9810 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273.7117. | -00 |
| 59 | 5 | 26 | 1900 | KS 046 | 1 | 3818 | 9812 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 278.7119. | -00 |
| 59 | 5 | 29 | 1930 | KS 049 | 1 | 3918 | 9605 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 346.7 67. | -23 |
| 59 | 5 | 29 | 1930 | KS 048 | 1 | 3949 | 9654 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 329.7110. | -02 |
| 59 | 5 | 29 | 1930 | KS 049 | 1 | 3949 | 9647 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 332.7108. | -00 |
| 59 | 6 | 11 | 1545 | KS 051 | 1 | 3910 | 9441 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 40.7 73. | -00 |
| 59 | 6 | 18 | 1800 | KS 052 | 1 | 3830 | 9612 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 303.7 29. | -00 |
| 59 | 6 | 18 | 1930 | KS 053 | 1 | 3732 | 9612 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 210.7 49. | -14 |
| 59 | 8 | 18 | 1530 | KS 057 | 1 | 3832 | 9719 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 | 283.7 79. | -04 |
| 59 | 9 | 3 | 1345 | KS 058 | 1 | 3725 | 9442 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 1 | 3 | 146.7 83. | -11 |
| 59 | 9 | 27 | 1800 | KS 064 | 1 | 3703 | 9512 | 3707 | 9506 | 7 | 132 | 0 | 0 | 0 | 2 | 2 | 50.7 6. | -1.80 |

.. before year means event occurred within a 2 degree square centered on central point

LABORATION
PACKAGE NO. SR-65-001 Rev 0

PAGE 09 OF

Tornadoes within 125. NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | sta | Seq | Total # seg | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F P P | AZAN | Area sq. mi |
|----|----|-----|------------|--------|-----|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|----------|------------|-------------|
| 59 | 10 | 4 | 1350 | KS 065 | 1 | 3726 | 9510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 157.7 54- | -00 |
| 59 | 12 | 26 | 1745 | KS 066 | 1 | 3902 | 9719 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 302.7 90- | -00 |
| 59 | 2 | 9 | 1420 | MO 001 | 2 | 3705 | 9428 | 0 | 9424 | 0 | 0 | 240 | 0 | 1 | 4 | 1 | 73.7 3- | -18 |
| 59 | 2 | 9 | 2330 | MO 002 | 3 | 3729 | 9353 | 0 | 9340 | 0 | 3 | 30 | 0 | 0 | 3 | 1 | 52.7 13- | -17 |
| 59 | 5 | 9 | 1845 | MO 009 | 1 | 3643 | 9427 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 5 | 147.7 110- | -01 |
| 59 | 5 | 18 | 2300 | MO 011 | 1 | 3943 | 9414 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 37.7 111- | -00 |
| 59 | 5 | 20 | 2200 | MO 012 | 1 | 3954 | 9442 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 24.7 110- | -02 |
| 59 | 6 | 11 | 1900 | MO 014 | 1 | 3706 | 9413 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 0 | 1 | 134.7 98- | -00 |
| 59 | 9 | 26 | 800 | MO 016 | 1 | 3953 | 9448 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 22.7 107- | -00 |
| 59 | 9 | 26 | 807 | MO 018 | 1 | 4001 | 9417 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 20.7 114- | -00 |
| 59 | 9 | 26 | 1205 | MO 020 | 1 | 3734 | 9417 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 121.7 78- | -00 |
| 59 | 9 | 27 | 2000 | MO 024 | 1 | 3744 | 9318 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 105.7 117- | -00 |
| 59 | 5 | 4 | 1930 | NE 009 | 1 | 4007 | 9640 | 0 | 9623 | 0 | 40 | 0 | 0 | 0 | 0 | 1 | 21.7 9- | -00 |
| 59 | 5 | 20 | 1835 | NE 013 | 1 | 4002 | 9702 | 0 | 9623 | 0 | 1 | 90 | 0 | 0 | 0 | 1 | 57.7 35- | -17 |
| 59 | 5 | 4 | 2115 | OR 019 | 1 | 3637 | 9516 | 0 | 0 | 0 | 1 | 90 | 0 | 0 | 0 | 3 | 168.7 99- | -01 |
| 59 | 5 | 4 | 2115 | OR 030 | 1 | 3648 | 9719 | 0 | 9715 | 0 | 5 | 90 | 0 | 0 | 0 | 2 | 39.7 5- | 1-01 |
| 59 | 5 | 9 | 1535 | OR 033 | 1 | 3624 | 9628 | 0 | 9624 | 0 | 7 | 90 | 0 | 0 | 0 | 1 | 28.7 17- | -00 |
| 59 | 5 | 9 | 1600 | OR 034 | 1 | 3632 | 9621 | 0 | 9617 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 47.7 4- | -00 |
| 59 | 5 | 9 | 1740 | OR 035 | 2 | 3626 | 9507 | 0 | 9445 | 0 | 23 | 264 | 0 | 0 | 0 | 3 | 60.7 20- | 11-69 |
| 59 | 5 | 9 | 1728 | OR 036 | 1 | 3611 | 9516 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 171.7 125- | -00 |
| 59 | 5 | 9 | 1740 | OR 037 | 1 | 3625 | 9551 | 0 | 9538 | 0 | 19 | 90 | 0 | 0 | 0 | 1 | 59.7 17- | 3-27 |
| 59 | 5 | 9 | 1820 | OR 038 | 2 | 3624 | 9548 | 0 | 9534 | 0 | 22 | 15 | 0 | 0 | 0 | 3 | 35.7 20- | -64 |
| 59 | 5 | 9 | 1800 | OR 040 | 1 | 3632 | 9444 | 0 | 0 | 0 | 0 | 264 | 0 | 0 | 0 | 4 | 156.7 112- | -40 |
| 59 | 5 | 9 | 2145 | OR 043 | 1 | 3644 | 9510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 165.7 93- | -00 |
| 59 | 5 | 17 | 1855 | OR 047 | 1 | 3655 | 9727 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 227.7 116- | -00 |
| 59 | 10 | 2 | 1000 | OR 068 | 1 | 3646 | 9646 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 163.7 88- | -03 |
| 60 | 3 | 11 | 1915 | KS 001 | 1 | 3805 | 9720 | 0 | 0 | 0 | 1 | 45 | 0 | 0 | 0 | 1 | 263.7 78- | -00 |
| 60 | 4 | 13 | 1700 | KS 002 | 1 | 3854 | 9732 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 295.7 95- | -09 |
| 60 | 4 | 15 | 1500 | KS 003 | 1 | 3903 | 9500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33.7 58- | -60 |
| 60 | 4 | 16 | 1700 | KS 005 | 1 | 3829 | 9517 | 0 | 9510 | 0 | 8 | 23 | 0 | 0 | 0 | 5 | 42.7 8- | -37 |
| 60 | 4 | 16 | 1700 | KS 006 | 1 | 3736 | 9708 | 0 | 9659 | 0 | 8 | 0 | 0 | 0 | 0 | 2 | 61.7 8- | -00 |
| 60 | 4 | 16 | 1715 | KS 007 | 1 | 3731 | 9703 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 237.7 78- | -00 |
| 60 | 4 | 16 | 1650 | KS 008 | 1 | 3748 | 9650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 245.7 60- | -00 |
| 60 | 4 | 16 | 1900 | KS 009 | 1 | 3734 | 9615 | 0 | 0 | 0 | 1 | 132 | 0 | 0 | 0 | 1 | 214.7 48- | -00 |
| 60 | 4 | 28 | 1930 | KS 010 | 1 | 3742 | 9528 | 0 | 9729 | 0 | 7 | 0 | 0 | 0 | 0 | 1 | 50.7 6- | 1-79 |
| 60 | 4 | 29 | 1507 | KS 011 | 1 | 3741 | 9528 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 163.7 35- | -00 |
| 60 | 5 | 15 | 1910 | KS 016 | 1 | 3914 | 9713 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 307.7 96- | -02 |
| 60 | 5 | 15 | 50 | KS 018 | 1 | 3912 | 9720 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 63.7 4- | -64 |
| 60 | 5 | 16 | 110 | KS 019 | 1 | 3910 | 9704 | 0 | 9659 | 0 | 4 | 75 | 0 | 0 | 0 | 1 | 59.7 12- | -00 |
| 60 | 5 | 16 | 200 | KS 020 | 1 | 3946 | 9629 | 0 | 9616 | 0 | 6 | 0 | 0 | 0 | 0 | 2 | 84.7 16- | -00 |
| 60 | 5 | 19 | 1730 | KS 022 | 1 | 3909 | 9620 | 0 | 9557 | 0 | 18 | 0 | 0 | 12 | 7 | 83.7 24- | 11-15 | |
| 60 | 5 | 19 | 1830 | KS 023 | 2 | 3911 | 9557 | 0 | 9526 | 0 | 22 | 264 | 0 | 92 | 4 | 66.7 10- | -00 | |
| 60 | 5 | 19 | 1804 | KS 024 | 1 | 3914 | 9526 | 0 | 9513 | 0 | 9 | 0 | 0 | 1 | 0 | 3 | 59.7 12- | -00 |
| 60 | 5 | 19 | 1930 | KS 025 | 1 | 3913 | 9513 | 0 | 9500 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 169.7 43- | -00 |
| 60 | 5 | 19 | 1940 | KS 026 | 1 | 3722 | 9531 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1.7 52- | -00 |
| 60 | 5 | 19 | 2030 | KS 027 | 1 | 3906 | 9540 | 0 | 9544 | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 303.7 4- | -00 |
| 60 | 5 | 19 | 2045 | KS 028 | 1 | 3907 | 9540 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 148.7 76- | -00 |
| 60 | 5 | 19 | 2100 | KS 029 | 1 | 3710 | 9450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 57.7 7- | -06 |
| 60 | 5 | 24 | 1430 | KS 032 | 1 | 3848 | 9610 | 0 | 9602 | 0 | 6 | 5 | 0 | 0 | 0 | 1 | 258.7 80- | -00 |
| 60 | 5 | 25 | 300 | KS 036 | 1 | 3758 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 103.7 18- | -00 |
| 60 | 5 | 25 | 1409 | KS 037 | 1 | 3810 | 9519 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 166.7 3- | -18 |
| 60 | 6 | 1 | 1645 | KS 038 | 1 | 3946 | 9608 | 0 | 9607 | 0 | 3 | 30 | 0 | 0 | 0 | 1 | 301.7 87- | -00 |
| 60 | 6 | 1 | 1745 | KS 039 | 1 | 3859 | 9716 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 303.7 82- | -00 |
| 60 | 6 | 1 | 1745 | KS 040 | 1 | 3859 | 9709 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 243.7 97- | -00 |

*. before year means event occurred within a 2 degree square centered on central point

CALCULATION
PACKAGE NO SR-66-001 Rev 0

PAGE D 10 OF

Tornadoes within 125. JBLINGTON, KS

| yr | Mo | Day | Time (CST) | sta | Seq | Total # seg | Lat begin | Lon | Lat | Lon | end | Length miles | Width 10's ft | Deaths | Injurious | Damage Clean | F | P | P | Area sq mi |
|----|----|-----|---------------|-----|-----|----------------|--------------|------|------|------|-----|-----------------|------------------|--------|-----------|-----------------|---|---|---|---------------|
| 60 | 7 | 22 | 1557 | KS | 047 | 1 | 37.9 | 9702 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 249.7 69. |
| 60 | 7 | 29 | 1615 | KS | 048 | 1 | 37.3 | 9646 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 232.7 66. |
| 60 | 7 | 29 | 1615 | KS | 049 | 1 | 37.3 | 9646 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 232.7 66. |
| 60 | 8 | 28 | 1944 | KS | 051 | 1 | 37.7 | 9725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 252.7 87. |
| 60 | 10 | 19 | 1640 | KS | 052 | 1 | 37.9 | 9651 | 0 | 0 | 0 | 2 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 246.7 90. |
| 60 | 11 | 27 | 1900 | KS | 056 | 1 | 38.3 | 9735 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 276.7 90. |
| 60 | 11 | 27 | 1910 | KS | 057 | 1 | 38.3 | 9702 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 290.7 67. |
| 60 | 11 | 27 | 1955 | KS | 058 | 1 | 39.3 | 9739 | 0 | 0 | 0 | 2 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 311.7 123. |
| 60 | 11 | 27 | 2000 | KS | 059 | 1 | 37.5 | 9715 | 3740 | 9658 | 0 | 20 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 42.7 20. |
| 60 | 11 | 27 | 2000 | KS | 060 | 1 | 37.9 | 9628 | 3750 | 9615 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43.7 15. |
| 60 | 5 | 5 | 1650 | MO | 009 | 1 | 37.5 | 9309 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 100.7 122. |
| 60 | 5 | 19 | 1910 | MO | 016 | 1 | 37.06 | 9351 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 128.7 111. |
| 60 | 5 | 19 | 2100 | MO | 017 | 1 | 37.21 | 9428 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 132.7 79. |
| 60 | 5 | 19 | 2215 | MO | 018 | 1 | 38.48 | 9345 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 69.7 97. |
| 60 | 6 | 10 | 1720 | MO | 021 | 1 | 38.08 | 9313 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 93.7 117. |
| 60 | 6 | 11 | 1815 | MO | 023 | 1 | 39.17 | 9358 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 52.7 102. |
| 60 | 6 | 29 | 1820 | MO | 024 | 1 | 39.00 | 9358 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 60.7 92. |
| 60 | 6 | 29 | 1900 | MO | 025 | 1 | 39.45 | 9451 | 3956 | 9425 | 25 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66.7 22. |
| 60 | 6 | 29 | 2000 | MO | 026 | 1 | 40.07 | 9452 | 4006 | 9452 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180.7 1. |
| 60 | 12 | 4 | 2050 | MO | 034 | 2 | 39.15 | 9403 | 3924 | 9555 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34.7 11. |
| 60 | 5 | 18 | 230 | NE | 003 | 1 | 40.09 | 9557 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 354.7 116. |
| 60 | 5 | 19 | 1830 | NE | 008 | 1 | 40.12 | 9530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.7 118. |
| 60 | 6 | 14 | 2200 | NE | 016 | 1 | 40.14 | 9541 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 340.7 120. |
| 60 | 6 | 29 | 1900 | NE | 035 | 1 | 40.04 | 9535 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 2.7 110. |
| 60 | 2 | 9 | 1445 | OK | 002 | 1 | 36.54 | 9452 | 3657 | 9444 | 8 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65.7 7. |
| 60 | 2 | 9 | 1545 | OK | 003 | 1 | 36.56 | 9450 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 162.7 82. |
| 60 | 3 | 31 | 1800 | OK | 006 | 1 | 36.46 | 9718 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 221.7 117. |
| 60 | 4 | 16 | 1640 | OK | 012 | 1 | 36.18 | 9600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 188.7 117. |
| 60 | 4 | 16 | 2130 | OK | 014 | 1 | 36.58 | 9521 | 0 | 0 | 0 | 1 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 168.7 78. |
| 60 | 4 | 16 | 2215 | OK | 015 | 1 | 36.36 | 9512 | 3638 | 9509 | 3 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50.7 3. |
| 60 | 4 | 29 | 1415 | OK | 028 | 1 | 36.50 | 9718 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 223.7 114. |
| 60 | 5 | 5 | 1850 | OK | 049 | 2 | 36.39 | 9507 | 3700 | 9437 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49.7 32. |
| 60 | 5 | 5 | 1930 | OK | 054 | 1 | 36.14 | 9531 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176.7 120. |
| 60 | 5 | 5 | 2100 | OK | 059 | 1 | 36.30 | 9506 | 3634 | 9503 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45.7 6. |
| 60 | 5 | 18 | 1700 | OK | 065 | 1 | 36.19 | 9540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180.7 115. |
| 60 | 5 | 18 | 1730 | OK | 066 | 1 | 36.32 | 9555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 186.7 103. |
| 60 | 5 | 19 | 1835 | OK | 072 | 1 | 36.12 | 9554 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 185.7 122. |
| 60 | 5 | 19 | 1900 | OK | 073 | 1 | 36.25 | 9533 | 3628 | 9530 | 4 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 174.7 117. |
| 60 | 5 | 19 | 1930 | OK | 076 | 1 | 36.18 | 9526 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39.7 4. |
| 60 | 8 | 7 | 2315 | OK | 095 | 1 | 36.58 | 9448 | 3654 | 9446 | 4 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158.7 4. |
| 61 | 2 | 17 | 1500 | KS | 001 | 1 | 38.18 | 9647 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 274.7 52. |
| 61 | 2 | 17 | 2300 | KS | 002 | 1 | 37.09 | 9443 | 3714 | 9438 | 7 | 264 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39.7 6. |
| 61 | 3 | 5 | 1745 | KS | 003 | 1 | 37.37 | 9439 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 178.7 37. |
| 61 | 3 | 12 | 1730 | KS | 004 | 1 | 37.55 | 9449 | 0 | 0 | 0 | 2 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 115.7 45. |
| 61 | 3 | 12 | 1730 | KS | 005 | 1 | 37.50 | 9437 | 0 | 0 | 0 | 1 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 115.7 56. |
| 61 | 3 | 26 | 1530 | KS | 006 | 1 | 37.48 | 9422 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 231.7 42. |
| 61 | 3 | 26 | 1535 | KS | 007 | 1 | 38.01 | 9618 | 0 | 0 | 0 | 2 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 246.7 32. |
| 61 | 3 | 26 | 1555 | KS | 008 | 1 | 37.52 | 9617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 232.7 36. |
| 61 | 3 | 26 | 1600 | KS | 009 | 1 | 37.57 | 9617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 239.7 33. |
| 61 | 3 | 26 | 1630 | KS | 010 | 1 | 38.03 | 9538 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 168.7 11. |
| 61 | 3 | 26 | 1945 | KS | 011 | 1 | 38.01 | 9719 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 260.7 78. |
| 61 | 3 | 26 | 2000 | KS | 012 | 1 | 37.30 | 9450 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137.7 60. |
| 61 | 3 | 26 | 2130 | KS | 013 | 1 | 37.39 | 9540 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 179.7 35. |
| 61 | 4 | 21 | 1800 | KS | 014 | 1 | 38.03 | 9509 | 3813 | 9504 | 7 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36.7 6. |
| 61 | 4 | 24 | 1840 | KS | 015 | 1 | 38.04 | 9442 | 3806 | 9440 | 2 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38.7 3. |

* before year means event occurred within a 2 degree square centered on central point

CALCULATION
PACKAGE NO

SR-66-001 R110

PAGE D11

OF

Tornadoes within 125. NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | sta | Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F | P | P | AIRRN | Area sq mi | |
|----|----|-----|------------|-----|-----|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|---|---|------------|------------|------------|-----|
| 61 | 4 | 30 | 1710 | K5 | 016 | 1 | 3703 | 9650 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 0 | 2 | 218.7 90. | -03 | |
| 61 | 5 | 6 | 2000 | K5 | 017 | 1 | 3702 | 9501 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 156.7 79. | -00 | |
| 61 | 5 | 7 | 200 | K5 | 018 | 1 | 3706 | 9501 | 3711 | 9500 | 5 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 9.7 5. | -00 | |
| 61 | 5 | 7 | 820 | K5 | 019 | 1 | 3958 | 9537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.7 104. | -00 | |
| 61 | 5 | 7 | 1500 | K5 | 020 | 1 | 3907 | 9506 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27.7 60. | -00 | |
| 61 | 5 | 7 | 2015 | K5 | 022 | 1 | 3705 | 9534 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 175.7 69. | -00 | |
| 61 | 6 | 13 | 1900 | K5 | 027 | 1 | 3812 | 9545 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 278.7 4. | -00 | |
| 61 | 6 | 13 | 2130 | K5 | 028 | 1 | 3718 | 9544 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 184.7 36. | -03 | |
| 61 | 7 | 13 | 1445 | K5 | 031 | 1 | 3802 | 9722 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 201.7 80. | -00 | | |
| 61 | 7 | 13 | 1715 | K5 | 032 | 1 | 3840 | 9800 | 3842 | 9757 | 3 | 0 | 0 | 0 | 2 | 2 | 1 | 50.7 3. | -00 | | |
| 61 | 7 | 20 | 1730 | K5 | 034 | 1 | 3925 | 9705 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 318.7 96. | -00 | | |
| 61 | 7 | 20 | 1930 | K5 | 035 | 1 | 3725 | 9743 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 243.7 109. | -00 | | |
| 61 | 7 | 20 | 1935 | K5 | 036 | 1 | 3953 | 9548 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 357.7 99. | -00 | | |
| 61 | 10 | 12 | 1540 | K5 | 038 | 1 | 3941 | 9535 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 356.7 65. | -00 | | |
| 61 | 10 | 12 | 1610 | K5 | 039 | 1 | 3919 | 9547 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 7.7 78. | -00 | | |
| 61 | 10 | 12 | 1630 | K5 | 040 | 1 | 3931 | 9528 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49.7 3. | -00 | | |
| 61 | 10 | 12 | 1645 | K5 | 041 | 1 | 3921 | 9535 | 3923 | 9532 | 3 | 0 | 0 | 0 | 2 | 0 | 2 | 63.7 4. | -00 | | |
| 61 | 10 | 12 | 1730 | K5 | 042 | 1 | 3916 | 9523 | 3918 | 9518 | 5 | 0 | 0 | 0 | 4 | 1 | 2 | 311.7 66. | -00 | | |
| 61 | 10 | 12 | 1810 | K5 | 043 | 1 | 3857 | 9645 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 23.7 58. | -00 | | |
| 61 | 10 | 12 | 2006 | K5 | 044 | 1 | 3907 | 9512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42.7 11. | -70 | | |
| 61 | 11 | 2 | 240 | K5 | 045 | 2 | 3717 | 9454 | 3725 | 9445 | 12 | 30 | 0 | 0 | 4 | 1 | 3 | 107.7 92. | -07 | | |
| 61 | 3 | 5 | 2100 | M0 | 002 | 1 | 3747 | 9350 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 1 | 1 | 111.7 90. | -00 | |
| 61 | 3 | 5 | 2130 | M0 | 003 | 1 | 3742 | 9354 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 2 | 1 | 59.7 1. | -04 | |
| 61 | 3 | 12 | 1810 | M0 | 010 | 1 | 3657 | 9427 | 3658 | 9426 | 1 | 15 | 0 | 0 | 0 | 0 | 0 | 22.7 105. | -00 | | |
| 61 | 4 | 20 | 1630 | M0 | 014 | 1 | 3951 | 9450 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 65.7 76. | -01 | | |
| 61 | 4 | 22 | 200 | M0 | 015 | 1 | 3846 | 9413 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 81.7 6. | -21 | |
| 61 | 4 | 23 | 226 | M0 | 016 | 1 | 3843 | 9359 | 3844 | 9351 | 7 | 15 | 0 | 0 | 0 | 1 | 0 | 66.7 77. | -00 | | |
| 61 | 4 | 23 | 1400 | M0 | 017 | 1 | 3845 | 9410 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 2 | 3 | 90.7 8. | -14 | |
| 61 | 4 | 25 | 30 | M0 | 018 | 1 | 3720 | 9422 | 3720 | 9412 | 9 | 75 | 0 | 0 | 0 | 1 | 0 | 0 | 115.7 107. | -00 | |
| 61 | 4 | 25 | 100 | M0 | 019 | 1 | 3724 | 9342 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 2 | 2 | 3 | 129.7 120. | -00 | |
| 61 | 4 | 30 | 1930 | M0 | 020 | 1 | 3659 | 9344 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 72.7 9. | -13 | |
| 61 | 5 | 7 | 1745 | M0 | 025 | 2 | 3918 | 9403 | 3920 | 9355 | 4 | 15 | 0 | 0 | 2 | 2 | 1 | 90.7 4. | -51 | | |
| 61 | 5 | 7 | 1820 | M0 | 026 | 2 | 3923 | 9337 | 3925 | 9325 | 3 | 15 | 0 | 0 | 0 | 2 | 2 | 1 | 293.7 3. | -08 | |
| 61 | 7 | 22 | 1215 | M0 | 030 | 1 | 3858 | 9330 | 3858 | 9325 | 4 | 60 | 0 | 0 | 0 | 5 | 5 | 0 | 57.7 2. | -16 | |
| 61 | 7 | 22 | 1815 | M0 | 032 | 1 | 3855 | 9330 | 3856 | 9333 | 2 | 15 | 0 | 0 | 0 | 1 | 1 | 1 | 51.7 43. | -00 | |
| 61 | 7 | 22 | 2100 | M0 | 033 | 1 | 3850 | 9408 | 3851 | 9406 | 2 | 40 | 0 | 0 | 0 | 4 | 4 | 2 | 65.7 7. | -46 | |
| 61 | 3 | 26 | 1740 | M0 | 011 | 2 | 3633 | 9620 | 3700 | 9538 | 49 | 0 | 0 | 0 | 26 | 2 | 4 | 178.7 85. | -00 | | |
| 61 | 3 | 26 | 2015 | M0 | 013 | 1 | 3646 | 9650 | 3649 | 9642 | 8 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 360.7 3. | -00 | |
| 61 | 4 | 20 | 2335 | M0 | 017 | 1 | 3651 | 9538 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 212.7 114. | -00 | |
| 61 | 4 | 21 | 2215 | M0 | 018 | 1 | 3654 | 9711 | 3657 | 9711 | 3 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 205.7 115. | -00 | |
| 61 | 4 | 24 | 1915 | M0 | 020 | 1 | 3637 | 9656 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67.7 8. | -04 | |
| 61 | 4 | 30 | 1755 | M0 | 025 | 1 | 3624 | 9630 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 206.7 112. | -00 | | |
| 61 | 5 | 7 | 1806 | M0 | 046 | 1 | 3630 | 9642 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170.7 121. | -00 | |
| 61 | 5 | 7 | 2105 | M0 | 047 | 1 | 3648 | 9506 | 3651 | 9457 | 3 | 120 | 0 | 0 | 0 | 3 | 3 | 1 | 156.7 98. | -00 | |
| 61 | 5 | 8 | 30 | M0 | 050 | 1 | 3633 | 9642 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 153.7 100. | -00 | |
| 61 | 5 | 8 | 200 | M0 | 052 | 1 | 3615 | 9515 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 322.7 65. | -00 | |
| 61 | 5 | 21 | 1940 | M0 | 068 | 1 | 3644 | 9451 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28.7 68. | -00 | |
| 61 | 7 | 22 | 1218 | M0 | 078 | 1 | 3645 | 9445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 267.7 114. | -00 | |
| 62 | 5 | 18 | 2110 | K5 | 007 | 1 | 3905 | 9532 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 265.7 119. | -00 | |
| 62 | 5 | 27 | 1545 | K5 | 010 | 1 | 3614 | 9500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 262.7 114. | -00 | |
| 62 | 5 | 24 | 1617 | K5 | 011 | 1 | 3809 | 9806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66.7 16. | -00 | |
| 62 | 5 | 24 | 1700 | K5 | 012 | 1 | 3803 | 9811 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 322.7 27. | -00 | |
| 62 | 5 | 24 | 1700 | K5 | 013 | 1 | 3759 | 9804 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -00 |
| 62 | 5 | 24 | 1815 | K5 | 014 | 2 | 3802 | 9740 | 3803 | 9720 | 16 | 0 | 0 | 0 | 0 | 5 | 3 | 2 | 0 | 0 | -00 |
| 62 | 5 | 24 | 1815 | K5 | 015 | 1 | 3835 | 9602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -00 |

before year means event occurred within a 2 degree square centered on central point

* before year means event occurred within a 2 degree square centered on central point

LABORATION SR-88-001 Rev. 0

PACKAGE NO

D 12

OF

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Site Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10 ⁻⁴ ft | Deaths | Injuries | Damage Class | F P P | AIRRN | Area sq mi |
|----|----|-----|------------|----------|-------------|-----------|-----------|---------|---------|--------------|---------------------------|--------|----------|--------------|-------|------------|------------|
| 62 | 5 | 26 | 1915 | KS 017 | 1 | 3828 | 9610 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 302.7 27. | -00 |
| 62 | 5 | 26 | 1925 | KS 018 | 1 | 3834 | 9611 | 0 | 0 | 2 | 60 | 0 | 0 | 3 | 2 | 310.7 31. | -23 |
| 62 | 5 | 26 | 1948 | KS 019 | 1 | 3858 | 9542 | 0 | 0 | 2 | 0 | 0 | 4 | 5 | 3 | 359.7 44. | -00 |
| 62 | 5 | 27 | 2030 | KS 021 | 1 | 3950 | 9718 | 3933 | 9714 | 2 | 15 | 0 | 0 | 3 | 1 | 46.7 4. | -07 |
| 62 | 5 | 28 | 1600 | KS 025 | 1 | 3820 | 9607 | 3823 | 9605 | 1 | 90 | 0 | 0 | 5 | 2 | 28.7 3. | -33 |
| 62 | 5 | 28 | 1640 | KS 026 | 1 | 3850 | 9554 | 3856 | 9547 | 1 | 60 | 0 | 0 | 5 | 2 | 42.7 8. | -21 |
| 62 | 5 | 28 | 1720 | KS 027 | 1 | 3918 | 9532 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 6.7 66. | -00 |
| 62 | 5 | 31 | 11 | KS 031 | 1 | 3942 | 9536 | 3948 | 9536 | 6 | 4 | 0 | 0 | 2 | 2 | 360.7 6. | -05 |
| 62 | 5 | 31 | 1345 | KS 032 | 1 | 3948 | 9538 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1.7 94. | -00 |
| 62 | 5 | 31 | 1345 | KS 033 | 1 | 3948 | 9538 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8.7 88. | -00 |
| 62 | 6 | 2 | 1956 | KS 034 | 1 | 3727 | 9445 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 137.7 65. | -00 |
| 62 | 6 | 11 | 1315 | KS 039 | 1 | 3806 | 9629 | 3804 | 9628 | 2 | 23 | 0 | 0 | 0 | 0 | 159.7 2. | -11 |
| 62 | 6 | 24 | 300 | KS 047 | 1 | 3851 | 9737 | 0 | 0 | 0 | 8 | 0 | 0 | 3 | 2 | 292.7 98. | -01 |
| 62 | 7 | 6 | 1630 | KS 050 | 1 | 3801 | 9628 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 251.7 39. | -00 |
| 62 | 7 | 11 | 2220 | KS 051 | 1 | 3902 | 9523 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16.7 50. | -00 |
| 62 | 8 | 6 | 1740 | KS 054 | 1 | 3931 | 9547 | 3923 | 9540 | 7 | 200 | 0 | 3 | 5 | 4 | 146.7 10. | -2.95 |
| 62 | 8 | 6 | 1740 | KS 055 | 1 | 3917 | 9543 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 359.7 63. | -00 |
| 62 | 8 | 6 | 1840 | KS 056 | 1 | 3911 | 9534 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 5.7 57. | -00 |
| 62 | 8 | 6 | 1840 | KS 057 | 1 | 3910 | 9533 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6.7 56. | -00 |
| 62 | 8 | 6 | 1840 | KS 058 | 1 | 3910 | 9532 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 7.7 56. | -00 |
| 62 | 8 | 6 | 1900 | KS 059 | 1 | 3847 | 9515 | 3845 | 9511 | 2 | 0 | 0 | 0 | 5 | 3 | 123.7 4. | -00 |
| 62 | 8 | 6 | 1940 | KS 060 | 1 | 3846 | 9520 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 26.7 38. | -00 |
| 62 | 8 | 6 | 1940 | KS 061 | 1 | 3847 | 9524 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22.7 36. | -00 |
| 62 | 8 | 6 | 2230 | MO 003 | 1 | 3812 | 9402 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 1 | 91.7 78. | -00 |
| 62 | 5 | 26 | 1900 | MO 004 | 1 | 3921 | 9435 | 3922 | 9432 | 2 | 15 | 0 | 0 | 4 | 1 | 67.7 3. | -08 |
| 62 | 5 | 31 | 1345 | MO 006 | 1 | 3957 | 9500 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 17.7 108. | -00 |
| 62 | 5 | 31 | 1345 | MO 007 | 1 | 3958 | 9459 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 17.7 109. | -00 |
| 62 | 5 | 2 | 1945 | MO 009 | 1 | 3650 | 9428 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 1 | 145.7 102. | -00 |
| 62 | 6 | 8 | 1030 | MO 012 | 1 | 3846 | 9347 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 1 | 70.7 94. | -00 |
| 62 | 6 | 9 | 900 | MO 013 | 1 | 3653 | 9406 | 0 | 0 | 0 | 20 | 0 | 0 | 1 | 0 | 137.7 111. | -02 |
| 62 | 7 | 5 | 1900 | MO 017 | 1 | 3711 | 9412 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 132.7 95. | -00 |
| 62 | 7 | 15 | 100 | MO 019 | 1 | 3916 | 9350 | 0 | 0 | 1 | 3 | 0 | 0 | 3 | 1 | 54.7 106. | -01 |
| 62 | 7 | 21 | 725 | MO 020 | 2 | 3957 | 9457 | 3953 | 9445 | 5 | 30 | 0 | 0 | 4 | 1 | 115.7 10. | -33 |
| 62 | 10 | 6 | 2000 | MO 021 | 1 | 3751 | 9419 | 3753 | 9414 | 1 | 15 | 0 | 0 | 5 | 1 | 63.7 4. | -04 |
| 62 | 5 | 30 | 1630 | OK 037 | 1 | 3652 | 9705 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 219.7 106. | -00 |
| 62 | 6 | 1 | 1950 | OK 038 | 1 | 3617 | 9517 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 171.7 119. | -00 |
| 62 | 6 | 9 | 120 | OK 055 | 1 | 3630 | 9620 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 197.7 109. | -00 |
| 63 | 4 | 3 | 110 | KS 001 | 1 | 3750 | 9462 | 0 | 0 | 25 | 23 | 0 | 0 | 3 | 2 | 117.7 52. | -01 |
| 63 | 4 | 28 | 1620 | KS 002 | 2 | 3948 | 9619 | 4000 | 9555 | 0 | 30 | 0 | 0 | 2 | 2 | 57.7 22. | 1.44 |
| 63 | 4 | 28 | 1645 | KS 003 | 1 | 3950 | 9617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 344.7 100. | -00 |
| 63 | 4 | 28 | 1645 | KS 004 | 1 | 3951 | 9616 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 345.7 101. | -00 |
| 63 | 5 | 4 | 1740 | KS 005 | 1 | 3826 | 9526 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 44.7 17. | -00 |
| 63 | 5 | 25 | 1830 | KS 006 | 1 | 3734 | 9717 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 242.7 86. | -00 |
| 63 | 5 | 25 | 1830 | KS 007 | 1 | 3734 | 9717 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 240.7 79. | -00 |
| 63 | 5 | 25 | 1830 | KS 008 | 1 | 3759 | 9720 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 259.7 79. | -00 |
| 63 | 5 | 25 | 1830 | KS 009 | 2 | 3727 | 9458 | 3731 | 9442 | 15 | 8 | 0 | 0 | 4 | 2 | 73.7 13. | -23 |
| 63 | 6 | 5 | 1500 | KS 010 | 1 | 3731 | 9805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 249.7 122. | -00 |
| 63 | 6 | 5 | 1500 | KS 011 | 1 | 3737 | 9807 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 252.7 121. | -00 |
| 63 | 7 | 12 | 2025 | KS 018 | 1 | 3803 | 9719 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 262.7 78. | -00 |
| 63 | 8 | 6 | 1700 | KS 020 | 1 | 3759 | 9557 | 3749 | 9542 | 17 | 0 | 0 | 0 | 2 | 1 | 50.7 16. | -00 |
| 63 | 8 | 6 | 1700 | KS 021 | 1 | 3758 | 9807 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 253.7 121. | -00 |
| 63 | 9 | 4 | 300 | KS 025 | 1 | 3904 | 9520 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 18.7 53. | -00 |
| 63 | 10 | 20 | 1845 | KS 026 | 1 | 3722 | 9516 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 159.7 56. | -00 |
| 63 | 3 | 4 | 900 | MO 002 | 1 | 3733 | 9415 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 273.7 120. | -00 |

* before year means event occurred within a 2 degree square centered on central point

CALCULATION SR-EB-001 Rev 0

PAGE D13

OK

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (LST) | Sta Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Close | F P P | Area sq mi |
|----|----|-----|------------|---------|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|-------|------------|
| 63 | 4 | 22 | 30 | MO 005 | 1 | 4005 | 9513 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 1 0 0 | 11.7/116- |
| 63 | 5 | 15 | 1 | MO 010 | 1 | 3932 | 9419 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 1 0 0 | 19.7/100- |
| 63 | 5 | 15 | 300 | MO 011 | 1 | 3718 | 9429 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 1 0 0 | 134.7/80- |
| 63 | 5 | 15 | 210 | MO 012 | 1 | 3916 | 9351 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 1 0 0 | 54.7/105- |
| 63 | 11 | 22 | 210 | OK 030 | 1 | 3630 | 9644 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 206.7/116- |
| 64 | 3 | 14 | 1210 | KS 001 | 1 | 3804 | 9446 | 0 | 0 | 0 | 50 | 0 | 0 | 4 | 2 0 2 | 103.7/44- |
| 64 | 4 | 2 | 1800 | KS 002 | 1 | 3857 | 9508 | 3858 | 9500 | 7 | 0 | 0 | 0 | 0 | 1 2 2 | 81.7/6- |
| 64 | 4 | 3 | 1620 | KS 003 | 1 | 3733 | 9718 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 1 1 | 242.7/87- |
| 64 | 4 | 12 | 1526 | KS 004 | 1 | 3845 | 9529 | 5912 | 9514 | 33 | 264 | 0 | 0 | 6 | 3 4 4 | 23.7/29- |
| 64 | 4 | 12 | 1600 | KS 006 | 1 | 3807 | 9518 | 3822 | 9508 | 19 | 264 | 3 | 9 | 5 | 4 3 4 | 28.7/17- |
| 64 | 4 | 12 | 1700 | KS 007 | 1 | 3701 | 9520 | 3704 | 9519 | 1 | 75 | 0 | 0 | 4 | 1 2 3 | 28.7/3- |
| 64 | 4 | 12 | 1810 | KS 008 | 1 | 3754 | 9446 | 3756 | 9442 | 4 | 23 | 0 | 0 | 4 | 1 2 2 | 56.7/4- |
| 64 | 4 | 13 | 1510 | KS 009 | 1 | 3841 | 9808 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 283.7/118- |
| 64 | 4 | 13 | 1620 | KS 010 | 1 | 3852 | 9605 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 334.7/42- |
| 64 | 4 | 20 | 1935 | KS 013 | 1 | 3927 | 9705 | 3936 | 9657 | 11 | 15 | 0 | 0 | 4 | 2 3 1 | 34.7/11- |
| 64 | 4 | 20 | 2145 | KS 014 | 1 | 3931 | 9522 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 1 1 | 11.7/78- |
| 64 | 4 | 20 | 2200 | KS 015 | 1 | 3944 | 9511 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 1 1 | 14.7/93- |
| 64 | 4 | 20 | 2140 | KS 016 | 1 | 3842 | 9447 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 2 1 | 56.7/51- |
| 64 | 4 | 20 | 2100 | KS 017 | 1 | 3744 | 9518 | 3748 | 9514 | 5 | 0 | 0 | 0 | 4 | 2 2 1 | 38.7/5- |
| 64 | 4 | 22 | 1730 | KS 020 | 1 | 3755 | 9725 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 257.7/85- |
| 64 | 4 | 22 | 1730 | KS 021 | 1 | 3817 | 9729 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 272.7/85- |
| 64 | 4 | 22 | 1730 | KS 022 | 1 | 3825 | 9703 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 280.7/65- |
| 64 | 4 | 22 | 1800 | KS 023 | 1 | 3817 | 9643 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 276.7/47- |
| 64 | 4 | 22 | 1800 | KS 024 | 1 | 3819 | 9641 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 279.7/46- |
| 64 | 4 | 22 | 1800 | KS 025 | 1 | 3821 | 9639 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 282.7/45- |
| 64 | 4 | 22 | 1800 | KS 026 | 1 | 3823 | 9637 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 299.7/55- |
| 64 | 4 | 22 | 1800 | KS 027 | 1 | 3841 | 9643 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 304.7/52- |
| 64 | 4 | 22 | 1800 | KS 029 | 1 | 3845 | 9639 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 304.7/27- |
| 64 | 4 | 22 | 1830 | KS 030 | 1 | 3829 | 9609 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 311.7/21- |
| 64 | 4 | 22 | 1845 | KS 034 | 1 | 3840 | 9544 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 335.7/26- |
| 64 | 4 | 22 | 1900 | KS 035 | 1 | 3833 | 9517 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 42.7/21- |
| 64 | 4 | 22 | 1900 | KS 036 | 1 | 3832 | 9451 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 65.7/65- |
| 64 | 4 | 22 | 1915 | KS 037 | 1 | 3835 | 9448 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 63.7/66- |
| 64 | 4 | 22 | 1915 | KS 038 | 1 | 3846 | 9451 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 51.7/50- |
| 64 | 4 | 22 | 1930 | KS 039 | 1 | 3755 | 9726 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 1 1 | 257.7/85- |
| 64 | 4 | 25 | 1802 | KS 040 | 1 | 3819 | 9617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 0 | 280.7/29- |
| 64 | 4 | 26 | 1020 | KS 041 | 1 | 3738 | 9527 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 1 1 | 165.7/38- |
| 64 | 4 | 26 | 1545 | KS 042 | 1 | 3820 | 9459 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 1 1 | 80.7/33- |
| 64 | 4 | 26 | 1825 | KS 043 | 1 | 3834 | 9519 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 41.7/26- |
| 64 | 4 | 26 | 1930 | KS 044 | 1 | 3849 | 9457 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 44.7/49- |
| 64 | 4 | 26 | 1940 | KS 045 | 1 | 3851 | 9446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 49.7/57- |
| 64 | 4 | 26 | 1950 | KS 046 | 1 | 3846 | 9439 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 36.7/58- |
| 64 | 5 | 23 | 1730 | KS 058 | 1 | 3755 | 9728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 257.7/87- |
| 64 | 5 | 25 | 1802 | KS 059 | 1 | 3820 | 9616 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 282.7/28- |
| 64 | 5 | 26 | 1540 | KS 060 | 1 | 3816 | 9544 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 1 1 | 310.7/3- |
| 64 | 6 | 11 | 1200 | KS 069 | 1 | 3940 | 9536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 0 | 3.7/86- |
| 64 | 6 | 13 | 300 | KS 072 | 1 | 3842 | 9628 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 307.7/46- |
| 64 | 6 | 17 | 1255 | KS 073 | 1 | 3741 | 9537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 175.7/33- |
| 64 | 6 | 18 | 1810 | KS 074 | 1 | 3853 | 9533 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 347.7/40- |
| 64 | 6 | 21 | 1740 | KS 075 | 1 | 3748 | 9651 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 245.7/61- |
| 64 | 6 | 21 | 1800 | KS 076 | 1 | 3751 | 9669 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 1 1 | 247.7/58- |
| 64 | 6 | 21 | 1910 | KS 078 | 1 | 3857 | 9722 | 3902 | 9714 | 9 | 0 | 0 | 0 | 4 | 3 2 1 | 51.7/8- |
| 64 | 6 | 21 | 1925 | KS 079 | 1 | 3857 | 9711 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 1 1 | 302.7/82- |
| 64 | 6 | 21 | 2320 | KS 080 | 1 | 3920 | 9617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 1 1 | 337.7/72- |

... before year means event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10" ft | Deaths | Injuries | Damage Class | F P P | AIRAN | Area sq.mi |
|----|----|-----|------------|--------|-----|---------|-----------|-----------|---------|---------|--------------|--------------|--------|----------|--------------|-------|----------|------------|
| 04 | 6 | 22 | 1430 | KS 081 | 1 | 3951 | 9638 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 356-106- | -00 |
| 04 | 5 | 22 | 1510 | KS 082 | 1 | 3938 | 9548 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 356-106- | -00 |
| 04 | 6 | 22 | 2000 | KS 083 | 1 | 3754 | 9505 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 125-135- | -00 |
| 04 | 8 | 20 | 1720 | KS 086 | 1 | 3952 | 9532 | 3954 | 9529 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 49-13- | -05 |
| 04 | 8 | 20 | 1730 | KS 087 | 1 | 3951 | 9528 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 6-198- | -05 |
| 04 | 11 | 15 | 1500 | KS 094 | 1 | 3739 | 9604 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 2 | 208-139- | -18 |
| 04 | 4 | 12 | 1745 | MO 005 | 1 | 3940 | 9425 | 3945 | 9422 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 25-16- | -04 |
| 04 | 4 | 12 | 1830 | MO 006 | 4 | 3842 | 9424 | 3854 | 9407 | 0 | 0 | 30 | 0 | 10 | 0 | 3 | 48-138- | -47 |
| 04 | 4 | 12 | 2100 | MO 007 | 1 | 3834 | 9346 | 3841 | 9338 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 42-19- | -81 |
| 04 | 4 | 22 | 2140 | MO 009 | 1 | 3814 | 9413 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 90-169- | -00 |
| 04 | 5 | 26 | 1500 | MO 010 | 1 | 3907 | 9407 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 54-190- | -04 |
| 04 | 6 | 11 | 1430 | MO 011 | 1 | 3926 | 9409 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 45-101- | -00 |
| 04 | 6 | 22 | 1700 | MO 014 | 1 | 3946 | 9451 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 23-100- | -03 |
| 04 | 7 | 26 | 1445 | MO 017 | 1 | 3705 | 9431 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 141-189- | -00 |
| 04 | 8 | 20 | 1930 | MO 018 | 1 | 3954 | 9426 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 30-115- | -01 |
| 04 | 4 | 4 | 2315 | OK 008 | 1 | 3648 | 9730 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 225-123- | -00 |
| 04 | 4 | 20 | 1700 | OK 011 | 1 | 3612 | 9523 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 173-123- | -00 |
| 04 | 5 | 1 | 1545 | OK 019 | 1 | 3645 | 9721 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22-120- | -00 |
| 04 | 5 | 10 | 2345 | OK 037 | 1 | 3624 | 9536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 178-110- | -00 |
| 04 | 6 | 14 | 1615 | OK 041 | 1 | 3612 | 9606 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 189-124- | -01 |
| 04 | 7 | 9 | 1755 | OK 043 | 1 | 3621 | 9603 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 189-114- | -00 |
| 05 | 3 | 16 | 1930 | KS 003 | 1 | 3723 | 9836 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 221-167- | -00 |
| 05 | 5 | 8 | 1515 | KS 009 | 1 | 3710 | 9546 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 1 | 184-164- | -26 |
| 05 | 5 | 13 | 2115 | KS 010 | 1 | 3732 | 9450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 136-158- | -00 |
| 05 | 5 | 13 | 2252 | KS 014 | 4 | 3708 | 9718 | 3801 | 9732 | 31 | 30 | 0 | 0 | 10 | 0 | 5 | 348-154- | 1.77 |
| 05 | 5 | 18 | 2017 | KS 016 | 1 | 3703 | 9450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 265-175- | -00 |
| 05 | 5 | 24 | 1843 | KS 022 | 1 | 3848 | 9748 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 150-182- | -00 |
| 05 | 5 | 25 | 1900 | KS 036 | 1 | 3927 | 9708 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 289-105- | -00 |
| 05 | 5 | 25 | 1900 | KS 037 | 1 | 3845 | 9815 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 317-199- | -00 |
| 05 | 6 | 3 | 530 | KS 046 | 1 | 3722 | 9818 | 3739 | 9606 | 0 | 0 | 26 | 0 | 0 | 0 | 2 | 284-124- | -05 |
| 05 | 6 | 4 | 1643 | KS 047 | 1 | 3750 | 9750 | 3754 | 9744 | 0 | 0 | 26 | 0 | 0 | 0 | 2 | 29-119- | -33 |
| 05 | 6 | 4 | 1930 | KS 048 | 1 | 3831 | 9542 | 3841 | 9515 | 0 | 0 | 60 | 0 | 0 | 0 | 3 | 50-16- | 3.57 |
| 05 | 6 | 21 | 1500 | KS 052 | 1 | 3916 | 9633 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 65-123- | -61 |
| 05 | 6 | 27 | 1605 | KS 053 | 1 | 3914 | 9630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 327-174- | -00 |
| 05 | 7 | 9 | 1500 | KS 056 | 1 | 3852 | 9450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 328-171- | -00 |
| 05 | 8 | 27 | 330 | KS 061 | 1 | 3906 | 9465 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 46-155- | -00 |
| 05 | 9 | 3 | 2000 | KS 062 | 1 | 3759 | 9718 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 3 | 40-168- | -00 |
| 05 | 9 | 13 | 1820 | KS 064 | 1 | 3935 | 9509 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 246-184- | -00 |
| 05 | 9 | 20 | 1400 | KS 065 | 1 | 3948 | 9510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 17-197- | -00 |
| 05 | 9 | 20 | 1745 | KS 066 | 1 | 3706 | 9730 | 3713 | 9724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14-197- | -00 |
| 05 | 9 | 20 | 1822 | KS 067 | 1 | 3737 | 9716 | 3812 | 9637 | 43 | 0 | 0 | 0 | 0 | 0 | 2 | 34-18- | -00 |
| 05 | 9 | 20 | 1934 | KS 068 | 1 | 3736 | 9718 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23-138- | -00 |
| 05 | 9 | 20 | 2145 | KS 069 | 1 | 3843 | 9506 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 244-186- | -00 |
| 05 | 4 | 3 | 1900 | MO 002 | 1 | 3719 | 9553 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 43-140- | -00 |
| 05 | 4 | 5 | 1600 | MO 005 | 1 | 3719 | 9418 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 123-102- | -00 |
| 05 | 4 | 10 | 1330 | MO 007 | 1 | 3929 | 9502 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 130-186- | -04 |
| 05 | 4 | 10 | 1515 | MO 009 | 1 | 3947 | 9425 | 3952 | 9436 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 22-181- | -11 |
| 05 | 4 | 10 | 1930 | MO 012 | 1 | 3839 | 9407 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 54-19- | -28 |
| 05 | 5 | 26 | 210 | MO 014 | 1 | 3846 | 9420 | 3849 | 9409 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 71-178- | -01 |
| 05 | 5 | 26 | 215 | MO 015 | 1 | 3858 | 9421 | 3901 | 9437 | 4 | 150 | 0 | 0 | 0 | 0 | 1 | 71-19- | -03 |
| 05 | 5 | 26 | 200 | MO 016 | 1 | 3920 | 9332 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 46-14- | 1.27 |
| 05 | 5 | 26 | 1520 | MO 017 | 1 | 3836 | 9421 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 57-120- | -00 |
| 05 | 6 | 4 | 1830 | MO 023 | 1 | 3903 | 9334 | 3912 | 9325 | 13 | 30 | 0 | 0 | 0 | 0 | 2 | 71-166- | -00 |
| 05 | 6 | 20 | 2230 | MO 025 | 1 | 3854 | 9423 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 2 | 38-111- | -74 |

... before year means event occurred within a 2 degree square centered on central point

UNCLASSIFIED
PAGE NO.

PAGE 015 OF

SR-88-00: Rev 0

Tornadoes within 175 NM of SURLINGTON, MS

| Tr | No | Day | Time (CST) | Sta Seq | Total # | Lat begin | Lon | Lat end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F P P | AZAN | Area sq.mi |
|----|----|-----|---------------|---------|------------|--------------|------|------------|-----------------|------------------|--------|----------|-----------------|-------|-----------|---------------|
| 65 | 3 | 16 | 2000 | 04 003 | 1 | 3640 | 9624 | 0 | 2 | 15 | 0 | 0 | 0 | 2 1 1 | 200./100. | -06 |
| 65 | 4 | 4 | 2225 | 04 007 | 1 | 3638 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 220./125. | -00 |
| 65 | 4 | 5 | 1400 | 04 010 | 1 | 3644 | 9600 | 0 | 1 | 20 | 0 | 0 | 0 | 2 1 2 | 190./91. | -06 |
| 65 | 5 | 6 | 2100 | 04 029 | 1 | 3648 | 9556 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 188./87. | -00 |
| 65 | 5 | 8 | 1600 | 04 032 | 1 | 3630 | 9612 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1 1 | 193./107. | -00 |
| 65 | 5 | 15 | 1500 | 04 041 | 1 | 3648 | 9505 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 165./91. | -00 |
| 65 | 5 | 18 | 1500 | 04 042 | 1 | 3652 | 9452 | 0 | 0 | 0 | 0 | 0 | 0 | 2 1 1 | 154./91. | -00 |
| 65 | 5 | 18 | 3145 | 04 045 | 1 | 3619 | 9513 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 169./117. | -00 |
| 65 | 6 | 13 | 125 | 04 061 | 1 | 3650 | 9722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 224./117. | -00 |
| 65 | 6 | 13 | 125 | 04 062 | 1 | 3650 | 9722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 224./117. | -00 |
| 66 | 4 | 19 | 1525 | 04 001 | 1 | 3855 | 9648 | 3858 | 9640 | 5 | 0 | 4 | 6 | 3 2 2 | 64./7. | -34 |
| 66 | 5 | 11 | 1345 | 04 002 | 1 | 3939 | 9712 | 3941 | 9706 | 30 | 0 | 0 | 5 | 3 1 2 | 67./5. | -16 |
| 66 | 5 | 11 | 1345 | 04 003 | 1 | 3934 | 9632 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 334./89. | -00 |
| 66 | 5 | 11 | 1415 | 04 034 | 1 | 3939 | 9640 | 3940 | 9623 | 0 | 0 | 0 | 0 | 0 0 1 | 86./13. | -00 |
| 66 | 5 | 11 | 1515 | 04 005 | 1 | 3803 | 9625 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 252./36. | -00 |
| 66 | 5 | 11 | 1530 | 04 006 | 1 | 3802 | 9614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 265./29. | -00 |
| 66 | 5 | 11 | 1700 | 04 007 | 1 | 3910 | 9548 | 3912 | 9537 | 198 | 0 | 0 | 0 | 0 0 1 | 77./9. | -76 |
| 66 | 5 | 15 | 1740 | 04 009 | 1 | 3909 | 9441 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 181./57. | -00 |
| 66 | 5 | 16 | 2100 | 04 010 | 1 | 3710 | 9718 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 40./72. | -00 |
| 66 | 5 | 20 | 1755 | 04 011 | 1 | 3812 | 9731 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 230./100. | -00 |
| 66 | 5 | 20 | 1745 | 04 012 | 1 | 3806 | 9724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 269./26. | -00 |
| 66 | 5 | 20 | 1745 | 04 013 | 1 | 3806 | 9724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 264./81. | -00 |
| 66 | 5 | 20 | 1845 | 04 014 | 1 | 3811 | 9730 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 264./81. | -00 |
| 66 | 6 | 7 | 1750 | 04 016 | 1 | 3812 | 9731 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 268./86. | -00 |
| 66 | 6 | 8 | 1737 | 04 019 | 1 | 3908 | 9709 | 3913 | 9701 | 15 | 0 | 0 | 0 | 0 0 1 | 269./86. | -00 |
| 66 | 6 | 8 | 1800 | 04 020 | 1 | 3904 | 9646 | 3916 | 9646 | 30 | 0 | 0 | 0 | 2 2 2 | 51./8. | -26 |
| 66 | 6 | 8 | 1900 | 04 021 | 1 | 3855 | 9555 | 3905 | 9555 | 198 | 0 | 50 | 6 | 3 2 4 | 360./12. | 3.19 |
| 66 | 6 | 8 | 2000 | 04 022 | 1 | 3910 | 9511 | 3916 | 9450 | 264 | 16 | 40 | 8 | 5 3 4 | 57./18. | 10.63 |
| 66 | 6 | 8 | 1915 | 04 023 | 1 | 3914 | 9502 | 3916 | 9453 | 60 | 1 | 2 | 5 | 4 3 3 | 70./17. | 1.81 |
| 66 | 6 | 12 | 1601 | 04 024 | 1 | 3903 | 9527 | 0 | 0 | 0 | 0 | 0 | 0 | 2 2 2 | 74./7. | -00 |
| 66 | 6 | 15 | 1500 | 04 025 | 1 | 3728 | 9727 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 12./50. | -00 |
| 66 | 6 | 15 | 1500 | 04 026 | 1 | 3728 | 9727 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 341./96. | -00 |
| 66 | 8 | 20 | 1628 | 04 033 | 1 | 3936 | 9730 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 241./95. | -00 |
| 66 | 9 | 2 | 1630 | 04 034 | 1 | 3912 | 9742 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 314./117. | -00 |
| 66 | 4 | 19 | 1800 | 04 002 | 1 | 3933 | 9406 | 0 | 0 | 5 | 0 | 0 | 0 | 0 0 0 | 302./110. | -01 |
| 66 | 5 | 11 | 1800 | 04 006 | 1 | 3913 | 9358 | 0 | 0 | 6 | 0 | 0 | 0 | 1 1 1 | 36./123. | -03 |
| 66 | 5 | 11 | 1815 | 04 007 | 1 | 3727 | 9434 | 0 | 0 | 3 | 0 | 0 | 0 | 1 0 0 | 54./99. | -00 |
| 66 | 5 | 11 | 1845 | 04 008 | 1 | 3728 | 9417 | 3728 | 9414 | 75 | 0 | 0 | 0 | 0 0 0 | 131./71. | -00 |
| 66 | 5 | 12 | 1645 | 04 020 | 1 | 3918 | 9431 | 0 | 0 | 0 | 0 | 0 | 0 | 2 1 1 | 90./2. | -04 |
| 66 | 10 | 14 | 1425 | 04 022 | 1 | 3740 | 9310 | 3741 | 9307 | 66 | 0 | 0 | 0 | 0 0 0 | 40./84. | -00 |
| 66 | 5 | 11 | 1830 | 04 010 | 1 | 3610 | 9554 | 0 | 0 | 66 | 0 | 0 | 0 | 1 1 3 | 67./3. | -37 |
| 66 | 5 | 11 | 1930 | 04 011 | 1 | 3636 | 9448 | 0 | 0 | 30 | 0 | 0 | 0 | 2 1 2 | 185./124. | -11 |
| 66 | 5 | 11 | 1930 | 04 012 | 1 | 3610 | 9541 | 0 | 0 | 360 | 0 | 0 | 0 | 1 1 4 | 157./107. | -68 |
| 66 | 5 | 16 | 2153 | 04 016 | 1 | 3641 | 9718 | 0 | 0 | 15 | 0 | 0 | 0 | 2 2 1 | 82./7. | -12 |
| 66 | 5 | 17 | 1750 | 04 022 | 1 | 3650 | 9724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 0 | 220./121. | -00 |
| 67 | 6 | 7 | 1825 | 04 005 | 1 | 3946 | 9541 | 0 | 0 | 30 | 0 | 0 | 0 | 2 1 2 | 224./118. | -14 |
| 67 | 6 | 7 | 1945 | 04 006 | 1 | 3804 | 9750 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 0 | 360./92. | -00 |
| 67 | 6 | 11 | 1725 | 04 014 | 1 | 3906 | 9600 | 3925 | 9547 | 0 | 0 | 0 | 0 | 0 0 0 | 264./102. | -00 |
| 67 | 6 | 11 | 1800 | 04 015 | 2 | 3910 | 9540 | 3945 | 9520 | 0 | 0 | 0 | 0 | 1 1 1 | 28./21. | -00 |
| 67 | 8 | 29 | 1600 | 04 024 | 1 | 3742 | 9700 | 0 | 0 | 0 | 0 | 0 | 0 | 5 4 2 | 24./35. | -00 |
| 67 | 1 | 24 | 1150 | 04 001 | 1 | 3936 | 9456 | 3941 | 9453 | 0 | 0 | 0 | 0 | 1 1 1 | 243./70. | -00 |
| 67 | 1 | 24 | 1235 | 04 002 | 1 | 3927 | 9414 | 0 | 0 | 30 | 0 | 0 | 0 | 2 2 1 | 25./6. | -36 |
| 67 | 1 | 24 | 1250 | 04 003 | 2 | 3906 | 9415 | 3915 | 9403 | 15 | 0 | 0 | 0 | 2 3 1 | 43./99. | -07 |
| 67 | 1 | 24 | 1250 | 04 004 | 1 | 3933 | 9403 | 0 | 0 | 60 | 2 | 18 | 6 | 3 3 3 | 46./13. | 1.52 |
| 67 | 1 | 24 | 1250 | 04 004 | 1 | 3933 | 9403 | 0 | 0 | 30 | 0 | 0 | 0 | 0 1 0 | 46./109. | -11 |

*. Before year means event occurred within a 2 degree square centered on central point

CALCULATION SR-66-001 Rev 0

PAGE D16 OF

Tornadoes within 125 NM of WASHINGTON, KS

| Fr | Mo | Day | Time (CST) | Sta Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F P P | AIRAN | Area sq-mi |
|----|----|-----|------------|---------|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|-------|-------|------------|
| 67 | 1 | 27 | 1945 | MO 010 | 1 | 3701 | 9410 | 3704 | 9406 | 1 | 60 | 0 | 0 | 5 | 2 1 3 | 47.1 | 4.17 |
| 67 | 4 | 16 | 1945 | MO 012 | 1 | 3820 | 9421 | 3822 | 9417 | 0 | 15 | 0 | 0 | 4 | 1 0 1 | 57.1 | 4.01 |
| 67 | 4 | 16 | 1945 | MO 013 | 1 | 3830 | 9434 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 0 0 | 73.1 | 55.00 |
| 67 | 4 | 16 | 1945 | MO 014 | 1 | 3846 | 9430 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 0 0 | 60.1 | 64.00 |
| 67 | 4 | 21 | 1230 | MO 016 | 1 | 3937 | 9435 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 1 0 1 | 31.1 | 97.00 |
| 67 | 4 | 21 | 1300 | MO 017 | 1 | 3944 | 9414 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 0 1 | 37.1 | 112.00 |
| 67 | 4 | 21 | 1320 | MO 020 | 3 | 3928 | 9346 | 3936 | 9333 | 14 | 132 | 0 | 0 | 5 | 3 3 3 | 51.1 | 13.69 |
| 67 | 4 | 21 | 1500 | MO 024 | 3 | 3905 | 9320 | 3911 | 9259 | 3 | 30 | 0 | 0 | 4 | 2 3 2 | 70.1 | 17.23 |
| 67 | 4 | 21 | 1503 | MO 025 | 1 | 3906 | 9339 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 0 0 | 61.1 | 108.00 |
| 67 | 4 | 21 | 1510 | MO 026 | 1 | 3824 | 9420 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 0 0 | 81.1 | 64.00 |
| 67 | 4 | 21 | 1510 | MO 028 | 1 | 3924 | 9436 | 3926 | 9432 | 0 | 15 | 0 | 0 | 4 | 1 0 1 | 57.1 | 4.01 |
| 67 | 6 | 7 | 1920 | MO 038 | 1 | 4015 | 9505 | 0 | 0 | 0 | 15 | 0 | 0 | 2 | 0 0 0 | 15.1 | 212.00 |
| 67 | 6 | 9 | 2145 | MO 039 | 1 | 4015 | 9413 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 1 1 | 142.1 | 115.03 |
| 67 | 6 | 10 | 2000 | MO 040 | 1 | 3643 | 9413 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 1 1 | 66.1 | 109.00 |
| 67 | 6 | 10 | 1100 | MO 041 | 1 | 3901 | 9335 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 1 0 0 | 44.1 | 80.03 |
| 67 | 6 | 10 | 15 | MO 043 | 1 | 3911 | 9429 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 0 1 | 126.1 | 68.00 |
| 67 | 6 | 12 | 300 | MO 047 | 1 | 3734 | 9432 | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 0 0 1 | 148.1 | 6.04 |
| 67 | 8 | 18 | 1730 | MO 054 | 1 | 3844 | 9421 | 3839 | 9417 | 0 | 15 | 0 | 0 | 2 | 1 1 1 | 101.1 | 113.03 |
| 67 | 10 | 24 | 705 | MO 055 | 1 | 3752 | 9320 | 0 | 0 | 0 | 9 | 0 | 0 | 3 | 1 1 1 | 54.1 | 29.00 |
| 67 | 1 | 25 | 2330 | OK 002 | 4 | 3622 | 9536 | 3639 | 9507 | 33 | 0 | 0 | 2 | 4 | 2 4 1 | 160.1 | 98.00 |
| 67 | 1 | 25 | 2303 | OK 003 | 1 | 3642 | 9500 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 2 1 1 | 39.1 | 12.00 |
| 67 | 4 | 9 | 1828 | OK 006 | 1 | 3612 | 9545 | 3621 | 9536 | 13 | 0 | 0 | 0 | 0 | 0 0 1 | 178.1 | 121.00 |
| 67 | 4 | 9 | 1852 | OK 007 | 1 | 3613 | 9536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 214.1 | 113.01 |
| 67 | 4 | 12 | 230 | OK 012 | 1 | 3640 | 9659 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 2 0 1 | 158.1 | 99.00 |
| 67 | 5 | 29 | 1600 | OK 018 | 1 | 3642 | 9454 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 219.1 | 103.04 |
| 67 | 5 | 31 | 1810 | OK 019 | 1 | 3654 | 9703 | 0 | 0 | 0 | 65 | 0 | 0 | 4 | 1 0 3 | 178.1 | 87.00 |
| 67 | 6 | 11 | 32 | OK 034 | 1 | 3647 | 9538 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 155.1 | 90.00 |
| 67 | 6 | 11 | 136 | OK 035 | 1 | 3652 | 9454 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 1 | 164.1 | 111.06 |
| 67 | 9 | 18 | 1610 | OK 048 | 1 | 3628 | 9502 | 0 | 0 | 0 | 60 | 0 | 0 | 2 | 0 0 3 | 220.1 | 124.09 |
| 67 | 9 | 26 | 1430 | OK 049 | 1 | 3639 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 3 1 | 54.1 | 34.00 |
| 68 | 4 | 16 | 1900 | KS 001 | 1 | 3904 | 9610 | 3924 | 9535 | 30 | 0 | 0 | 0 | 4 | 0 1 1 | 67.1 | 3.07 |
| 68 | 4 | 16 | 1904 | KS 002 | 1 | 3706 | 9651 | 3707 | 9651 | 2 | 14 | 0 | 0 | 0 | 0 1 1 | 55.1 | 9.00 |
| 68 | 4 | 19 | 1845 | KS 003 | 1 | 3735 | 9615 | 3740 | 9606 | 5 | 0 | 0 | 0 | 0 | 0 0 1 | 321.1 | 75.00 |
| 68 | 5 | 2 | 1950 | KS 005 | 1 | 3712 | 9642 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 0 1 | 236.1 | 99.00 |
| 68 | 5 | 2 | 2028 | KS 009 | 1 | 3718 | 9724 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 2 1 1 | 248.1 | 21.04 |
| 68 | 6 | 10 | 1845 | KS 010 | 1 | 3806 | 9606 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 0 1 | 148.1 | 99.06 |
| 68 | 4 | 19 | 2100 | MO 007 | 1 | 3650 | 9435 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 1 1 2 | 52.1 | 5.58 |
| 68 | 5 | 15 | 1530 | MO 011 | 1 | 3850 | 9403 | 3853 | 9358 | 3 | 60 | 0 | 0 | 4 | 2 2 3 | 27.1 | 3.11 |
| 68 | 5 | 15 | 1545 | MO 012 | 1 | 3917 | 9402 | 3920 | 9400 | 3 | 15 | 0 | 0 | 4 | 1 2 1 | 55.1 | 12.20 |
| 68 | 5 | 15 | 1600 | MO 013 | 3 | 3853 | 9346 | 3900 | 9333 | 7 | 15 | 0 | 0 | 4 | 2 3 1 | 46.1 | 4.07 |
| 68 | 5 | 15 | 1600 | MO 014 | 1 | 3903 | 9333 | 3906 | 9329 | 1 | 15 | 0 | 0 | 4 | 1 1 1 | 135.1 | 86.01 |
| 68 | 5 | 15 | 1700 | MO 015 | 1 | 3713 | 9425 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 0 2 | 88.1 | 75.01 |
| 68 | 6 | 11 | 2855 | MO 020 | 1 | 3616 | 9405 | 0 | 0 | 0 | 30 | 0 | 0 | 4 | 2 0 1 | 351.1 | 118.00 |
| 68 | 4 | 16 | 1825 | NE 001 | 1 | 4011 | 9605 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 0 1 | 219.1 | 115.01 |
| 68 | 4 | 19 | 1600 | OK 010 | 1 | 3645 | 9712 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 0 0 1 | 222.1 | 114.00 |
| 68 | 5 | 3 | 1745 | OK 024 | 1 | 3649 | 9716 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 0 0 1 | 96.1 | 10.38 |
| 68 | 5 | 22 | 2030 | OK 039 | 1 | 3655 | 9722 | 3654 | 9710 | 6 | 30 | 0 | 0 | 4 | 1 1 1 | 155.1 | 84.00 |
| 68 | 5 | 23 | 30 | OK 040 | 1 | 3658 | 9456 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 1 1 | 73.1 | 3.11 |
| 68 | 12 | 18 | 1300 | OK 054 | 1 | 3621 | 9600 | 3622 | 9556 | 1 | 30 | 0 | 0 | 4 | 2 1 2 | 67.1 | 10.00 |
| 69 | 5 | 5 | 1835 | KS 002 | 1 | 3818 | 9529 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 1 1 | 20.1 | 53.00 |
| 69 | 5 | 7 | 1500 | KS 003 | 1 | 3904 | 9518 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 0 1 | 239.1 | 115.28 |
| 69 | 5 | 31 | 2030 | KS 007 | 1 | 3715 | 9745 | 0 | 0 | 0 | 75 | 0 | 0 | 5 | 1 1 3 | 70.1 | 6.07 |
| 69 | 6 | 12 | 1600 | KS 008 | 1 | 3840 | 9656 | 3842 | 9629 | 3 | 11 | 0 | 6 | 5 | 2 1 1 | 291.1 | 98.11 |
| 69 | 6 | 21 | 2240 | KS 009 | 1 | 3849 | 9738 | 0 | 0 | 0 | 30 | 0 | 0 | 7 | 3 1 2 | 113.1 | 8.354 |
| 69 | 6 | 23 | 1600 | KS 010 | 1 | 3759 | 9759 | 3756 | 9730 | 8 | 210 | 0 | 6 | 5 | 4 2 4 | 341.1 | 87.00 |
| 69 | 6 | 25 | 1345 | KS 012 | 1 | 3936 | 9617 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 0 1 | | |

* before year means event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta Seq | Total # seq | Lat begin | Lat end | Lon | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F P P | AIRRN | Area sq.mi |
|----|----|-----|------------|---------|-------------|-----------|---------|------|--------------|---------------|--------|----------|--------------|-------|------------|------------|
| 69 | 7 | 9 | 1530 | KS 015 | 1 | 3909 9644 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 318.7 74. | .00 |
| 69 | 7 | 9 | 1700 | KS 016 | 2 | 3857 9506 | 3859 | 9458 | 7 | 0 | 0 | 4 | 5 | 2 | 72.7 7. | .00 |
| 69 | 4 | 4 | 1615 | MO 002 | 1 | 3836 9422 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 70.7 66. | .00 |
| 69 | 4 | 4 | 1720 | MO 003 | 1 | 3843 9359 | 0 | 0 | 0 | 43 | 0 | 1 | 5 | 2 | 70.7 85. | .05 |
| 69 | 4 | 26 | 1810 | MO 005 | 1 | 3855 9422 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 1 | 56.7 74. | .01 |
| 69 | 4 | 26 | 2110 | MO 006 | 1 | 3751 9416 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 109.7 71. | .00 |
| 69 | 6 | 22 | 100 | MO 007 | 1 | 3911 9436 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 1 | 41.7 76. | .01 |
| 69 | 6 | 22 | 1630 | MO 008 | 1 | 3736 9354 | 0 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 114.7 93. | .00 |
| 69 | 6 | 23 | 1830 | MO 012 | 1 | 3736 9325 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 109.7 11. | .00 |
| 69 | 6 | 26 | 1830 | MO 013 | 2 | 3911 9438 | 1918 | 9429 | 5 | 30 | 0 | 5 | 4 | 3 | 45.7 10. | .32 |
| 69 | 6 | 26 | 1835 | MO 014 | 1 | 3914 9442 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 2 | 37.7 75. | .03 |
| 69 | 6 | 26 | 1900 | MO 015 | 1 | 3917 9417 | 3919 | 9410 | 6 | 30 | 0 | 0 | 4 | 2 | 70.7 6. | .58 |
| 69 | 6 | 26 | 1900 | MO 016 | 1 | 3925 9413 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 1 | 44.7 98. | .00 |
| 69 | 7 | 7 | 1620 | MO 019 | 1 | 3909 9434 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 2 | 43.7 76. | .00 |
| 69 | 4 | 4 | 1705 | OK 001 | 1 | 3636 9452 | 0 | 0 | 0 | 30 | 0 | 0 | 4 | 1 | 158.7 106. | .01 |
| 69 | 4 | 16 | 1820 | OK 007 | 1 | 3653 9445 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 23.7 101. | .00 |
| 69 | 4 | 16 | 1915 | OK 008 | 1 | 3654 9644 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 44.7 98. | .00 |
| 69 | 6 | 23 | 2200 | OK 025 | 1 | 3648 9512 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 165.7 89. | .00 |
| 70 | 3 | 2 | 2345 | KS 002 | 2 | 3805 9716 | 3822 | 9701 | 23 | 108 | 0 | 0 | 6 | 2 | 32.7 22. | 4.74 |
| 70 | 5 | 8 | 1830 | KS 003 | 1 | 3848 9800 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 287.7 114. | .00 |
| 70 | 5 | 8 | 1926 | KS 004 | 1 | 3902 9758 | 3909 | 9752 | 9 | 30 | 0 | 0 | 4 | 2 | 34.7 8. | .55 |
| 70 | 5 | 9 | 1730 | KS 006 | 1 | 3808 9439 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 2 | 97.7 49. | .03 |
| 70 | 5 | 11 | 1720 | KS 007 | 1 | 3856 9800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 291.7 116. | .00 |
| 70 | 5 | 11 | 1815 | KS 008 | 1 | 3852 9806 | 0 | 0 | 1 | 60 | 0 | 0 | 4 | 1 | 289.7 119. | .11 |
| 70 | 5 | 11 | 1830 | KS 009 | 1 | 3857 9800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 292.7 116. | .00 |
| 70 | 6 | 12 | 2048 | KS 018 | 1 | 3710 9727 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 235.7 106. | .00 |
| 70 | 6 | 19 | 2130 | KS 024 | 1 | 3942 9777 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 322.7 112. | .00 |
| 70 | 11 | 5 | 1745 | KS 029 | 1 | 3905 9538 | 0 | 0 | 1 | 90 | 0 | 0 | 4 | 2 | 3.7 51. | .17 |
| 70 | 6 | 12 | 1835 | MO 016 | 1 | 3917 9330 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 58.7 119. | .00 |
| 70 | 6 | 12 | 1840 | MO 017 | 1 | 3928 9333 | 3929 | 9330 | 2 | 15 | 0 | 0 | 2 | 1 | 67.7 3. | .08 |
| 70 | 6 | 12 | 1855 | MO 026 | 1 | 3839 9314 | 0 | 0 | 0 | 6 | 0 | 1 | 4 | 1 | 78.7 117. | .00 |
| 70 | 9 | 2 | 1603 | MO 033 | 1 | 3840 9404 | 0 | 0 | 0 | 9 | 0 | 0 | 2 | 0 | 71.7 80. | .01 |
| 70 | 10 | 26 | 1445 | MO 037 | 1 | 3650 9424 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 144.7 104. | .00 |
| 70 | 6 | 15 | 2235 | NE 008 | 1 | 4010 9610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 349.7 118. | .00 |
| 70 | 5 | 9 | 2035 | OK 009 | 1 | 3622 9503 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 165.7 116. | .00 |
| 70 | 8 | 11 | 1900 | OK 024 | 1 | 3637 9509 | 3650 | 9505 | 9 | 45 | 1 | 1 | 5 | 2 | 14.7 13. | .79 |
| 70 | 6 | 20 | 1930 | OK 030 | 1 | 3644 9718 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 221.7 119. | .03 |
| 70 | 9 | 3 | 2030 | OK 035 | 1 | 3654 9506 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 161.7 85. | .60 |
| 70 | 9 | 3 | 2215 | OK 036 | 1 | 3612 9530 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176.7 122. | .00 |
| 71 | 5 | 5 | 1640 | KS 003 | 1 | 3708 9446 | 0 | 0 | 1 | 132 | 0 | 0 | 3 | 2 | 146.7 79. | .25 |
| 71 | 5 | 11 | 1615 | KS 006 | 1 | 3702 9451 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 151.7 82. | .18 |
| 71 | 5 | 17 | 2305 | KS 010 | 1 | 3915 9710 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 309.7 97. | .00 |
| 71 | 5 | 21 | 1340 | KS 012 | 1 | 3344 9649 | 0 | 0 | 2 | 140 | 0 | 0 | 0 | 1 | 300.7 61. | .53 |
| 71 | 5 | 31 | 1900 | KS 017 | 1 | 3848 9439 | 0 | 0 | 0 | 30 | 0 | 0 | 3 | 1 | 55.7 59. | .05 |
| 71 | 5 | 31 | 2030 | KS 018 | 1 | 3812 9715 | 3812 | 9708 | 3 | 60 | 0 | 0 | 5 | 2 | 90.7 6. | .36 |
| 71 | 5 | 31 | 2045 | KS 019 | 1 | 3814 9709 | 0 | 0 | 0 | 60 | 0 | 0 | 4 | 1 | 270.7 69. | .10 |
| 71 | 5 | 31 | 2145 | KS 020 | 1 | 3755 9510 | 0 | 0 | 2 | 90 | 0 | 3 | 3 | 1 | 128.7 31. | .34 |
| 71 | 6 | 2 | 1115 | KS 021 | 1 | 3752 9741 | 0 | 0 | 0 | 70 | 0 | 0 | 2 | 0 | 257.7 97. | .05 |
| 71 | 6 | 6 | 2135 | KS 023 | 1 | 3848 9637 | 0 | 0 | 2 | 60 | 0 | 0 | 5 | 3 | 306.7 55. | .23 |
| 71 | 6 | 6 | 2125 | KS 024 | 1 | 3853 9553 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 347.7 40. | .00 |
| 71 | 6 | 9 | 2030 | KS 026 | 1 | 3902 9738 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 298.7 103. | .02 |
| 71 | 6 | 13 | 1725 | KS 030 | 1 | 3810 9745 | 0 | 0 | 0 | 90 | 0 | 1 | 4 | 2 | 268.7 98. | .09 |
| 71 | 7 | 9 | 1415 | KS 033 | 1 | 3828 9616 | 3831 | 9612 | 4 | 0 | 0 | 0 | 0 | 2 | 46.7 4. | .00 |
| 71 | 2 | 4 | 810 | MO 001 | 1 | 3659 9431 | 0 | 0 | 0 | 9 | 0 | 0 | 3 | 1 | 143.7 94. | .00 |

.. before year means event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of BURLINGTON, KS

| Tr | Mo | Day | Time (CST) | Sta | Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F | P | P | Area sq. mi. |
|----|----|-----|------------|--------|-----|-------------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|---|---|---|--------------|
| 71 | 2 | 4 | 1845 | MO 002 | 1 | 3716 | 9406 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 1 | 0 | 0 | 127.7 95. |
| 71 | 5 | 5 | 1755 | MO 008 | 1 | 3705 | 9434 | 3707 | 9420 | 0 | 5 | 21 | 1 | 60 | 6 | 3 | 2 | 2 | 80.7 11. |
| 71 | 5 | 5 | 1830 | MO 010 | 1 | 3716 | 9359 | 3720 | 9348 | 4 | 4 | 15 | 0 | 0 | 4 | 1 | 2 | 1 | 65.7 10. |
| 71 | 5 | 31 | 1935 | MO 013 | 1 | 3900 | 9417 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 55.7 83. |
| 71 | 6 | 2 | 900 | MO 014 | 1 | 3837 | 9356 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 3 | 1 | 0 | 0 | 74.7 85. |
| 71 | 6 | 2 | 1105 | MO 015 | 1 | 3720 | 9425 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 2 | 1 | 0 | 0 | 132.7 81. |
| 71 | 6 | 8 | 50 | MO 016 | 1 | 3713 | 9359 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 4 | 1 | 0 | 2 | 127.7 102. |
| 71 | 7 | 23 | 1812 | MO 023 | 1 | 3916 | 9358 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 52.7 101. |
| 71 | 8 | 3 | 1300 | MO 024 | 1 | 3918 | 9348 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 54.7 106. |
| 71 | 11 | 1 | 1750 | MO 026 | 1 | 3041 | 9414 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 4 | 1 | 1 | 1 | 38.7 110. |
| 71 | 12 | 14 | 2215 | MO 027 | 2 | 3635 | 9427 | 3651 | 9410 | 12 | 30 | 0 | 1 | 22 | 5 | 2 | 2 | 3 | 40.7 21. |
| 71 | 12 | 14 | 2340 | MO 028 | 4 | 3702 | 9334 | 3738 | 9306 | 34 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51.7 124. |
| 71 | 5 | 30 | 2230 | MO 019 | 1 | 4016 | 9406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 192.7 100. |
| 71 | 4 | 25 | 1956 | MO 011 | 1 | 3636 | 9406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 151.7 85. |
| 71 | 5 | 5 | 1650 | MO 013 | 1 | 3659 | 9450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78.7 15. |
| 71 | 5 | 5 | 1708 | MO 014 | 1 | 3616 | 9420 | 3619 | 9502 | 8 | 60 | 0 | 0 | 0 | 4 | 2 | 2 | 3 | 73.7 15. |
| 71 | 5 | 18 | 1830 | MO 020 | 1 | 3625 | 9355 | 3627 | 9527 | 3 | 30 | 50 | 0 | 0 | 3 | 1 | 2 | 2 | 73.7 7. |
| 71 | 5 | 22 | 245 | MO 021 | 1 | 3636 | 9447 | 3638 | 9444 | 3 | 30 | 0 | 0 | 0 | 5 | 2 | 2 | 2 | 50.7 3. |
| 71 | 5 | 23 | 1600 | MO 023 | 1 | 3630 | 9512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 1 | 167.7 107. |
| 71 | 5 | 31 | 1615 | MO 025 | 1 | 3621 | 9555 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 186.7 114. |
| 71 | 6 | 2 | 1900 | MO 027 | 1 | 3651 | 9727 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 226.7 119. |
| 72 | 4 | 19 | 1750 | MO 001 | 1 | 3736 | 9402 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 4 | 2 | 3 | 2 | 204.7 41. |
| 72 | 4 | 30 | 2000 | MO 010 | 1 | 3835 | 9814 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 4 | 2 | 1 | 1 | 260.7 121. |
| 72 | 4 | 30 | 2115 | MO 011 | 1 | 3855 | 9714 | 0 | 0 | 0 | 1 | 90 | 0 | 6 | 5 | 3 | 0 | 3 | 500.7 83. |
| 72 | 4 | 30 | 2216 | MO 012 | 1 | 3845 | 9446 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 5 | 2 | 2 | 3 | 54.7 53. |
| 72 | 7 | 2 | 1710 | MO 032 | 1 | 3848 | 9555 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 0 | 1 | 54.2.7 36. |
| 72 | 8 | 22 | 15 | MO 040 | 1 | 3901 | 9451 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 40.7 61. |
| 72 | 4 | 33 | 2105 | MO 003 | 2 | 3755 | 9354 | 3757 | 9528 | 5 | 15 | 15 | 0 | 1 | 4 | 1 | 2 | 1 | 67.7 5. |
| 72 | 4 | 33 | 1416 | MO 005 | 1 | 3847 | 9327 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 1 | 72.7 110. |
| 72 | 7 | 2 | 1530 | MO 006 | 1 | 3815 | 9407 | 3817 | 9405 | 2 | 2 | 15 | 0 | 0 | 3 | 0 | 1 | 0 | 38.7 3. |
| 72 | 7 | 2 | 1910 | MO 007 | 1 | 3802 | 9402 | 3805 | 9400 | 3 | 15 | 15 | 0 | 1 | 4 | 1 | 2 | 1 | 28.7 3. |
| 72 | 12 | 30 | 130 | MO 010 | 1 | 3953 | 9445 | 0 | 0 | 0 | 2 | 15 | 0 | 2 | 4 | 1 | 1 | 1 | 23.7 108. |
| 72 | 12 | 30 | 15 | MO 011 | 1 | 3639 | 9403 | 3642 | 9401 | 3 | 66 | 66 | 0 | 2 | 4 | 2 | 2 | 3 | 28.7 3. |
| 72 | 4 | 12 | 2130 | MO 001 | 1 | 3616 | 9564 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 1 | 181.7 118. |
| 72 | 6 | 26 | 1930 | MO 019 | 1 | 3625 | 9507 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 166.7 112. |
| 72 | 8 | 21 | 1720 | MO 026 | 1 | 3644 | 9702 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 216.7 111. |
| 72 | 12 | 29 | 2115 | MO 030 | 1 | 3630 | 9501 | 3653 | 9443 | 6 | 9 | 132 | 0 | 0 | 5 | 2 | 3 | 3 | 32.7 27. |
| 73 | 3 | 8 | 2020 | MO 001 | 3 | 3726 | 9524 | 3736 | 9502 | 23 | 66 | 66 | 0 | 1 | 5 | 2 | 3 | 3 | 60.7 20. |
| 73 | 3 | 13 | 1700 | MO 005 | 1 | 3814 | 9607 | 3823 | 9606 | 10 | 10 | 10 | 0 | 0 | 4 | 2 | 3 | 2 | 360.7 4. |
| 73 | 3 | 13 | 1820 | MO 008 | 1 | 3853 | 9449 | 3857 | 9449 | 4 | 100 | 100 | 0 | 0 | 4 | 0 | 2 | 3 | 344.7 8. |
| 73 | 4 | 13 | 1700 | MO 009 | 1 | 3811 | 9609 | 3819 | 9612 | 5 | 30 | 30 | 0 | 0 | 3 | 2 | 0 | 2 | 6.7 100. |
| 73 | 4 | 13 | 2330 | MO 011 | 1 | 3953 | 9528 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 1 | 0 | 2 | 3 | 16.7 76. |
| 73 | 4 | 30 | 2130 | MO 013 | 1 | 3922 | 9514 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 2 | 3 | 33.7 7. |
| 73 | 4 | 30 | 2205 | MO 014 | 1 | 3720 | 9718 | 3726 | 9713 | 4 | 60 | 60 | 0 | 0 | 4 | 1 | 2 | 3 | 50.7 3. |
| 73 | 5 | 1 | 1 | MO 015 | 1 | 3742 | 9530 | 3744 | 9527 | 3 | 120 | 120 | 0 | 0 | 2 | 0 | 0 | 2 | 1.7 81. |
| 73 | 5 | 6 | 1630 | MO 016 | 1 | 3935 | 9540 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 2 | 3 | 3 | 160.7 40. |
| 73 | 5 | 11 | 515 | MO 019 | 2 | 3736 | 9524 | 3747 | 9748 | 0 | 90 | 90 | 0 | 0 | 5 | 2 | 2 | 2 | 108.7 3. |
| 73 | 5 | 26 | 1425 | MO 021 | 1 | 3748 | 9752 | 3745 | 9732 | 3 | 30 | 30 | 3 | 1 | 5 | 3 | 2 | 3 | 58.7 4. |
| 73 | 5 | 26 | 1515 | MO 022 | 1 | 3743 | 9736 | 3745 | 9732 | 3 | 80 | 80 | 0 | 0 | 5 | 3 | 2 | 3 | 200.7 79. |
| 73 | 5 | 26 | 1550 | MO 023 | 1 | 3700 | 9615 | 0 | 0 | 0 | 1 | 60 | 0 | 0 | 5 | 2 | 2 | 3 | 87.7 5. |
| 73 | 6 | 4 | 1800 | MO 024 | 1 | 3742 | 9557 | 3744 | 9551 | 5 | 90 | 90 | 0 | 0 | 5 | 2 | 1 | 3 | 135.7 32. |
| 73 | 6 | 4 | 1800 | MO 025 | 1 | 3751 | 9512 | 0 | 0 | 0 | 2 | 60 | 0 | 0 | 4 | 2 | 1 | 3 | 200.7 71. |
| 73 | 9 | 24 | 1702 | MO 028 | 1 | 3707 | 9612 | 0 | 0 | 0 | 5 | 45 | 0 | 0 | 4 | 1 | 3 | 2 | 60.7 18. |
| 73 | 9 | 24 | 1705 | MO 029 | 1 | 3726 | 9555 | 3735 | 9535 | 10 | 30 | 30 | 0 | 0 | 5 | 1 | 3 | 2 | 59.7 6. |
| 73 | 9 | 24 | 1900 | MO 030 | 1 | 3757 | 9503 | 3802 | 9458 | 5 | 18 | 18 | 0 | 0 | 5 | 2 | 2 | 2 | |

.. before year means event occurred within 8 2 degree square centered on central point

Tornadoes within 125 mi JURLINGTON, KS

| Yr | Mo | Day | Time (LST) | Sta | Seq | Total # | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Dir | Injuries | Damage Class | F | P | P | Area sq mi |
|----|----|-----|------------|--------|-----|---------|-----------|-----------|---------|---------|--------------|---------------|-----|----------|--------------|---|---|---|------------|
| 73 | 9 | 24 | 2004 | KS 031 | 1 | 1 | 37.1 | 94.52 | 0 | 0 | 2 | 30 | 0 | 0 | 4 | 1 | 1 | 2 | 158.7 58- |
| 73 | 9 | 25 | 1430 | KS 032 | 1 | 1 | 38.32 | 97.49 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 2 | 2 | 240.7102- |
| 73 | 9 | 25 | 1715 | KS 034 | 2 | 2 | 39.03 | 97.35 | 39.54 | 96.52 | 69 | 20 | 0 | 2 | 7 | 3 | 4 | 2 | 33.7 61- |
| 73 | 9 | 25 | 1630 | KS 035 | 1 | 1 | 39.18 | 97.36 | 39.21 | 97.33 | 4 | 20 | 0 | 0 | 5 | 2 | 2 | 1 | 38.7 61- |
| 73 | 9 | 25 | 2330 | KS 041 | 1 | 1 | 39.29 | 97.20 | 39.33 | 97.15 | 4 | 20 | 0 | 0 | 5 | 2 | 2 | 1 | 44.7 6- |
| 73 | 9 | 26 | 200 | KS 042 | 1 | 1 | 39.21 | 97.05 | 0 | 0 | 2 | 10 | 0 | 0 | 5 | 2 | 1 | 1 | 316.7 93- |
| 73 | 9 | 27 | 1518 | KS 043 | 1 | 1 | 37.18 | 94.68 | 0 | 0 | 0 | 50 | 0 | 0 | 5 | 1 | 0 | 2 | 143.7 70- |
| 73 | 9 | 27 | 1700 | KS 044 | 1 | 1 | 37.49 | 95.02 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 2 | 2 | 129.7 40- |
| 73 | 10 | 11 | 100 | KS 045 | 1 | 1 | 37.18 | 98.90 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 1 | 0 | 2 | 243.7124- |
| 73 | 10 | 11 | 1630 | KS 046 | 1 | 1 | 37.19 | 97.25 | 0 | 0 | 0 | 60 | 0 | 15 | 5 | 2 | 0 | 3 | 247.7 89- |
| 73 | 10 | 18 | 200 | KS 047 | 1 | 1 | 37.18 | 98.00 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 1 | 0 | 2 | 243.7124- |
| 73 | 10 | 25 | 200 | KS 048 | 1 | 1 | 37.42 | 97.38 | 0 | 0 | 0 | 30 | 0 | 0 | 4 | 1 | 0 | 2 | 251.7 98- |
| 73 | 11 | 19 | 2008 | KS 053 | 1 | 1 | 37.51 | 98.03 | 0 | 0 | 0 | 10 | 0 | 0 | 4 | 0 | 0 | 1 | 258.7114- |
| 73 | 11 | 19 | 2045 | KS 054 | 1 | 1 | 36.24 | 97.30 | 0 | 0 | 0 | 10 | 0 | 0 | 4 | 0 | 0 | 1 | 277.7 86- |
| 73 | 11 | 20 | 2200 | KS 055 | 1 | 1 | 39.49 | 97.20 | 0 | 0 | 1 | 10 | 0 | 0 | 4 | 0 | 0 | 1 | 321.7122- |
| 73 | 11 | 20 | 55 | KS 056 | 1 | 1 | 38.17 | 95.45 | 0 | 0 | 1 | 10 | 0 | 0 | 5 | 2 | 0 | 1 | 314.7 4- |
| 73 | 11 | 23 | 1125 | MO 007 | 1 | 1 | 38.25 | 93.47 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 | 0 | 0 | 87.7 90- |
| 73 | 4 | 19 | 1800 | MO 010 | 1 | 1 | 39.42 | 94.12 | 0 | 0 | 1 | 15 | 0 | 0 | 3 | 2 | 1 | 1 | 38.7112- |
| 73 | 4 | 19 | 1930 | MO 011 | 1 | 1 | 38.32 | 93.32 | 0 | 0 | 10 | 264 | 0 | 5 | 3 | 4 | 2 | 4 | 80.7102- |
| 73 | 4 | 20 | 1300 | MO 012 | 1 | 1 | 38.05 | 93.45 | 38.09 | 93.41 | 13 | 5 | 0 | 0 | 3 | 0 | 2 | 0 | 38.7 5- |
| 73 | 4 | 20 | 1308 | MO 013 | 1 | 1 | 37.55 | 93.50 | 0 | 0 | 5 | 5 | 0 | 0 | 3 | 0 | 2 | 0 | 102.7 90- |
| 73 | 4 | 20 | 1310 | MO 014 | 1 | 1 | 37.58 | 93.51 | 38.02 | 93.47 | 1 | 5 | 0 | 0 | 5 | 2 | 2 | 1 | 38.7 5- |
| 73 | 4 | 20 | 1430 | MO 016 | 1 | 1 | 37.34 | 93.48 | 0 | 0 | 1 | 15 | 0 | 0 | 4 | 3 | 1 | 1 | 114.7 98- |
| 73 | 4 | 20 | 1430 | MO 017 | 1 | 1 | 38.25 | 93.24 | 0 | 0 | 5 | 15 | 0 | 0 | 3 | 3 | 2 | 1 | 86.7108- |
| 73 | 4 | 20 | 1430 | MO 018 | 1 | 1 | 39.19 | 93.30 | 0 | 0 | 5 | 15 | 0 | 0 | 4 | 2 | 2 | 1 | 57.7120- |
| 73 | 4 | 20 | 1825 | MO 019 | 1 | 1 | 38.27 | 93.28 | 38.34 | 93.21 | 10 | 30 | 0 | 0 | 5 | 3 | 3 | 2 | 38.7 9- |
| 73 | 4 | 20 | 1705 | MO 020 | 1 | 1 | 38.01 | 93.38 | 38.07 | 93.30 | 10 | 30 | 0 | 0 | 5 | 3 | 3 | 2 | 46.7 9- |
| 73 | 4 | 20 | 1715 | MO 021 | 1 | 1 | 38.18 | 93.17 | 38.34 | 93.10 | 17 | 30 | 0 | 0 | 5 | 3 | 3 | 2 | 19.7 17- |
| 73 | 4 | 20 | 1800 | MO 023 | 1 | 1 | 38.32 | 93.13 | 0 | 0 | 2 | 15 | 0 | 0 | 4 | 2 | 1 | 1 | 81.7117- |
| 73 | 4 | 20 | 1925 | MO 026 | 1 | 1 | 38.42 | 93.11 | 37.27 | 93.51 | 2 | 30 | 0 | 0 | 6 | 3 | 3 | 2 | 77.7120- |
| 73 | 4 | 20 | 2255 | MO 027 | 2 | 2 | 37.23 | 93.58 | 0 | 0 | 5 | 30 | 0 | 2 | 6 | 3 | 3 | 2 | 54.7 7- |
| 73 | 4 | 21 | 2135 | MO 029 | 1 | 1 | 37.11 | 94.17 | 0 | 0 | 5 | 30 | 0 | 2 | 6 | 3 | 3 | 2 | 133.7 92- |
| 73 | 4 | 21 | 2135 | MO 031 | 1 | 1 | 37.06 | 93.36 | 0 | 0 | 5 | 35 | 0 | 0 | 3 | 2 | 0 | 1 | 62.7110- |
| 73 | 5 | 7 | 1220 | MO 037 | 1 | 1 | 37.18 | 94.24 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 2 | 0 | 1 | 43.7 87- |
| 73 | 5 | 7 | 1645 | MO 040 | 1 | 1 | 37.37 | 93.25 | 0 | 0 | 1 | 15 | 0 | 0 | 4 | 0 | 1 | 1 | 109.7114- |
| 73 | 5 | 16 | 1545 | MO 065 | 1 | 1 | 38.46 | 94.50 | 0 | 0 | 6 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 23.7100- |
| 73 | 6 | 16 | 1730 | MO 068 | 1 | 1 | 39.21 | 94.04 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 1 | 1 | 1 | 48.7101- |
| 73 | 9 | 4 | 200 | MO 071 | 1 | 1 | 38.24 | 94.20 | 0 | 0 | 2 | 15 | 0 | 0 | 0 | 1 | 1 | 1 | 81.7 64- |
| 73 | 9 | 24 | 2300 | MO 072 | 1 | 1 | 37.12 | 93.51 | 0 | 0 | 2 | 15 | 0 | 0 | 1 | 1 | 1 | 2 | 125.7107- |
| 73 | 9 | 27 | 1430 | MO 073 | 1 | 1 | 37.10 | 94.18 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 1 | 1 | 1 | 134.7 92- |
| 73 | 12 | 24 | 1530 | MO 079 | 1 | 1 | 37.23 | 93.57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 122.7 97- |
| 73 | 3 | 28 | 1640 | OK 008 | 1 | 1 | 38.52 | 95.24 | 36.56 | 94.54 | 8 | 10 | 0 | 0 | 4 | 1 | 2 | 1 | 81.7 24- |
| 73 | 3 | 28 | 2000 | OK 013 | 1 | 1 | 36.56 | 95.02 | 0 | 0 | 0 | 36 | 0 | 0 | 4 | 1 | 2 | 1 | 162.7103- |
| 73 | 4 | 21 | 2040 | OK 014 | 1 | 1 | 36.38 | 95.01 | 36.41 | 94.57 | 5 | 12 | 0 | 0 | 4 | 1 | 2 | 1 | 47.7 4- |
| 73 | 4 | 21 | 2125 | OK 017 | 1 | 1 | 36.59 | 97.05 | 0 | 0 | 0 | 20 | 0 | 0 | 4 | 2 | 0 | 4 | 222.7101- |
| 73 | 4 | 30 | 1800 | OK 023 | 1 | 1 | 36.59 | 97.26 | 36.55 | 97.18 | 8 | 10 | 0 | 0 | 4 | 1 | 2 | 1 | 122.7 8- |
| 73 | 5 | 18 | 1500 | OK 028 | 1 | 1 | 36.58 | 95.55 | 0 | 0 | 0 | 30 | 0 | 0 | 3 | 3 | 0 | 2 | 158.7 77- |
| 73 | 5 | 26 | 1530 | OK 030 | 1 | 1 | 36.10 | 95.23 | 36.12 | 95.12 | 10 | 18 | 0 | 0 | 4 | 1 | 3 | 2 | 103.7 9- |
| 73 | 5 | 26 | 1815 | OK 041 | 2 | 2 | 36.42 | 97.04 | 36.40 | 96.53 | 10 | 30 | 0 | 0 | 4 | 2 | 3 | 2 | 192.7102- |
| 73 | 6 | 4 | 1900 | OK 044 | 1 | 1 | 36.34 | 96.07 | 0 | 0 | 1 | 15 | 0 | 0 | 3 | 1 | 1 | 1 | 77.7 9- |
| 73 | 6 | 18 | 1630 | OK 056 | 1 | 1 | 36.25 | 96.20 | 0 | 0 | 2 | 12 | 0 | 0 | 4 | 1 | 3 | 2 | 103.7 9- |
| 73 | 9 | 4 | 1358 | OK 063 | 1 | 1 | 36.43 | 97.18 | 36.45 | 97.01 | 6 | 60 | 0 | 0 | 3 | 1 | 1 | 1 | 196.7113- |
| 73 | 9 | 24 | 1920 | OK 064 | 3 | 3 | 36.40 | 95.07 | 36.51 | 94.52 | 18 | 30 | 0 | 0 | 5 | 3 | 3 | 3 | 82.7 14- |
| 73 | 11 | 19 | 2010 | OK 072 | 1 | 1 | 36.47 | 97.18 | 36.49 | 97.16 | 2 | 45 | 0 | 0 | 6 | 1 | 1 | 1 | 47.7 16- |
| 73 | 11 | 20 | 1 | OK 073 | 1 | 1 | 36.20 | 95.48 | 0 | 0 | 0 | 9 | 0 | 0 | 5 | 1 | 0 | 1 | 39.7 3- |

* before year means event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # | Lat begin | Lat end | Lon | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F | P | Area sq-mi |
|-----|----|-----|------------|--------|-----|---------|-----------|---------|------|--------------|---------------|--------|----------|--------------|---|---|---------------|
| 73 | 11 | 23 | 2230 | GX 074 | 1 | 3616 | 9515 | 0 | 0 | 1 | 12 | 0 | 0 | 4 | 1 | 1 | 170.1/120.02 |
| 74 | 5 | 8 | 1600 | KS 001 | 7 | 3838 | 9642 | 3940 | 9530 | 28 | 66 | 0 | 0 | 5 | 2 | 4 | 42.1/83.59 |
| 74 | 4 | 19 | 1650 | KS 003 | 1 | 3934 | 9737 | 0 | 0 | 0 | 5 | 0 | 0 | 3 | 1 | 0 | 312.1/120.00 |
| 74 | 4 | 20 | 5 | KS 004 | 1 | 3730 | 9755 | 3605 | 9745 | 20 | 10 | 0 | 0 | 1 | 0 | 3 | 13.1/36.39 |
| 74 | 4 | 20 | 1530 | KS 006 | 2 | 3807 | 9811 | 3820 | 9815 | 7 | 30 | 0 | 3 | 4 | 1 | 2 | 346.1/13.44 |
| *74 | 4 | 20 | 1630 | KS 007 | 1 | 3817 | 9514 | 0 | 0 | 1 | 60 | 0 | 0 | 4 | 2 | 1 | 82.1/21.11 |
| 74 | 5 | 13 | 1600 | KS 009 | 1 | 3806 | 9806 | 3621 | 9712 | 25 | 30 | 0 | 0 | 6 | 1 | 3 | 70.1/45.147 |
| 74 | 5 | 13 | 1730 | KS 010 | 2 | 3757 | 9804 | 3822 | 9719 | 34 | 30 | 0 | 2 | 6 | 2 | 4 | 55.1/43.198 |
| 74 | 5 | 13 | 1945 | KS 011 | 3 | 3806 | 9751 | 3812 | 9656 | 20 | 30 | 0 | 2 | 0 | 2 | 3 | 82.1/44.134 |
| 74 | 5 | 13 | 2200 | KS 012 | 1 | 3740 | 9730 | 3755 | 9650 | 8 | 8 | 0 | 0 | 3 | 0 | 2 | 65.1/35.132 |
| 74 | 5 | 18 | 1700 | KS 015 | 1 | 3850 | 9739 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 291.1/99.00 |
| 74 | 5 | 30 | 1900 | KS 016 | 1 | 3715 | 9709 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 230.1/92.00 |
| *74 | 5 | 30 | 1700 | KS 017 | 3 | 3808 | 9634 | 3749 | 9617 | 18 | 50 | 0 | 1 | 6 | 2 | 3 | 145.1/23.176 |
| 74 | 6 | 4 | 1430 | KS 018 | 1 | 3743 | 9656 | 3733 | 9639 | 0 | 6 | 0 | 0 | 0 | 0 | 1 | 242.1/67.00 |
| 74 | 6 | 8 | 1515 | KS 020 | 1 | 3740 | 9648 | 3733 | 9639 | 1 | 60 | 0 | 0 | 0 | 0 | 1 | 134.1/10.13 |
| 74 | 6 | 8 | 1530 | KS 021 | 1 | 3820 | 9812 | 3824 | 9809 | 1 | 30 | 0 | 0 | 0 | 0 | 1 | 30.1/5.06 |
| *74 | 6 | 8 | 1845 | KS 022 | 3 | 3825 | 9613 | 3854 | 9552 | 26 | 528 | 6 | 177 | 7 | 4 | 4 | 29.1/33.2683 |
| *74 | 6 | 8 | 1710 | KS 023 | 1 | 3728 | 9627 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 218.1/59.10 |
| *74 | 6 | 8 | 2000 | KS 024 | 1 | 3725 | 9450 | 3728 | 9447 | 0 | 60 | 0 | 0 | 0 | 0 | 1 | 38.1/4.10 |
| 74 | 8 | 23 | 1004 | KS 028 | 1 | 3730 | 9718 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 1 | 240.1/89.00 |
| 74 | 8 | 23 | 1330 | MO 001 | 1 | 3934 | 9356 | 3947 | 9330 | 27 | 30 | 0 | 0 | 0 | 1 | 3 | 145.1/100.156 |
| 74 | 4 | 13 | 1600 | MO 002 | 1 | 3652 | 9430 | 0 | 0 | 0 | 30 | 0 | 0 | 4 | 1 | 1 | 64.1/7.22 |
| 74 | 5 | 13 | 1830 | MO 010 | 1 | 3955 | 9425 | 3958 | 9417 | 7 | 15 | 0 | 0 | 0 | 1 | 1 | 129.1/21.00 |
| 74 | 5 | 23 | 1930 | MO 013 | 1 | 3658 | 9343 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 133.1/103.239 |
| 74 | 6 | 8 | 2200 | MO 015 | 1 | 4012 | 9503 | 4017 | 9453 | 10 | 120 | 0 | 0 | 0 | 0 | 0 | 143.1/103.09 |
| 74 | 6 | 8 | 2140 | MO 016 | 1 | 3704 | 9407 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 141.1/103.06 |
| 74 | 6 | 8 | 2130 | MO 017 | 1 | 3651 | 9424 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 1 | 171.1/118.04 |
| 74 | 6 | 8 | 2140 | MO 018 | 1 | 3654 | 9420 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 1 | 1 | 158.1/109.03 |
| 74 | 5 | 9 | 1530 | OK 009 | 1 | 3618 | 9517 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2 | 2 | 31.1/5.18 |
| 74 | 5 | 23 | 1130 | OK 013 | 1 | 3633 | 9450 | 3524 | 9550 | 5 | 18 | 0 | 0 | 0 | 2 | 2 | 68.1/3.15 |
| 74 | 6 | 8 | 1740 | OK 030 | 1 | 3620 | 9553 | 3623 | 9451 | 1 | 45 | 0 | 0 | 0 | 3 | 1 | 50.1/3.16 |
| 74 | 6 | 8 | 2114 | OK 037 | 1 | 3622 | 9454 | 3623 | 9451 | 2 | 30 | 0 | 0 | 0 | 1 | 1 | 187.1/87.07 |
| 74 | 6 | 8 | 2130 | OK 038 | 1 | 3636 | 9500 | 3638 | 9457 | 2 | 23 | 0 | 0 | 0 | 0 | 0 | 190.1/91.02 |
| 74 | 8 | 17 | 1800 | OK 041 | 1 | 3648 | 9555 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 1 | 0 | 279.1/68.00 |
| 74 | 11 | 3 | 230 | OK 044 | 1 | 3644 | 9400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 228.1/77.01 |
| 75 | 6 | 16 | 1455 | KS 007 | 1 | 3625 | 9706 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333.1/57.00 |
| 75 | 8 | 25 | 1600 | KS 012 | 1 | 3723 | 9653 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 64.1/7.05 |
| 75 | 9 | 10 | 1650 | KS 015 | 1 | 3905 | 9614 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 1 | 261.1/88.00 |
| 75 | 9 | 10 | 1930 | KS 015 | 1 | 3833 | 9757 | 3836 | 9749 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 70.1/15.29 |
| 75 | 11 | 29 | 1500 | KS 016 | 1 | 3800 | 9731 | 3955 | 9547 | 1 | 90 | 0 | 0 | 0 | 1 | 3 | 67.1/10.211 |
| 75 | 12 | 13 | 2305 | KS 017 | 1 | 3950 | 9605 | 3946 | 9346 | 9 | 120 | 1 | 22 | 6 | 4 | 3 | 79.1/11.208 |
| 75 | 4 | 23 | 1440 | MO 002 | 1 | 3942 | 9358 | 3946 | 9346 | 7 | 150 | 3 | 0 | 4 | 1 | 2 | 23.1/100.26 |
| 75 | 4 | 24 | 1550 | MO 008 | 2 | 3650 | 9435 | 3652 | 9422 | 3 | 45 | 0 | 0 | 0 | 0 | 2 | 55.1/103.23 |
| 75 | 11 | 29 | 1630 | MO 015 | 1 | 3946 | 9451 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 1 | 90.1/5.08 |
| 75 | 11 | 29 | 1810 | MO 016 | 1 | 3914 | 9350 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 | 41.1/119.01 |
| 75 | 12 | 5 | 140 | MO 017 | 1 | 3922 | 9453 | 3922 | 9447 | 5 | 8 | 0 | 0 | 0 | 1 | 0 | 338.1/22.00 |
| 75 | 12 | 14 | 330 | MO 018 | 1 | 3944 | 9400 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 2 | 0 | 5.1/17.00 |
| 75 | 6 | 2 | 1710 | ME 038 | 1 | 4007 | 9640 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 348.1/22.03 |
| 75 | 9 | 4 | 135 | ME 076 | 1 | 4011 | 9528 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2 | 0 | 31.1/5.23 |
| 75 | 12 | 13 | 2340 | ME 078 | 1 | 4013 | 9614 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 306.1/118.02 |
| 75 | 4 | 24 | 1800 | OK 009 | 1 | 3648 | 9509 | 3652 | 9506 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 26.1/16.29 |
| 75 | 4 | 24 | 1330 | KS 002 | 1 | 3924 | 9744 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 1 | 3 | 232.1/77.00 |
| 76 | 3 | 29 | 1845 | KS 008 | 2 | 3933 | 9627 | 3947 | 9618 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 62.1/25.06 |
| 76 | 6 | 14 | 1935 | KS 010 | 1 | 3727 | 9658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 76 | 6 | 14 | 1615 | MO 008 | 3 | 3702 | 9611 | 3714 | 9343 | 29 | 12 | 1 | 3 | 5 | 3 | 1 | |

* - before year means event occurred within 2 degree square centered on central point

CALCULATION PACKAGE NO SR-88-001 Rev. 0

PAGE D.21 OF

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # rep | Lat begin | Lat end | Lon | Length miles | Width 10-m ft | Deaths | Injuries | Damage Class | F P P | Area sq-mi |
|----|----|-----|------------|--------|-----|-------------|-----------|---------|------|--------------|---------------|--------|----------|--------------|---------|------------|
| 76 | 3 | 26 | 1615 | MO 009 | 1 | 3647 | 9357 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 0 1 | 136.7120 |
| 76 | 4 | 23 | 1855 | NE 006 | 1 | 4001 | 9640 | 4006 | 9631 | 9 | 18 | 0 | 0 | 0 | 1 0 2 | 54.7 9 |
| 76 | 2 | 20 | 1655 | OK 001 | 1 | 3644 | 9624 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 0 3 | 201.7 96 |
| 76 | 3 | 4 | 1215 | OK 005 | 2 | 3623 | 9600 | 3625 | 9545 | 9 | 9 | 0 | 0 | 0 | 1 3 1 | 81.7 12 |
| 76 | 3 | 11 | 230 | KS 001 | 1 | 3755 | 9524 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 1 0 2 | 145.7 23 |
| 77 | 5 | 4 | 830 | KS 003 | 1 | 3746 | 9529 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 0 1 | 161.7 30 |
| 77 | 5 | 4 | 1130 | KS 004 | 1 | 3827 | 9448 | 3836 | 9441 | 4 | 15 | 0 | 0 | 0 | 2 2 1 | 31.7 11 |
| 77 | 5 | 4 | 1900 | KS 005 | 2 | 3848 | 9522 | 3855 | 9449 | 12 | 90 | 0 | 1 | 0 | 3 4 3 | 75.7 27 |
| 77 | 5 | 4 | 1900 | KS 006 | 1 | 3853 | 9448 | 3854 | 9439 | 1 | 21 | 0 | 0 | 0 | 2 1 2 | 82.7 7 |
| 77 | 5 | 5 | 1740 | KS 007 | 1 | 3857 | 9538 | 3859 | 9537 | 3 | 9 | 0 | 0 | 0 | 1 0 1 | 21.7 2 |
| 77 | 5 | 17 | 1115 | KS 008 | 1 | 3714 | 9539 | 3716 | 9535 | 2 | 30 | 0 | 0 | 0 | 1 1 2 | 90.7 3 |
| 77 | 6 | 18 | 1235 | KS 012 | 1 | 3718 | 9446 | 0 | 0 | 1 | 10 | 0 | 0 | 0 | 1 0 1 | 142.7 71 |
| 77 | 5 | 4 | 1345 | MO 004 | 2 | 3826 | 9433 | 3848 | 9415 | 30 | 150 | 2 | 15 | 0 | 3 3 3 | 33.7 26 |
| 77 | 5 | 4 | 1315 | MO 006 | 1 | 3900 | 9355 | 3912 | 9330 | 13 | 0 | 1 | 5 | 0 | 3 3 2 | 58.7 23 |
| 77 | 5 | 4 | 1345 | MO 007 | 1 | 3838 | 9324 | 3843 | 9313 | 11 | 210 | 0 | 24 | 0 | 3 3 4 | 60.7 10 |
| 77 | 5 | 4 | 1705 | MO 008 | 3 | 3913 | 9418 | 3921 | 9406 | 14 | 90 | 0 | 5 | 0 | 4 3 3 | 49.7 12 |
| 77 | 5 | 4 | 1900 | MO 009 | 3 | 3919 | 9400 | 3926 | 9307 | 47 | 264 | 0 | 1 | 0 | 4 4 4 | 80.7 42 |
| 77 | 5 | 4 | 2055 | MO 016 | 1 | 3903 | 9434 | 0 | 0 | 1 | 30 | 0 | 0 | 0 | 0 0 2 | 47.7 71 |
| 77 | 11 | 8 | 915 | MO 017 | 1 | 3908 | 9417 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 0 | 50.7 85 |
| 78 | 4 | 6 | 1630 | KS 001 | 1 | 3725 | 9442 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 0 0 | 136.7 68 |
| 78 | 5 | 11 | 1700 | KS 002 | 1 | 3700 | 9708 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 1 2 | 223.7 102 |
| 78 | 5 | 11 | 1703 | KS 003 | 1 | 3837 | 9459 | 3836 | 9446 | 1 | 30 | 0 | 0 | 0 | 2 1 2 | 233.7 42 |
| 78 | 5 | 11 | 1737 | KS 004 | 1 | 3749 | 9623 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 0 0 | 238.7 44 |
| 78 | 5 | 11 | 1737 | KS 005 | 1 | 3751 | 9628 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 1 1 | 90.7 4 |
| 78 | 5 | 23 | 1830 | KS 007 | 1 | 3849 | 9543 | 3849 | 9538 | 1 | 9 | 0 | 1 | 0 | 3 2 4 | 74.7 32 |
| 78 | 5 | 31 | 1600 | KS 011 | 2 | 3919 | 9623 | 3928 | 9543 | 7 | 390 | 3 | 0 | 0 | 1 0 3 0 | 265.7 42 |
| 78 | 6 | 17 | 1700 | KS 012 | 1 | 3810 | 9634 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 2 2 | 90.7 6 |
| 78 | 6 | 17 | 1815 | KS 013 | 1 | 3841 | 9539 | 3841 | 9531 | 4 | 45 | 16 | 3 | 0 | 1 0 3 | 25.7 25 |
| 78 | 6 | 17 | 1820 | KS 014 | 1 | 3837 | 9527 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 0 0 | 242.7 70 |
| 78 | 6 | 17 | 1820 | KS 015 | 1 | 3741 | 9659 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 0 0 | 278.7 77 |
| 78 | 6 | 27 | 1830 | KS 020 | 1 | 4000 | 9653 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 0 0 | 333.7 120 |
| 78 | 7 | 6 | 1645 | KS 023 | 1 | 3749 | 9654 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 0 0 | 247.7 63 |
| 78 | 7 | 7 | 1814 | KS 024 | 1 | 3741 | 9647 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 0 0 | 238.7 62 |
| 78 | 9 | 13 | 1800 | KS 026 | 1 | 3741 | 9647 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 1 0 | 226.7 22 |
| 78 | 9 | 17 | 2015 | KS 027 | 1 | 3759 | 9601 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 0 1 | 51.7 81 |
| 78 | 4 | 5 | 2140 | MO 001 | 1 | 3905 | 9420 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 1 2 | 90.7 3 |
| 78 | 5 | 12 | 1300 | MO 003 | 1 | 3748 | 9359 | 3748 | 9335 | 3 | 30 | 0 | 0 | 0 | 2 2 2 | 335.7 118 |
| 78 | 7 | 6 | 1657 | NE 032 | 2 | 4000 | 9659 | 4000 | 9655 | 3 | 30 | 0 | 0 | 0 | 1 1 1 | 78.7 5 |
| 78 | 7 | 6 | 1700 | NE 033 | 1 | 4001 | 9646 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 1 0 0 | 67.7 8 |
| 78 | 9 | 13 | 1620 | NE 042 | 1 | 3644 | 9708 | 4010 | 9608 | 2 | 30 | 0 | 0 | 0 | 2 2 1 | 54.7 7 |
| 78 | 4 | 17 | 1354 | OK 005 | 1 | 3644 | 9707 | 3647 | 9659 | 3 | 12 | 0 | 0 | 0 | 2 2 2 | 54.7 7 |
| 78 | 4 | 17 | 1357 | OK 006 | 1 | 3649 | 9707 | 3653 | 9700 | 4 | 18 | 0 | 0 | 0 | 2 2 1 | 58.7 9 |
| 78 | 4 | 17 | 1358 | OK 007 | 1 | 3646 | 9712 | 3651 | 9702 | 5 | 12 | 0 | 0 | 0 | 2 2 2 | 49.7 11 |
| 78 | 4 | 17 | 1358 | OK 008 | 1 | 3652 | 9707 | 3659 | 9657 | 6 | 30 | 0 | 0 | 0 | 2 2 2 | 73.7 3 |
| 78 | 5 | 11 | 1435 | OK 016 | 1 | 3654 | 9723 | 3655 | 9719 | 3 | 30 | 0 | 0 | 0 | 1 1 1 | 188.7 82 |
| 78 | 5 | 11 | 1800 | OK 017 | 1 | 3653 | 9555 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 0 0 | 191.7 105 |
| 78 | 5 | 11 | 1900 | OK 018 | 1 | 3631 | 9607 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 1 2 | 46.7 4 |
| 78 | 5 | 11 | 2050 | KS 001 | 1 | 3956 | 9643 | 3959 | 9639 | 1 | 45 | 0 | 0 | 0 | 1 1 2 | 57.7 4 |
| 79 | 3 | 29 | 1735 | KS 002 | 2 | 3945 | 9522 | 3947 | 9518 | 1 | 15 | 0 | 0 | 0 | 0 0 1 | 38.7 4 |
| 79 | 4 | 11 | 1700 | KS 005 | 1 | 3906 | 9544 | 3909 | 9541 | 0 | 9 | 0 | 1 | 0 | 1 0 0 | 242.7 106 |
| 79 | 5 | 2 | 1630 | KS 010 | 1 | 3724 | 9739 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1 0 0 | 316.7 122 |
| 79 | 6 | 19 | 1500 | KS 013 | 1 | 3942 | 9730 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 0 2 | 233.7 76 |
| 79 | 6 | 19 | 1600 | KS 014 | 1 | 3728 | 9658 | 3928 | 9622 | 28 | 20 | 0 | 0 | 0 | 2 3 3 | 74.7 61 |
| 79 | 10 | 18 | 1650 | KS 027 | 4 | 3911 | 9738 | 3934 | 9525 | 54 | 60 | 0 | 11 | 0 | 6 3 9 | 66.7 47 |
| 79 | 10 | 18 | 1740 | KS 028 | 3 | 3915 | 9621 | 3915 | 9621 | 54 | 60 | 0 | 5 | 0 | 6 3 7 | 66.7 47 |

* before year means event occurred within a 2 degree square centered on central point

CALCULATION SR-88-001 Rev 0
PACKAGE NO

PAGE 022 OF

Tornadoes within 125 NM of BURLINGTON, KS

| Tr | No | Day | Time (LST) | Sta | Seq | Total # seq | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10 ³ ft | Deaths | Injuries | Damage Class | F | P | P | AIRAM | Area sq mi |
|----|----|-----|---------------|--------|-----|----------------|--------------|--------------|------------|------------|-----------------|-----------------------------|--------|----------|-----------------|---|---|---|------------|---------------|
| 79 | 10 | 21 | 1845 | KS 029 | 1 | 1 | 3914 | 9520 | 3916 | 9518 | 2 | 30 | 0 | 1 | 5 | 1 | 1 | 2 | 36.1/ 3- | -17 |
| 79 | 4 | 11 | 1925 | MO 006 | 2 | 2 | 3915 | 9426 | 3930 | 9413 | 20 | 30 | 0 | 9 | 5 | 2 | 3 | 2 | 34.1/ 18- | 1-18 |
| 79 | 10 | 21 | 2345 | MO 007 | 1 | 1 | 3650 | 9355 | 0 | 0 | 2 | 1.3 | 0 | 0 | 4 | 1 | 1 | 3 | 135.1/119- | -76 |
| 79 | 3 | 18 | 700 | OK 001 | 1 | 1 | 3654 | 9703 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 0 | 219.1/103- | -00 |
| 79 | 3 | 18 | 905 | OK 002 | 2 | 2 | 3654 | 9556 | 3655 | 9548 | 7 | 9 | 0 | 0 | 4 | 3 | 2 | 1 | 81.1/ 6- | -13 |
| 79 | 3 | 18 | 1315 | OK 003 | 2 | 2 | 3610 | 9547 | 3610 | 9545 | 1 | 10 | 0 | 0 | 5 | 2 | 1 | 1 | 90.1/ 2- | -04 |
| 79 | 8 | 21 | 1840 | OK 040 | 1 | 1 | 3622 | 9642 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 204.1/12- | -00 |
| 80 | 5 | 29 | 1916 | KS 002 | 1 | 1 | 3840 | 9814 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 282.1/122- | -00 |
| 80 | 5 | 29 | 1945 | KS 005 | 1 | 1 | 3911 | 9618 | 3907 | 9614 | 5 | 0 | 0 | 0 | 4 | 1 | 2 | 1 | 142.1/ 5- | -00 |
| 80 | 5 | 31 | 1555 | KS 006 | 1 | 1 | 3903 | 9534 | 0 | 0 | 2 | 66 | 0 | 0 | 5 | 2 | 2 | 1 | 6.1/ 49- | -25 |
| 80 | 5 | 31 | 1640 | KS 007 | 2 | 2 | 3858 | 9506 | 3858 | 9458 | 1 | 0 | 0 | 0 | 5 | 2 | 2 | 1 | 90.1/ 6- | -00 |
| 80 | 5 | 31 | 2230 | KS 012 | 1 | 1 | 3851 | 9736 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 1 | 292.1/ 97- | -00 |
| 80 | 10 | 15 | 1912 | KS 018 | 1 | 1 | 3720 | 9645 | 3731 | 9640 | 4 | 45 | 0 | 4 | 6 | 1 | 2 | 2 | 20.1/ 12- | -34 |
| 80 | 5 | 12 | 1600 | MO 004 | 1 | 1 | 3907 | 9339 | 3914 | 9300 | 5 | 30 | 0 | 0 | 5 | 2 | 2 | 2 | 73.1/ 24- | -31 |
| 80 | 5 | 12 | 1612 | MO 005 | 1 | 1 | 3840 | 9325 | 3844 | 9308 | 15 | 90 | 0 | 23 | 7 | 3 | 3 | 3 | 104.1/ 18- | -48 |
| 80 | 5 | 12 | 1630 | MO 006 | 1 | 1 | 3833 | 9330 | 3829 | 9320 | 8 | 30 | 0 | 0 | 4 | 1 | 2 | 2 | 191.1/ 83- | -38 |
| 80 | 4 | 7 | 1645 | OK 006 | 1 | 1 | 3652 | 9600 | 0 | 0 | 1 | 132 | 0 | 4 | 6 | 3 | 3 | 3 | 159.1/117- | -11 |
| 80 | 4 | 7 | 1730 | OK 007 | 4 | 4 | 3627 | 9512 | 3641 | 9451 | 15 | 60 | 0 | 0 | 5 | 2 | 1 | 3 | 332.1/ 55- | -00 |
| 80 | 4 | 7 | 1700 | OK 008 | 1 | 1 | 3625 | 9448 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 2 | 1 | 1 | 1.1/ 98- | -03 |
| 81 | 4 | 3 | 1705 | KS 003 | 1 | 1 | 3903 | 9614 | 0 | 0 | 1 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 351.1/ 41- | -00 |
| 81 | 4 | 3 | 1800 | KS 004 | 1 | 1 | 3947 | 9500 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 254.1/ 84- | -00 |
| 81 | 4 | 13 | 1735 | KS 005 | 1 | 1 | 3854 | 9549 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 223.1/ 96- | -03 |
| 81 | 5 | 8 | 1500 | KS 006 | 1 | 1 | 3751 | 9723 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 | 0 | 1 | 220.1/ 79- | -01 |
| 81 | 5 | 17 | 1505 | KS 009 | 1 | 1 | 3704 | 9703 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 294.1/116- | -00 |
| 81 | 5 | 17 | 1742 | KS 012 | 1 | 1 | 3713 | 9645 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 5.1/ 68- | -04 |
| 81 | 5 | 22 | 1715 | KS 013 | 1 | 1 | 3901 | 9758 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 69.1/ 23- | -04 |
| 81 | 5 | 23 | 1815 | KS 014 | 1 | 1 | 3911 | 9454 | 0 | 0 | 2 | 10 | 0 | 0 | 2 | 1 | 1 | 1 | 135.1/ 6- | -37 |
| 81 | 5 | 23 | 1815 | KS 015 | 1 | 1 | 3822 | 9514 | 0 | 0 | 1 | 15 | 0 | 0 | 5 | 1 | 2 | 2 | 175.1/ 71- | -01 |
| 81 | 5 | 23 | 1825 | KS 016 | 1 | 1 | 3813 | 9503 | 3809 | 9458 | 6 | 30 | 0 | 0 | 4 | 1 | 0 | 2 | 174.1/ 72- | -01 |
| 81 | 5 | 23 | 1740 | KS 017 | 1 | 1 | 3703 | 9533 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 336.1/ 47- | -00 |
| 81 | 5 | 23 | 1750 | KS 018 | 1 | 1 | 3702 | 9532 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 176.1/ 72- | -01 |
| 81 | 5 | 23 | 1750 | KS 019 | 1 | 1 | 3857 | 9606 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 336.1/ 47- | -00 |
| 81 | 6 | 19 | 1810 | KS 021 | 1 | 1 | 3858 | 9516 | 3855 | 9508 | 6 | 60 | 1 | 33 | 7 | 3 | 2 | 3 | 176.1/ 7- | -22 |
| 81 | 6 | 20 | 1758 | KS 022 | 1 | 1 | 3851 | 9445 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 50.1/ 57- | -50 |
| 81 | 6 | 21 | 300 | KS 023 | 1 | 1 | 3907 | 9443 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 318.1/ 72- | -00 |
| 81 | 6 | 24 | 1745 | KS 024 | 1 | 1 | 3942 | 9632 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 336.1/ 96- | -00 |
| 81 | 6 | 29 | 1332 | KS 026 | 1 | 1 | 3739 | 9723 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 247.1/ 88- | -00 |
| 81 | 6 | 29 | 1612 | KS 027 | 1 | 1 | 3844 | 9533 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 12.1/ 31- | -00 |
| 81 | 6 | 29 | 1700 | KS 028 | 1 | 1 | 3704 | 9714 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 227.1/102- | -00 |
| 81 | 7 | 9 | 845 | KS 035 | 1 | 1 | 3908 | 9539 | 0 | 0 | 0 | 45 | 0 | 9 | 5 | 2 | 0 | 2 | 2.1/ 54- | -03 |
| 81 | 4 | 13 | 1428 | MO 001 | 1 | 1 | 3937 | 9513 | 0 | 0 | 2 | 30 | 0 | 0 | 1 | 0 | 0 | 2 | 12.1/105- | -16 |
| 81 | 4 | 13 | 1442 | MO 002 | 1 | 1 | 3928 | 9458 | 0 | 0 | 2 | 30 | 0 | 0 | 1 | 0 | 0 | 2 | 18.1/109- | -13 |
| 81 | 4 | 13 | 1451 | MO 003 | 1 | 1 | 3928 | 9513 | 0 | 0 | 2 | 30 | 0 | 0 | 3 | 1 | 1 | 2 | 12.1/106- | -06 |
| 81 | 4 | 13 | 2040 | MO 005 | 2 | 2 | 3901 | 9312 | 0 | 0 | 9 | 50 | 0 | 0 | 5 | 1 | 3 | 3 | 70.1/ 26- | -56 |
| 81 | 5 | 23 | 1553 | MO 013 | 1 | 1 | 3917 | 9446 | 3910 | 9240 | 4 | 15 | 0 | 0 | 1 | 0 | 2 | 1 | 57.1/ 4- | -12 |
| 81 | 5 | 23 | 1755 | MO 014 | 1 | 1 | 3754 | 9622 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 108.1/ 65- | -03 |
| 81 | 6 | 15 | 145 | MO 017 | 1 | 1 | 3855 | 9432 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 53.1/ 68- | -03 |
| 81 | 6 | 15 | 1810 | MO 018 | 1 | 1 | 3844 | 9316 | 3845 | 9313 | 2 | 15 | 0 | 0 | 5 | 1 | 1 | 1 | 67.1/ 3- | -08 |
| 81 | 6 | 19 | 1943 | MO 019 | 1 | 1 | 3838 | 9433 | 3839 | 9425 | 3 | 15 | 0 | 0 | 0 | 0 | 2 | 1 | 81.1/ 6- | -10 |
| 81 | 6 | 19 | 2010 | MO 020 | 1 | 1 | 3838 | 9434 | 0 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 65.1/ 58- | -03 |
| 81 | 6 | 21 | 2230 | MO 021 | 1 | 1 | 3854 | 9422 | 0 | 0 | 1 | 15 | 0 | 0 | 3 | 1 | 1 | 1 | 70.1/115- | -03 |
| 81 | 6 | 21 | 1758 | MO 023 | 1 | 1 | 3853 | 9434 | 0 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 53.1/ 65- | -03 |
| 81 | 6 | 21 | 1814 | MO 024 | 1 | 1 | 3902 | 9436 | 0 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 46.1/ 70- | -03 |
| 81 | 6 | 21 | 1814 | MO 025 | 1 | 1 | 3848 | 9430 | 0 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 58.1/ 65- | -03 |
| 81 | 6 | 21 | 1838 | MO 026 | 1 | 1 | 3900 | 9434 | 0 | 0 | 0 | 15 | 0 | 0 | 2 | 0 | 0 | 1 | 49.1/ 69- | -01 |

* before year means event occurred within a 2 degree square centered on central point

CALCULATION
PACKAGE NO 5R-BE-001 Rev 0

PAGE 023

OF

| Tornadoes within 125. No. | | | | | | | | | | ELLINGTON, MS | | | | | | | | | |
|---------------------------|----|-----|------------|-----|-----|---------|------|------|------|---------------|--------------|---------------|--------|----------|--------------|---|---|--------------|--------------|
| Yr | No | Day | Time (LST) | Sta | Seq | Total # | Lat | Lon | Lat | Lon | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F | P | Area sq. mi. | Area sq. mi. |
| 81 | 6 | 21 | 2005 | MO | 027 | 1 | 3829 | 9436 | 0 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 1 | 74.1/53- | -03 |
| 81 | 6 | 22 | 902 | MO | 029 | 1 | 3726 | 9421 | 3727 | 9417 | 3 | 15 | 0 | 0 | 4 | 1 | 2 | 75.1/5- | -11 |
| 81 | 6 | 24 | 1805 | MO | 030 | 1 | 3855 | 9423 | 0 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 1 | 54.1/73- | -03 |
| 81 | 5 | 17 | 1425 | OK | 017 | 1 | 3653 | 9722 | 3659 | 9705 | 18 | 10 | 0 | 0 | 0 | 0 | 3 | 56.1/16- | -36 |
| 81 | 5 | 17 | 1630 | OK | 019 | 1 | 3633 | 9704 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 213.1/21- | -00 |
| 81 | 5 | 17 | 1845 | OK | 024 | 1 | 3645 | 9640 | 0 | 0 | 2 | 20 | 0 | 0 | 4 | 1 | 2 | 208.1/101- | -08 |
| 81 | 5 | 17 | 1920 | OK | 027 | 1 | 3657 | 9616 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200.1/82- | -00 |
| 81 | 5 | 17 | 1920 | OK | 028 | 1 | 3659 | 9614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199.1/79- | -00 |
| 81 | 5 | 23 | 1300 | OK | 043 | 1 | 3620 | 9626 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 179.1/82- | -00 |
| 81 | 5 | 23 | 1630 | OK | 046 | 1 | 3652 | 9539 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77.1/13- | -86 |
| 81 | 5 | 23 | 1800 | OK | 050 | 2 | 3656 | 9553 | 3659 | 9537 | 15 | 30 | 0 | 3 | 5 | 2 | 2 | 171.1/17- | -25 |
| 81 | 5 | 23 | 1735 | OK | 051 | 1 | 3637 | 9542 | 3659 | 9536 | 4 | 30 | 0 | 3 | 5 | 2 | 2 | 208.1/39- | -17 |
| 81 | 7 | 21 | 1630 | OK | 068 | 1 | 3618 | 9519 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 55.1/26- | 4.26 |
| 82 | 3 | 15 | 1649 | KS | 001 | 1 | 3740 | 9504 | 0 | 0 | 1 | 90 | 0 | 0 | 6 | 2 | 3 | 58.1/6- | 1.31 |
| 82 | 3 | 15 | 1745 | KS | 002 | 2 | 3747 | 9551 | 3802 | 9524 | 14 | 150 | 0 | 0 | 6 | 3 | 2 | 17.1/65- | -00 |
| 82 | 3 | 15 | 1815 | KS | 003 | 1 | 3701 | 9551 | 3704 | 9545 | 6 | 90 | 1 | 1 | 6 | 3 | 2 | 61.1/15- | 6.08 |
| 82 | 3 | 15 | 1840 | KS | 004 | 1 | 3709 | 9538 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 2 | 66.1/24- | 2.67 |
| 82 | 3 | 15 | 1915 | KS | 005 | 2 | 3723 | 9504 | 3729 | 9446 | 17 | 180 | 0 | 3 | 6 | 3 | 2 | 149.1/66- | -00 |
| 82 | 3 | 15 | 2020 | KS | 007 | 2 | 3701 | 9526 | 3711 | 9458 | 28 | 50 | 0 | 0 | 4 | 1 | 0 | 148.1/86- | -00 |
| 82 | 3 | 15 | 2017 | KS | 008 | 1 | 3717 | 9458 | 0 | 0 | 0 | 5 | 0 | 0 | 4 | 1 | 0 | 250.1/12- | -00 |
| 82 | 4 | 2 | 1450 | KS | 012 | 1 | 3701 | 9444 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 258.1/5- | -00 |
| 82 | 5 | 5 | 1530 | KS | 016 | 1 | 3806 | 9553 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 253.1/82- | -00 |
| 82 | 5 | 5 | 1600 | KS | 017 | 1 | 3813 | 9547 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53.1/51- | -00 |
| 82 | 5 | 14 | 1230 | KS | 020 | 1 | 3750 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62.1/53- | -00 |
| 82 | 5 | 15 | 2225 | KS | 022 | 1 | 3845 | 9449 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 59.1/39- | -00 |
| 82 | 5 | 15 | 2228 | KS | 023 | 1 | 3839 | 9441 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 320.1/38- | -00 |
| 82 | 5 | 18 | 2306 | KS | 024 | 1 | 3834 | 9458 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 189.1/51- | -00 |
| 82 | 5 | 18 | 1200 | KS | 025 | 1 | 3843 | 9612 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 307.1/122- | -00 |
| 82 | 5 | 20 | 400 | KS | 030 | 1 | 3724 | 9551 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 162.1/34- | -23 |
| 82 | 5 | 20 | 1445 | KS | 031 | 1 | 3727 | 9747 | 0 | 0 | 2 | 60 | 0 | 0 | 4 | 0 | 0 | 174.1/56- | -00 |
| 82 | 5 | 20 | 1623 | KS | 032 | 1 | 3742 | 9528 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56.1/58- | -00 |
| 82 | 5 | 20 | 2015 | KS | 033 | 1 | 3718 | 9533 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16.1/85- | -00 |
| 82 | 5 | 25 | 1530 | KS | 034 | 1 | 3846 | 9439 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72.1/3- | -21 |
| 82 | 5 | 28 | 1705 | KS | 036 | 1 | 3946 | 9505 | 3947 | 9501 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 80.1/17- | -19 |
| 82 | 5 | 28 | 2014 | KS | 039 | 2 | 3835 | 9400 | 3838 | 9538 | 20 | 5 | 0 | 0 | 0 | 0 | 0 | 35.1/12- | -00 |
| 82 | 5 | 28 | 2025 | KS | 040 | 1 | 3824 | 9532 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 38.1/9- | -29 |
| 82 | 5 | 28 | 2030 | KS | 041 | 1 | 3828 | 9550 | 3835 | 9543 | 10 | 15 | 0 | 0 | 0 | 0 | 0 | 170.1/14- | -00 |
| 82 | 5 | 30 | 1504 | KS | 042 | 1 | 3800 | 9538 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 163.1/34- | -00 |
| 82 | 5 | 30 | 1618 | KS | 043 | 1 | 3742 | 9527 | 0 | 0 | 0 | 60 | 0 | 0 | 5 | 0 | 0 | 65.1/9- | 1.23 |
| 82 | 6 | 8 | 1915 | KL | 044 | 1 | 3922 | 9558 | 3926 | 9547 | 10 | 1 | 0 | 0 | 1 | 0 | 0 | 7.1/63- | -00 |
| 82 | 6 | 8 | 2106 | KL | 045 | 1 | 3917 | 9531 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 15.1/67- | -00 |
| 82 | 6 | 8 | 2125 | KL | 046 | 1 | 3919 | 9518 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 44.1/29- | -64 |
| 82 | 7 | 9 | 2318 | KS | 054 | 2 | 3842 | 9725 | 3903 | 9659 | 33 | 10 | 0 | 0 | 5 | 1 | 0 | 58.1/4- | -04 |
| 82 | 10 | 8 | 1600 | KS | 056 | 1 | 3722 | 9622 | 3724 | 9618 | 4 | 5 | 0 | 0 | 5 | 1 | 0 | 46.1/4- | -28 |
| 82 | 11 | 11 | 1608 | KS | 057 | 2 | 3622 | 9530 | 3825 | 9526 | 4 | 30 | 0 | 0 | 4 | 1 | 2 | 132.1/63- | -03 |
| 82 | 12 | 1 | 1920 | KS | 058 | 1 | 3730 | 9440 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 1 | 0 | 46.1/14- | -00 |
| 82 | 3 | 15 | 2145 | MO | 003 | 1 | 3805 | 9335 | 3815 | 9322 | 16 | 210 | 0 | 1 | 6 | 3 | 2 | 46.1/14- | 6.55 |
| 82 | 4 | 2 | 1430 | MO | 007 | 1 | 3903 | 9411 | 3908 | 9407 | 6 | 90 | 0 | 0 | 5 | 1 | 0 | 32.1/6- | 1.35 |
| 82 | 4 | 2 | 1532 | MO | 008 | 1 | 3908 | 9408 | 0 | 0 | 2 | 210 | 0 | 0 | 4 | 1 | 0 | 55.1/90- | -80 |
| 82 | 4 | 2 | 1507 | MO | 009 | 1 | 3807 | 9332 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 94.1/102- | -01 |
| 82 | 4 | 2 | 1515 | MO | 010 | 1 | 3837 | 9124 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 78.1/102- | -01 |
| 82 | 4 | 2 | 1525 | MO | 011 | 1 | 3837 | 9124 | 0 | 0 | 0 | 9 | 0 | 0 | 2 | 1 | 1 | 61.1/116- | -02 |
| 82 | 4 | 2 | 1735 | MO | 014 | 1 | 3846 | 9308 | 0 | 0 | 1 | 9 | 0 | 0 | 4 | 1 | 0 | 75.1/124- | -02 |
| 82 | 5 | 14 | 1726 | MO | 025 | 1 | 3808 | 9323 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 | 0 | 93.1/109- | -01 |

-. before year means event occurred within a 2 degree square centered on central point

CALCULATION SR-88-001 Rev 0

PAGE 24

OF

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # | Lat | Lon | Lat | Lon | Length miles | Width 10" ft | Deaths | Injuries | Damage Class | F P P | AIRSN | Area sq-mi |
|----|----|-----|------------|---------|-----|---------|------|------|------|------|--------------|--------------|--------|----------|--------------|-------|-----------|------------|
| 82 | 5 | 14 | 1728 | MO 026 | 1 | 1 | 3810 | 9318 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 0 1 | 92-1112- | -01 |
| 82 | 5 | 14 | 1830 | MO 028 | 1 | 1 | 3827 | 9303 | 0 | 0 | 1 | 15 | 0 | 0 | 2 | 1 1 1 | 84-1124- | -03 |
| 82 | 5 | 14 | 1835 | MO 029 | 1 | 1 | 3828 | 9316 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 - 1 | 83-1114- | -00 |
| 82 | 5 | 14 | 1835 | MO 030 | 1 | 1 | 3832 | 9313 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 1 0 1 | 81-1117- | -01 |
| 82 | 5 | 20 | 1652 | MO 038 | 1 | 1 | 3825 | 9419 | 3827 | 9416 | 3 | 30 | 0 | 0 | 5 | 2 1 2 | 50-1 3- | -20 |
| 82 | 5 | 20 | 1850 | MO 039 | 1 | 1 | 3837 | 9344 | 0 | 0 | 0 | 15 | 0 | 0 | 2 | 1 0 1 | 76-1 94- | -01 |
| 82 | 5 | 28 | 1810 | MO 040 | 1 | 1 | 3853 | 9410 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 0 1 | 61-1 81- | -01 |
| 82 | 5 | 28 | 1938 | MO 041 | 1 | 1 | 3945 | 9412 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 0 1 | 37-1114- | -01 |
| 82 | 5 | 28 | 2030 | MO 042 | 1 | 1 | 3814 | 9337 | 0 | 0 | 2 | 15 | 0 | 0 | 5 | 1 1 1 | 90-1 97- | -06 |
| 82 | 10 | 8 | 1505 | MO 047 | 1 | 1 | 3924 | 9435 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 1 0 1 | 36- 87- | -01 |
| 82 | 12 | 1 | 1926 | MO 048 | 2 | 2 | 3730 | 9435 | 3737 | 9420 | 33 | 60 | 0 | 5 | 5 | 1 3 3 | 24-1 29- | 3-86 |
| 82 | 12 | 1 | 2000 | MO 049 | 1 | 1 | 3828 | 9400 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 1 0 1 | 80-1 80- | -01 |
| 82 | 12 | 1 | 2155 | MO 051 | 1 | 1 | 3852 | 9314 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 0 1 | 72-1121- | -01 |
| 82 | 3 | 15 | 1840 | OK 004 | 1 | 1 | 3640 | 9619 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 2 - - | 198-1 99- | -00 |
| 82 | 3 | 15 | 1845 | OK 005 | 1 | 1 | 3635 | 9619 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 - - | 197-1105- | -00 |
| 82 | 3 | 15 | 1855 | OK 006 | 1 | 1 | 3653 | 9556 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 - - | 188-1 82- | -00 |
| 82 | 3 | 15 | 1902 | OK 007 | 1 | 1 | 3644 | 9601 | 3646 | 9558 | 3 | 55 | 0 | 0 | 7 | 2 1 2 | 50-1 3- | -36 |
| 82 | 3 | 15 | 1910 | OK 008 | 1 | 1 | 3649 | 9551 | 3655 | 9540 | 12 | 53 | 0 | 0 | 5 | 2 3 2 | 56-1 11- | 1-23 |
| 82 | 3 | 15 | 1915 | OK 009 | 1 | 1 | 3652 | 9537 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 - - | 178-1 82- | -00 |
| 82 | 4 | 2 | 1445 | -OK 015 | 1 | 1 | 3624 | 9533 | 0 | 0 | 1 | 15 | 0 | 0 | 5 | 2 1 1 | 177-1110- | -03 |
| 82 | 4 | 2 | 1500 | OK 017 | 1 | 1 | 3620 | 9516 | 0 | 0 | 0 | 3 | 0 | 0 | 4 | 2 0 0 | 170-1116- | -00 |
| 82 | 4 | 2 | 1720 | OK 024 | 1 | 1 | 3640 | 9718 | 0 | 0 | 1 | 15 | 0 | 0 | 2 | 1 1 1 | 220-1122- | -04 |
| 82 | 11 | 11 | 1645 | OK 026 | 1 | 1 | 3633 | 9619 | 0 | 0 | 0 | 6 | 0 | 0 | 4 | 1 0 1 | 167-1105- | -01 |
| 82 | 12 | 24 | 940 | OK 101 | 1 | 1 | 3632 | 9504 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 1 0 1 | 164-1106- | -01 |
| 83 | 3 | 26 | 1515 | KS 002 | 1 | 1 | 3726 | 9442 | 3733 | 9439 | 8 | 30 | 0 | 0 | 6 | 3 2 2 | 19-1 7- | 1-57 |
| 83 | 5 | 6 | 1730 | KS 004 | 1 | 1 | 3854 | 9552 | 3903 | 9535 | 18 | 45 | 1 | 25 | 7 | 3 3 2 | 56-1 16- | -48 |
| 83 | 5 | 12 | 1620 | KS 011 | 1 | 1 | 3941 | 9526 | 0 | 0 | 2 | 15 | 0 | 0 | 4 | 0 1 1 | 8-1 88- | -09 |
| 83 | 5 | 18 | 1415 | KS 012 | 2 | 2 | 3943 | 9655 | 3946 | 9645 | 9 | 5 | 0 | 0 | 3 | 0 2 0 | 69-1 8- | -00 |
| 83 | 5 | 18 | 1625 | KS 014 | 1 | 1 | 3954 | 9703 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 - 0 | 328-1118- | -00 |
| 83 | 5 | 27 | 1730 | KS 012 | 1 | 1 | 3818 | 9551 | 3822 | 9550 | 4 | 15 | 0 | 0 | 3 | 1 2 1 | 11-1 4- | -13 |
| 83 | 5 | 27 | 1736 | KS 013 | 1 | 1 | 3855 | 9725 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 - 0 | 297-1 91- | -00 |
| 83 | 5 | 27 | 1738 | KS 014 | 1 | 1 | 3854 | 9734 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 - 0 | 294-1 97- | -00 |
| 83 | 5 | 27 | 1744 | KS 015 | 1 | 1 | 3823 | 9655 | 0 | 0 | 0 | 5 | 0 | 0 | 3 | 0 - 0 | 279-1 59- | -00 |
| 83 | 5 | 27 | 1930 | KS 016 | 1 | 1 | 3758 | 9610 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 0 - 0 | 235-1 28- | -00 |
| 83 | 6 | 3 | 215 | KS 018 | 1 | 1 | 3736 | 9519 | 3736 | 9511 | 7 | 15 | 0 | 0 | 5 | 1 2 1 | 90-1 6- | -21 |
| 83 | 6 | 10 | 1400 | KS 019 | 1 | 1 | 3854 | 9741 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 0 - 0 | 293-1102- | -00 |
| 83 | 6 | 10 | 1630 | KS 020 | 1 | 1 | 3933 | 9738 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 - 0 | 311-1120- | -00 |
| 83 | 6 | 10 | 1816 | KS 021 | 1 | 1 | 3926 | 9721 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 - 0 | 313-1106- | -00 |
| 83 | 6 | 13 | 1925 | KS 027 | 1 | 1 | 3946 | 9521 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 - 0 | 9-1 53- | -00 |
| 83 | 6 | 18 | 1755 | KS 029 | 1 | 1 | 3936 | 9700 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 - 0 | 323-1102- | -00 |
| 83 | 6 | 18 | 1955 | KS 030 | 1 | 1 | 3802 | 9501 | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 0 - 0 | 332-1 92- | -00 |
| 83 | 7 | 31 | 1310 | KS 030 | 1 | 1 | 3802 | 9501 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 - 0 | 111-1 34- | -00 |
| 83 | 4 | 29 | 1955 | MO 005 | 1 | 1 | 3708 | 9330 | 0 | 0 | 0 | 30 | 0 | 0 | 6 | 2 1 3 | 122-1124- | -06 |
| 83 | 4 | 29 | 2023 | MO 006 | 1 | 1 | 3712 | 9327 | 3715 | 9322 | 5 | 30 | 1 | 19 | 3 | 3 2 3 | 53-1 5- | -33 |
| 83 | 4 | 29 | 2120 | MO 007 | 1 | 1 | 3648 | 9431 | 0 | 0 | 1 | 15 | 0 | 0 | 2 | 0 0 1 | 147-1103- | -03 |
| 83 | 5 | 1 | 1355 | MO 012 | 1 | 1 | 3554 | 9321 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 0 1 | 70-1116- | -01 |
| 83 | 5 | 26 | 1400 | OK 004 | 1 | 1 | 3656 | 9521 | 0 | 0 | 0 | 9 | 0 | 0 | 4 | 1 0 1 | 163-1 90- | -01 |
| 83 | 5 | 26 | 1840 | OK 006 | 1 | 1 | 3647 | 9722 | 3647 | 9709 | 11 | 30 | 0 | 0 | 1 | 1 0 1 | 168-1 80- | -01 |
| 83 | 4 | 27 | 1850 | OK 007 | 1 | 1 | 3643 | 9640 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 1 3 2 | 90-1 10- | -88 |
| 83 | 4 | 27 | 1915 | OK 008 | 1 | 1 | 3641 | 9653 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 - 1 | 207-1103- | -00 |
| 83 | 4 | 27 | 2000 | OK 010 | 1 | 1 | 3630 | 9646 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 - 1 | 212-1109- | -01 |
| 83 | 4 | 27 | 1930 | OK 015 | 1 | 1 | 3633 | 9527 | 0 | 0 | 1 | 50 | 0 | 0 | 4 | 2 0 1 | 207-1116- | -01 |
| 83 | 4 | 29 | 1930 | OK 016 | 1 | 1 | 3652 | 9522 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 2 1 2 | 174-1162- | -09 |
| 83 | 5 | 12 | 1737 | OK 017 | 1 | 1 | 3655 | 9725 | 0 | 0 | 0 | 15 | 0 | 0 | 1 | 0 - 1 | 170-1 83- | -00 |

* before year means event occurred within a 2 degree square centered on centre point

CALCULATION SR-8B-001 Rev 0

PAGE D25 OF

Tornadoes within 125 NM of L. ANGLON, KS

| Yr | Mo | Day | Time (CST) | Sta | Seq | Total # | Lat Begin | Lon Begin | Lat End | Lon End | Length miles | Width 10 ⁻⁴ ft | Deaths | Injuries | Damage Class | F | P | F | P | Area sq. mi |
|----|----|-----|------------|-----|-----|---------|-----------|-----------|---------|---------|--------------|---------------------------|--------|----------|--------------|---|---|---|---|-------------|
| 83 | 5 | 12 | 1805 | 04 | 019 | 1 | 3647 | 9721 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 221.7118 |
| 83 | 6 | 18 | 2105 | 04 | 070 | 1 | 3646 | 9650 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 212.7104 |
| 83 | 6 | 27 | 2200 | 04 | 075 | 1 | 3621 | 9403 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5 | 2 | 0 | 2 | 189.7114 |
| 83 | 6 | 27 | 2220 | 04 | 076 | 2 | 3622 | 9552 | 3624 | 9545 | 6 | 30 | 1 | 0 | 0 | 4 | 2 | 2 | 2 | 170.7106 |
| 84 | 2 | 11 | 1745 | 05 | 001 | 1 | 3750 | 9457 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 125.7142 |
| 84 | 2 | 11 | 1747 | 05 | 002 | 1 | 3818 | 9459 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 5 | 1 | 1 | 1 | 83.7133 |
| 84 | 2 | 11 | 1805 | 05 | 003 | 1 | 3831 | 9448 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 68.7145 |
| 84 | 3 | 15 | 1310 | 05 | 005 | 1 | 3756 | 9510 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 126.7130 |
| 84 | 3 | 15 | 1310 | 05 | 004 | 1 | 3755 | 9518 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 136.7126 |
| 84 | 4 | 2 | 1445 | 05 | 006 | 1 | 3737 | 9756 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 251.7113 |
| 84 | 4 | 2 | 1450 | 05 | 007 | 1 | 3740 | 9756 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 252.7112 |
| 84 | 4 | 2 | 1500 | 05 | 008 | 1 | 3722 | 9741 | 3725 | 9741 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 360.713 |
| 84 | 4 | 26 | 1800 | 05 | 010 | 1 | 3824 | 9725 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 3 | 1 | 0 | 2 | 277.7182 |
| 84 | 4 | 26 | 1935 | 05 | 012 | 1 | 3720 | 9758 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 244.7122 |
| 84 | 4 | 26 | 1945 | 05 | 013 | 1 | 3801 | 9759 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 262.7194 |
| 84 | 4 | 26 | 2038 | 05 | 014 | 1 | 3701 | 9554 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 188.7174 |
| 84 | 4 | 26 | 2125 | 05 | 015 | 1 | 3706 | 9553 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5 | 2 | 0 | 2 | 350.7153 |
| 84 | 4 | 26 | 2145 | 05 | 016 | 1 | 3914 | 9543 | 3921 | 9534 | 11 | 120 | 0 | 0 | 0 | 6 | 2 | 3 | 3 | 45.7110 |
| 84 | 4 | 26 | 2220 | 05 | 017 | 3 | 3924 | 9526 | 3948 | 9505 | 33 | 160 | 0 | 0 | 0 | 9 | 3 | 4 | 4 | 36.7129 |
| 84 | 4 | 26 | 2240 | 05 | 018 | 2 | 3725 | 9620 | 3737 | 9609 | 17 | 80 | 0 | 0 | 0 | 4 | 1 | 3 | 3 | 36.7115 |
| 84 | 4 | 27 | 1025 | 05 | 019 | 1 | 3723 | 9455 | 3729 | 9449 | 8 | 12 | 0 | 0 | 0 | 5 | 2 | 2 | 3 | 38.7108 |
| 84 | 4 | 29 | 1028 | 05 | 020 | 1 | 3734 | 9738 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 247.7101 |
| 84 | 4 | 29 | 1040 | 05 | 021 | 1 | 3730 | 9730 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 243.7197 |
| 84 | 4 | 29 | 1050 | 05 | 022 | 1 | 3740 | 9726 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 248.7190 |
| 84 | 4 | 29 | 1058 | 05 | 023 | 1 | 3748 | 9719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 251.7182 |
| 84 | 4 | 29 | 1058 | 05 | 024 | 1 | 3702 | 9555 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 189.7173 |
| 84 | 4 | 29 | 1100 | 05 | 025 | 1 | 3751 | 9715 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 4 | 1 | 0 | 3 | 253.7178 |
| 84 | 4 | 29 | 1105 | 05 | 026 | 1 | 3744 | 9720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 249.7184 |
| 84 | 4 | 29 | 1105 | 05 | 027 | 1 | 3741 | 9719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 247.7184 |
| 84 | 4 | 29 | 1110 | 05 | 028 | 1 | 3743 | 9715 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 5 | 2 | 1 | 3 | 247.7181 |
| 84 | 4 | 29 | 1150 | 05 | 029 | 1 | 3702 | 9625 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 206.7180 |
| 84 | 4 | 29 | 1154 | 05 | 030 | 1 | 3719 | 9640 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 220.7172 |
| 84 | 4 | 29 | 1338 | 05 | 031 | 1 | 3704 | 9703 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 4 | 1 | 0 | 3 | 223.7196 |
| 84 | 4 | 29 | 1425 | 05 | 033 | 1 | 3730 | 9722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 241.7191 |
| 84 | 4 | 29 | 1425 | 05 | 032 | 1 | 3825 | 9624 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 288.7135 |
| 84 | 4 | 29 | 1440 | 05 | 034 | 1 | 3733 | 9719 | 3742 | 9717 | 10 | 3 | 0 | 0 | 0 | 4 | 1 | 3 | 2 | 10.719 |
| 84 | 6 | 3 | 1945 | 05 | 037 | 1 | 3802 | 9735 | 3959 | 9526 | 18 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 262.7191 |
| 84 | 6 | 7 | 1533 | 05 | 038 | 1 | 3949 | 9543 | 3959 | 9526 | 18 | 90 | 0 | 0 | 0 | 6 | 2 | 3 | 3 | 52.7116 |
| 84 | 6 | 8 | 1926 | 05 | 040 | 1 | 3714 | 9659 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 226.7186 |
| 84 | 6 | 8 | 1928 | 05 | 041 | 1 | 3715 | 9705 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 229.7189 |
| 84 | 6 | 8 | 1930 | 05 | 042 | 1 | 3724 | 9656 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 230.7178 |
| 84 | 6 | 8 | 2046 | 05 | 043 | 1 | 3704 | 9656 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 221.7192 |
| 84 | 6 | 9 | 1345 | 05 | 044 | 1 | 3846 | 9644 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 303.7159 |
| 84 | 6 | 13 | 1835 | 05 | 050 | 1 | 3755 | 9752 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 260.7105 |
| 84 | 6 | 13 | 1935 | 05 | 051 | 1 | 3747 | 9805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 257.7117 |
| 84 | 6 | 22 | 1445 | 05 | 053 | 1 | 3732 | 9726 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 243.7193 |
| 84 | 6 | 22 | 1455 | 05 | 054 | 1 | 3733 | 9729 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 244.7195 |
| 84 | 10 | 5 | 1517 | 05 | 058 | 1 | 3851 | 9731 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 254.7166 |
| 84 | 10 | 5 | 1920 | 05 | 059 | 1 | 3756 | 9701 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.7136 |
| 84 | 10 | 31 | 1825 | 05 | 061 | 1 | 3914 | 9536 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5 | 1 | 1 | 2 | 24.7166 |
| 84 | 10 | 31 | 1940 | 05 | 062 | 1 | 3914 | 9507 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5 | 1 | 1 | 2 | 24.7166 |
| 84 | 10 | 31 | 2040 | 05 | 063 | 1 | 3758 | 9713 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 258.7174 |
| 84 | 4 | 27 | 145 | 04 | 006 | 1 | 3740 | 9429 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121.7166 |
| 84 | 6 | 7 | 2130 | 04 | 016 | 1 | 3952 | 9406 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5 | 2 | 1 | 2 | 37.7122 |
| 84 | 6 | 8 | 1650 | 04 | 018 | 1 | 4012 | 9502 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 14.7122 |

-. before year means event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of BURLINGTON, KS

| Yr | No Day | Time (CST) | Sta Seq | Total # | Lat begin | Lon begin | Lat end | Lon end | Length miles | Width 10's ft | Deaths | Injuries | Damage Class | F P P | ALARM | Area sq.mi |
|----|--------|------------|---------|---------|-----------|-----------|---------|---------|--------------|---------------|--------|----------|--------------|-------|------------|------------|
| 84 | 6 8 | 1702 | MO 019 | 1 | 4012 | 9452 | 0 | 0 | 1 | 15 | 0 | 0 | 4 | 1 1 1 | 18.7/124. | -03 |
| 84 | 6 7 | 1800 | ME 016 | 1 | 4006 | 9607 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 1 0 1 | 350.7/114. | -01 |
| 84 | 7 5 | 1930 | ME 048 | 1 | 4001 | 9648 | 0 | 0 | 0 | 12 | 0 | 0 | 5 | 1 0 1 | 334.7/119. | -02 |
| 84 | 3 15 | 1538 | OK 002 | 1 | 3641 | 9458 | 0 | 0 | 2 | 9 | 0 | 0 | 1 | 0 1 1 | 160.7/99. | -03 |
| 84 | 3 15 | 1602 | OK 003 | 1 | 3637 | 9459 | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 1 1 1 | 161.7/103. | -00 |
| 84 | 4 26 | 2300 | OK 018 | 2 | 3620 | 9604 | 3622 | 9556 | 7 | 26 | 0 | 5 | 5 | 1 2 4 | 73.7/7. | 3.88 |
| 84 | 4 26 | 2309 | OK 019 | 1 | 3628 | 9553 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 2 1 0 | 185.7/106. | -00 |
| 84 | 4 27 | 100 | OK 022 | 1 | 3637 | 9446 | 3638 | 9444 | 2 | 6 | 0 | 0 | 6 | 2 1 3 | 58.7/2. | -02 |
| 85 | 3 3 | 2145 | KS 001 | 1 | 3720 | 9516 | 1 | 0 | 0 | 1 | 0 | 0 | 3 | 0 1 1 | 160.7/58. | -00 |
| 85 | 4 13 | 1305 | KS 003 | 1 | 3830 | 9549 | 0 | 0 | 0 | 9 | 0 | 0 | 3 | 0 1 1 | 339.7/17. | -00 |
| 85 | 7 2 | 1610 | KS 012 | 1 | 3807 | 9649 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 1 1 | 263.7/56. | -00 |
| 85 | 8 3 | 1711 | KS 013 | 2 | 3853 | 9727 | 3856 | 9720 | 2 | 120 | 0 | 0 | 3 | 1 2 3 | 61.7/6. | -49 |
| 85 | 8 3 | 1700 | KS 014 | 1 | 3853 | 9729 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 1 0 | 295.7/93. | -00 |
| 85 | 8 6 | 1648 | KS 015 | 1 | 3846 | 9814 | 3842 | 9809 | 6 | 120 | 0 | 0 | 5 | 1 2 3 | 136.7/6. | 1.46 |
| 85 | 8 17 | 1718 | KS 016 | 1 | 3848 | 9624 | 0 | 0 | 2 | 15 | 0 | 0 | 5 | 1 1 1 | 315.7/48. | -06 |
| 85 | 8 17 | 1723 | KS 017 | 1 | 3643 | 9615 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 1 0 | 318.7/39. | -00 |
| 85 | 8 17 | 1828 | KS 018 | 1 | 3827 | 9615 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 1 0 | 296.7/30. | -00 |
| 85 | 8 23 | 1400 | KS 019 | 1 | 3804 | 9757 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 0 1 0 | 265.7/108. | -00 |
| 85 | 5 26 | 1735 | MO 005 | 1 | 3945 | 9430 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 1 1 | 31.7/106. | -01 |
| 85 | 5 26 | 1815 | MO 006 | 1 | 3924 | 9419 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 1 1 | 42.7/94. | -01 |
| 85 | 5 29 | 1315 | MO 007 | 1 | 3647 | 9422 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 1 0 2 | 144.7/108. | -03 |
| 85 | 5 29 | 1400 | MO 008 | 1 | 3653 | 9423 | 0 | 0 | 1 | 30 | 0 | 0 | 5 | 1 1 2 | 142.7/102. | -06 |
| 85 | 5 30 | 1824 | MO 009 | 3 | 3936 | 9456 | 3931 | 9440 | 35 | 15 | 0 | 5 | 5 | 1 3 1 | 112.7/33. | -44 |
| 85 | 5 30 | 1828 | MO 010 | 1 | 3935 | 9429 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 1 1 1 | 34.7/98. | -01 |
| 85 | 6 17 | 2156 | MO 012 | 1 | 3949 | 9451 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 1 0 | 22.7/102. | -00 |
| 85 | 6 21 | 1809 | MO 013 | 1 | 3945 | 9411 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 1 0 | 37.7/114. | -00 |
| 85 | 2 22 | 215 | OK 001 | 1 | 3627 | 9542 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 1 1 1 | 180.7/107. | -00 |
| 85 | 4 19 | 2330 | OK 008 | 1 | 3628 | 9700 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 1 0 | 211.7/124. | -00 |
| 85 | 4 30 | 1345 | OK 017 | 1 | 3618 | 9510 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 1 1 1 | 168.7/119. | -00 |
| 85 | 6 14 | 2255 | OK 028 | 1 | 3618 | 9551 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 1 1 1 | 184.7/116. | -00 |
| 86 | 4 7 | 1735 | KS 001 | 1 | 3803 | 9608 | 3803 | 9608 | 0 | 15 | 0 | 0 | 5 | 1 0 1 | 0.7/0. | -00 |
| 86 | 4 7 | 1801 | KS 002 | 2 | 3803 | 9605 | 3753 | 9544 | 22 | 30 | 0 | 0 | 5 | 2 3 2 | 121.7/19. | 1.27 |
| 86 | 4 7 | 1755 | KS 003 | 1 | 3753 | 9541 | 3753 | 9543 | 0 | 15 | 0 | 0 | 0 | 0 1 0 | 0.7/0. | -00 |
| 86 | 4 7 | 1840 | KS 004 | 1 | 3730 | 9501 | 3730 | 9501 | 0 | 15 | 0 | 0 | 0 | 0 1 0 | 0.7/0. | -00 |
| 86 | 4 7 | 1846 | KS 005 | 1 | 3717 | 9455 | 3717 | 9455 | 0 | 15 | 0 | 0 | 0 | 0 1 0 | 0.7/0. | -00 |
| 86 | 4 7 | 1855 | KS 006 | 1 | 3734 | 9507 | 3734 | 9507 | 0 | 15 | 0 | 0 | 0 | 0 1 0 | 0.7/0. | -00 |
| 86 | 4 7 | 1856 | KS 007 | 1 | 3734 | 9505 | 3734 | 9505 | 0 | 15 | 0 | 0 | 0 | 0 1 0 | 0.7/0. | -00 |
| 86 | 4 7 | 1919 | KS 008 | 1 | 3721 | 9505 | 3721 | 9505 | 0 | 15 | 0 | 0 | 0 | 0 1 0 | 0.7/0. | -00 |
| 86 | 4 7 | 1926 | KS 009 | 2 | 3819 | 9651 | 3821 | 9649 | 1 | 15 | 0 | 0 | 0 | 0 1 0 | 38.7/3. | -04 |
| 86 | 5 6 | 2030 | KS 010 | 1 | 3706 | 9438 | 3706 | 9438 | 0 | 15 | 0 | 0 | 3 | 1 0 1 | 0.7/0. | -00 |
| 86 | 5 6 | 1945 | KS 013 | 2 | 3852 | 9649 | 3853 | 9630 | 17 | 60 | 0 | 0 | 5 | 1 3 3 | 79.7/15. | 1.97 |
| 86 | 5 8 | 1935 | KS 014 | 1 | 3727 | 9751 | 0 | 0 | 1 | 15 | 0 | 0 | 3 | 1 1 1 | 246.7/113. | -03 |
| 86 | 5 16 | 1946 | KS 015 | 1 | 3730 | 9755 | 0 | 0 | 1 | 15 | 0 | 0 | 3 | 1 1 1 | 248.7/115. | -04 |
| 86 | 5 16 | 1500 | KS 020 | 1 | 3922 | 9717 | 3924 | 9705 | 10 | 30 | 0 | 0 | 4 | 1 2 2 | 78.7/9. | -62 |
| 86 | 5 27 | 1200 | KS 022 | 1 | 3756 | 9512 | 0 | 0 | 2 | 15 | 0 | 0 | 4 | 1 1 1 | 128.7/29. | -06 |
| 86 | 5 27 | 1210 | KS 023 | 1 | 3758 | 9510 | 0 | 0 | 1 | 15 | 0 | 0 | 4 | 1 1 1 | 123.7/29. | -03 |
| 86 | 6 10 | 1702 | KS 024 | 1 | 3704 | 9630 | 0 | 0 | 0 | 15 | 0 | 0 | 3 | 0 1 1 | 209.7/80. | -00 |
| 86 | 7 6 | 1724 | KS 025 | 1 | 3723 | 9659 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 1 1 | 231.7/80. | -00 |
| 86 | 9 10 | 1823 | KS 029 | 1 | 3950 | 9733 | 0 | 0 | 1 | 7 | 0 | 0 | 2 | 0 1 1 | 292.7/94. | -01 |
| 86 | 9 22 | 1520 | KS 031 | 1 | 4003 | 9520 | 0 | 0 | 1 | 24 | 0 | 0 | 5 | 0 1 2 | 9.7/107. | -05 |
| 86 | 9 22 | 1530 | KS 032 | 1 | 3949 | 9545 | 0 | 0 | 0 | 7 | 0 | 0 | 4 | 0 1 1 | 358.7/95. | -00 |
| 86 | 4 7 | 1840 | MO 001 | 1 | 3705 | 9434 | 3705 | 9434 | 0 | 15 | 0 | 0 | 0 | 1 0 1 | 0.7/0. | -00 |
| 86 | 4 7 | 1845 | MO 002 | 1 | 3705 | 9431 | 3705 | 9431 | 0 | 15 | 0 | 0 | 2 | 1 0 1 | 0.7/0. | -00 |
| 86 | 4 7 | 2200 | MO 003 | 1 | 3633 | 9418 | 3633 | 9418 | 0 | 15 | 0 | 0 | 0 | 1 0 1 | 0.7/0. | -00 |
| 86 | 10 2 | 2250 | MO 016 | 1 | 3815 | 9326 | 3821 | 9316 | 7 | 15 | 0 | 0 | 5 | 1 3 1 | 53.7/10. | -23 |

.. before year means event occurred within a 2 degree square centered on central point

CALCULATION PACKAGE NO. 52-88-001 Rev 0

PAGE D27 OF

Tornadoes within 125. NM of BURLINGTON, KS

| Yr | Mo | Day | Time (CST) | sta | Seq | Total # sep | L-t begin | Lon | Lat | Lon | Length miles | Width 10 ⁻⁴ ft | Deaths | Injuries | Damage Class | F | P | R | AN | sq mi | Area |
|----|----|-----|---------------|-----|-----|----------------|--------------|------|------|------|-----------------|------------------------------|--------|----------|-----------------|---|---|---|-------|-------|-------|
| 86 | 4 | 7 | 1744 | OK | 00 | 1 | 3629 | 9520 | 3627 | 9534 | 6 | 30 | 0 | 0 | 5 | 2 | 2 | 2 | 113.7 | 5- | 34 |
| 86 | 5 | 14 | 1313 | OK | 011 | 1 | 3656 | 9548 | 0 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 1 | 1 | 184.7 | 78- | -03 |
| 86 | 9 | 29 | 715 | OK | 038 | 1 | 3611 | 9544 | 0 | 0 | 2 | 30 | 0 | 0 | 5 | 2 | 2 | 2 | 181.1 | 123- | -11 |
| 87 | 5 | 18 | 1607 | KS | 004 | 1 | 3827 | 9623 | 3829 | 9621 | 2 | 90 | 0 | 0 | 6 | 2 | 2 | 3 | 38.7 | 3- | -01 |
| 87 | 5 | 18 | 1635 | KS | 005 | 1 | 3827 | 9615 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 1 | 2 | 2 | 291.7 | 28- | -42 |
| 87 | 5 | 18 | 1651 | KS | 006 | 1 | 394 | 9735 | 3949 | 9532 | 7 | 30 | 0 | 0 | 5 | 1 | 2 | 2 | 21.7 | 6- | -06 |
| 87 | 5 | 27 | 1451 | KS | 006 | 1 | 3959 | 9521 | 0 | 0 | 1 | 30 | 0 | 0 | 5 | 0 | 0 | 1 | 8.7 | 106- | -00 |
| 87 | 6 | 22 | 1530 | KS | 007 | 1 | 3822 | 9727 | 0 | 0 | 0 | 9 | 0 | 0 | 2 | 0 | 0 | 1 | 276.7 | 84- | -01 |
| 87 | 6 | 22 | 1530 | KS | 010 | 1 | 3839 | 9624 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 1 | 507.7 | 42- | -01 |
| 87 | 6 | 22 | 1440 | KS | 011 | 1 | 3839 | 9624 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 1 | 531.7 | 53- | -01 |
| 87 | 6 | 22 | 1549 | KS | 012 | 1 | 3759 | 9451 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 1 | 1 | 1 | 140.7 | 63- | -00 |
| 87 | 6 | 22 | 1716 | KS | 013 | 1 | 3726 | 9450 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 1 | 1 | 1 | 309.7 | 106- | -00 |
| 87 | 6 | 28 | 20 | KS | 015 | 1 | 3921 | 9727 | 0 | 0 | 0 | 9 | 0 | 0 | 5 | 1 | 1 | 1 | 248.7 | 85- | -17 |
| 87 | 7 | 5 | 520 | KS | 016 | 1 | 3742 | 9720 | 0 | 0 | 1 | 60 | 0 | 0 | 0 | 2 | 2 | 2 | 239.7 | 79- | -06 |
| 87 | 7 | 5 | 535 | KS | 017 | 1 | 3733 | 9706 | 0 | 0 | 1 | 30 | 0 | 0 | 5 | 2 | 2 | 1 | 236.7 | 77- | -01 |
| 87 | 7 | 5 | 545 | KS | 018 | 1 | 3731 | 9701 | 0 | 0 | 0 | 15 | 0 | 0 | 5 | 0 | 0 | 0 | 346.7 | 46- | -00 |
| 87 | 7 | 7 | 1900 | KS | 019 | 1 | 3859 | 9555 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 165.7 | 97- | -04 |
| 87 | 7 | 7 | 1254 | OK | 023 | 1 | 3640 | 9510 | 0 | 0 | 1 | 15 | 0 | 1 | 4 | 2 | 2 | 1 | 45.7 | 34- | -00 |
| 87 | 11 | 15 | 300 | OK | 004 | 2 | 3659 | 9717 | 3723 | 9707 | 38 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 344.7 | 21- | -67 |
| 87 | 5 | 10 | 300 | OK | 004 | 2 | 3659 | 9717 | 3703 | 9724 | 23 | 150 | 20 | 280 | 7 | 5 | 5 | 4 | 29.7 | 39- | 16.83 |
| 87 | 5 | 25 | 2200 | OK | 012 | 2 | 3643 | 9717 | 3703 | 9724 | 23 | 198 | 80 | 273 | 5 | 5 | 4 | 4 | 34.7 | 92- | 53.23 |
| 87 | 5 | 25 | 2315 | OK | 013 | 5 | 3653 | 9709 | 3727 | 9665 | 44 | 264 | 2 | 29 | 5 | 5 | 4 | 3 | 49.7 | 35- | 9.14 |
| 87 | 5 | 25 | 2559 | OK | 007 | 9 | 3649 | 9658 | 3606 | 9553 | 106 | 120 | 0 | 59 | 5 | 5 | 4 | 3 | 58.7 | 60- | 17.41 |
| 87 | 4 | 2 | 50 | OK | 012 | 4 | 3646 | 9658 | 3709 | 9425 | 69 | 132 | 44 | 207 | 6 | 5 | 4 | 3 | 24.7 | 16- | -00 |
| 87 | 5 | 20 | 1937 | KS | 012 | 3 | 3827 | 9510 | 3859 | 9624 | | 132 | 1 | 1 | 0 | 3 | 3 | 3 | 38.7 | 11- | -00 |
| 87 | 5 | 20 | 1800 | OK | 063 | 2 | 3651 | 9515 | 3707 | 9508 | 0 | 0 | 0 | 2 | 5 | 3 | 2 | 3 | 38.7 | 11- | -00 |
| 87 | 9 | 23 | 1800 | KS | 006 | 2 | 3835 | 9439 | 3842 | 9432 | 8 | 132 | 0 | 12 | 6 | 5 | 3 | 3 | 74.7 | 25- | 2.45 |
| 87 | 4 | 15 | 1645 | KS | 023 | 7 | 3910 | 9456 | 3917 | 9425 | 28 | 45 | 0 | 0 | 6 | 1 | 1 | 1 | 18.7 | 105- | -00 |
| 87 | 5 | 7 | 1645 | KS | 023 | 7 | 3910 | 9456 | 3917 | 9425 | 28 | 45 | 0 | 0 | 6 | 1 | 1 | 1 | 18.7 | 105- | -00 |
| 87 | 6 | 1 | 1345 | KS | 008 | 2 | 3954 | 9458 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 38.7 | 11- | -00 |
| 87 | 5 | 31 | 1345 | KS | 008 | 2 | 3954 | 9458 | 3923 | 9452 | 13 | 132 | 1 | 22 | 6 | 3 | 3 | 3 | 38.7 | 11- | -00 |
| 87 | 4 | 12 | 1630 | KS | 004 | 2 | 3914 | 9501 | 3923 | 9452 | 13 | 0 | 0 | 11 | 4 | 3 | 3 | 3 | 48.7 | 23- | -00 |
| 87 | 4 | 10 | 1440 | KS | 008 | 3 | 3925 | 9507 | 3940 | 9445 | 26 | 0 | 0 | 0 | 4 | 3 | 1 | 1 | 90.7 | 2- | -00 |
| 87 | 6 | 65 | 1445 | KS | 010 | 2 | 3838 | 9439 | 3838 | 9436 | 18 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 51.7 | 16- | -05 |
| 87 | 6 | 68 | 1400 | KS | 001 | 3 | 3821 | 9446 | 3831 | 9450 | 60 | 60 | 0 | 6 | 4 | 5 | 2 | 3 | 51.7 | 16- | -05 |
| 87 | 4 | 4 | 1600 | KS | 011 | 7 | 3921 | 9506 | 3952 | 9416 | 11 | 30 | 0 | 0 | 4 | 2 | 3 | 2 | 51.7 | 16- | -05 |
| 87 | 5 | 18 | 1435 | KS | 011 | 7 | 3921 | 9506 | 3952 | 9416 | 11 | 30 | 0 | 0 | 4 | 2 | 3 | 2 | 51.7 | 16- | -05 |
| 87 | 7 | 71 | 1435 | KS | 011 | 7 | 3921 | 9506 | 3952 | 9416 | 11 | 30 | 0 | 0 | 4 | 2 | 3 | 2 | 51.7 | 16- | -05 |
| 87 | 3 | 13 | 1530 | OK | 004 | 2 | 3648 | 9708 | 3727 | 9640 | 51 | 75 | 0 | 1 | 6 | 2 | 3 | 2 | 28.7 | 45- | -6.73 |
| 87 | 7 | 73 | 1936 | KS | 016 | 9 | 3821 | 9801 | 4031 | 9631 | 118 | 30 | 3 | 42 | 7 | 3 | 3 | 3 | 59.7 | 61- | 21.38 |
| 87 | 3 | 15 | 2050 | KS | 001 | 5 | 3732 | 9448 | 3803 | 9342 | 62 | 180 | 2 | 8 | 7 | 3 | 3 | 4 | 59.7 | 61- | 21.38 |
| 87 | 6 | 2 | 2045 | KS | 002 | 2 | 3719 | 9439 | 3721 | 9430 | 8 | 120 | 0 | 0 | 4 | 3 | 3 | 3 | 74.7 | 7- | 1.94 |

before year began event occurred within a 2 degree square centered on central point

Tornadoes within 125 NM of OURLINGTON, MS

Path length scale (mi)

0 1 2 3 4 5 MSG SUM

0: 196 33 12 7 0 0 110 358
 1: 155 117 76 27 2 0 112 489
 2: 43 77 75 43 12 0 67 317
 3: 4 12 30 24 9 2 2 83
 4: 0 0 6 10 4 0 0 20
 5: 0 0 0 2 2 0 0 4
 MSG: 9 9 12 0 0 0 110 140
 SUM: 407 248 211 113 29 2 401 1411

F
 Scale

Path width scale (mi)

0 1 2 3 4 5 MSG SUM

0: 153 153 23 6 0 0 23 358
 1: 81 234 84 53 8 0 29 489
 2: 12 113 95 68 5 1 23 317
 3: 0 13 30 28 11 1 0 83
 4: 0 0 3 10 7 0 0 20
 5: 0 0 0 1 3 0 0 4
 MSG: 6 65 9 4 1 0 55 140
 SUM: 252 578 244 170 35 2 130 1411

F
 Scale

Path length scale (mi)

0 1 2 3 4 5 MSG SUM

0: 194 131 60 20 2 0 0 407
 1: 14 123 59 47 5 0 0 248
 2: 7 73 60 54 12 1 4 211
 3: 2 20 45 34 10 1 0 113
 4: 0 5 7 11 6 0 0 29
 5: 0 0 1 1 0 0 0 2
 MSG: 34 226 12 3 0 0 126 401
 SUM: 252 578 244 170 35 2 130 1411

Path
 Width
 Scale

area scale (log10(area)+5)

1 2 3 4 5 6 7 8 9 10

0: 81 69 42 21 0 0 0 0 0 0
 1: 12 81 114 90 19 0 0 0 0 0
 2: 1 11 62 98 36 3 0 0 0 0
 3: 0 0 6 28 29 6 0 0 0 0
 4: 0 0 0 0 13 5 0 0 0 0
 5: 0 0 0 0 1 3 0 0 0 0

F
 Scale

National Severe Storms Forecast Center

Kansas City MO 64106

38.23 95.68

Frequency Tables for Tornadoes within 125 NM of BURLINGTON, KS

Distribution by month and date

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | SUM |
|-----|---|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| JAN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | |
| FEB | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| MAR | 0 | 2 | 1 | 2 | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 4 | 3 | 4 | 20 | 2 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 15 | 0 | 1 | 2 | 1 | 5 | 99 |
| APR | 0 | 18 | 7 | 7 | 5 | 1 | 17 | 0 | 3 | 5 | 2 | 10 | 12 | 0 | 2 | 16 | 6 | 0 | 13 | 24 | 12 | 23 | 5 | 5 | 4 | 21 | 13 | 7 | 24 | 12 | 274 | |
| MAY | 7 | 5 | 0 | 21 | 14 | 5 | 14 | 12 | 18 | 9 | 27 | 7 | 8 | 7 | 16 | 16 | 12 | 19 | 16 | 30 | 3 | 7 | 18 | 12 | 14 | 29 | 28 | 14 | 12 | 17 | 30 | 447 |
| JUN | 5 | 7 | 4 | 12 | 6 | 3 | 12 | 32 | 6 | 9 | 18 | 14 | 10 | 8 | 10 | 2 | 8 | 9 | 10 | 3 | 21 | 17 | 3 | 6 | 2 | 7 | 6 | 1 | 9 | 3 | 263 | |
| JUL | 5 | 4 | 1 | 2 | 7 | 5 | 4 | 3 | 6 | 0 | 7 | 2 | 3 | 0 | 3 | 0 | 1 | 2 | 2 | 4 | 3 | 8 | 2 | 1 | 0 | 2 | 1 | 1 | 2 | 0 | 1 | 82 |
| AUG | 0 | 3 | 4 | 0 | 4 | 11 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 4 | 2 | 0 | 5 | 3 | 1 | 3 | 1 | 1 | 0 | 1 | 1 | 2 | 0 | 2 | 57 |
| SEP | 2 | 2 | 5 | 5 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 3 | 0 | 0 | 2 | 1 | 1 | 0 | 7 | 1 | 2 | 0 | 7 | 5 | 5 | 6 | 0 | 1 | 0 | 63 | |
| OCT | 0 | 2 | 0 | 2 | 3 | 1 | 0 | 2 | 0 | 0 | 2 | 7 | 0 | 1 | 1 | 0 | 0 | 3 | 0 | 1 | 3 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 0 | 3 | 37 |
| NOV | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 14 | 1 | 4 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | 0 | 3 | 0 | 43 | |
| DEC | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 22 |

Date of initial touchdown using Central Standard Time

ALLOCATION SR-BB-001 Rev 0

PAGE D30 OF

National Severe Storms Forecast Center
Kansas City MO 64106

38-23 95-68

Frequency Tables for Tornadoes within 125-MM of BURLINGTON, KS

Hourly Distribution - CST

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | PCT | Mean Time |
|-----|----|----|----|----|---|---|---|---|---|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|------|------|-----------|
| JAN | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0. | 1441 |
| FEB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 3 | 3 | 17 | 1. | 1912 |
| MAR | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 5 | 8 | 9 | 2 | 6 | 9 | 10 | 9 | 8 | 11 | 8 | 3 | 4 | 99 | 7. | 1725 |
| APR | 9 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 1 | 13 | 20 | 17 | 24 | 37 | 43 | 36 | 7 | 20 | 12 | 12 | 274 | 19. | 1812 |
| MAY | 7 | 5 | 10 | 4 | 3 | 2 | 2 | 2 | 2 | 0 | 0 | 4 | 7 | 20 | 27 | 34 | 48 | 59 | 58 | 62 | 26 | 32 | 23 | 10 | 447 | 32. | 1815 |
| JUN | 6 | 7 | 6 | 5 | 0 | 1 | 3 | 1 | 0 | 3 | 1 | 3 | 4 | 12 | 10 | 16 | 19 | 28 | 34 | 43 | 21 | 20 | 13 | 7 | 263 | 19. | 1846 |
| JUL | 2 | 4 | 2 | 1 | 1 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 4 | 1 | 5 | 9 | 11 | 13 | 6 | 7 | 4 | 1 | 4 | 1 | 82 | 6. | 1741 |
| AUG | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 4 | 9 | 16 | 9 | 5 | 1 | 2 | 0 | 1 | 37 | 4. | 1746 |
| SEP | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 1 | 3 | 5 | 6 | 7 | 8 | 8 | 5 | 3 | 1 | 2 | 2 | 63 | 4. | 1737 |
| OCT | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 6 | 2 | 6 | 4 | 4 | 0 | 1 | 1 | 37 | 3. | 1829 |
| NOV | 3 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 4 | 3 | 4 | 2 | 0 | 0 | 2 | 3 | 2 | 1 | 3 | 6 | 1 | 2 | 0 | 43 | 3. | 1651 |
| DEC | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 4 | 2 | 1 | 1 | 4 | 22 | 2. | 2103 |
| SUM | 32 | 29 | 33 | 14 | 5 | 9 | 5 | 9 | 9 | 10 | 14 | 23 | 30 | 61 | 75 | 100 | 138 | 178 | 176 | 177 | 87 | 86 | 64 | 47 | 1411 | 100. | 1815 |

PCT 2. 2. 2. 1. 0. 1. 0. 1. 1. 1. 1. 1. 2. 2. 4. 5. 7. 10. 13. 12. 13. 6. 6. 5. 3. 100.

Hour of initial touchdown in Central Standard Time

CALCULATION SR-66-001 R-10

PAGE D 31 OF

Tornadoes within 125. NM JRLINGTON, KS

Following for global area within 125. NM radius of 38.23 95.68

The average F-scale is 1.16 which corresponds to 79. mph.
 The average PL-scale is 1.12376; The average PL type path length is 3.258; True average length is 5.197
 The average PW-scale is 1.34758; The average PW type path width is .035; True average width is .080
 The average area using average PL & PW computed by $10. \times (1.5 \times (pl + pw) - 3.3)$ is .017
 The summation of the individual areas computed from PL & PW 260.55 divided by 1006 yields average area of .259
 The average area scale is 3.69845; The average area scale type area is .050
 The average length times the average width is .414
 True average length = 5.20
 True average width = .080
 True average area = .892

| | | | | | | |
|-----------------------------|---------------|-----------|-------------------------|----------|----------|------------|
| | Probability = | .2923E-03 | Mean Return Interval is | 3420.97 | | |
| For winds exceeding 40 mph | prob = | .2923E-03 | Mean Return Interval is | 3420.97 | based on | 811 events |
| For winds exceeding 73 mph | prob = | .2901E-03 | Mean Return Interval is | 3447.35 | based on | 618 events |
| For winds exceeding 113 mph | prob = | .2578E-03 | Mean Return Interval is | 3878.50 | based on | 702 events |
| For winds exceeding 158 mph | prob = | .1826E-03 | Mean Return Interval is | 5475.83 | based on | 91 events |
| For winds exceeding 207 mph | prob = | .9422E-04 | Mean Return Interval is | 10613.76 | based on | 22 events |
| For winds exceeding 261 mph | prob = | .2089E-04 | Mean Return Interval is | 47878.09 | based on | 4 events |

| | | | | | | |
|----------------------|--------|--------|--------|-------|-------|-------|
| | F-0 | F-1 | F-2 | F-3 | F-4 | F-5 |
| Average PL length | .45 | .94 | 2.02 | 4.71 | 8.91 | 17.78 |
| Average PW width | .01 | .02 | .03 | .06 | .13 | .24 |
| Average PL & PW area | .01 | .09 | .29 | 1.17 | 1.62 | 4.67 |
| Average based on # | 247.00 | 377.00 | 247.00 | 81.00 | 20.00 | 4.00 |
| Average path length | 1.11 | 2.85 | 6.82 | 15.04 | 25.71 | 39.92 |
| Average path width | .02 | .06 | .09 | .19 | .36 | .35 |
| Average true area | .03 | .25 | .88 | 3.17 | 10.08 | 12.92 |
| Average based on # | 193.00 | 316.00 | 211.00 | 69.00 | 18.00 | 4.00 |

The following is for local area (two degrees square centered on latitude 38.23 longitude 95.68)

True average length = 6.96
 True average width = .104
 True average area = 1.504

| | | | | | | |
|-----------------------------|---------------|-----------|-------------------------|----------|----------|------------|
| | Probability = | .4022E-03 | Mean Return Interval is | 2486.17 | | |
| For winds exceeding 40 mph | prob = | .4022E-03 | Mean Return Interval is | 2486.17 | based on | 153 events |
| For winds exceeding 73 mph | prob = | .4004E-03 | Mean Return Interval is | 2497.80 | based on | 126 events |
| For winds exceeding 113 mph | prob = | .3613E-03 | Mean Return Interval is | 2767.72 | based on | 70 events |
| For winds exceeding 158 mph | prob = | .2609E-03 | Mean Return Interval is | 3832.98 | based on | 21 events |
| For winds exceeding 207 mph | prob = | .1519E-03 | Mean Return Interval is | 6583.79 | based on | 8 events |
| For winds exceeding 261 mph | prob = | .4902E-04 | Mean Return Interval is | 20401.78 | based on | 2 events |

of

Tornado plots within 125. NM of BURLINGTON, KS

Total 1411

Total may differ from path length & path width
matrix because not all events have Pl & PW scale recorded

36.23 95.68

CALCULATION PACKAGE NO. SR-88-001 Rev 0

PAGE D34

OF

4.5 Effects of Loss of Ventilation

The purpose of this evaluation is to determine the average steady state temperature in areas containing equipment necessary to achieve and maintain safe shutdown during a station blackout.

There are six heating ventilation and air conditioning (HVAC) systems at WCGS. They are (Section 9.4, Ref. 4)

- o Control Building HVAC
- o Fuel Building HVAC
- o Auxiliary Building
- o Turbine Building HVAC
- o Radwaste Building HVAC
- o Containment HVAC

The turbine and radwaste building HVAC systems serve no safety related functions or equipment (pg. 9.4-47 and 9.4-56, Ref. 4). Safety related equipment in the containment is designed to withstand a loss of coolant accident event which far exceeds containment conditions during a station blackout (pg. 7-18, Ref. 3). The fuel building contains no safety related equipment for the reactor.

Hence, loss of ventilation to the two remaining buildings, the control building and auxiliary building, are addressed below.

Control Building

Loss of control building HVAC will not adversely affect control room habitability as explained in NUMARC 87-00 (pg. 2-13, Ref. 3), for the coping duration of four hours.

The NUMARC conclusion is based on supporting data that the control room complex steady state air temperature will not exceed 120°F.

NUMARC 87-00 also states that the control room complex instrumentation indications and associated logic cabinets which the operator relies upon to cope with a station blackout will remain below 120°F provided cabinet doors are opened within 30 minutes following the station blackout event.

The cabinet doors are opened to dissipate heat generated by operating equipment during the four hour coping period. The cabinets which require that their doors be opened meet the following set of criteria,

- (1) Contain safety related equipment required to maintain decay heat removal during the station blackout, and
- (2) Generate appreciable heat during the station blackout, and
- (3) Would have enhanced equipment cooling if the cabinet door is opened.

For WCGS, only safety related equipment is relied upon to cope with a station blackout for four hours. Table 3-11(B)-3 of the USAR listed all safety related cabinets, panels, control boards, and racks. Of the safety related "cabinets" listed, the majority can be excluded from further consideration because they are:

- (1) Light and control switchboards not generating appreciable heat, or
- (2) Relays and terminal blocks not generating appreciable heat, or
- (3) Equipment and instrumentation not required for maintaining decay heat removal.

(Instrumentation required to maintain decay heat removal is listed in Table 7.5-4 and Table 7.5-5 of the USAR. The equipment required are the turbine-driven auxiliary feedwater pump and steam generator relief valves.)

The remaining cabinets are listed in Table 4-5. Table 4-5 also includes the NSSS and BOP demultiplexers, which are not safety related or required instrumentation to maintain safe shutdown. They are included per WCNOC request.

All the equipment identified in Table 4-5, are located in the control room cabinet area, room 3605. The cabinet area is shown in Figure 1.2-25 of the USAR. The large size of the room, ample air circulation and limited sources of heat generation, support for WCGS, the general NUMARC conclusion that the area steady state air temperature will not exceed 120°F.

Of the cabinets list in Table 4-5, Westinghouse recommends that the Westinghouse supplied equipment cabinet doors remain closed. This recommendation is based on equipment qualification tests with the cabinet doors closed, which show sufficient cabinet cooling for the coping duration; and the knowledge that opening the cabinet doors would eliminate the forced or natural circulating air flow inside the cabinets ("chimney effect"). The equipment qualification tests were performed at 120°F for two 12 hour cycles (Ref. 29). Loss of the "chimney effect" will reduce the air flow over the components and hence reduce the component cooling.

In summary, loss of control building ventilation can be tolerated for the four hour coping duration. The action required is that certain vital control cabinet doors should be opened within 30 minutes.

Turbine-Driven Auxiliary Feedwater Pump Room

Loss of auxiliary building ventilation will only have an adverse impact on locations where a large heat source is present during the station blackout and where decay heat removal equipment is present. The only location subject to these conditions is the turbine-driven auxiliary feedwater pump room (room number 1331). The following is a calculation of room 1331 ambient steady

state temperature during a station blackout. It is shown that the room air temperature will stay below the 150°F turbine-pump design specifications, provided actions are taken to open doorways to enhance air circulation.

The calculations below follow the NUMARC 87-00 guidelines except where noted.

Room 1331 Geometry

The auxiliary turbine room geometry is shown in Figure 4-2. The room walls are assumed to be 12 inches thick and the ceiling 14 inches thick. The room dimensions are approximately 16 by 28.75 by 24.75 feet. The total wall and ceiling surface area is

$$\begin{aligned} A_w &= 2(24.75)(28.75 + 16) + (28.75)(16) \\ &= 2,675 \text{ ft}^2 = 248 \text{ m}^2 \end{aligned}$$

Room 1331 has one door of width 4.25 ft and height 7.25 ft (Ref. 18 and 19).

The auxiliary turbine room 1331 ambient air temperature is nominally 50°F with a maximum of 113°F (Table 3-11(B)-1, Ref. 4). The maximum air temperature shall be used as the initial air temperature in the calculation. The initial wall temperature also will be assumed at 113°F.

Room 1331 Heat Sources

The sources of heat in room 1331 are (Table 3.6-4, Sheet 37, Ref. 4),

- o Auxiliary Feedwater Turbine
- o Auxiliary Feedwater Pump
- o Steam Line to the Turbine (91-DBC-4")
- o Steam Line from the Turbine (048-HBC-10")
- o Condensate Recovery Tank Line Vent (078-HBD-4")

The heat generated by the turbine is determined by using the formula developed in NUMARC 87-00 (pg. 7-20, Ref. 3) which approximates the turbine as a sphere:

$$Q = 0.1(2 + 37.0(T_s - T_{air})^{1/4}D^{3/4})D(T_s - T_{air}) + 1.4 \times 10^{-7}(T_s^4 - T_{air}^4)$$

where

Q = The heat generation rate of the turbine in watts

D = The equivalent diameter of the turbine in meters

T_s = The surface temperature of the turbine in °K

T_{air} = The air temperature of the room at station blackout onset in °K

The turbine surface temperature is assumed to be the maximum operating temperature of the steam, 565°F (569°K) (Ref. 20). The effect of insulation on the turbine, which reduces the surface temperature, is neglected. The initial air temperature is 113°F (318°K).

The equivalent diameter of the turbine is estimated from its weight. The turbine weight is 3,000 lbm (Ref. 20). The density of steel is 488 lbm/ft³ (Ref. 21). The turbine solid volume is 3000/488 = 6.14 ft³. Estimating the internal air volume as 2 ft³ gives a net turbine volume of 8.14 ft³. The equivalent spherical diameter is

$$D = (6V/\pi)^{1/3} = (6(8.14)/\pi)^{1/3}$$

$$D = 2.50 \text{ ft} = 0.761 \text{ meter}$$

Now the turbine heat generation can be calculated from the above formula.

$$Q = 0.1 [2 + 37.0 (569-318)^{1/4} (0.761)^{3/4}] (0.761) (569-318) \\ + 1.4 \times 10^{-7} (0.761)^2 [(569)^4 - (318)^4]$$

$$Q = 2,330 + 7,669 = 9,999 \text{ watt (34,100 Btu/hr)}$$

This is a very conservative calculation, because

- o The insulation will reduce the surface temperature and hence both the radiation and convection terms in the formula.
- o The steam temperature will most likely be less than 565°F. Depressurization of the steam generators, called for in the procedures (Appendix B), will reduce the inlet steam temperature below 565°F.

The turbine driven pump is passing condensate at a maximum temperature of 95°F (Ref. 20). This temperature is below the air temperature of 113°F. Hence, the pump will not be a heat source in the room. The cooling effect of the pump on the room is neglected.

The heat generated by the three high energy pipe lines in the room can be calculated several ways. First a calculation is done using the NUMARC formula, then the piping design specifications are used to show that the NUMARC formula overpredicts the heat input. The piping design specifications are used in the final evaluation.

The NUMARC formula for heat generation from pipes is (pg. 7-19, Ref. 4).

$$Q = \{0.1[0.4 + 15.7(T_s - T_{air})^{1/6} D^{1/2} \\ + 170.3(T_s - T_{air})^{1/3} D](T_s - T_{air}) + 1.4 \times 10^{-7} \epsilon (T_s^4 - T_w^4)\} L$$

Where

Q = The heat generation rate of the pipe in watts

D = The diameter of the pipe in meters

T_s = The surface temperature of the pipe in °K

T_{air} = The air temperature of the room at station blackout onset in °K

L = The length of the pipe in meters

T_w = The surface temperature of the wall in °K

The lengths of piping in room 1331 are obtained from isometric drawings Figure 3.6-1 Sheet 46 and Sheet 49 of the USAR (Ref. 4).

for 91-DBC-4"

$L = (5 + 5 + 11.25 + 8.65 + 14.44 + 3 + 8.74 + 4) \text{ ft}$

$L = 60.1 \text{ ft} = 18.3 \text{ meter}$

for 048 - HBC - 10"

$L = (4 + 6.92 + 17.6 + 2 (1.75) + 2 (9.18)) \text{ ft}$

$L = 50.4 \text{ ft} = 15.4 \text{ meter}$

•
for 078- HBD - 4"

$L = (23.5 + 3 + 10.5) \text{ ft}$

$L = 37 \text{ ft} = 11.3 \text{ meter}$

The pipe nominal inside and outside diameters obtained from Crane (Ref. 22), are given in Table 4-6.

The piping insulation and fluid temperature characteristics from Appendix D of Ref. 23, are also given in Table 4-6. The total outside diameter is calculated from

$$\begin{aligned} D_I &= D_p + 2(t_I) \\ &= 4.5 + 2(2.5) \\ &= 9.5 \text{ inch} = 0.241 \text{ meter} \end{aligned}$$

The insulated surface temperature of the pipe can be calculated for the initial room conditions by a conduction heat balance through the pipe (pg. 100, Ref. 21)

$$Q = \frac{(T_F - T_{final}^*)}{\frac{1}{\pi D_I L h} + \frac{\ln(D_I/D_{PO})}{2\pi L k_I} + \frac{\ln(D_{PO}/D_{PI})}{2\pi L k_P}}$$

where the notation is defined in Table 4-6. The final steady state air temperature (T_{final}^*) is assumed to be 150°F. This assumption is confirmed later when T_{final} is actually calculated. The pipe and insulation thermal conductivities are obtained from Ref. 21 and Ref. 23. The natural convection heat transfer coefficient is estimated from the simplified correlation for air (pg. 206, Ref. 21).

$$h = 0.25 [(T_S - T_{final}^*)/D_I]^{1/4} \text{ Btu/hr ft}^2\text{°F}$$

Finally the surface temperature of the insulation is

$$T_S = T_{final}^* + Q/\pi D_I L h$$

Solving iteratively for T_s gives the initial surface temperatures in Table 4-6 and the heat generation in Table 4-7.

Now the steady state heat generation from the pipes can be calculated using the formula developed by NUMARC. The wall temperature is equal to the initial air temperature, hence all the variables are given in Table 4-6. The calculation is

$$Q = (0.1 [0.4 + 15.7 (370-318)^{1/6} (0.241)^{1/2} \\ + 170.3 [(370-318)^{1/3} (0.241)] (370-318) \\ + 1.4 \times 10^{-7} (0.241) [(370)^4 - (318)^4] (18.3)$$

$$Q = 21,300 \text{ watt} = 72,700 \text{ Btu/hr}$$

The resultant heat generations are summarized in Table 4-7. The NUMARC formula gives heat generation an order of magnitude greater than the steady state estimate.

A third estimate of the heat generation can be made by restricting the heat flow to below the design specification for the pipes. This value is 65 Btu/hr ft^2 at the insulation surface (Ref. 23). The total heat generation for nominal conditions is simply

$$Q = (65 \text{ Btu/hr ft}^2) \pi D_I L \\ = (65) (\pi) (9.5/12) (60.1) \\ = 9,720 \text{ Btu/hr} = 2,850 \text{ watt}$$

The design specification heat generations are also listed in Table 4-7.

The NUMARC calculations give values five to seven times higher than the design specifications. One factor contributing to conservative values using the NUMARC formula is treatment of radiative heat transfer as black body radiation. The "grey" insulation cladding the piping will significantly reduce radiative heat transfer from that predicted for a black body. Another factor is using the initial air temperature in calculating the convective heat transfer. As the room air temperature increases the convective heat transfer will decrease. The NUMARC formula conservatisms are appropriate in larger room applications, as shown in NUMARC 87-00. However, for WCGS it is conservative and more appropriate to use twice the insulation design specification in calculating the piping heat generation. The piping heat generation used in the room heat-up calculations are also shown in Table 4-7. (Note that the turbine heat generation estimate includes all the NUMARC formula conservatisms stated above.)

Room 1331 Air Temperature

The final steady state temperature of the room is determined by returning to the NUMARC methodology.

The final temperature with the door remaining closed, is (pg. 7-15, Ref. 3)

$$T_{\text{final}} = T_w + (Q_T/A_w)^{3/4}$$

The final temperature with the door passage open, is calculated from (pg. 7-17, Ref. 3).

$$T_{\text{final}} = 4 + T_w + Q_T^{3/4} / [A_w^{3/4} + 16.18 F^{0.8653}]$$

where

T_{final} = The final steady state air temperature °K

T_w = Wall temperature in °K

Q_T = Total heat generation in Watt

A_w = Wall and ceiling surface area in m^2

F = Door passage factor $H^{3/2} W$ in $m^{5/2}$

H = Door height in meters

W = Door width in meters

The total heat generation is the sum of the heat generated by the turbine and three pipes

$$\begin{aligned} Q_T &= 1,999 + 5,700 + 6,920 + 2,400 \\ &= 25,020 \text{ watts} \end{aligned}$$

Door passage factor is

$$\begin{aligned} F &= [(7.25 \text{ ft})(0.3048 \text{ m/ft})]^{3/2} (4.25 \text{ ft})(0.3048 \text{ m/ft}) \\ &= 4.255 \text{ m}^{5/2} \end{aligned}$$

Again, the wall temperature is assumed equal to the initial air temperature, 113°F (318°K).

The final temperature with the door closed is

$$\begin{aligned} T_{\text{final}} &= 318 + (25,020/248)^{3/4} \\ &= 350 \text{ °K (170°F)} \end{aligned}$$

The final temperature with the door passages open is

$$\begin{aligned} T_{\text{final}} &= 4 + 318 + (25,020)^{3/4} / [(245)^{3/4} + 16.18 (4.2555)^{0.8653}] \\ &= 339 \text{ °K (150°F)} \end{aligned}$$

The wall area in this calculation was reduced by 3 square meters to account for the wall area occupied by the opened door.

The above open door formula is valid since the total heat generation is between 24,000 and 100,000 watts, and the initial to final temperature difference is 21°C, which is between 0°C and 50°C (pg. E-12, Ref. 3).

It should be noted that the above formula with the door open assumes the air temperature outside the door is constant at 113°F. The room outside the door is a corridor to the turbine building, feed pump valve room (1327), and two motor auxiliary feedwater pump rooms (1325 and 1326). Opening the doors to these four rooms will be required to ensure that the corridor remains below 113°F. The maximum temperature of the adjacent rooms is 104°F (Table 3.11(B)-1, Ref. 4), 9°F below the assumed corridor temperature of 113°F. Hence with all corridor doors open, the assumption of constant 113°F temperature air outside room 1331 is conservative.

The final air temperatures for room 1331 are summarized in Table 4-8. For the auxiliary feedwater pump to operate, the design specifications (Ref. 20) require a temperature of less than 150°F. NUMARC reviewed equipment operability (Appendix F of Ref. 3) and determined that a turbine generator with electronic governors can operate in environments up to 160°F.

The calculated room air temperature is 170°F with the door closed and 150°F with all corridor doors open. An additional reference is a 48 hour test of the turbine-driven pump without room ventilation, and the door closed, starting at nominal ambient conditions. This test shows the room temperature to reach 142°F (Table 3.11(B)-1 of Ref. 4 and Ref. 25).

In summary, the turbine driven-auxiliary feedwater pump will be operable following a loss of ventilation provided all doors in the adjacent corridor are opened.

TABLE 4-5

Potential Cabinets Requiring Open Door
During A Station Blackout

| <u>Description</u> | <u>Component Number</u> | <u>Room Number</u> | <u>Spec. Number</u> |
|--|--|--------------------|---------------------|
| BOP Instrument Racks | RP053AA, RP053AB, RP053AC RP053BA, RP053BB, RP053BC | 3605 | Ref. 28 J-110 |
| RVLIS Equipment | RP068, SB078, SB079 | 3605 | Ref. 29 ESE-51 |
| Subcooling Monitor | RP081A, RP081B | 3605 | Ref. 29 ESE-46A |
| ESFAS Cabinets | SA036A, SA036B, SA036C SA036D, SA036E | 3605 | Ref. 28 J-104 |
| Solid State Protection System* | SB029A through D SB032A through D | 3605 | Ref. 29 ESE-16 |
| Process Protection Cabinets* | SB037, SB038, SB041, SB042 | 3605 | Ref. 29 ESE-13 |
| BOP Demultiplexer for Control Board Annunciators | RK045A, RK045B, RK045C | 3605 | Ref. 28 J-108 |
| Westinghouse Demultiplexer* | SB046 | 3605 | Ref. 29 ESE-16 |
| Westinghouse Nuclear Instrumentation NIS* | SE054A through D | 3605 | Ref. 29 ESE-10 |

* Westinghouse Supplied Cabinets

TABLE 4-6

Room 1331 Piping Data

| | <u>Units</u> | <u>91-DBC-4"</u> | <u>048-HBC-10"</u> | <u>078-HBD-4"</u> |
|------------------------------------|---------------------------|------------------|--------------------|-------------------|
| Pipe Inside Diameter (D_{PI}) | inch | 4.0 | 10.0 | 4.0 |
| Pipe Outside Diameter (D_{PO}) | inch | 4.5 | 10.75 | 4.5 |
| Insulation Thickness (t_I) | inch | 2.5 | 1.5 | 1.0 |
| Insulation Diameter (D_I) | inch(m) | 9.5(0.241) | 13.75 (0.349) | 6.5 (0.165) |
| Pipe Length (L) | ft(m) | 60.1(18.3) | 50.4(15.4) | 37(11.3) |
| Fluid Temperature (T_F) | °F | 565 | 260 | 212 |
| Air Temperature (T_{air}) | °F(°K) | 113(318) | 113(318) | 113(318) |
| Assumed final air | | | | |
| Temperature (T_{final}) | °F | 150 | 150 | 150 |
| Heat Transfer Coef. (h) | Btu/hr/ft ² °F | 1.06 | 0.79 | 0.87 |
| Insulation Conductivity (k_I) | Btu/hr/ft°F | 0.0333 | 0.0333 | 0.0333 |
| Pipe Conductivity (k_P) | Btu/hr/ft°F | 25 | 25 | 25 |
| Surface Temperature (T_S) | °F(°K) | 206(370) | 182(356) | 172(351) |

TABLE 4-7

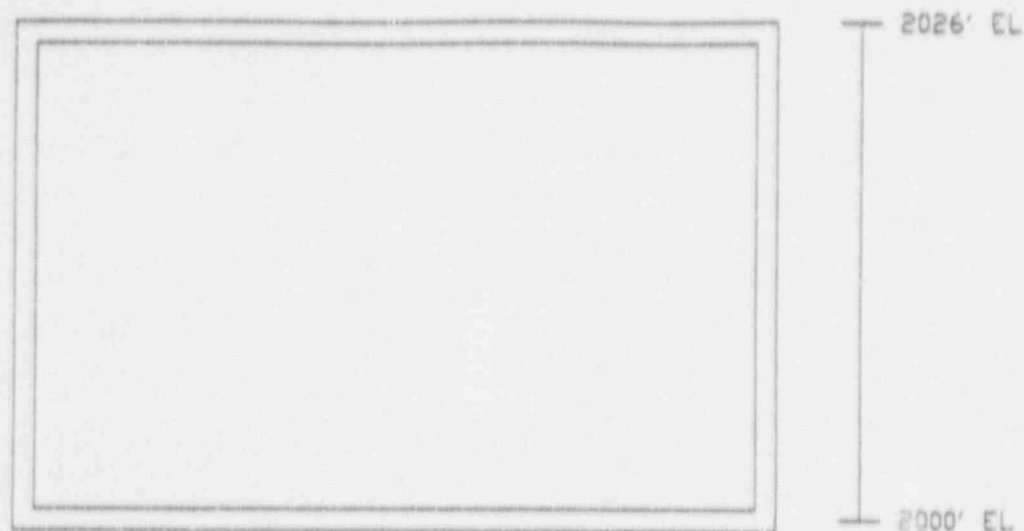
Piping Heat Generation In Room 1331

| | <u>Units</u> | <u>91-DBC-4"</u> | <u>048-HBC-10"</u> | <u>078-HRD-4"</u> |
|--|--------------|------------------|--------------------|-------------------|
| Nominal Steady State | Btu/hr(watt) | 6,050(1772) | 3,345(980) | 852(250) |
| NUMARC Formula | Btu/hr(watt) | 72,700(21,300) | 58,400(17,100) | 17,400(5,090) |
| Design Specifications | Btu/hr(watt) | 9,750(2,850) | 11,800(3,460) | 4,090(1,200) |
| Values used in heatup calculation (2 times Design Spec.) | Btu/hr(watt) | 19,500(5,700) | 23,600(6,920) | 8,180(2,400) |

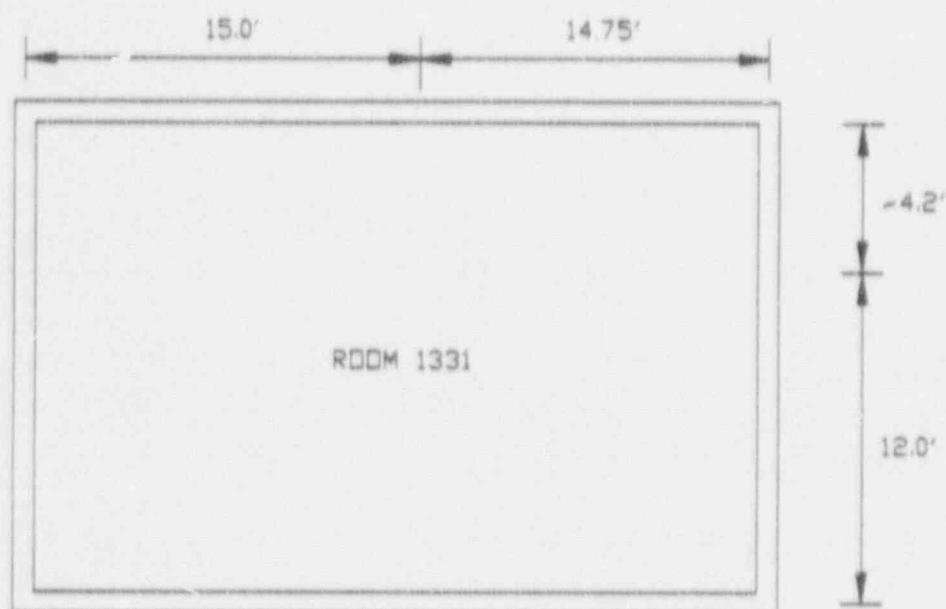
TABLE 4-8

Room 1331 Maximum Air Temperature

| <u>Requirement</u> | <u>Temperature</u> |
|--|--------------------|
| Turbine design specification (Ref. 20) | 150°F |
| Turbine with electronic governor equipment operability (Ref. 3) | 160°F |
| <u>Calculated</u> | |
| NUMARC formula with door closed | 170°F |
| NUMARC formula with doors open | 150°F |



SIDE VIEW



TOP VIEW

REFERENCES: FIGURE 1.2-11, 1.2-16, 3.6-1(46), 3.6-1(49)
OF USAR (REF. 4)

FIGURE 4-2 AUXILIARY TURBINE-DRIVEN FEEDWATER PUMP ROOM
DIMENSIONS (ROOM 1331)

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