

WOLF CREEK GENERATING STATION, UNIT NO. 1
ENVIRONMENTAL REPORT OPERATING LICENSE STAGE

REVISION 4
INSTRUCTIONS FOR INSERTING REVISION 4

Remove and insert the pages, tables, figures, and tabs listed below. Dashes (--) in the remove or insert column of the instructions indicate no action required. The Revision 4 tab, transmittal letter, and these instructions should be placed at the end of Revision 3 Insertion Instructions.

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NRC Q & R

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REMOVE

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REVISION 4

--

Revision 4 tab (directly
behind Revision 3 tab)

--

Place transmittal letter and
these instructions behind
Revision 4 tab

CHAPTER 1.0

PURPOSE OF THE FACILITY

The Nuclear Regulatory Commission has amended 10 CFR 51, Licensing and Regulatory Policy and Procedures for Environmental Protection," effective April 26, 1982, to provide that need for power issues will not be considered in ongoing and future operating license proceedings for nuclear power plants unless a showing of "special circumstances" is made under 10 CFR Section 2.758 or the Commission otherwise so requires (47 FR 12940, March 26, 1982). Need for power issues need not be addressed by operating applicants in environmental reports to the NRC, nor by the staff in environmental impact statements prepared in connection with operating license applications. (See 10 CFR 51.21, 51.23(e) and 51.53(c).)

Accordingly, this Chapter's information is no longer required and is deleted.

TABLE 2.1-19 (continued)

Sheet 5 of 5

Application Number	Location of Diversion (a)	Map Key (b)	Approximate River Mile (c)	Owner	Source	Authorized Maximum Diversion Rate (gpm)	Authorized Maximum Annual Quantity (acre-feet)	Principal Use
VR 628	SW/SE 28-31-21 NW/NE 33-31-21	36	200	Kansas Ordinance Plant	Neosho River	2225	869	Industrial
VR 627	SE 33-31-21	37	199	Kansas Gas & Electric	Neosho River	10,000	651	Industrial
3646	SE 33-31-21	37	199	Kansas Gas & Electric	Neosho River	2600	2080	Industrial
8432	SE 33-31-21	37	199	Kansas Gas & Electric	Neosho River	14890	2026	Industrial
19526	SE/SW/NE, SN/NE/SE, 4-32-21 NW 9-32-21	38 39	198 197	C. Sprague	Neosho River	1000	163	Irrigation
19498	NE/SE 9-32-21	39	197	C. Sprague	Neosho River	1000	198	Irrigation
30,155	NW/NE/SE 4-32-21 NE/SE/NE 9-32-21 NW/NW/NW 10-32-21	38 39 39	198 197 197	R. Spriggs	Neosho River	1500	360	Irrigation
29,746	SW/SW/SE 22-32-21 SW/NW/NE 27-32-21	40	193	J. Sprague	Neosho River	1500	285	Irrigation
29,952	NE/NE/NE 15-33-21 NW/SW/SW 10-33-21	41	187	F. Sinclair	Neosho River	1500	340	Irrigation
VR 623	16-33-21	41	187	City of Oswego	Neosho River	600	261	Municipal
25,003	SE/NE/NE 16-33-21	41	187	City of Oswego	Neosho River	800	635	Municipal
VR 624	35-34-21	42	170	City of Chetopa	Neosho River	300	190	Municipal

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TABLE 2.1-19(a)

ADDITIONAL WATER RIGHTS ON THE NEOSHO RIVER
BETWEEN JOHN REDMOND DAM AND WOLF CREEK

Application Number	Location of Diversion(a)	Map Key(b)	Approximate River Mile(c)	Owner	Source	Authorized Maximum Diversion Rate (gpm)	Authorized Maximum Annual Quantity (acre-feet)	Principal Use
14626	E ₁ /NW/NW 10-21-15	9	343	KG&E	Neosho River	24,685(d)	25,000	Industrial
19882	E ₁ /NW/NW 10-21-15	35	343	KG&E	Neosho River	76,300(d)	57,300	Industrial
3782	NW/NE/SE 9-21-15	47	343	Kansas Fish & Game Commission	Neosho River	12,000	150	Recreation
4259	SW/NE/NE 15-21-15	49	342	J. Decker	Neosho River	1,050	156	Irrigation
21453	NW 26-21-15	44	339	City of Burlington Coffey Co. RWD 2 and 3	Neosho River	1,000	767	Municipal
271	NE/SW/NW 26-21-15	50	339	W. Strawn	Neosho River	400	40	Irrigation
VS62	NW 26-21-15	41	338	City of Burlington	Neosho River	800	245	Municipal
2636	W/SW/SE 26-21-15	45	338	F. Robrahn	Neosho River	650	61	Irrigation
11078	NW/NW/SE 35-21-15	8	337	Nelson Motors, Inc.	Neosho River	1,500	350 125	Recreation Irrigation

^aLocations are specified by section division, section, township, and range.

^bSee PSAR Figure 2.4-8 for locations.

^cMouth of Wolf Creek is approximately at Neosho River Mile 334.5; John Redmond Dam at approximately River Mile 343.7.

^dWithdrawal of natural flows in Neosho River only at such times as minimum of at least 250 cfs remains immediately downstream from the intake.

Source: Kansas State Board of Agriculture, 1979, Open file material: Division of Water Resources, Topeka, Kansas (March).

TABLE 2.1-20

NEOSHO RIVER DISCHARGERS* IN KANSAS
DOWNSTREAM OF THE SITE

Facility	Design Discharge (mgd)	Actual Discharge (mgd)
City of LeRoy	0.10	0.04
City of Iola	1.63	0.6-0.7
City of Humboldt	0.325	0.25
City of Chetopa	0.2	0.2
City of Chanute	1.46	2.0

*National Pollution Discharge Elimination System (NPDES)

Source: Waldo, D.F., 1979, Water Pollution Control
Section, Kansas State Department of Health
and Environment, Topeka, Kansas, personal
communication.

TABLE 2.3-1

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MONTHLY AND ANNUAL AVERAGE AND
EXTREME TEMPERATURES FOR WICHITA, KANSAS^a

Month	Average Daily Maximum ^(b)	Average Daily Minimum ^(b)	Average ^(b)	Extreme Maximum ^(c,d)	Extreme Minimum ^(c,d)
January	41.4	21.2	31.3	75 (1967)	-12 (1962)
February	47.1	25.4	36.3	84 (1976)	-6 (1971)
March	55.0	32.1	43.6	89 (1956)	-2 (1960)
April	68.1	45.1	56.6	96 (1972)	15 (1975)
May	77.1	55.0	66.1	100 (1967)	31 (1976)
June	86.5	65.0	75.8	106 (1956)	43 (1969)
July	91.7	69.6	80.7	113 (1954)	51 (1975)
August	91.0	68.3	79.7	110 (1964)	48 (1967)
September	81.9	59.2	70.6	105 (1978)	35 (1967)
October	71.3	47.9	59.6	95 (1954)	21 (1976)
November	55.8	33.8	44.8	81 (1978)	1 (1975)
December	44.3	24.6	34.5	83 (1955)	-5 (1968)
Annual	67.6	45.6	56.6	113 (1954)	-12 (1962)

a In degrees Fahrenheit.

b Data Period 1941-1970.

c Data Period 1953-1978.

d Most recent in cases of multiple occurrence.

Source:

Environmental Data Service, 1978, Local climatological data, annual summary with comparative data, Wichita, Kansas: Environmental Science Services Administration, U.S. Department of Commerce, Silver Spring, Maryland.

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TABLE 2.3-2

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(ANNUAL)

Page 1 of 4

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: THREE YEARS COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/03/81. 13.14.50.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP	STAB CLASS	DELTA TEMP	STAB CLASS	WIND SPEED	WIND DIR	WIND SPEED	WIND DIR	REL HUMID
	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	60.00	60.00	10.00
HOUR	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	10.6	5.7	.9	F	1.2	F	4.0	SSE	7.3	S	70.2
2	10.2	5.6	.9	F	1.1	F	4.0	SSE	7.2	S	71.4
3	9.9	5.5	.9	F	1.1	E	3.9	SSE	7.2	S	72.4
4	9.5	5.4	.8	F	1.1	E	4.0	SSE	7.1	S	73.3
5	9.3	5.3	.8	F	1.1	E	4.0	SSE	7.1	S	74.1
6	9.1	5.3	.7	E	1.0	E	4.0	SSE	7.1	S	74.7
7	9.4	5.5	.3	E	.6	E	4.2	SSE	6.9	S	74.2
8	10.2	5.8	-.1	E	-.0	E	4.5	S	6.8	S	72.0
9	11.4	6.1	-.5	D	-.6	D	5.0	S	6.9	SSW	68.5
10	12.6	6.2	-.8	C	-.9	D	5.4	SSW	7.0	SSW	64.4
11	13.8	6.3	-.9	B	-1.0	D	5.6	SSW	7.1	SSW	60.5
12	14.8	6.3	-.9	B	-1.1	D	5.6	SSW	7.1	SSW	57.2
13	15.5	6.3	-.9	B	-1.1	D	5.7	SSW	7.2	SSW	54.7
14	16.1	6.2	-.9	B	-1.1	D	5.8	SSW	7.3	SSW	52.9
15	16.4	6.2	-.8	C	-1.1	D	5.7	SSW	7.3	SSW	51.8
16	16.6	6.1	-.7	D	-1.0	D	5.6	S	7.2	S	51.2
17	16.3	6.0	-.6	D	-.8	D	5.2	S	7.1	S	51.8
18	15.6	6.1	-.2	E	-.4	D	4.7	SSE	7.0	SSE	54.2
19	14.6	6.2	.2	E	.2	E	4.2	SE	7.0	SSE	57.6
20	13.6	6.2	.6	E	.6	E	4.1	SE	7.2	SSE	61.0
21	12.7	6.1	.8	F	.9	E	4.1	SE	7.4	SSE	63.7
22	12.1	6.0	.9	F	1.0	E	4.1	SE	7.4	SSE	65.9
23	11.6	5.9	.9	F	1.1	E	4.1	SE	7.5	SSE	67.4
24	11.0	5.8	.9	F	1.2	F	4.0	SSE	7.4	SSE	68.8
ABSOLUTE MAX	39.6	28.5					16.5		20.7		100.0
AVG DAILY MAX	17.5	8.7					7.3		10.3		79.7
MEAN	12.6	5.9					4.6	SSE	7.2	S	63.9
CLIMATIC MEAN	12.7	5.9	.1	E	.1	E	4.7		7.1		63.5
AVG DAILY MIN	7.9	3.0					2.1		4.0		47.2
ABSOLUTE MIN	-22.7	-27.0					0.0		0.0		11.7
STANDARD DEV	10.9	9.9					2.4		2.9		17.7
VALID OBS	25898	24750	24092	24092	24047	24047	25673	25615	24955	24817	24686
INVALID OBS	406	1554	2212	2212	2257	2257	631	689	1349	1487	1618
TOTAL OBS	26304	26304	26304	26304	26304	26304	26304	26304	26304	26304	26304
DATA RECOVERY	98.5	94.1	91.6	91.6	91.4	91.4	97.6	97.4	94.9	94.3	93.8

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TABLE 2.3-2 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(ANNUAL)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
 DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

DATA SOURCE: ON-SITE
 TABLE GENERATED: 11/04/81, 11.55.32

WOLF CREEK GENERATING STATION
 BURLINGTON, KANSAS
 KANSAS GAS AND ELECTRIC
 DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	11.3	7.1	.9	F	1.1	E	4.1	SSE	7.6	S	71.2
2	11.0	7.1	.9	F	1.1	E	4.1	SSE	7.5	S	72.4
3	10.6	7.0	.9	F	1.0	E	4.0	SSE	7.5	S	73.5
4	10.3	6.9	.9	F	1.0	E	4.1	SSE	7.4	S	74.5
5	10.1	6.9	.8	F	1.0	E	4.1	S	7.4	SSW	75.3
6	10.0	6.8	.7	E	.9	E	4.2	SSE	7.4	SSW	75.6
7	10.4	7.1	.3	E	.5	E	4.3	S	7.2	S	74.8
8	11.2	7.4	-.2	E	-.1	E	4.7	S	7.1	SSW	72.5
9	12.4	7.7	-.5	D	-.7	D	5.2	SSW	7.3	SSW	68.8
10	13.6	7.9	-.8	C	-1.0	D	5.5	SSW	7.3	SSW	64.7
11	14.7	8.0	-.8	C	-1.1	D	5.7	SSW	7.5	SSW	61.0
12	15.7	8.1	-.9	B	-1.1	C	5.7	SSW	7.3	SSW	57.8
13	16.4	8.1	-.9	B	-1.2	C	5.8	SSW	7.5	SSW	55.4
14	16.9	7.9	-.9	B	-1.2	C	5.8	SSW	7.5	SSW	53.9
15	17.3	7.9	-.8	C	-1.1	D	5.7	SSW	7.6	SSW	52.7
16	17.3	7.8	-.7	D	-1.0	D	5.5	S	7.5	SSW	52.6
17	16.9	7.8	-.5	D	-.7	D	5.1	S	7.4	S	53.5
18	16.2	7.8	-.1	E	-.3	E	4.5	SSE	7.3	S	55.8
19	15.2	7.8	.3	E	.2	E	4.1	SSE	7.5	SSE	59.3
20	14.2	7.8	.7	E	.6	E	4.1	SE	7.6	SSE	62.4
21	13.4	7.7	.9	F	.9	E	4.0	SE	7.7	SSE	64.9
22	12.8	7.5	.9	F	1.0	E	4.0	SSE	7.8	SSE	67.0
23	12.3	7.4	1.0	F	1.1	E	4.1	SSE	7.9	SSE	68.5
24	11.7	7.2	1.0	F	1.1	E	4.1	SSE	7.8	S	69.9
ABSOLUTE MAX	37.5	28.5					16.5		20.7		100.0
AVG DAILY MAX	18.3	10.3					7.5		10.8		80.9
MEAN	13.4	7.5					4.7	S	7.5	S	65.0
CLIMATIC MEAN	13.5	7.4	1	E	1	E	4.8		7.4		64.4
AVG DAILY MIN	8.8	4.6					2.0		4.0		48.0
ABSOLUTE MIN	-22.7	-27.0					0.0		0.0		16.4
STANDARD DEV	11.1	9.9					2.5		2.9		17.0
VALID OBS	8695	8305	7819	7819	8583	8583	8430	8393	8095	7986	8303
INVALID OBS	55	455	941	941	177	177	330	367	665	774	457
TOTAL OBS	8750	8760	8760	8760	8760	8760	8760	8760	8760	8760	8760
DATA RECOVERY	99.3	94.8	89.3	89.3	98.0	98.0	96.2	95.8	92.4	91.2	94.8

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TABLE 2.3-2 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(ANNUAL)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975DATA SOURCE: ON-SITE
TABLE GENERATED: 11/04/81. 13.19.37.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOUR	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	10.3	5.3	.8	F	1.1	E	4.1	SSE	7.1	S	71.2
2	10.0	5.3	.8	F	1.1	E	4.0	SSE	7.0	S	72.4
3	9.6	5.1	.7	E	1.1	E	4.0	SSE	6.9	S	73.2
4	9.3	5.0	.7	E	1.0	E	4.0	SSE	6.9	S	74.1
5	9.0	4.9	.7	E	1.1	E	4.0	SSE	6.8	S	75.0
6	8.9	5.0	.6	E	.9	E	4.0	SSE	6.7	S	75.4
7	9.4	5.2	.1	E	.4	E	4.2	SSE	6.6	S	74.7
8	10.2	5.5	-.4	D	-.2	E	4.6	S	6.4	S	72.5
9	11.4	5.8	-.7	D	-.7	D	5.2	S	6.6	S	68.8
10	12.5	5.8	-.9	B	-1.0	D	5.5	SSW	6.8	S	64.9
11	13.6	5.8	-1.0	A	-1.1	D	5.7	SSW	6.9	S	61.1
12	14.6	5.9	-1.0	A	-1.1	C	5.8	SSW	7.0	SSW	58.0
13	15.3	5.8	-1.0	A	-1.1	C	5.9	SSW	7.1	SSW	55.8
14	15.7	5.8	-1.0	A	-1.1	D	5.9	SSW	7.2	SSW	54.1
15	16.1	5.8	-.9	B	-1.1	D	5.8	SSW	7.1	SSW	52.9
16	16.2	5.7	-.9	B	-1.0	D	5.8	SSW	7.1	SSW	52.2
17	16.0	5.7	-.7	D	-.8	D	5.4	S	7.0	S	53.2
18	15.2	5.8	-.3	D	-.4	D	4.8	S	6.8	S	55.7
19	14.2	5.9	.1	E	.2	E	4.3	SSE	6.8	SSE	59.4
20	13.2	5.9	.5	E	.6	E	4.1	SE	7.0	SSE	62.8
21	12.4	5.8	.7	E	.9	E	4.2	SE	7.2	SSE	65.3
22	11.7	5.7	.7	E	1.0	E	4.2	SE	7.2	SSE	67.1
23	11.2	5.6	.8	F	1.0	E	4.3	SSE	7.3	SSE	68.6
24	10.8	5.4	.8	F	1.1	E	4.2	SSE	7.2	S	69.9
ABSOLUTE MAX	39.6	22.8					15.9		19.7		100.0
AVG DAILY MAX	17.0	8.3					7.4		10.2		80.3
MEAN	12.4	5.6	-.0	E	.1	E	4.8	S	6.9	S	64.9
CLIMATIC MEAN	12.4	5.5					4.8		7.0		64.4
AVG DAILY MIN	7.7	2.7					2.2		3.8		49.6
ABSOLUTE MIN	-15.9	-22.5					0.0		0.0		18.0
STANDARD DEV	10.7	9.2					2.4		2.9		18.2
VALID OBS	8756	8736	8700	8700	8506	8506	8574	8560	8375	8359	8732
INVALID OBS	4	24	60	60	254	254	186	200	385	401	23
TOTAL OBS	8760	8760	8760	8760	8760	8760	8760	8760	8760	8760	8760
DATA RECOVERY	100.0	99.7	99.3	99.3	97.1	97.1	97.9	97.7	95.6	95.4	99.7

WCGS-ER(OLS)

TABLE 2.3-2 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(ANNUAL)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
 DATA PERIOD: MARCH 5, 1979 THROUGH MARCH 4, 1980

DATA SOURCE: ON-SITE
 TABLE GENERATED: 11/04/81, 14.42.25.

WOLF CREEK GENERATING STATION
 BURLINGTON, KANSAS
 KANSAS GAS AND ELECTRIC
 DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB 10.00	DEW POINT 10.00	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	10.1	4.5	1.1	F	1.3	F	3.8	SE	7.2	SSE	68.0
2	9.8	4.5	1.0	F	1.3	F	3.8	SSE	7.1	SSE	69.2
3	9.4	4.4	1.0	F	1.3	F	3.8	SSE	7.1	SSE	70.2
4	9.0	4.2	1.0	F	1.3	F	3.8	SSE	7.1	S	71.1
5	8.7	4.1	.9	F	1.2	F	3.8	SSE	7.1	S	71.9
6	8.5	4.0	.9	F	1.2	F	3.8	SSE	7.0	S	72.8
7	8.5	4.1	.6	E	.9	E	3.9	SSE	6.9	S	73.0
8	9.1	4.3	.2	E	.3	E	4.3	S	6.8	S	71.0
9	10.2	4.7	-.3	D	-.4	D	4.7	S	6.7	S	67.7
10	11.7	4.9	-.6	D	-.8	D	5.1	SSW	6.8	SSW	63.5
11	13.0	4.9	-.7	D	-.9	D	5.4	SSW	7.0	SSW	59.3
12	14.2	5.0	-.8	C	-1.0	D	5.4	SSW	7.0	SSW	55.6
13	15.0	4.9	-.8	C	-1.0	D	5.5	SSW	7.1	SSW	52.7
14	15.6	4.7	-.8	C	-1.0	D	5.5	SSW	7.1	S	50.3
15	16.0	4.8	-.7	D	-1.0	D	5.6	S	7.1	S	49.4
16	16.3	4.6	-.6	D	-.9	D	5.5	S	7.2	S	48.4
17	16.1	4.6	-.5	D	-.8	D	5.2	SSE	7.0	SSE	48.6
18	15.4	4.7	-.2	E	-.5	D	4.7	SE	6.8	SE	50.8
19	14.5	4.8	.2	E	.1	E	4.2	SE	6.8	SE	53.8
20	13.3	4.9	.6	E	.6	E	4.0	ESE	7.0	SE	57.7
21	12.3	4.8	.8	F	1.0	E	4.0	ESE	7.3	SE	60.8
22	11.7	4.8	.9	F	1.1	F	4.0	ESE	7.3	SE	63.3
23	11.2	4.7	1.0	F	1.2	F	3.9	SE	7.2	SE	64.9
24	10.5	4.5	1.0	F	1.3	F	3.8	SE	7.2	SSE	66.5
ABSOLUTE MAX	34.1	22.5					14.8		18.8		100.0
AVG DAILY MAX	17.1	7.4					7.0		10.0		77.9
MEAN	12.1	4.6	.2	E	.2	E	4.5	SSE	7.0	SSE	61.7
CLIMATIC MEAN	12.1	4.6					4.6		7.1		61.4
AVG DAILY MIN	7.1	1.8					2.2		4.2		44.9
ABSOLUTE MIN	-18.5	-21.4					0.0		0.0		11.7
STANDARD DEV	10.9	10.3					2.4		2.9		17.8
VALID OBS	8447	7709	7573	7573	6958	6958	8669	8662	8485	8472	765
INVALID OBS	337	1075	1211	1211	1826	1826	115	122	299	312	1133
TOTAL OBS	8784	8784	8784	8784	8784	8784	8784	8784	8784	8784	8784
DATA RECOVERY	96.2	87.3	86.2	86.2	79.2	79.2	98.7	98.6	96.6	96.4	87.1

WCGS-ER(OLS)

TABLE 2.3-3

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL JANUARY COMBINED

DATA SOURCE: ON-SITE
TABLE GENERATED: 11/10/81. 15.02.03.

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7695-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOUR	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	-2.2	-5.7	.6	E	.8	E	3.7	NW	6.7	WNW	69.3
2	-2.3	-5.7	.6	E	.8	E	3.9	NW	6.9	NW	69.7
3	-2.4	-5.9	.5	E	.7	E	4.1	NNW	7.1	NW	70.3
4	-2.8	-6.0	.5	E	.6	E	4.2	NW	7.1	WNW	70.6
5	-3.0	-6.2	.4	E	.6	E	4.2	WNW	7.1	WNW	70.7
6	-3.2	-6.3	.4	E	.5	E	4.1	NW	7.1	NW	70.9
7	-3.3	-6.4	.4	E	.6	E	4.1	NNW	7.1	NW	70.8
8	-3.3	-6.3	.3	E	.5	E	4.2	NW	7.0	WNW	71.5
9	-3.0	-6.1	.1	E	.1	E	4.4	N	7.1	NW	71.7
10	-2.0	-5.3	-.5	D	-.5	D	4.9	NNW	7.0	WNW	70.2
11	-.9	-4.9	-.7	D	-.7	D	5.1	N	6.8	W	68.0
12	.4	-4.3	-.7	D	-.8	D	5.2	W	6.7	WSW	65.1
13	.8	-4.2	-.8	C	-.9	D	5.2	W	6.8	W	63.2
14	1.5	-4.4	-.7	D	-.9	D	5.3	WSW	6.8	WSW	61.7
15	1.9	-4.3	-.7	D	-.9	D	5.3	W	6.8	WSW	59.8
16	1.9	-4.5	-.6	D	-.8	D	5.2	W	6.8	WSW	59.4
17	1.6	-4.7	-.4	D	-.6	D	4.6	NW	6.7	SW	59.4
18	.8	-4.8	-.0	E	-.1	E	4.1	ENE	6.6	SSW	61.3
19	.2	-4.9	.3	E	.3	E	4.0	ENE	6.9	S	63.6
20	-.6	-5.1	.4	E	.5	E	4.1	NE	7.1	NW	65.2
21	-1.0	-5.2	.5	E	.6	E	4.1	ENE	7.3	W	66.1
22	-1.2	-5.4	.5	E	.7	E	3.9	NNE	7.1	W	67.4
23	-1.5	-5.6	.6	E	.9	E	3.8	NNW	7.2	W	67.6
24	-1.9	-5.7	.5	E	.8	E	3.8	W	6.9	WNW	68.2
ABSOLUTE MAX	16.6	10.3					13.8		18.1		94.3
AVG DAILY MAX	3.1	-2.0					7.0		10.1		78.6
MEAN	-1.1	-5.3	.1	E	.1	E	4.4	NW	6.9	WNW	66.7
CLIMATIC MEAN	-1.0	-5.5					4.4		6.7		65.9
AVG DAILY MIN	-5.1	-8.9					1.8		3.4		53.2
ABSOLUTE MIN	-22.7	-27.0					0.0		0.0		19.2
STANDARD DEV	7.1	6.3					2.2		2.9		15.9
VALID OBS	2201	2060	2173	2173	1641	1641	2037	2036	1974	1968	2031
INVALID OBS	31	172	59	59	591	591	195	196	258	264	201
TOTAL OBS	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
DATA RECOVERY	98.6	92.3	97.4	97.4	73.5	73.5	91.3	91.2	88.4	88.2	91.0

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TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL FEBRUARY COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/10/81. 15.33.48.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB 10.00	DEW POINT 10.00	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOUR	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	-1.2	-5.8	.5	E	.6	E	4.2	NNW	7.3	NNW	68.0
2	-1.4	-6.0	.5	E	.6	E	4.3	N	7.2	N	68.0
3	-1.7	-6.1	.5	E	.6	E	4.2	N	7.3	NNW	68.1
4	-2.0	-6.3	.5	E	.6	E	4.3	NNW	7.5	NW	68.2
5	-2.2	-6.5	.4	E	.6	E	4.4	NNW	7.5	NNW	68.5
6	-2.4	-6.6	.4	E	.5	E	4.4	NW	7.5	NNW	69.2
7	-2.5	-6.6	.3	E	.4	E	4.5	NW	7.2	NNW	69.4
8	-2.6	-6.6	.2	E	.3	E	4.4	NNW	7.0	NNW	70.1
9	-2.0	-6.1	-.2	E	-.3	E	4.9	NW	7.0	NNW	69.8
10	-1.0	-5.4	-.6	D	-.7	D	5.3	NNW	7.0	NNW	68.8
11	.1	-5.1	-.7	D	-1.0	D	5.5	WNW	7.0	NW	66.3
12	1.1	-4.7	-.8	C	-1.1	D	5.6	W	6.8	WNW	64.3
13	1.9	-4.3	-.8	C	-1.1	D	5.7	W	7.0	WNW	62.2
14	2.5	-4.3	-.8	C	-1.1	D	5.8	W	7.1	WNW	60.6
15	3.0	-4.0	-.7	D	-1.1	D	5.7	WNW	7.0	WNW	60.0
16	3.2	-4.0	-.7	D	-1.0	D	5.5	WNW	6.9	NW	59.2
17	3.1	-4.1	-.6	D	-.9	D	5.2	NW	6.9	NW	60.3
18	2.5	-4.3	-.3	D	-.5	D	4.7	NNW	6.8	NNW	61.6
19	1.6	-4.5	.1	E	.0	E	4.1	N	6.8	NNW	63.4
20	1.0	-4.7	.4	E	.3	E	4.1	N	6.9	NNW	65.0
21	.4	-5.0	.5	E	.5	E	4.3	NNW	7.3	NNW	66.1
22	-.1	-5.2	.5	E	.6	E	4.3	N	7.2	NNW	66.8
23	-.4	-5.4	.6	E	.7	E	4.4	N	7.4	NNW	67.2
24	-.7	-5.5	.6	E	.7	E	4.3	NW	7.4	N	67.7
ABSOLUTE MAX	19.3	5.7					16.1		18.6		98.7
AVG DAILY MAX	4.4	-2.0					7.6		10.6		77.7
MEAN	.0	-5.3	-.0	E	-.1	E	4.8	NW	7.1	NW	65.8
CLIMATIC MEAN	.1	-5.3					4.8		7.1		66.1
AVG DAILY MIN	-4.2	-8.6					2.1		3.6		54.4
ABSOLUTE MIN	-18.5	-21.3					0.0		0.0		16.4
STANDARD DEV	6.4	5.0					2.5		3.1		16.2
VALID OBS	2040	2004	2033	2033	2040	2040	1854	1852	1617	1616	2000
INVALID OBS	0	36	7	7	0	0	186	188	423	424	40
TOTAL OBS	2040	2040	2040	2040	2040	2040	2040	2040	2040	2040	2040
DATA RECOVERY	100.0	98.2	99.7	99.7	100.0	100.0	90.9	90.8	79.3	79.2	98.0

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL MARCH COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/10/81. 15.47.44.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP	STAB CLASS	DELTA TEMP	STAB CLASS	WIND SPEED	WIND DIR	WIND SPEED	WIND DIR	REL HUMID
	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	60.00	60.00	10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	4.5	-9	.5	E	.7	E	4.7	ESE	7.7	SSE	68.1
2	4.2	-9	.6	E	.8	E	4.8	ESE	7.8	SSE	69.2
3	3.9	-1.0	.5	E	.8	E	4.7	ESE	7.6	SSE	70.3
4	3.6	-1.0	.5	E	.8	E	4.7	ESE	7.8	SSE	71.6
5	3.4	-9	.5	E	.8	E	4.8	ESE	7.8	S	72.1
6	3.2	-1.0	.4	E	.7	E	5.0	ESE	7.8	SE	72.5
7	3.1	-1.1	.3	E	.5	E	4.9	SE	7.7	SSE	73.1
8	3.5	-9	-.1	E	.1	E	5.1	SE	7.4	SE	72.4
9	4.5	-5	-.6	D	-.6	D	5.7	S	7.6	SSE	70.2
10	5.6	-2	-.8	C	-.9	D	6.2	WSW	7.7	W	67.1
11	6.8	-2	-.9	B	-1.0	D	6.6	WSW	8.0	W	62.7
12	7.7	-1	-.9	B	-1.1	D	6.7	WSW	8.2	W	59.9
13	8.7	.1	-.9	B	-1.1	D	6.8	W	8.3	W	57.5
14	9.3	.3	-.9	B	-1.1	D	6.7	WSW	8.1	WSW	55.9
15	9.8	.4	-.9	B	-1.1	D	6.8	W	8.3	W	54.7
16	10.2	.6	-.8	B	-1.0	D	6.7	WSW	8.4	WSW	53.7
17	10.2	.5	-.7	D	-.9	D	6.5	WSW	8.2	SW	53.3
18	9.7	.4	-.5	D	-.6	D	5.7	WSW	7.8	SW	54.7
19	8.7	.4	-.1	E	-.1	E	4.8	NE	7.4	ENE	58.2
20	7.6	.3	.2	E	.2	E	4.8	E	7.6	ESE	61.9
21	6.8	.1	.3	E	.4	E	4.9	E	7.8	ESE	64.0
22	6.0	-.2	.4	E	.6	E	4.9	ENE	8.0	E	65.3
23	5.5	-.4	.5	E	.6	E	4.9	E	8.0	E	66.3
24	5.0	-.7	.5	E	.7	E	4.8	SE	7.9	SE	67.1
ABSOLUTE MAX	28.9	16.0					15.0		18.8		100.0
AVG DAILY MAX	11.4	3.5					8.6		11.4		79.7
MEAN	6.3	-.3					5.5	SSE	7.9	SSE	64.2
CLIMATIC MEAN	6.4	-.3	-.1	E	-.1	E	5.5		7.8		63.7
AVG DAILY MIN	-1.4	-4.0					2.4		4.2		47.7
ABSOLUTE MIN	-16.5	-20.0					0.0		.8		17.2
STANDARD DEV	8.0	7.2					2.8		3.3		16.7
VALID OBS	2019	1786	1669	1669	1669	1669	2218	2214	2165	2163	1786
INVALID OBS	213	446	563	563	563	563	14	18	67	69	446
TOTAL OBS	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
DATA RECOVERY	90.5	80.0	74.8	74.8	74.8	74.8	99.4	99.2	97.0	96.9	80.0

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL APRIL COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81. 10.37.57.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOUR	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	10.5	4.5	.8	F	1.1	E	5.0	SE	8.3	SSE	66.7
2	10.1	4.3	.7	E	1.0	E	4.9	SE	8.2	SSE	67.6
3	9.7	4.2	.7	E	1.0	E	5.0	SE	8.3	SSE	68.7
4	9.3	4.1	.7	E	1.1	E	4.9	SE	8.2	SSE	69.8
5	9.0	3.9	.7	F	1.0	E	5.0	SE	8.3	SSE	70.7
6	8.8	3.9	.6	E	.9	E	5.0	SSE	8.2	SSE	71.7
7	9.2	4.2	.2	E	.4	E	5.4	SE	8.2	SSE	71.4
8	10.3	4.5	-.5	D	-.4	D	6.2	SSE	8.3	SSE	67.7
9	11.6	4.8	-.7	D	-.9	D	6.7	S	8.2	SSE	63.1
10	13.0	4.8	-.9	B	-1.0	D	6.8	S	8.2	S	58.7
11	14.2	4.7	-.9	B	-1.1	D	7.1	SSW	8.6	SSW	54.3
12	14.9	4.7	-1.0	A	-1.1	D	7.1	SW	8.6	SW	52.0
13	15.7	4.6	-.9	B	-1.1	D	7.2	SW	8.7	SW	50.4
14	16.1	4.7	-.9	B	-1.1	D	7.2	SW	8.6	SSW	49.4
15	16.5	4.5	-.9	B	-1.1	D	7.3	SSW	8.9	SSW	48.1
16	16.6	4.6	-.8	C	-1.0	D	7.2	SSW	8.8	SSW	47.9
17	16.5	4.6	-.7	D	-.8	D	6.9	SSW	8.6	SSW	47.8
18	16.1	4.6	-.5	D	-.6	D	6.2	S	8.1	S	49.2
19	15.2	4.9	-.1	E	-.1	E	5.2	SE	7.6	SSE	52.3
20	14.0	5.0	.4	E	.4	E	4.8	SE	7.7	SE	56.3
21	13.1	5.0	.6	E	.7	E	4.9	ESE	8.1	SE	59.3
22	12.3	4.8	.7	E	.9	E	5.1	SE	8.3	SE	61.4
23	11.7	4.8	.8	F	1.0	E	5.1	SE	8.3	SE	63.8
24	11.1	4.7	.9	F	1.1	F	5.0	SE	8.2	SSE	65.6
ABSOLUTE MAX	28.0	19.2					16.2		20.7		97.9
AVG DAILY MAX	17.7	7.6					9.1		11.9		78.1
MEAN	12.7	4.6	-.0	E	.0	E	5.9	SSE	8.3	SSE	59.8
CLIMATIC MEAN	12.6	4.6					5.9		8.3		60.9
AVG DAILY MIN	7.4	1.6					2.8		4.7		43.6
ABSOLUTE MIN	-7.6	-11.8					.7		.6		19.3
STANDARD DEV	6.6	6.3					2.7		3.1		17.8
VALID OBS	2129	1995	2096	2096	2091	2091	2120	2120	2116	2116	1995
INVALID OBS	31	165	54	64	69	69	40	40	44	44	165
TOTAL OBS	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
DATA RECOVERY	98.6	92.4	97.0	97.0	96.8	96.8	98.1	98.1	98.0	98.0	92.4

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL MAY COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81 10.41.53WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	16.2	10.7	.9	F	1.2	F	4.4	SE	7.2	SSE	70.4
2	15.8	10.6	1.0	F	1.2	F	4.3	SE	7.0	SE	72.0
3	15.4	10.5	.9	F	1.2	F	4.2	SE	7.0	SE	73.2
4	15.0	10.3	.9	F	1.2	F	4.2	SE	7.0	SE	74.3
5	14.5	10.3	1.0	F	1.3	F	4.2	SE	7.0	SSE	75.9
6	14.4	10.3	.9	F	1.3	F	4.2	SE	7.0	SSE	76.7
7	15.0	10.7	.1	E	.4	E	4.4	SSE	6.8	SSE	75.9
8	16.3	11.3	-.6	D	-.5	D	5.0	SSE	6.4	SSE	72.5
9	17.7	11.6	-.8	C	-.9	D	5.8	S	7.0	SSE	68.4
10	18.8	11.5	-.8	C	-1.0	D	6.1	SSE	7.5	SSE	63.8
11	19.8	11.4	-.9	B	-1.1	D	6.2	SSE	7.6	SSE	59.9
12	20.7	11.2	-1.0	A	-1.2	C	6.3	SSE	7.6	SSE	56.1
13	21.4	11.1	-1.0	A	-1.2	C	6.4	SSE	7.7	SSE	53.6
14	21.9	11.0	-.9	B	-1.1	D	6.3	S	7.7	S	51.8
15	22.4	11.1	-.9	B	-1.1	D	6.2	SSE	7.4	SSE	50.4
16	22.6	11.1	-.8	C	-1.0	D	6.1	S	7.5	SSE	49.7
17	22.6	11.1	-.7	D	-.9	D	5.9	SSE	7.4	SSE	49.9
18	22.2	11.2	-.5	D	-.7	D	5.6	SE	7.3	SE	51.5
19	21.2	11.4	-.2	E	-.2	E	4.8	SE	6.9	SE	55.0
20	20.0	11.4	.3	E	.3	E	4.4	SE	7.0	SE	59.0
21	19.0	11.4	.6	E	.8	E	4.1	SE	6.9	SE	62.5
22	18.2	11.4	.8	F	1.0	E	4.3	ESE	7.2	SE	65.3
23	17.6	11.3	.9	F	1.1	E	4.3	SE	7.2	SE	67.3
24	16.9	11.1	.9	F	1.2	F	4.3	SE	7.4	SE	68.9
ABSOLUTE MAX	23.0	22.0					16.5		20.1		98.7
AVG DAILY MAX	23.4	13.8					8.0		10.6		81.2
MEAN	18.6	11.1		E	.0	E	5.1	SE	7.2	SSE	63.4
CLIMATIC MEAN	18.6	11.0					5.1		7.3		63.6
AVG DAILY MIN	13.7	8.3					2.3		4.0		45.9
ABSOLUTE MIN	3.4	-1.5					.5		.6		18.0
STANDARD DEV	5.0	5.1					2.6		3.0		16.6
VALID OBS	2189	2184	2161	2161	2150	2150	2186	2186	2171	2170	2183
INVALID OBS	43	48	71	71	82	82	46	46	61	62	49
TOTAL OBS	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
DATA RECOVERY	98.1	97.9	96.8	96.8	96.3	96.3	97.9	97.9	97.3	97.2	97.8

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL JUNE COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81 10.54.26.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)											
	DRY BULB	DEW POINT	DELTA TEMP	STAB CLASS	DELTA TEMP	STAB CLASS	WIND SPEED	WIND DIR	WIND SPEED	WIND DIR	REL HUMID
	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	60.00	60.00	10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	19.3	14.4	1.0	F	1.3	F	3.8	S	7.2	S	73.9
2	18.9	14.3	1.0	F	1.2	F	3.7	S	7.0	S	75.1
3	18.4	14.1	1.0	F	1.3	F	3.7	S	7.0	S	76.1
4	18.0	14.0	1.0	F	1.3	F	3.7	S	6.8	S	77.8
5	17.7	13.9	1.0	F	1.3	F	3.5	S	6.5	S	78.9
6	17.9	14.1	.7	E	1.0	E	3.8	S	6.7	SSW	78.9
7	18.9	14.5	-.1	E	.0	E	4.1	S	6.3	S	75.9
8	20.4	14.8	-.6	D	-.7	D	4.8	SSW	6.5	SSW	70.4
9	21.8	14.7	-.8	C	-1.0	D	5.0	SSW	6.6	SSW	64.4
10	22.8	14.5	-.9	B	-1.1	D	5.1	SSW	6.6	SSW	60.4
11	23.8	14.4	-1.0	A	-1.2	C	5.3	SSW	6.7	SSW	56.8
12	24.7	14.3	-1.0	A	-1.2	C	5.4	SSW	6.8	SSW	53.8
13	25.4	14.2	-1.0	A	-1.2	C	5.6	SSW	7.0	SSW	51.2
14	26.0	14.2	-.9	B	-1.2	C	5.5	SSW	7.0	SSW	49.6
15	26.3	14.1	-.9	B	-1.1	D	5.4	SSW	7.0	SSW	48.0
16	26.7	14.3	-.8	C	-1.0	D	5.5	S	7.2	S	47.4
17	26.7	14.3	-.7	D	-.9	D	5.5	S	7.3	S	47.9
18	26.1	14.4	-.5	D	-.8	D	5.2	S	7.2	S	50.3
19	25.0	14.7	-.2	E	-.3	E	4.7	S	7.2	S	54.0
20	23.6	14.9	.3	E	.3	E	4.2	SSE	7.0	S	58.9
21	22.4	14.9	.7	E	.8	E	4.0	SSE	7.4	SSE	63.5
22	21.4	14.9	.9	F	1.0	E	4.0	SSE	7.4	S	66.9
23	20.8	14.8	.9	F	1.1	E	4.0	SSE	7.5	S	69.0
24	20.1	14.7	1.0	F	1.2	F	3.9	S	7.4	S	71.2
ABSOLUTE MAX	37.0	24.7					13.5		17.1		100.0
AVG DAILY MAX	27.1	16.9					7.0		9.9		82.1
MEAN	22.2	14.4	.0	E	-.0	E	4.6	S	7.0	S	63.4
CLIMATIC MEAN	22.1	14.5					4.6		7.0		63.9
AVG DAILY MIN	17.1	12.0					2.2		4.0		45.7
ABSOLUTE MIN	10.6	3.0					0.0		0.0		17.3
STANDARD DEV	4.6	4.0					2.3		2.7		18.2
VALID OBS	2136	2086	2062	2062	1955	1955	2152	2118	2135	2126	2084
INVALID OBS	24	74	98	98	205	205	8	42	25	34	76
TOTAL OBS	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
DATA RECOVERY	98.9	96.6	95.5	95.5	90.5	90.5	99.6	98.1	98.8	98.4	96.5

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL JULY COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81 13.42.02.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB 10.00	D&W POINT 10.00	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	22.5	16.7	1.3	F	1.6	F	3.4	SE	7.1	SSE	70.2
2	22.1	16.7	1.2	F	1.5	F	3.2	SSE	6.8	SSE	71.8
3	21.7	16.7	1.2	F	1.5	F	3.1	SSE	6.9	SSE	73.5
4	21.4	16.7	1.2	F	1.5	F	2.9	SSE	6.6	S	75.2
5	21.0	16.7	1.2	F	1.5	F	2.3	SSE	6.2	S	76.8
6	21.0	16.7	.8	F	1.1	E	2.9	SE	6.0	S	76.7
7	22.2	17.2	-.1	E	.1	E	3.3	SSE	5.6	S	74.1
8	23.7	17.6	-.7	D	-.7	D	4.0	S	5.7	S	69.4
9	25.3	17.7	-.9	B	-1.1	D	4.5	S	6.0	S	63.6
10	26.7	17.6	-1.0	A	-1.2	C	4.6	S	6.1	S	58.6
11	27.9	17.3	-.9	B	-1.2	C	4.7	S	6.1	S	54.3
12	28.9	16.9	-1.0	A	-1.3	B	4.6	S	6.0	S	50.1
13	29.6	16.6	-1.0	A	-1.3	B	4.7	S	6.2	SSE	47.2
14	30.3	16.5	-1.0	A	-1.2	C	4.8	SSE	6.3	SSE	44.9
15	30.5	16.4	-.9	B	-1.2	C	4.7	SSE	6.5	SSE	44.4
16	30.5	16.3	-.9	B	-1.1	D	4.7	SSE	6.4	SSE	44.4
17	30.2	16.2	-.7	D	-.9	D	4.7	SSE	6.4	SSE	44.2
18	29.7	16.5	-.5	D	-.7	D	4.3	SSE	6.5	SSE	46.8
19	28.5	16.7	-.0	E	-.2	E	3.8	SE	6.6	SSE	50.5
20	27.0	16.8	.6	E	.6	E	3.4	SE	6.7	SE	54.9
21	25.7	16.8	1.0	F	1.1	E	3.5	SE	7.1	SE	59.3
22	24.7	16.7	1.1	F	1.3	F	3.5	SE	7.2	SE	62.4
23	23.9	16.6	1.2	F	1.4	F	3.5	SE	7.2	SSE	65.0
24	23.2	16.6	1.2	F	1.5	F	3.4	SE	7.2	SSE	67.1
ABSOLUTE MAX	39.6	28.5					11.9		14.3		100.0
AVG DAILY MAX	30.9	19.1					6.1		9.0		79.4
MEAN	25.8	16.8		E	.1	E	3.9	SSE	6.5	SSE	60.2
CLIMATIC MEAN	25.7	16.9					4.0		6.5		60.9
AVG DAILY MIN	20.4	14.6					1.9		4.0		42.4
ABSOLUTE MIN	14.9	7.3					.4		.8		18.0
STANDARD DEV	4.9	3.3					1.9		2.2		19.1
VALID OBS	2201	2180	2133	2133	2133	2133	2225	2224	2156	2128	2158
INVALID OBS	31	52	99	99	99	99	7	8	76	104	74
TOTAL OBS	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
DATA RECOVERY	98.6	97.7	95.6	95.6	95.6	95.6	99.7	99.6	96.6	95.3	96.7

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL AUGUST COMBINED

DATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81 13.51.50.

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB 10.00	DEW POINT 10.00	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	21.2	16.5	.9	F	1.1	E	3.3	SSE	6.9	S	75.0
2	20.6	16.5	1.0	F	1.1	F	3.2	SSE	6.7	S	77.9
3	20.2	16.3	.9	F	1.1	F	3.0	SSE	6.5	S	78.9
4	19.9	16.3	1.0	F	1.2	F	3.1	SSE	6.3	S	80.1
5	19.5	16.2	1.0	F	1.1	E	3.2	SSE	6.3	S	81.3
6	19.4	16.3	.8	F	1.1	E	3.3	SSE	6.4	S	82.0
7	20.2	16.5	.1	E	.2	E	3.5	S	5.9	S	80.0
8	21.6	17.1	-.5	D	-.6	D	4.0	S	5.6	S	75.7
9	23.2	17.2	-.8	C	-1.0	D	4.4	SSW	5.9	SSW	69.8
10	24.5	17.2	-.8	C	-1.1	C	4.8	SSW	6.2	SSW	64.6
11	25.6	17.0	-.9	B	-1.2	C	4.9	SSW	6.5	SSW	59.9
12	26.5	16.9	-.9	B	-1.2	C	4.9	S	6.4	S	56.9
13	27.2	16.8	-.9	B	-1.2	C	5.0	S	6.5	S	53.9
14	27.7	16.6	-.9	B	-1.2	C	5.2	S	6.7	S	51.7
15	28.1	16.5	-.9	B	-1.2	C	5.0	S	6.6	S	50.4
16	28.1	16.4	-.8	C	-1.1	D	5.1	S	6.8	S	50.4
17	27.7	16.5	-.6	D	-.9	D	4.9	SSE	6.9	SSE	51.7
18	26.9	16.7	-.3	D	-.6	D	4.3	SSE	6.6	SSE	54.9
19	25.7	17.0	.2	E	.0	E	3.8	SE	6.8	SSE	59.8
20	24.3	17.1	.7	E	.7	E	3.5	SE	7.1	SSE	64.9
21	23.3	17.0	1.0	F	1.0	E	3.5	SE	7.4	SSE	68.5
22	22.6	17.0	1.0	F	1.1	E	3.5	SE	7.5	SSE	71.1
23	22.0	16.8	1.0	F	1.1	E	3.6	SE	7.3	SSE	72.7
24	21.6	16.8	.9	F	1.1	E	3.5	SSE	7.1	SSE	74.3
ABSOLUTE MAX	37.5	22.8					14.2		14.8		100.0
AVG DAILY MAX	28.8	18.8					6.5		9.6		84.8
MEAN	23.6	16.7	.1	E	.0	E	4.0	SSE	6.6	S	67.0
CLIMATIC MEAN	23.8	16.6					4.2		6.7		66.2
AVG DAILY MIN	18.8	14.5					2.0		3.8		47.5
ABSOLUTE MIN	11.8	1.8					.4		.7		20.5
STANDARD DEV	4.6	3.6					1.8		2.6		16.9
VALID OBS	2217	2197	2163	2163	2164	2164	2224	2214	2191	2137	2197
INVALID OBS	15	35	69	69	68	68	8	18	41	95	35
TOTAL OBS	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
DATA RECOVERY	99.3	98.4	96.9	96.9	97.0	97.0	99.6	99.2	98.2	95.7	98.4

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL SEPTEMBER COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81. 13.56.54.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP 10.00 60.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	16.6	12.2	1.5	F	1.6	F	3.0	SE	6.4	SSE	75.6
2	16.2	12.1	1.5	F	1.6	F	2.9	SE	6.2	SSE	77.2
3	15.8	12.1	1.5	F	1.6	F	2.9	SE	6.2	SSE	78.3
4	15.5	11.9	1.4	F	1.6	F	3.1	SE	6.3	SSE	78.9
5	15.2	11.7	1.4	F	1.5	F	3.0	SE	6.1	SSE	79.3
6	14.9	11.6	1.4	F	1.5	F	3.1	SE	6.1	SSE	80.0
7	14.9	11.6	1.0	F	1.3	F	3.1	SE	5.8	SSE	80.1
8	15.9	12.0	.0	E	.3	E	3.4	SE	5.6	SSE	77.5
9	17.5	12.4	-.7	D	-.8	D	3.9	SSE	5.6	SSE	72.0
10	19.0	12.3	-.9	B	-1.0	D	4.2	S	5.6	SSE	66.3
11	20.3	12.3	-1.0	A	-1.1	D	4.2	SSE	5.7	SSE	62.3
12	21.2	12.1	-1.0	A	-1.2	C	4.4	SSE	5.9	SSE	58.6
13	22.0	12.0	-1.1	A	-1.2	C	4.4	SSE	6.0	SSE	55.7
14	22.4	11.9	-1.0	A	-1.2	C	4.5	SSE	6.1	SE	54.6
15	22.7	11.7	-.9	B	-1.1	D	4.5	SE	6.0	SE	53.6
16	23.0	11.7	-.8	C	-1.0	D	4.3	SE	5.8	SE	52.4
17	22.8	11.8	-.7	D	-.9	D	4.0	SE	5.7	SE	53.1
18	22.0	11.8	-.3	D	-.4	D	3.4	ESE	5.5	SE	55.3
19	20.7	12.1	.5	E	.4	E	2.9	ESE	5.8	SE	60.4
20	19.4	12.3	1.3	F	1.1	F	2.9	ESE	6.3	SE	65.3
21	18.5	12.2	1.4	F	1.4	F	2.9	ESE	6.5	SE	68.1
22	17.8	12.2	1.5	F	1.5	F	2.8	ESE	6.3	SE	70.8
23	17.3	12.2	1.5	F	1.6	F	2.8	SE	6.4	SE	72.3
24	16.8	11.9	1.5	F	1.6	F	2.9	SE	6.4	SE	73.7
ABSOLUTE MAX	31.5	21.7					15.8		16.8		96.9
AVG DAILY MAX	23.7	14.3					5.8		9.1		83.3
MEAN	18.7	12.0	.4	E	.4	E	3.5	SE	6.0	SE	67.6
CLIMATIC MEAN	18.9	11.9					3.6		6.1		65.9
AVG DAILY MIN	14.0	9.4					1.5		3.0		48.5
ABSOLUTE MIN	6.0	-1.5					0.0		0.0		17.0
STANDARD DEV	5.1	5.3					1.8		2.5		18.9
VALID OBS	2157	2114	1666	1666	2139	2139	2144	2143	2134	2103	2113
INVALID OBS	3	46	494	494	21	21	16	17	26	57	47
TOTAL OBS	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
DATA RECOVERY	99.9	97.9	77.1	77.1	99.0	99.0	99.3	99.2	98.8	97.4	97.8

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL OCTOBER COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81 14.57.07.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB	DEW POINT	DELTA TEMP 10.00 10.00	STAB CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STAB CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOURL	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	13.1	6.9	1.6	F	1.8	F	3.8	S	7.5	S	67.5
2	12.7	7.0	1.5	F	1.7	F	3.7	SSE	7.2	S	68.8
3	12.4	7.0	1.5	F	1.7	F	3.7	S	7.2	S	70.1
4	12.0	6.9	1.5	F	1.7	F	3.7	S	7.3	S	71.5
5	11.8	6.9	1.3	F	1.6	F	3.9	SSE	7.4	S	72.1
6	11.5	6.9	1.3	F	1.5	F	4.0	SSE	7.6	S	73.0
7	11.6	7.2	1.1	F	1.5	F	4.1	SSE	7.4	S	73.8
8	12.4	7.7	.4	E	.7	E	4.4	SSE	7.3	S	71.9
9	14.0	7.9	-.5	D	-.5	D	5.1	S	7.0	S	66.8
10	15.7	7.9	-.7	D	-1.0	D	5.7	S	7.4	S	61.2
11	17.0	7.9	-.8	C	-1.1	D	5.9	S	7.6	S	56.9
12	18.3	7.7	-.9	B	-1.2	C	6.1	SSW	7.8	S	52.3
13	19.0	7.4	-.9	B	-1.2	C	6.0	SSW	7.7	SSW	49.4
14	19.6	7.1	-.8	C	-1.1	C	6.0	SSW	7.7	SSW	47.0
15	20.1	7.2	-.7	D	-1.1	D	5.8	SSW	7.6	SSW	46.1
16	20.2	7.0	-.6	D	-.9	D	5.6	SSW	7.5	SSW	45.7
17	19.7	7.0	-.3	D	-.6	D	5.0	S	7.2	S	47.2
18	18.5	7.1	.3	E	.1	E	3.9	S	6.8	SSE	50.5
19	17.1	7.1	.9	F	.9	E	3.6	SSE	7.1	SSE	54.8
20	16.1	7.1	1.2	F	1.2	F	3.7	SSE	7.2	SSE	57.6
21	15.2	7.0	1.4	F	1.5	F	3.9	SSE	7.4	SSE	60.1
22	14.5	7.0	1.5	F	1.6	F	3.8	SSE	7.5	S	62.6
23	14.0	7.0	1.5	F	1.6	F	3.8	S	7.5	S	64.3
24	13.4	6.8	1.5	F	1.8	F	3.9	S	7.6	S	66.0
ABSOLUTE MAX	31.7	20.7					14.0		17.8		95.5
AVG DAILY MAX	20.7	9.6					7.3		10.5		75.9
MEAN	15.4	7.2	.5	E	.5	E	4.5	S	7.4	S	60.7
CLIMATIC MEAN	15.5	6.7					4.7		7.3		59.4
AVG DAILY MIN	10.3	3.9					2.0		4.1		43.0
ABSOLUTE MIN	5	-8.9					0.0		0.0		11.7
STANDARD DEV	5.5	6.6					2.5		3.0		20.4
VALID OBS	2225	2045	1847	1847	1973	1973	2224	2223	2008	2007	2045
INVALID OBS	7	187	385	385	259	259	8	9	224	225	187
TOTAL OBS	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
DATA RECOVERY	99.7	91.6	82.8	82.8	88.4	88.4	99.6	99.6	90.0	89.9	91.6

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WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL NOVEMBER COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81 15.00.46WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)

	DRY BULB 10.00	DEW POINT 10.00	DELTA TEMP 10.00 60.00	STA3 CLASS 10.00 60.00	DELTA TEMP 10.00 85.00	STA3 CLASS 10.00 85.00	WIND SPEED 10.00	WIND DIR 10.00	WIND SPEED 60.00	WIND DIR 60.00	REL HUMID 10.00
HOUR	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	5.3	.2	.8	F	1.0	E	4.2	SSW	7.6	SW	69.0
2	5.0	.1	.8	F	1.0	E	4.2	SW	7.6	SW	69.8
3	4.7	.1	.7	E	.9	E	4.2	SSW	7.5	SW	70.9
4	4.5	-.0	.6	E	.8	E	4.2	SSW	7.4	SW	71.5
5	4.3	-.0	.6	E	.8	E	4.4	SSW	7.5	SW	72.2
6	4.2	.0	.5	E	.7	E	4.3	SW	7.4	SW	73.1
7	4.1	.0	.5	E	.7	E	4.4	SW	7.4	SW	73.8
8	4.2	.0	.2	E	.4	E	4.6	SW	7.4	SW	73.2
9	5.2	.5	-.4	D	-.4	E	5.1	SW	7.2	SW	70.6
10	6.7	.7	-.7	D	-.8	D	5.6	SW	7.2	SW	66.1
11	7.9	.8	-.8	C	-1.0	D	5.8	WSW	7.3	SW	61.4
12	9.0	.8	-.8	C	-1.0	D	5.9	WSW	7.5	SW	57.8
13	9.8	.8	-.8	C	-1.0	D	6.0	WSW	7.6	SW	55.4
14	10.3	.7	-.8	C	-1.0	D	6.0	WSW	7.7	WSW	53.6
15	10.6	.9	-.7	D	-1.0	D	5.9	WSW	7.7	WSW	53.4
16	10.5	.4	-.6	D	-.8	D	5.6	SW	7.6	SW	52.3
17	9.9	.3	-.2	E	-.4	E	4.8	SW	7.3	SW	53.7
18	8.7	.4	.4	E	.0	E	4.3	SW	7.3	SW	57.5
19	7.9	.4	.7	E	.8	E	4.2	SSW	7.6	SW	59.8
20	7.3	.4	.9	F	1.0	E	4.3	SSW	7.8	SW	61.6
21	6.8	.3	.9	F	1.0	E	4.4	SSW	7.9	SW	63.1
22	6.2	.2	.9	F	1.0	E	4.4	SSW	7.9	SW	64.6
23	5.8	.1	.9	F	1.0	E	4.4	SSW	7.9	SSW	66.1
24	5.3	.0	.8	F	1.0	E	4.2	SSW	7.7	SW	67.8
ABSOLUTE MAX	23.9	16.3					15.9		19.7		100.0
AVG DAILY MAX	11.4	3.1					7.6		10.6		77.8
MEAN	6.8	.3	.2	E	.2	E	4.8	SW	7.5	SW	64.2
CLIMATIC MEAN	6.8	.2					5.0		7.6		62.3
AVG DAILY MIN	2.3	-2.8					2.4		4.5		46.9
ABSOLUTE MIN	-7.6	-14.7					.4		0.0		17.9
STANDARD DEV	5.7	6.1					2.3		2.7		17.0
VALID OBS	2160	2084	2131	2131	2160	2160	2151	2148	2146	2143	2084
INVALID OBS	0	75	29	29	0	0	9	12	14	17	75
TOTAL OBS	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
DATA RECOVERY	100.0	96.5	98.7	98.7	100.0	100.0	99.6	99.4	99.4	99.2	96.5

WCGS-ER(OLS)

TABLE 2.3-3 (Continued)

STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS

(MONTHLY)

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STATISTICS AND DIURNAL VARIATION OF METEOROLOGICAL PARAMETERS
DATA PERIOD: ALL DECEMBER COMBINEDDATA SOURCE: ON-SITE
TABLE GENERATED: 11/11/81 15.09.30.WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

METEOROLOGICAL PARAMETERS (HEIGHTS IN METERS)											
	DRY BULB	DEW POINT	DELTA TEMP	STAB CLASS	DELTA TEMP	STAB CLASS	WIND SPEED	WIND DIR	WIND SPEED	WIND DIR	REL HUMID
	10.00	10.00	10.00 60.00	10.00 60.00	10.00 85.00	10.00 85.00	10.00	10.00	60.00	60.00	10.00
HOUR	DEG C	DEG C	DEG C		DEG C		M/SEC		M/SEC		PCT
1	.1	-4.5	.6	E	.9	E	4.5	WSW	7.8	WSW	67.7
2	-.2	-4.6	.6	E	.9	E	4.6	SW	7.7	WSW	68.4
3	-.4	-4.8	.5	E	.9	E	4.5	WSW	7.6	WSW	68.8
4	-.6	-4.9	.5	E	.8	E	4.6	WSW	7.6	WSW	69.1
5	-.8	-5.0	.4	E	.7	E	4.5	WSW	7.4	WSW	69.5
6	-1.0	-5.1	.4	E	.7	E	4.4	SW	7.2	W	70.1
7	-1.2	-5.1	.4	E	.8	E	4.3	WSW	7.2	SW	71.0
8	-1.2	-5.0	.3	E	.6	E	4.4	SW	7.2	WSW	71.7
9	-.8	-4.7	-.2	E	.1	E	4.7	SW	7.1	SW	71.2
10	.3	-4.5	-.6	D	-.6	D	5.2	WSW	7.1	W	67.8
11	1.6	-4.1	-.7	D	-.7	D	5.6	W	7.2	W	64.4
12	2.7	-3.8	-.8	C	-.8	D	5.6	W	7.0	W	61.2
13	3.7	-3.6	-.8	C	-.8	D	5.7	W	7.1	W	58.3
14	4.3	-3.7	-.8	C	-.9	D	5.8	WSW	7.2	W	55.1
15	4.7	-3.9	-.7	D	-.8	D	5.7	W	7.2	W	53.6
16	4.9	-3.9	-.6	D	-.7	D	5.4	W	7.1	W	52.2
17	4.2	-4.0	-.4	D	-.4	D	4.8	W	7.0	W	53.9
18	3.2	-4.0	.1	E	.1	E	4.4	WNW	7.1	W	57.1
19	2.4	-4.1	.4	E	.4	E	4.3	NNE	7.5	NW	59.5
20	1.7	-4.3	.5	E	.7	E	4.4	NE	7.6	NW	61.9
21	1.2	-4.2	.6	E	.8	E	4.4	NE	7.7	WNW	64.2
22	.8	-4.2	.6	E	.8	E	4.4	NW	7.7	WSW	65.4
23	.4	-4.3	.6	E	.9	E	4.4	WSW	7.7	WSW	66.4
24	.1	-4.4	.6	E	.9	E	4.3	W	7.7	WSW	67.6
ABSOLUTE MAX	19.7	12.2					13.9		16.9		97.9
AVG DAILY MAX	5.9	-1.4					7.4		10.4		77.5
MEAN	1.3	-4.4	.1	E	.2	E	4.8	W	7.4	WSW	64.0
CLIMATIC MEAN	1.5	-4.4					4.9		7.4		62.8
AVG DAILY MIN	-2.8	-7.4					2.5		4.4		48.1
ABSOLUTE MIN	-18.7	-25.5					.4		0.0		17.0
STANDARD DEV	6.0	5.8					2.4		2.9		15.9
VALID OBS	2224	2015	1958	1958	1932	1932	2138	2137	2142	2140	2010
INVALID OBS	2228	217	274	274	300	300	94	95	90	92	222
TOTAL OBS	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
DATA RECOVERY	99.6	90.3	87.7	87.7	86.6	86.6	95.8	95.7	96.0	95.9	90.1

TABLE 2.3-I7 (CONTINUED)

SHEET 6 OF 6

JOINT WIND SPEED, WIND DIRECTION
 FREQUENCY DISTRIBUTION (IN PERCENT)
 BY STABILITY CLASS
 DATA PERIOD: JANUARY 1, 1955 TO DECEMBER 31, 1964

STABILITY CLASS: PASQUILL F
 DATA SOURCE: CHANUTE F.S.S., KANSAS

SECTOR	UPPER CLASS INTERVALS OF WIND SPEED (KNOTS)									TOTAL	MEAN SPEED
	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	>20.0		
NNE	.1	3.2	1.4	.0	.0	.0	.0	.0	.0	4.7	4.9
NE	.1	3.3	1.1	.0	.0	.0	.0	.0	.0	4.5	4.7
ENE	.0	3.1	1.0	.0	.0	.0	.0	.0	.0	4.1	4.8
E	.0	3.4	1.1	.0	.0	.0	.0	.0	.0	4.5	4.8
ESE	.1	3.8	2.2	.0	.0	.0	.0	.0	.0	6.1	5.0
SE	.1	4.4	2.4	.0	.0	.0	.0	.0	.0	6.9	5.0
SSE	.0	3.4	2.4	.0	.0	.0	.0	.0	.0	5.8	5.1
S	.0	2.2	2.3	.0	.0	.0	.0	.0	.0	4.5	5.3
SSW	.0	2.0	1.2	.0	.0	.0	.0	.0	.0	3.2	5.1
SW	.2	2.2	.4	.0	.0	.0	.0	.0	.0	2.8	4.5
WSW	.0	2.2	.8	.0	.0	.0	.0	.0	.0	3.1	4.7
W	.0	2.7	.8	.0	.0	.0	.0	.0	.0	3.5	4.6
WNW	.1	3.5	1.4	.0	.0	.0	.0	.0	.0	4.9	4.8
NW	.2	4.6	2.5	.0	.0	.0	.0	.0	.0	7.3	4.8
NNW	.0	4.5	2.2	.0	.0	.0	.0	.0	.0	6.7	4.9
N	.0	4.5	1.8	.0	.0	.0	.0	.0	.0	6.2	4.9
CALM										21.1	
TOTAL	1.0	52.9	24.9	.0	.0	.0	.0	.0	.0	100.0	3.9

NUMBER OF INVALID OBSERVATIONS = 0

WCGS-ER(OLS)

TABLE 2.3-18

JOINT WIND FREQUENCY DISTRIBUTION

(ANNUAL - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD THREE YEARS COMBINED

ALL WINDS DATA SOURCE WIND SENSOR HEIGHT TABLE GENERATED						ON-SITE 10.00 METERS 11/05/81 13 14 50		WOLF CREEK GENERATING STATION SURLINGTON, KANSAS KANSAS GAS AND ELECTRIC DAMES AND MOORE JOB NO. 7699-064		
WIND SECTOR	WIND SPEED CATEGORIES		METERS PER SECOND				TOTAL	MEAN SPEED		
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0				
NNE	23	389	526	336	129	20	1478	4.49		
	23	1.52	2.03	1.31	0.52	0.08	5.77			
NE	28	443	458	162	30	3	1149	3.55		
	28	1.73	1.71	0.63	0.12	0.01	4.49			
ENE	27	325	425	146	27	1	991	3.63		
	26	1.67	1.68	0.57	0.11	0.00	3.87			
E	26	351	496	199	26	11	1149	3.84		
	26	1.37	1.94	0.78	0.10	0.04	4.49			
ESE	21	409	466	206	45	24	1201	3.97		
	20	1.60	1.82	0.80	0.18	0.09	4.69			
SE	22	637	552	246	59	14	1610	3.72		
	26	2.49	2.15	0.76	0.27	0.05	6.29			
SSE	76	843	1087	486	118	35	2645	4.06		
	32	3.29	4.24	1.90	0.46	0.14	10.33			
S	39	685	1475	1327	708	229	4523	5.45		
	39	2.67	5.76	5.18	2.76	0.89	17.66			
SSW	34	355	691	634	373	186	2527	5.61		
	34	1.39	2.70	3.26	1.46	0.73	9.87			
SW	23	267	297	202	95	48	947	4.62		
	23	1.04	1.16	0.79	0.37	0.19	3.78			
WSW	21	221	178	92	46	12	630	3.76		
	22	0.86	0.69	0.36	0.18	0.05	2.46			
W	21	275	278	145	43	14	836	3.85		
	22	1.07	1.09	0.57	0.17	0.05	3.26			
WNW	27	296	313	208	59	30	973	4.26		
	26	1.16	1.22	0.81	0.23	0.12	3.80			
NW	23	367	368	380	201	91	1480	5.10		
	28	1.43	1.44	1.48	0.78	0.36	5.78			
NNW	25	286	445	556	307	76	1725	5.47		
	25	1.12	1.74	2.17	1.20	0.30	6.77			
N	21	330	560	481	214	56	1702	5.00		
	21	1.29	2.19	1.88	0.84	0.22	6.64			
CALM	19						19	CALM		
	07						07			
TOTAL	1175	6470	8595	6006	2500	860	23615	4.64		
	4.59	25.29	33.55	23.45	9.76	3.36	100.00			
NUMBER OF VALID OBSERVATIONS 25615										
NUMBER OF INVALID OBSERVATIONS 689										
TOTAL NUMBER OF OBSERVATIONS 26304										
KEY: XXX NUMBER OF OCCURRENCES										
XXX PERCENT OCCURRENCES										

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD JUNE 1, 1973 THROUGH MAY 31, 1974

ALL WINDS DATA SOURCE ON-SITE WIND SENSOR HEIGHT 10.00 METERS TABLE GENERATED: 11/04/81 11:55:32				WOLF CREEK GENERATING STATION SURLINGTON, KANSAS KANSAS GAS AND ELECTRIC DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	26 1.47	157 1.99	167 1.99	68 .81	43 .54	12 .14	475 5.63	4.17
NE	32 .33	137 1.63	127 1.51	46 .55	3 .04	1 .01	346 4.12	3.13
ENE	18 .21	92 1.10	120 1.43	50 .60	12 .14	1 .01	293 3.49	3.83
E	21 .25	117 1.39	93 1.11	55 .66	8 .10	5 .06	299 3.56	3.77
ESE	12 .14	123 1.47	140 1.67	54 .64	11 .13	4 .05	344 4.10	3.84
SE	20 .24	195 2.32	207 2.47	60 .71	17 .20	3 .04	502 5.98	3.64
SSE	18 .21	315 3.75	403 4.80	175 2.09	49 .58	23 .27	983 11.71	4.22
S	25 .30	234 2.79	526 6.27	542 6.46	254 3.03	99 1.18	1680 20.02	5.64
SSW	26 .31	114 1.36	210 2.50	241 2.87	116 1.38	68 .81	775 9.23	5.74
SW	19 .23	80 .95	101 1.20	92 1.10	38 .45	21 .25	351 4.18	5.02
WSW	17 .22	70 .83	57 .68	29 .35	16 .19	4 .05	203 2.42	3.78
W	22 .25	80 .95	70 .83	25 .30	10 .12	0 0.00	208 2.48	3.42
WNW	16 .19	102 1.22	116 1.38	62 .74	14 .17	11 .13	321 3.82	4.16
NW	20 .24	115 1.37	137 1.63	135 1.61	70 .83	53 .63	540 6.43	5.42
NNW	23 .27	94 1.12	152 1.81	201 2.39	80 .95	21 .25	571 6.80	5.31
N	26 .31	102 1.22	170 2.03	134 1.60	48 .57	10 .12	490 5.84	4.65
CALM	13 .14						13 .14	CALM
TOTAL	374 4.46	2127 25.34	2796 33.31	1969 23.46	791 9.42	336 4.00	3993 100.00	4.70
NUMBER OF VALID OBSERVATIONS 3993								
NUMBER OF INVALID OBSERVATIONS 367								
TOTAL NUMBER OF OBSERVATIONS 4360								
KEY: (XX) NUMBER OF OCCURRENCES (XX) PERCENT OCCURRENCES								

WCGS-ER(OLS)

TABLE 2.3-18 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(ANNUAL - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975

ALL WINDS		ON-SITE		10.00 METERS		WOLF CREEK GENERATING STATION	
DATA SOURCE		WIND SENSOR HEIGHT		TABLE GENERATED		BURLINGTON, KANSAS	
				11/04/81 13 19 37		KANSAS GAS AND ELECTRIC	
						DAMES AND MOORE JOB NO: 7599-064	
WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	MEAN SPEED
NNE	22 26	115 1.34	176 2.06	139 1.62	51 .60	3 .04	506 5.91
NE	28 38	123 1.55	118 1.38	42 .49	2 .02	0 0.00	320 3.74
ENE	22 26	92 1.07	137 1.60	48 .56	6 .07	0 0.00	305 3.56
E	24 30	96 1.12	181 2.11	57 .67	10 .12	5 .06	373 4.36
ESE	13 15	119 1.39	154 1.80	101 1.18	25 .29	17 .20	429 5.01
SE	31 35	211 2.46	196 2.29	105 1.23	14 .16	8 .09	565 6.60
SSE	45 49	278 3.25	363 4.24	198 2.31	41 .48	8 .09	913 10.67
S	33 39	207 2.42	460 5.37	413 4.82	216 2.52	50 .58	1379 16.11
SSW	31 35	125 1.58	250 2.92	273 3.19	144 1.68	76 .89	909 10.62
SW	18 21	100 1.17	103 1.20	51 .60	31 .36	22 .26	325 3.80
WSW	26 30	61 .71	55 .64	35 .41	13 .15	8 .09	198 2.31
W	22 26	91 1.06	90 1.05	54 .63	12 .14	14 .16	283 3.31
WNW	27 32	81 .95	112 1.31	85 .99	31 .36	19 .22	355 4.15
NW	24 28	104 1.21	130 1.52	169 1.97	83 .97	20 .23	520 6.19
NNW	21 25	95 1.11	123 1.44	186 2.17	137 1.60	23 .27	585 6.93
N	19 22	95 1.11	193 2.25	177 2.07	81 .95	17 .20	582 6.80
CALM	3 04						3 04
TOTAL	386 4.51	2012 23.52	2841 33.19	2133 24.92	897 10.48	290 3.39	8560 100.00
NUMBER OF VALID OBSERVATIONS 8560							
NUMBER OF INVALID OBSERVATIONS 200							
TOTAL NUMBER OF OBSERVATIONS 8760							
KEY: III NUMBER OF OCCURRENCES							
III PERCENT OCCURRENCES							

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: MARCH 5, 1979 THROUGH MARCH 4, 1980

ALL WINDS		ON-SITE		10.00 METERS		WOLF CREEK GENERATING STATION	
DATA SOURCE		WIND SENSOR HEIGHT		TABLE GENERATED		BURLINGTON, KANSAS	
				11/04/81 14 42 25		KANSAS GAS AND ELECTRIC	
						DAMES AND MOORE JOB NO: 7599-064	
WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	MEAN SPEED
NNE	10 12	117 1.35	180 2.11	129 1.49	43 .50	15 .17	497 5.74
NE	16 18	173 2.00	193 2.23	74 .85	25 .29	3 .02	483 5.58
ENE	27 31	141 1.63	169 1.94	48 .55	9 .10	0 0.00	393 4.54
E	21 24	138 1.59	222 2.55	87 1.00	8 .09	1 .01	477 5.51
ESE	26 30	167 1.92	172 1.99	31 .39	9 .10	3 .03	428 4.94
SE	41 45	231 2.67	149 1.72	81 .94	28 .34	3 .03	543 6.27
SSE	33 38	250 2.89	321 3.71	113 1.30	28 .32	4 .05	749 8.65
S	41 47	244 2.82	489 5.65	372 4.29	238 2.75	80 .92	1464 16.90
SSW	31 36	106 1.22	231 2.67	320 3.69	113 1.30	42 .48	843 9.75
SW	21 24	87 1.00	93 1.07	59 .68	26 .30	5 .06	261 3.06
WSW	28 32	90 1.04	66 .76	28 .32	17 .20	0 0.00	229 2.64
W	35 42	104 1.20	118 1.36	66 .76	21 .24	0 0.00	345 3.98
WNW	24 28	113 1.30	95 .98	81 .90	14 .16	0 0.00	297 3.43
NW	19 22	148 1.71	101 1.17	76 .88	48 .55	18 .21	410 4.73
NNW	21 24	97 1.12	170 1.96	169 1.95	90 1.04	28 .32	579 6.68
N	16 19	123 1.54	197 2.27	170 1.96	85 .98	29 .33	630 7.27
CALM	4 05						4 05
TOTAL	415 4.79	2339 27.00	2958 34.15	1924 21.98	812 9.37	234 2.70	8662 100.00
NUMBER OF VALID OBSERVATIONS 8662							
NUMBER OF INVALID OBSERVATIONS 122							
TOTAL NUMBER OF OBSERVATIONS 8784							
KEY: III NUMBER OF OCCURRENCES							
III PERCENT OCCURRENCES							

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TABLE 2.3-19

JOINT WIND FREQUENCY DISTRIBUTION

(ANNUAL - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: THREE YEARS COMBINED

ALL WINDS				WOLF CREEK GENERATING STATION					
DATA SOURCE		ON-SITE		BURLINGTON, KANSAS					
WIND SENSOR HEIGHT		60.00 METERS		KANSAS GAS AND ELECTRIC					
TABLE GENERATED		11/03/81 13 14 30		DAMES AND MOORE JOB NO. 7699-064					
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	14 06	80 32	273 1.10	494 1.99	331 1.33	192 0.77	1264 5.58	6.91	
NE	19 08	142 57	394 1.59	356 1.43	83 0.33	15 0.06	1009 4.07	4.98	
ENE	12 05	104 42	272 1.10	371 1.49	179 0.72	41 0.17	979 3.94	5.81	
E	17 07	85 34	225 0.91	445 1.79	255 1.03	42 0.17	1069 4.31	6.15	
ESE	15 06	95 38	247 1.00	397 1.60	230 0.93	73 0.29	1057 4.26	6.25	
SE	18 07	96 39	289 1.16	557 2.24	750 3.00	146 0.59	1456 5.87	6.64	
SSE	16 06	95 38	350 1.41	720 2.90	631 2.54	311 1.25	2122 8.55	7.29	
S	17 07	120 48	432 1.74	1471 5.93	1484 5.98	1126 4.54	4650 18.74	8.17	
SSW	22 09	88 35	343 1.38	968 3.90	881 3.53	562 2.26	2864 11.54	7.77	
SW	20 08	94 38	273 1.10	450 1.81	266 1.07	142 0.57	1245 5.02	6.61	
WSW	10 04	82 33	175 0.71	235 0.95	108 0.44	52 0.21	662 2.67	5.89	
W	25 10	93 37	238 0.96	262 1.06	135 0.54	51 0.21	804 3.24	5.78	
WNW	10 04	81 32	156 0.64	295 1.19	237 0.95	95 0.38	659 2.66	6.89	
NW	15 06	55 22	190 0.77	385 1.55	363 1.46	237 0.95	1245 5.02	7.63	
NNW	15 06	52 21	170 0.69	539 2.17	493 1.99	334 1.35	1603 6.46	7.88	
N	20 08	70 28	228 0.92	580 2.34	520 2.10	379 1.53	1797 7.24	7.74	
CALM	11 04						11 04	CALM	
TOTAL	276 1.11	1415 5.70	4257 17.15	8525 34.35	6546 26.38	2798 11.30	24817 100.00	7.16	
NUMBER OF VALID OBSERVATIONS 24817				94.35 PCT					
NUMBER OF INVALID OBSERVATIONS 1487				0.60 PCT					
TOTAL NUMBER OF OBSERVATIONS 26304				100.00 PCT					
KEY: XXX NUMBER OF OCCURRENCES XXX PERCENT OCCURRENCES									

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

ALL WINDS				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 60.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/04/81 11 55 32				DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	WIND SPEED	CATEGORIES	METERS PER SECOND	7.5-10.0	>10.0	TOTAL	MEAN SPEED	
NNE	8 08	18 23	85 1.06	148 1.85	90 1.13	78 98	425 5.32	7.21
NE	7 09	43 54	107 1.34	123 1.54	23 29	2 03	305 3.82	4.95
ENE	2 03	32 40	78 98	105 1.31	67 84	27 34	311 3.89	4.23
E	7 04	28 35	68 85	141 1.77	84 1.05	12 15	340 4.26	6.15
ESE	4 02	23 29	74 93	98 1.23	51 64	19 24	269 3.37	6.12
SE	7 09	23 29	60 75	176 2.20	97 1.21	42 53	405 5.07	6.84
SSE	7 09	20 25	79 99	198 2.48	221 2.77	132 1.65	657 8.23	7.97
S	3 04	23 29	107 1.34	412 5.15	604 7.56	471 5.90	1620 20.29	8.70
SSW	6 08	16 20	77 96	279 3.49	374 4.68	250 3.13	1002 12.55	8.43
SW	4 05	15 19	80 1.00	176 2.20	142 1.78	62 78	479 6.00	7.23
WSW	3 04	24 30	61 76	70 88	36 45	17 21	211 2.64	5.93
W	7 09	27 34	85 81	75 94	25 31	7 09	206 2.58	5.47
WNW	0 00	17 21	47 59	108 1.35	74 93	14 18	260 3.26	6.63
NW	6 09	16 20	71 89	160 2.00	106 1.33	102 1.28	461 5.77	7.80
NNW	6 08	19 24	52 65	189 2.37	154 1.93	64 80	484 6.06	7.47
N	9 10	25 33	62 78	177 2.22	145 1.82	125 1.57	447 6.80	7.81
CALM	9 10						9 10	CALM
TOTAL	91 1.14	370 4.63	1173 14.69	2635 33.00	2293 28.71	1424 17.83	7966 100.00	7.49
NUMBER OF VALID OBSERVATIONS 7966				91.16 PCT				
NUMBER OF INVALID OBSERVATIONS 774				9.84 PCT				
TOTAL NUMBER OF OBSERVATIONS 8740				100.00 PCT				
KEY: XXX NUMBER OF OCCURRENCES XXX PERCENT OCCURRENCES								

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TABLE 2.3-19 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(ANNUAL - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD JUNE 1, 1974 THROUGH MAY 31, 1975

ALL WINDS			ON-SITE			WOLF CREEK GENERATING STATION		
DATA SOURCE			WIND SENSOR HEIGHT			BURLINGTON, KANSAS		
TABLE GENERATED			11/04/81			KANSAS GAS AND ELECTRIC		
			60.00 METERS			DAMES AND MOORE JOB NO.		
			13 19 37			7699-064		
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	4 05	31 37	90 1.08	169 2.02	125 1.50	60 .72	479 5.73	6.84
NE	7 08	55 66	123 1.47	82 .98	16 .19	4 .05	287 3.43	4.58
ENE	6 07	41 49	98 1.17	106 1.27	40 .48	1 .01	292 3.49	5.26
E	5 05	28 33	67 .80	107 1.28	55 .66	15 .18	277 3.31	6.07
ESE	8 10	45 54	95 1.14	156 1.87	84 1.00	26 .32	424 5.07	6.25
SE	7 03	48 57	103 1.23	161 1.93	127 1.52	52 .62	498 5.96	6.55
SSE	9 11	35 42	145 1.73	270 3.23	224 2.68	84 1.00	767 9.18	6.94
S	10 12	45 54	167 2.00	347 4.14	474 5.67	284 3.40	1527 18.27	7.74
SSW	13 16	41 49	156 1.87	353 4.22	265 3.17	170 2.03	1998 11.94	7.37
SW	9 11	33 39	99 1.18	174 2.08	50 .60	45 .54	413 4.94	6.26
WSW	5 05	35 42	58 .69	100 1.20	23 .28	13 .16	224 2.60	5.57
W	14 17	29 35	71 .85	71 .85	27 .32	18 .22	230 2.75	5.53
WNW	8 10	25 30	65 .78	97 1.16	91 1.09	59 .71	345 4.13	7.24
NW	6 07	26 31	68 .81	120 1.44	138 1.65	74 .89	432 5.17	7.37
WNW	3 04	16 19	55 .66	170 2.03	181 2.17	112 1.34	527 6.42	7.93
N	8 10	26 31	72 .86	209 2.50	176 2.11	127 1.52	618 7.39	7.69
CALM	1 01						1 .01	CALM
TOTAL	123 1.47	559 6.69	1532 18.33	2892 34.60	2099 25.11	1154 13.81	8359 100.00	6.95
NUMBER OF VALID OBSERVATIONS				8359		95.42 PCT		
NUMBER OF INVALID OBSERVATIONS				401		4.58 PCT		
TOTAL NUMBER OF OBSERVATIONS				8760		100.00 PCT		
KEY: ### NUMBER OF OCCURRENCES ### PERCENT OCCURRENCES								

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD MARCH 5, 1979 THROUGH MARCH 4, 1980

ALL WINDS				WOLF CREEK GENERATING STATION				
DATA SOURCE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT				KANSAS GAS AND ELECTRIC				
TABLE GENERATED: 11/04/81 14 42 25				DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES		METERS PER SECOND				TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	4 05	31 37	98 1.16	177 2.09	116 1.37	54 .64	480 5.67	6.72
NE	5 05	44 52	164 1.94	151 1.78	44 .52	9 .11	417 4.92	5.26
ENE	4 05	31 37	96 1.13	160 1.89	72 .85	13 .15	376 4.44	5.90
E	5 06	29 34	90 1.06	197 2.33	116 1.37	15 .18	452 5.34	6.19
ESE	3 04	27 32	78 .92	143 1.69	95 1.12	18 .21	364 4.30	6.34
SE	4 05	25 30	126 1.49	220 2.60	126 1.49	52 .61	553 6.53	6.57
SSE	0 00	40 47	126 1.49	252 2.97	186 2.20	95 1.12	699 8.25	7.03
S	4 05	52 61	158 1.86	312 3.64	406 4.79	371 4.38	1503 17.74	8.04
SSW	3 04	31 37	110 1.30	226 2.77	242 2.86	142 1.68	864 10.20	7.48
SW	7 03	46 54	94 1.11	100 1.18	71 .84	35 .41	253 4.17	6.17
WSW	2 02	23 27	56 .66	97 1.16	49 .58	22 .26	217 2.56	6.19
W	4 05	37 44	102 1.20	116 1.37	83 .98	26 .31	368 4.34	6.11
WNW	2 02	22 26	46 .54	90 1.06	72 .85	22 .26	254 3.00	6.67
NW	3 04	13 15	51 .60	105 1.26	119 1.40	61 .72	352 4.15	7.71
NNW	3 07	17 20	63 .74	180 2.12	158 1.86	158 1.86	582 6.87	8.18
N	4 05	18 21	94 1.11	194 2.29	199 2.35	127 1.50	636 7.51	7.73
CALM	2 02						2 .02	CALM
TOTAL	62 .73	486 5.84	1532 18.32	2998 35.39	2154 25.42	1220 14.40	8472 100.00	7.05
NUMBER OF VALID OBSERVATIONS				8472		96.45 PCT		
NUMBER OF INVALID OBSERVATIONS				220		2.58 PCT		
TOTAL NUMBER OF OBSERVATIONS				8694		100.00 PCT		
KEY: ### NUMBER OF OCCURRENCES								
### PERCENT OCCURRENCES								

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TABLE 2.3-20
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY-- 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL JANUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	4	38	58	39	14	0	158	4.26	
NE	44	187	285	192	69	0	776	3.90	
ENE	8	46	70	22	44	0	155	3.03	
E	39	226	344	108	44	0	761	3.68	
ESE	15	23	28	7	0	0	75	3.62	
SE	74	123	138	34	0	0	368	3.43	
SSE	10	22	43	16	0	0	92	4.14	
S	49	108	211	79	05	0	452	5.30	
SSW	3	20	25	10	0	0	58	5.36	
SW	15	98	123	49	0	0	285	3.35	
WSW	10	27	28	15	0	0	80	3.11	
W	44	133	138	74	0	0	393	3.64	
WNW	5	34	71	38	3	0	151	4.43	
NW	25	167	349	187	15	0	742	5.11	
NNW	8	38	87	67	45	6	251	5.15	
N	39	187	427	329	21	29	1233	4.90	
SSW	7	26	27	42	21	10	143	4.39	
SW	34	128	182	258	103	49	702	3.35	
WSW	8	31	16	11	3	0	69	3.11	
W	39	152	79	54	15	0	339	3.64	
WNW	9	30	23	7	05	0	70	4.43	
NW	44	147	113	34	05	0	344	5.11	
NNW	6	37	52	20	2	0	102	5.15	
N	29	182	152	98	10	0	501	4.90	
SSW	8	41	39	43	11	1	143	5.11	
SW	39	201	192	211	54	05	702	5.15	
NNW	4	30	52	41	23	5	155	5.15	
N	20	147	255	201	113	25	761	4.90	
NNW	4	32	38	43	24	4	145	5.15	
N	20	157	187	211	118	20	712	4.90	
NNW	9	37	55	57	24	1	183	5.15	
N	44	182	270	280	118	05	899	4.90	
CALM	5						5	CALM	
TOTAL	129	514	707	478	181	37	2036	4.39	
	8.34	25.25	34.72	23.48	8.89	1.33	100.00		
NUMBER OF VALID OBSERVATIONS 2036									
NUMBER OF INVALID OBSERVATIONS 196									
TOTAL NUMBER OF OBSERVATIONS 2232									
KEY: (X) NUMBER OF OCCURRENCES									
(XX) PERCENT OCCURRENCES									

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL FEBRUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	5	50	20	11	3	0	119	4.32	
NE	27	162	270	108	59	16	643	4.45	
ENE	3	24	36	10	11	2	86	4.34	
E	16	130	194	54	59	11	464	3.78	
ESE	3	21	25	23	5	0	77	4.12	
SE	16	113	135	124	27	0	416	3.65	
SSE	2	20	24	11	05	0	83	4.88	
S	22	108	154	59	4	0	448	5.19	
SSW	1	19	29	12	4	0	65	4.66	
SW	05	103	137	65	22	0	351	4.30	
WSW	9	25	31	12	0	2	79	4.37	
W	49	135	167	65	0	11	427	5.55	
WNW	4	14	16	49	8	3	134	6.05	
NW	22	76	102	265	43	16	724	5.38	
NNW	6	19	73	47	18	11	174	5.38	
N	32	103	194	254	97	59	940	4.76	
SSW	13	20	44	32	16	1	126	4.30	
SW	70	108	238	173	86	05	680	4.37	
WSW	9	14	19	9	6	3	60	5.55	
W	49	76	103	49	32	16	324	6.05	
WNW	6	24	22	6	4	1	63	5.38	
NW	32	130	119	32	22	05	380	5.38	
NNW	13	40	40	13	3	0	111	5.38	
N	91	216	216	70	16	0	599	4.37	
SSW	9	30	27	21	4	7	98	5.55	
SW	49	162	146	113	22	38	529	6.05	
WSW	7	40	33	41	13	13	166	5.38	
NW	28	216	178	221	73	70	896	5.38	
NNW	7	35	43	57	20	21	213	5.38	
N	28	189	232	303	270	113	1150	5.38	
NNW	5	28	64	65	25	10	197	5.38	
N	27	151	346	351	135	54	1064	5.38	
CALM	1						1	CALM	
TOTAL	107	403	629	428	196	77	1852	4.76	
	5.78	21.76	34.50	23.11	10.69	4.16	100.00		
NUMBER OF VALID OBSERVATIONS 1852									
NUMBER OF INVALID OBSERVATIONS 198									
TOTAL NUMBER OF OBSERVATIONS 2050									
KEY: (X) NUMBER OF OCCURRENCES									
(XX) PERCENT OCCURRENCES									

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TABLE 2.3-20 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
OF A PERIOD: ALL MARCH COMBINED

ALL WINDS			ON-SITE		WOLF CREEK GENERATING STATION			
DATA SOURCE			WIND SENSOR HEIGHT		BURLINGTON, KANSAS			
TABLE GENERATED			11/10/81 15 47 44		KANSAS GAS AND ELECTRIC			
					DAMES AND MOORE JOB NO. 7699-064			
WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	3 23	16 72	47 2.12	51 2.30	38 1.72	5 23	162 7.32	5.73
NE	3 14	39 1.76	35 1.63	15 32	4 18	0 0.00	98 4.43	3.66
ENE	9 41	29 1.31	28 1.26	5 27	5 23	1 09	78 3.52	3.64
E	9 27	28 1.26	33 1.49	17 77	4 18	6 27	94 4.25	4.31
ESE	4 18	26 1.17	44 1.99	20 90	13 59	14 63	121 5.47	5.25
SE	3 14	27 1.22	64 2.89	47 2.12	12 54	1 05	154 6.96	4.67
SSE	3 23	27 1.22	68 3.07	43 1.94	13 59	5 23	161 7.27	4.84
S	3 14	18 81	64 2.89	109 4.92	68 3.07	26 1.17	288 13.01	6.48
SSW	7 32	24 1.08	33 1.49	54 2.44	47 2.12	30 1.36	195 8.81	6.45
SW	4 18	21 89	25 1.13	11 50	15 68	7 32	83 3.75	5.20
WSW	12 54	9 3	15 68	7 32	9 41	3 14	59 2.56	4.41
W	7 56	13 59	12 54	19 86	4 18	7 32	62 2.80	5.19
WNW	3 14	18 81	28 1.26	9 41	0 0.00	16 72	74 3.34	5.77
NW	3 23	33 1.49	39 1.76	46 2.08	30 1.36	20 90	173 7.81	6.00
NNW	8 26	24 1.08	41 1.85	84 3.79	58 2.62	30 1.36	245 11.07	6.61
N	3 23	15 68	69 3.12	57 2.57	17 77	3 14	166 7.50	5.13
CALM	1 05						1 05	CALM
TOTAL	93 4.07	371 16.76	646 29.18	596 26.92	337 15.22	174 7.86	2214 100.00	5.50
NUMBER OF VALID OBSERVATIONS				2214		99.19 PCT		
NUMBER OF INVALID OBSERVATIONS				18		.81 PCT		
TOTAL NUMBER OF OBSERVATIONS				2232		100.00 PCT		
KEY: XXX NUMBER OF OCCURRENCES XXX PERCENT OCCURRENCES								

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL APRIL COMBINED

ALL WINDS			ON-SITE		WOLF CREEK GENERATING STATION			
DATA SOURCE			WIND SENSOR HEIGHT		BURLINGTON, KANSAS			
TABLE GENERATED			11/11/81 10 37 57		KANSAS GAS AND ELECTRIC			
					DAMES AND MOORE JOB NO. 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES: METERS PER SECOND						TOTAL	MEAN SPEED
	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	1	15	39	22	6	3	86	4.81
	05	71	1.84	1.04	28	14	4.06	
NE	5	34	35	14	0	0	88	3.45
	24	1.60	1.65	66	0.00	0.00	4.15	
ENE	1	16	44	15	2	0	78	4.06
	05	75	2.08	71	09	0.00	3.68	
E	2	6	60	28	4	0	100	4.58
	09	28	2.83	1.32	19	0.00	4.72	
ESE	1	13	30	33	13	6	136	5.49
	05	61	2.36	2.50	61	28	6.42	
SE	0	32	57	74	24	7	194	5.42
	0.00	1.51	2.69	3.49	1.13	33	9.15	
SSE	2	30	95	71	32	25	275	6.01
	09	1.42	4.48	3.35	2.45	1.18	12.97	
S	3	11	52	87	96	53	302	7.55
	14	52	2.45	4.10	4.33	2.50	14.25	
SSW	1	5	32	56	46	20	160	7.12
	05	24	1.51	2.64	2.17	94	7.55	
SW	0	12	18	16	12	11	69	6.36
	0.00	57	85	75	57	52	3.25	
WSW	3	12	17	15	12	4	63	5.41
	14	57	80	71	57	19	2.97	
W	6	5	17	17	19	0	64	5.46
	28	24	80	80	90	0.00	3.02	
WNW	4	13	24	16	18	4	79	5.44
	19	61	1.13	75	85	19	3.73	
NW	1	19	39	37	39	14	149	6.24
	05	90	1.84	1.75	1.84	66	7.03	
NNW	1	9	47	50	28	5	140	5.85
	05	42	2.22	2.36	1.32	24	6.60	
N	1	17	40	47	25	7	137	5.77
	05	80	1.69	2.22	1.18	33	6.46	
CALM	0						0	CALM
	0.00						0.00	
TOTAL	22	349	666	618	396	139	2120	5.88
	1.51	11.75	31.42	29.15	18.68	7.50	100.00	
NUMBER OF VALID OBSERVATIONS				98.15 PCT				
NUMBER OF INVALID OBSERVATIONS				1.85 PCT				
TOTAL NUMBER OF OBSERVATIONS				100.00 PCT				
KEY: XXX NUMBER OF OCCURRENCES								
XXX PERCENT OCCURRENCES								

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TABLE 2.3-20 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD ALL MAY COMBINEDALL WINDS
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 41 33WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	4 18	25 1.14	61 2.79	50 2.29	8 37	3 14	151 6.91	4.81
NE	8 37	36 1.65	57 2.61	15 69	3 14	0 0.00	119 5.44	3.57
ENE	6 27	43 1.97	44 2.01	19 87	5 23	0 0.00	117 5.35	3.71
E	5 23	28 1.28	43 1.97	35 1.60	5 23	3 14	119 5.44	4.41
ESE	6 27	37 1.69	48 2.20	31 1.42	5 23	4 18	131 5.99	4.33
SE	5 23	39 1.78	55 2.52	36 1.65	3 14	1 05	150 6.86	4.12
SSE	1 09	33 2.42	71 3.25	44 2.01	10 46	05 1	180 8.23	4.30
S	9 41	45 2.06	69 3.16	172 7.87	103 4.71	60 2.74	458 20.95	6.70
SSW	9 41	15 69	34 1.56	46 2.10	80 3.66	29 1.33	213 9.74	7.18
SW	3 14	20 91	20 91	15 69	11 50	4 18	73 3.34	4.99
WSW	5 23	13 59	6 27	7 32	1 05	0 0.00	32 1.46	3.43
W	8 37	13 59	22 1.01	2 09	0 0.00	0 0.00	45 2.06	2.99
WSW	5 23	23 1.05	17 78	6 27	3 14	0 0.00	54 2.47	3.34
WW	4 18	22 1.01	16 73	32 1.46	6 27	0 0.00	80 3.66	4.52
WNW	1 09	33 1.55	36 1.65	50 2.29	7 32	0 0.00	117 5.35	4.74
N	5 23	32 1.46	45 2.06	44 2.01	20 91	1 05	147 6.72	4.91
CALM	0 00						0 0.00	CALM
TOTAL	81 3.84	467 21.36	655 29.96	604 27.63	270 12.35	106 4.85	2186 100.00	5.08
NUMBER OF VALID OBSERVATIONS 2186								97.94 PCT
NUMBER OF INVALID OBSERVATIONS 40								1.84 PCT
TOTAL NUMBER OF OBSERVATIONS 2226								100.00 PCT

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCESJOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD ALL JUNE COMBINEDALL WINDS
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 34 26WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	3 14	32 1.51	34 1.61	19 90	2 09	0 0.00	90 4.25	3.96
NE	6 28	34 1.61	33 1.56	5 24	0 0.00	0 0.00	78 3.68	3.18
ENE	4 19	20 94	30 1.42	5 24	1 05	0 0.00	60 2.80	3.21
E	5 24	24 1.13	30 1.42	7 33	2 09	0 0.00	68 3.21	3.53
ESE	4 19	30 1.42	30 1.42	5 24	4 19	0 0.00	73 3.45	3.52
SE	2 09	43 2.03	37 1.75	9 42	1 05	0 0.00	92 4.34	3.28
SSE	7 33	71 3.35	110 5.19	53 2.50	6 28	0 0.00	247 11.66	3.94
S	5 24	61 2.88	188 8.88	149 7.03	100 4.72	11 52	514 24.27	5.49
SSW	6 28	35 1.65	78 3.68	129 6.09	63 2.97	29 13.05	340 16.05	6.09
SW	4 19	25 1.18	26 1.20	18 85	8 38	6 28	97 4.58	4.69
WSW	4 19	26 1.23	16 76	5 24	0 0.00	2 09	53 2.50	3.27
W	1 09	29 1.37	28 1.32	2 09	1 05	3 14	64 3.02	3.72
WNW	2 09	30 1.42	24 1.13	14 66	2 09	2 09	74 3.49	3.95
WW	5 24	25 1.23	23 1.09	15 71	4 19	0 0.00	73 3.45	3.82
WNW	5 24	24 1.13	37 1.75	35 1.65	7 33	0 0.00	108 5.10	4.49
N	3 14	39 1.84	25 1.18	12 57	7 33	0 0.00	86 4.06	3.70
CALM	1 05						1 05	CALM
TOTAL	67 3.16	549 25.92	759 35.84	482 22.76	208 9.82	53 2.50	2118 100.00	4.58
NUMBER OF VALID OBSERVATIONS 2118								99.06 PCT
NUMBER OF INVALID OBSERVATIONS 40								1.94 PCT
TOTAL NUMBER OF OBSERVATIONS 2160								100.00 PCT

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCESRev. 4
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TABLE 2.3-20 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL JULY COMBINED

WIND SECTOR	ALL WINDS DATA SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.00 METERS TABLE GENERATED: 11/11/81 13:42:02						WOLF CREEK GENERATING STATION BURLINGTON, KANSAS KANSAS GAS AND ELECTRIC DAMES AND MOORE JOB NO. 7899-064	
	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	3	58	32	13	1	0	107	3.34
	13	2.51	1.44	58	04	0.00	4.81	
NE	3	45	33	8	1	0	90	3.33
	13	2.02	1.48	38	04	0.00	4.05	
ENE	6	31	69	16	1	0	143	3.51
	27	2.29	3.10	72	04	0.00	6.43	
E	7	63	74	16	3	2	165	3.58
	31	2.83	3.77	72	13	09	7.42	
ESE	14	64	60	13	1	0	152	3.13
	63	2.88	2.70	58	04	0.00	6.83	
SE	11	79	40	10	4	0	144	3.01
	49	3.55	1.80	45	18	0.00	6.47	
SSE	3	147	106	10	1	0	267	3.06
	13	6.61	4.77	45	04	0.00	12.91	
S	8	109	200	142	34	6	499	4.55
	38	4.90	8.99	6.38	1.53	27	22.44	
SSW	3	43	84	120	9	22	281	5.36
	13	1.93	3.78	5.40	40	99	12.63	
SW	0	20	25	26	1	0	72	4.19
	0.00	90	1.12	1.17	04	0.00	3.24	
WSW	2	10	15	7	0	0	34	3.62
	09	45	67	31	0.00	0.00	1.53	
W	1	25	18	14	0	0	58	3.65
	04	1.12	81	63	0.00	0.00	2.61	
WSW	1	15	17	11	0	0	44	3.95
	04	54	76	49	0.00	0.00	1.84	
WNW	6	10	21	7	0	0	44	3.45
	27	45	94	31	0.00	0.00	1.98	
NNW	5	19	10	5	0	0	39	2.76
	22	85	45	22	0.00	0.00	1.75	
N	6	20	44	15	0	1	86	3.72
	27	95	1.98	67	0.00	04	3.98	
CALM	0	0	0	0	0	0	0	CALM
	0.00						0.00	
TOTAL	79	777	848	433	2.56	31	2224	3.88
	3.55	34.94	38.13	19.47	2.52	1.39	100.00	
NUMBER OF VALID OBSERVATIONS 2224								
NUMBER OF INVALID OBSERVATIONS 8								
TOTAL NUMBER OF OBSERVATIONS 2232								
KEY: XXX NUMBER OF OCCURRENCES								
XXX PERCENT OCCURRENCES								

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL AUGUST COMBINED

WIND SECTOR	ALL WINDS DATA SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.00 METERS TABLE GENERATED: 11/11/81 13:51:50						WOLF CREEK GENERATING STATION BURLINGTON, KANSAS KANSAS GAS AND ELECTRIC DAMES AND MOORE JOB NO. 7899-064	
	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	2	40	26	24	3	1	106	3.73
	45	1.90	1.17	1.08	14	05	4.79	
NE	10	33	29	20	0	0	91	3.43
	45	1.49	1.26	90	0.00	0.00	4.11	
ENE	2	25	36	18	3	0	84	4.00
	09	1.13	1.63	81	14	0.00	3.79	
E	8	36	36	21	2	0	103	3.80
	26	1.63	1.63	95	09	0.00	4.65	
ESE	5	36	38	12	0	0	91	3.36
	23	1.63	1.72	54	0.00	0.00	4.11	
SE	8	96	41	14	0	0	159	3.03
	36	4.34	1.85	63	0.00	0.00	7.18	
SSE	6	143	106	32	5	0	292	3.42
	27	6.46	4.79	1.45	23	0.00	13.19	
S	8	123	240	177	46	0	594	4.61
	26	5.56	10.84	7.99	2.08	0.00	26.83	
SSW	4	25	99	128	20	0	286	5.06
	18	1.98	4.47	5.78	90	0.00	12.92	
SW	9	15	24	19	0	0	67	3.96
	41	68	1.08	86	0.00	0.00	3.03	
WSW	4	15	14	3	2	0	38	3.36
	18	68	63	14	09	0.00	1.72	
W	8	11	9	4	0	0	32	2.89
	26	50	41	18	0.00	0.00	1.45	
WNW	7	23	14	0	1	0	45	2.68
	32	1.04	63	0.00	05	0.00	2.03	
NW	9	19	15	22	10	0	75	4.38
	41	86	80	99	45	0.00	3.39	
NNW	5	18	15	20	1	0	59	4.07
	23	91	68	90	05	0.00	2.66	
N	8	38	33	10	2	1	92	3.43
	36	1.75	1.49	45	09	05	4.16	
CALM	0	0	0	0	0	0	0	CALM
	0.00						0.00	
TOTAL	111	758	774	524	75	2	2214	4.02
	5.01	31.98	34.96	23.97	4.29	09	100.00	
NUMBER OF VALID OBSERVATIONS 2214								
NUMBER OF INVALID OBSERVATIONS 18								
TOTAL NUMBER OF OBSERVATIONS 2232								
KEY: XXX NUMBER OF OCCURRENCES								
XXX PERCENT OCCURRENCES								

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TABLE 2.3-20 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL SEPTEMBER COMBINED

ALL WINDS				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/11/81 13 25 54				DAMES AND MOORE JOB NO. 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)			TOTAL			MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	10	36	26	22	14	0	4.24
	47	1.68	2.61	1.49	65	0.00	6.91
NE	12	65	29	18	0	0	3.09
	56	3.00	1.35	84	0.00	0.00	5.79
ENE	13	40	39	15	0	0	3.21
	61	1.87	1.82	70	0.00	0.00	4.99
E	11	51	42	7	0	0	3.00
	51	2.38	1.96	23	0.00	0.00	5.18
ESE	3	78	48	3	0	0	2.92
	14	3.84	2.24	14	0.00	0.00	6.16
SE	28	114	57	8	1	0	2.66
	131	5.32	2.66	37	0.5	0.00	9.71
SSE	24	135	113	31	3	0	3.20
	112	6.30	5.27	145	14	0.00	14.28
S	27	85	111	77	17	4	4.11
	126	3.97	5.18	3.59	79	19	14.98
SSW	18	49	54	34	9	5	4.00
	81	2.29	2.52	1.59	42	23	7.89
SW	9	39	19	10	0	0	3.06
	42	1.82	89	47	0.00	0.00	3.59
WSW	8	11	3	3	0	0	2.54
	37	51	14	14	0.00	0.00	1.17
W	5	21	8	0	0	0	2.40
	23	98	37	0.00	0.00	0.00	1.59
WSW	6	17	6	0	0	0	2.40
	48	79	28	0.00	0.00	0.00	1.35
W	16	25	12	6	4	0	3.03
	75	1.17	56	28	19	0.00	2.94
WSW	16	33	42	28	5	1	4.02
	75	1.54	1.96	1.31	23	0.5	5.83
N	7	23	69	47	9	2	4.61
	33	1.07	3.22	2.19	42	0.9	7.33
CALM	7						7
	33						33
TOTAL	223	922	708	319	62	12	2143
	10.27	38.36	33.04	14.89	2.89	56	100.00
NUMBER OF VALID OBSERVATIONS 2143				99.21 PCT			
NUMBER OF INVALID OBSERVATIONS 17				.79 PCT			
TOTAL NUMBER OF OBSERVATIONS 2160				100.00 PCT			
KEY: (X) NUMBER OF OCCURRENCES							
(XX) PERCENT OCCURRENCES							

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL OCTOBER COMBINED

ALL WINDS				ON-SITE				WOLF CREEK GENERATING STATION			
DATA SOURCE				WIND SENSOR HEIGHT				BURLINGTON, KANSAS			
TABLE GENERATED				11/11/81 14 57 07				KANSAS GAS AND ELECTRIC			
								DAMES AND MOORE JOB NO. 7699-064			
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED			
NNE	4	42	42	26	7	7	128	4.43			
	18	1.89	1.89	1.17	31	31	5.76				
NE	8	27	21	3	0	0	61	3.14			
	36	1.21	94	22	0.00	0.00	2.74				
ENE	2	20	17	6	0	0	45	3.34			
	09	90	76	27	0.00	0.00	2.02				
E	2	40	28	6	1	0	87	3.41			
	09	1.80	1.71	27	04	0.00	3.91				
ESE	4	36	40	21	5	0	106	4.00			
	18	1.62	1.80	94	22	0.00	4.77				
SE	10	77	45	9	17	2	160	3.77			
	45	3.46	2.02	40	76	09	7.20				
SSE	3	84	97	28	10	1	236	3.87			
	27	3.78	4.36	1.71	45	04	10.62				
S	12	63	143	150	100	38	506	5.92			
	54	2.83	6.43	6.75	4.50	1.71	22.76				
SSW	12	48	45	48	13	18	184	5.09			
	54	2.16	2.02	2.16	58	81	8.28				
SW	8	24	20	24	17	2	111	4.40			
	25	1.53	1.35	1.08	58	09	4.59				
WSW	17	26	14	3	4	0	64	2.77			
	76	1.17	1.3	13	18	0.00	2.88				
W	8	30	20	3	3	0	67	3.11			
	40	1.35	90	22	13	0.00	3.01				
WSW	8	27	22	20	7	0	95	3.90			
	40	1.06	99	90	31	0.00	4.27				
W	8	31	24	9	4	8	112	3.76			
	27	2.94	1.08	40	18	36	5.04				
WSW	1	19	29	34	22	0	115	5.07			
	04	85	1.75	1.53	99	0.00	5.17				
N	5	30	30	46	24	8	143	5.40			
	22	1.35	1.35	2.07	1.08	36	6.43				
CALM	3						3	CALM			
	13						13				
TOTAL	118	974	967	450	230	84	2223	4.54			
	5.21	38.32	38.00	20.24	10.35	3.78	100.00				
NUMBER OF VALID OBSERVATIONS 2223				99.60 PCT							
NUMBER OF INVALID OBSERVATIONS 9				.40 PCT							
TOTAL NUMBER OF OBSERVATIONS 2232				100.00 PCT							
KEY: (X) NUMBER OF OCCURRENCES (XX) PERCENT OCCURRENCES											

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TABLE 2.3-20 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL NOVEMBER COMBINED

WIND SECTOR	ALL WINDS DATA SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.00 METERS TABLE GENERATED: 11/11/81 15 00 46						WOLF CREEK GENERATING STATION BURLINGTON, KANSAS KANSAS GAS AND ELECTRIC DAMES AND MOORE JOB NO. 7699-064	
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	2	17	49	26	24	0	118	5.10
	09	79	228	121	112	0.00	549	
NNE	2	28	42	12	1	0	85	3.59
	09	130	196	56	05	0.00	396	
ENE	3	13	38	8	1	0	63	3.95
	14	61	77	37	05	0.00	293	
E	2	11	24	14	3	0	54	4.20
	09	51	112	65	14	0.00	251	
ESE	4	18	14	11	0	0	47	3.60
	19	84	65	51	0.00	0.00	219	
SE	3	25	25	6	7	1	77	3.68
	14	163	116	28	33	05	398	
SSE	2	60	103	44	19	0	217	4.00
	28	279	480	205	19	0.00	1010	
S	5	77	155	79	53	8	377	4.92
	23	358	722	368	247	37	1755	
SSW	4	32	68	67	19	15	205	5.26
	19	149	317	312	88	70	954	
SW	2	19	29	18	23	12	103	5.87
	09	88	135	84	107	56	480	
WSW	4	28	14	12	7	1	66	4.08
	19	130	65	56	33	05	307	
W	5	29	42	41	6	0	123	4.44
	23	135	196	191	28	0.00	573	
WNW	2	30	63	28	3	0	140	4.18
	28	140	293	177	14	0.00	832	
NW	2	22	50	66	28	14	186	5.56
	28	149	233	307	130	65	912	
NNW	4	15	23	70	36	3	161	5.93
	19	70	154	326	168	14	750	
N	5	20	29	41	22	3	116	5.41
	23	93	116	191	102	14	540	
CALM	0	0	0	0	0	0	0	CALM
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	63	464	774	553	237	57	2148	4.80
	293	2160	3603	2574	1103	265	10000	
NUMBER OF VALID OBSERVATIONS 2148 99.44 PCT								
NUMBER OF INVALID OBSERVATIONS 12 .56 PCT								
TOTAL NUMBER OF OBSERVATIONS 2160 100.00 PCT								
KEY: XXX NUMBER OF OCCURRENCES								
XXX PERCENT OCCURRENCES								

JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL DECEMBER COMBINED

WIND SECTOR	ALL WINDS DATA SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.00 METERS TABLE GENERATED: 11/11/81 15 09 30						WOLF CREEK GENERATING STATION BURLINGTON, KANSAS KANSAS GAS AND ELECTRIC DAMES AND MOORE JOB NO. 7699-064	
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	2	38	32	14	11	8	105	4.58
	09	178	150	66	51	37	491	
NNE	5	32	18	17	1	1	74	3.61
	23	150	84	80	05	05	346	
ENE	3	22	27	8	4	0	64	3.90
	14	103	126	37	19	0.00	299	
E	4	22	26	21	0	1	73	3.96
	19	103	122	98	0.00	0.00	342	
ESE	2	32	40	15	0	0	89	3.68
	09	150	187	70	0.00	0.00	416	
SE	3	43	61	28	0	0	113	3.04
	14	201	285	28	0.00	0.00	529	
SSE	7	45	91	33	3	0	179	3.94
	33	211	426	154	14	0.00	838	
S	5	36	93	71	28	6	239	5.02
	23	168	435	332	131	28	1118	
SSW	4	23	83	78	30	7	225	5.27
	19	108	388	365	140	33	1053	
SW	2	17	36	25	3	3	86	4.61
	09	80	168	117	14	14	402	
WSW	7	13	19	17	6	1	63	4.39
	33	61	99	80	28	05	295	
W	10	22	25	8	4	4	74	3.87
	47	103	117	37	21	19	346	
WNW	7	32	32	20	10	0	101	4.43
	33	103	150	140	47	0.00	473	
NW	4	50	44	58	21	17	194	5.09
	19	234	206	271	98	80	908	
NNW	8	35	64	80	69	12	268	5.94
	37	164	299	374	323	56	1254	
N	2	29	61	40	29	19	190	5.83
	09	136	285	187	182	89	889	
CALM	0	0	0	0	0	0	0	CALM
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	74	481	753	521	230	78	2137	4.79
	351	2251	3519	2438	1076	365	10000	
NUMBER OF VALID OBSERVATIONS 2137 95.74 PCT								
NUMBER OF INVALID OBSERVATIONS 96 4.52 PCT								
TOTAL NUMBER OF OBSERVATIONS 2232 100.00 PCT								
KEY: XXX NUMBER OF OCCURRENCES								
XXX PERCENT OCCURRENCES								

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WCGS-ER(OLS)

TABLE 2.3-21

JOINT WIND FREQUENCY DISTRIBUTION

(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD ALL JANUARY COMBINEDALL WINDS
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/10/81 15 02 03WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-044

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	05	46	137	381	188	122	879	6.99
NE	25	88	142	117	41	00	391	4.69
ENE	05	21	30	40	9	00	101	4.82
E	00	5	17	43	18	1	82	6.03
ESE	10	41	91	122	15	4	271	6.02
SE	10	7	13	16	12	2	55	5.79
SSE	4	4	19	18	26	24	105	7.62
S	00	7	17	50	49	58	181	8.51
SSW	2	36	86	254	249	920	200	8.01
SW	2	10	14	45	28	4	103	6.33
WSW	10	51	71	229	142	20	523	6.33
W	3	16	16	35	11	0	81	5.22
WNW	00	81	173	229	86	4	584	5.65
W	00	7	22	42	21	24	126	7.27
NW	00	36	112	213	158	122	640	7.59
NNW	00	3	29	54	59	23	168	7.59
N	05	15	147	274	300	117	854	7.77
N	05	3	13	47	36	22	122	7.77
N	05	15	56	239	183	112	620	7.49
CALM	2	8	26	55	54	35	179	7.49
CALM	10	41	152	279	274	178	910	7.49
TOTAL	28	139	353	682	496	272	1968	6.95
	1.32	7.06	17.94	34.65	25.20	13.62	100.00	

NUMBER OF VALID OBSERVATIONS 1968
NUMBER OF INVALID OBSERVATIONS 264
TOTAL NUMBER OF OBSERVATIONS 2232KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCESJOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD ALL FEBRUARY COMBINEDALL WINDS
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/10/81 15 33 48WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-044

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	8	28	37	14	18	105	6.81
NE	00	50	173	229	87	111	650	5.53
ENE	1	19	27	23	16	8	94	5.53
E	05	18	167	142	99	50	582	6.00
ESE	00	5	18	21	11	4	59	6.05
E	00	31	111	150	68	25	365	6.05
ESE	1	3	12	29	14	0	59	5.94
SE	05	19	74	179	87	00	365	5.94
SSE	1	2	11	26	8	0	48	5.31
SE	05	12	68	161	50	00	297	5.31
SSE	1	8	17	18	4	7	53	6.60
S	12	50	105	111	25	43	325	6.60
SSW	12	4	14	27	19	7	73	7.75
S	12	25	87	187	118	43	452	7.75
SSW	00	4	20	47	71	29	173	7.83
SW	00	25	124	291	439	179	1071	7.83
SSW	00	3	13	33	40	20	109	6.79
SW	00	19	80	204	248	124	675	6.79
WSW	00	10	23	32	31	10	106	6.79
W	00	62	142	198	192	62	656	6.60
WSW	2	5	11	29	11	10	68	6.60
W	12	31	68	179	68	62	421	6.60
WNW	2	3	24	30	8	4	75	5.60
W	25	31	149	186	50	25	464	5.60
WNW	00	12	17	25	16	2	72	5.69
NW	00	74	105	155	99	12	445	5.69
NNW	1	5	20	26	23	19	94	7.51
N	05	31	124	181	142	118	582	7.51
NNW	00	7	25	42	44	61	179	8.70
N	00	43	155	260	272	377	1108	8.70
N	15	4	39	77	47	78	247	8.42
CALM	15	25	241	476	291	483	1528	8.42
CALM	10	41	152	279	274	178	910	8.42
TOTAL	33	104	319	522	377	274	1616	7.13
	1.24	6.94	19.74	32.50	23.33	16.96	100.00	

NUMBER OF VALID OBSERVATIONS 1616
NUMBER OF INVALID OBSERVATIONS 324
TOTAL NUMBER OF OBSERVATIONS 1940KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCESRev. 4
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WCGS-ER(OLS)

TABLE 2.3-21 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD ALL MARCH COMBINED

ALL WINDS				ON-SITE				WOLF CREEK GENERATING STATION			
DATA SOURCE				BURLINGTON, KANSAS				KANSAS GAS AND ELECTRIC			
WIND SENSOR HEIGHT				60.00 METERS				DAMES AND MOORE JOB NO. 7699-064			
TABLE GENERATED				11/10/81 13 47 44							
WIND SECTOR	WIND SPEED CATEGORIES			METERS PER SECOND				TOTAL	MEAN SPEED		
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0					
NNE	2	7	16	69	30	26	167	7.37			
	0.9	32	74	3.05	2.31	1.20	7.72				
NE	4	9	33	19	16	2	83	5.32			
	1.8	42	1.53	88	74	.09	3.84				
ENE	2	10	23	17	9	5	66	5.46			
	0.6	46	1.06	79	42	23	3.05				
E	2	11	17	26	25	11	92	6.70			
	0.8	51	79	1.20	1.16	.51	4.25				
ESE	1	11	14	37	15	23	101	7.13			
	0.5	51	65	1.71	.69	1.06	4.87				
SE	2	9	20	49	46	26	152	7.54			
	0.9	42	92	2.27	2.13	1.20	7.03				
SSE	1	9	29	36	46	26	147	7.43			
	0.5	42	1.34	1.66	2.13	1.20	6.80				
S	0	4	15	70	114	115	318	9.11			
	0.00	18	69	3.24	5.27	5.32	14.70				
SSW	2	18	27	38	52	72	195	8.75			
	0.9	18	1.25	1.78	2.40	3.33	9.02				
SW	1	7	15	29	15	15	82	6.95			
	0.5	32	19	1.34	.69	.69	3.79				
WSW	1	8	14	21	10	5	59	6.06			
	0.5	37	65	97	46	23	2.73				
W	6	9	22	10	10	8	65	6.02			
	2.8	42	1.02	46	46	37	3.01				
WNW	0	3	7	22	18	18	68	9.22			
	0.00	14	32	1.02	83	83	3.14				
NW	1	2	18	37	32	37	128	8.45			
	0.5	14	63	1.71	1.48	1.71	5.92				
NNW	0	2	14	53	77	88	234	9.45			
	0.00	0.9	65	2.45	3.56	4.07	10.82				
N	3	2	28	73	63	37	206	7.53			
	1.4	0.9	1.29	3.37	2.91	1.71	9.52				
CALM	0						0	CALM			
	0.00						0.00				
TOTAL	28	108	312	603	598	514	2163	7.86			
	1.29	4.99	14.42	27.88	27.65	23.76	100.00				
NUMBER OF VALID OBSERVATIONS 2163				96.91 PCT							
NUMBER OF INVALID OBSERVATIONS 45				2.09 PCT							
TOTAL NUMBER OF OBSERVATIONS 2208				100.00 PCT							

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCESJOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD ALL APRIL COMBINED

ALL WINDS				ON-SITE				WOLF CREEK GENERATING STATION				
DATA SOURCE				BURLINGTON, KANSAS				KANSAS GAS AND ELECTRIC				
WIND SENSOR HEIGHT				60.00 METERS				DAMES AND MOORE JOB NO. 7699-064				
TABLE GENERATED				11/11/81 10 37 57								
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED				
NNE	0	19	16	36	29	9	94	7.04				
NE	2	52	38	34	4	0	89	4.89				
ENE	3	14	15	28	15	2	63	6.24				
E	2	09	12	37	39	7	99	7.03				
ESE	0	4	17	46	41	17	125	7.51				
SE	0	09	52	1.28	4.44	2.08	8.41	8.72				
SSE	0	09	7	48	102	104	263	9.74				
S	0	09	14	66	5.25	6.71	15.69	9.82				
SSW	2	09	15	40	70	46	174	8.58				
SW	2	09	11	25	28	27	93	8.69				
WSW	0	24	28	66	43	80	2.41	7.77				
W	0	19	18	29	18	7	72	6.59				
WNW	2	09	14	57	57	15	73	7.80				
NW	0	14	11	20	44	44	123	8.56				
NNW	0	09	16	76	1.80	55	126	7.64				
N	1	35	10	47	42	42	147	8.39				
CALM	0	0.00	0.00	0.00	0.00	0.00	0.00	CALM				
TOTAL	9	55	233	554	727	538	2116	8.32				
NUMBER OF VALID OBSERVATIONS 2116								97.96 PCT				
NUMBER OF INVALID OBSERVATIONS 44								2.04 PCT				
TOTAL NUMBER OF OBSERVATIONS 2160								100.00 PCT				

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCESRev. 4
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WCGS-ER(OLS)

TABLE 2.3-21 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL MAY COMBINED

ALL WINDS ON-SITE
DATA SOURCE: 60.00 METERS
11/1/79 10 41 53
TABLE GENERATED: 7699-064

WOLF CREEK GENERATING STATION
DURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0.0	2.3	1.43	2.07	1.75	18	5.36	6.91
NE	0.0	1.5	5.3	1.68	11	0.0	5.30	4.88
ENE	0.0	1.1	1.43	1.98	1.34	5	5.57	6.04
E	0.0	3.2	1.29	2.21	1.34	5	5.44	6.28
ESE	0.0	2.8	1.29	2.44	1.47	14	5.21	6.37
SE	0.0	3	1.68	3.39	1.39	11	7.88	6.46
SSE	0.0	4.1	1.75	2.44	2.44	15	7.79	6.68
S	0.0	1.3	1.43	4.42	187	154	483	8.95
SSW	0.0	2.8	1.29	2.17	3.18	84	10.45	8.97
SW	0.0	3	1.5	1.24	14	12	7.5	6.78
WSW	0.0	4.1	1.75	1.46	32	0.0	1.57	5.34
W	0.0	1.0	1.11	1.4	0.0	0.0	2.35	4.32
WNW	0.0	4	1.0	1.3	4	2	34	5.55
NW	0.0	7	1.1	1.43	12	4	3.65	6.16
WNW	0.0	3	1.2	2.44	1.34	2	5.25	6.53
N	0.0	7	1.4	2.21	2.30	1.01	5.59	7.49
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CALM
TOTAL	20	119	399	685	609	338	2170	7.19

NUMBER OF VALID OBSERVATIONS 2170
NUMBER OF INVALID OBSERVATIONS 64
TOTAL NUMBER OF OBSERVATIONS 2232

97.22 PCT
2.78 PCT
100.00 PCT

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNW	0.0	1.0	1.28	1.79	1.71	4	4.95	5.80
NNE	0.0	4.7	1.32	1.79	1.71	19	4.47	4.28
NE	0.0	9	4.6	1.4	0.0	1	3.53	4.80
ENE	0.0	4.2	2.16	6.6	0.0	0	3.43	5.57
E	0.0	8	1.65	1.03	28	14	2.82	5.53
ESE	0.0	9	1.7	1.08	38	9	3.53	5.57
SE	0.0	4.2	1.18	1.79	42	14	4.00	6.83
SSE	0.0	7	1.30	2.68	2.92	10	7.81	8.12
S	0.0	18	1.46	1.63	197	115	527	8.18
SSW	0.0	14	1.46	7.67	9.27	5.41	24.79	7.19
SW	0.0	3	1.93	4.75	7.53	4.19	18.81	5.69
WSW	0.0	4	1.18	2.12	1.60	22	1.32	5.37
W	0.0	19	1.18	1.13	14	24	3.06	6.25
WNW	0.0	8	1.14	1.35	11	4	6.7	6.45
NW	0.0	1	1.4	1.65	52	19	3.15	6.84
NNW	0.0	2	1.3	1.13	13	4	58	6.81
N	0.0	4	1.3	2.26	21	9	4.32	6.84
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CALM
TOTAL	24	114	401	724	585	278	2126	6.98

NUMBER OF VALID OBSERVATIONS 2126
NUMBER OF INVALID OBSERVATIONS 104
TOTAL NUMBER OF OBSERVATIONS 2230

98.43 PCT
4.75 PCT
100.00 PCT

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WCGS-ER(OLS)

TABLE 2.3-21 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL JULY COMBINED

ALL WINDS			ON-SITE			WOLF CREEK GENERATING STATION		
DATA SOURCE			SENSOR HEIGHT			SURLINGTON, KANSAS		
FABRY GENERATED			11/11/81 13.42.02			KANSAS GAS AND ELECTRIC		
						DAMES AND MOORE JOB NO. 7697-064		
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)		PERCENT		TOTAL		MEAN SPEED	
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	0	3	10	49	19	14	95	7.25
	0.00	14	47	2.30	89	66	4.46	
NE	0	5	19	40	7	0	67	5.24
	0.00	23	89	1.88	14	0.00	3.15	
ENE	1	8	31	60	17	4	121	5.93
	0.05	38	1.46	2.82	80	19	5.69	
E	2	14	39	85	31	3	174	5.86
	0.09	66	83	3.99	1.46	14	8.18	
ESE	2	21	45	31	27	4	130	5.36
	0.09	99	2.11	1.46	1.20	19	6.11	
SE	1	8	34	61	23	4	131	5.95
	0.05	38	1.60	2.87	1.08	19	6.16	
SSE	0	13	43	85	37	1	179	5.94
	0.00	61	2.02	3.99	1.74	05	8.41	
S	0	17	44	126	149	49	523	7.13
	0.00	80	2.07	12.50	7.00	2.30	24.67	
SSW	1	11	34	152	113	27	338	7.19
	0.05	52	1.60	7.14	5.31	1.27	15.88	
SW	2	5	25	51	31	3	117	6.09
	0.09	23	1.17	2.87	99	14	5.50	
WSW	0	2	12	21	10	0	45	6.04
	0.00	09	56	99	47	0.00	2.11	
W	1	3	11	14	13	2	47	5.89
	0.05	28	52	66	61	09	2.21	
WNW	0	3	10	10	13	0	36	6.21
	0.00	14	47	47	61	0.00	1.69	
NW	2	3	7	15	10	0	37	5.91
	0.09	14	33	70	47	0.00	1.74	
NNW	4	1	4	13	3	1	26	5.18
	0.19	05	19	61	14	05	1.22	
N	1	3	8	28	13	7	60	6.86
	0.05	14	38	1.32	61	33	2.82	
CALM	0						0	CALM
	0.00						0.00	
TOTAL	17	123	376	991	502	119	2128	6.46
	80	5.79	17.67	46.57	23.59	5.59	100.00	
NUMBER OF VALID OBSERVATIONS 2128				95.34 PCT				
NUMBER OF INVALID OBSERVATIONS 104				4.66 PCT				
TOTAL NUMBER OF OBSERVATIONS 2232				100.00 PCT				
KEY: ### NUMBER OF OCCURRENCES								
### PERCENT OCCURRENCES								

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	2 0.09	3 23	10 1.22	49 1.64	19 81	14 23	95 4.02	5.95
NE	1 0.05	11 51	23 1.54	38 1.78	2 09	0 0	87 4.07	4.97
ENE	1 0.05	7 33	28 1.21	47 2.20	9 42	1 05	93 4.35	5.61
E	3 0.14	9 42	21 98	43 2.01	18 84	4 19	98 4.59	5.88
ESE	1 0.05	8 37	17 60	28 1.31	11 51	2 09	67 3.14	5.75
SE	1 0.05	14 66	25 1.64	53 2.48	24 1.12	5 23	132 6.18	5.87
SSE	1 0.05	12 56	40 1.87	91 4.26	43 2.01	24 1.12	211 9.87	6.75
S	1 0.05	11 51	60 2.81	229 10.72	143 6.69	147 6.88	591 27.66	7.86
SSW	1 0.05	3 14	20 2.34	181 8.47	76 3.56	48 2.25	359 16.80	7.20
SW	2 0.23	14 66	46 2.15	37 1.73	20 94	6 28	128 5.99	5.48
WSW	0 0.00	7 33	10 47	8 37	3 28	0 0.00	31 1.45	5.06
W	1 0.05	9 42	12 56	9 42	3 14	1 05	35 1.64	4.68
WNW	2 0.09	7 33	8 37	11 51	2 09	1 05	31 1.45	5.04
NW	2 0.09	4 19	13 61	12 56	11 51	4 19	46 2.15	6.22
NNW	1 0.05	5 23	14 66	28 1.31	11 51	4 19	63 2.95	6.17
N	2 0.09	7 33	20 94	33 1.54	10 47	7 33	79 3.70	5.99
CALM	0 0.00						0 0.00	CALM
TOTAL	25 1.17	123 6.22	403 20.26	983 41.32	402 19.81	261 12.21	2137 100.00	6.64
NUMBER OF VALID OBSERVATIONS 2137 95.74 PCT								
NUMBER OF INVALID OBSERVATIONS 104 4.26 PCT								
TOTAL NUMBER OF OBSERVATIONS 2232 100.00 PCT								
KEY: ### NUMBER OF OCCURRENCES								
### PERCENT OCCURRENCES								

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WCGS-ER(OLS)

TABLE 2.3-21 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL SEPTEMBER CONTINUED

ALL WINDS
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 1/11/81 13 56 54

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-046

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	4	3	28	33	35	22	127	7.04
	19	24	1.35	1.57	1.56	1.05	6.04	
NE	1	19	29	34	8	1	102	4.85
	05	90	1.85	1.62	.38	.05	4.85	
ENE	0	12	21	30	32	8	103	6.57
	0.00	57	1.00	1.43	1.52	.38	4.90	
E	0	11	24	55	26	3	118	6.04
	0.00	52	1.14	2.57	1.24	.14	5.61	
ESE	0	15	31	54	14	0	114	5.45
	0.00	71	1.47	2.57	.67	0.00	5.42	
SE	4	18	50	104	29	9	214	5.76
	19	84	2.38	4.95	1.38	.43	10.18	
SSE	4	20	61	106	49	24	244	6.30
	19	83	2.80	5.04	2.33	1.14	12.55	
S	0	27	85	145	69	44	375	6.49
	10	1.26	4.18	6.89	3.38	2.09	17.83	
SSW	3	24	50	69	22	8	178	5.64
	34	1.14	2.38	3.28	1.05	.38	8.46	
SW	0	20	32	34	5	0	91	4.81
	0.00	95	1.92	1.62	.24	0.00	4.33	
WSW	0	11	16	7	2	0	37	3.99
	05	52	76	33	10	0.00	1.76	
W	4	13	22	3	2	0	44	3.46
	19	64	1.05	.14	.10	0.00	2.09	
WNW	1	5	11	4	1	0	23	3.94
	05	29	.52	.19	.05	0.00	1.09	
NW	2	11	16	19	8	3	59	5.34
	10	52	76	70	.38	.14	2.81	
NNW	2	7	12	44	25	2	92	6.28
	10	33	57	2.09	1.19	.10	4.37	
N	2	12	8	60	54	24	160	7.36
	10	57	38	2.05	2.57	1.14	7.91	
CALM	2						2	CALM
	10						10	
TOTAL	34	231	509	802	381	148	2103	6.01
	1.62	10.98	24.20	38.04	18.12	7.04	100.00	

NUMBER OF VALID OBSERVATIONS 2103
NUMBER OF INVALID OBSERVATIONS 27
TOTAL NUMBER OF OBSERVATIONS 2130

97.36 PCT
2.64 PCT
100.00 PCT

KEY: ### NUMBER OF OCCURRENCES
PERCENT OCCURRENCES

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	0	7	13	29	23	7	81	6.82
	0.00	35	65	1.44	1.25	.35	4.04	
NE	0	8	23	13	0	0	46	4.47
	0.00	40	1.15	.75	0.00	0.00	2.29	
ENE	1	3	22	24	9	0	59	5.47
	05	15	1.10	1.20	.45	0.00	2.94	
E	2	4	19	20	24	1	70	6.14
	10	20	.95	1.00	1.20	.05	3.49	
ESE	4	0	27	29	28	10	98	6.70
	20	0.00	1.35	1.44	1.40	.50	4.88	
SE	0	7	50	50	29	29	131	7.68
	0.00	35	.85	2.49	1.40	1.44	6.53	
SSE	1	8	23	64	68	35	199	7.83
	05	40	1.15	3.19	3.39	1.74	9.92	
S	4	6	29	134	122	121	479	8.70
	20	30	1.94	6.68	8.22	6.53	23.37	
SSW	4	12	28	69	46	19	178	6.89
	20	60	1.40	3.44	2.29	.95	8.87	
SW	1	6	31	29	14	12	93	6.32
	05	30	1.54	1.44	.70	.60	4.63	
WSW	1	5	27	23	2	3	61	5.10
	05	25	1.35	1.15	.10	.15	3.04	
W	0	9	19	14	9	8	59	6.02
	0.00	45	.95	.70	.45	.40	2.94	
WNW	0	7	21	25	29	10	92	6.88
	0.00	35	1.05	1.25	1.44	.50	4.58	
NW	1	4	19	30	34	14	102	7.40
	05	20	.95	1.49	1.69	.70	5.08	
NNW	0	10	13	31	37	17	100	7.59
	0.00	100	.85	1.54	1.84	.85	4.98	
N	2	4	10	39	58	44	158	8.46
	15	20	.50	1.94	2.89	2.19	7.87	
CALM	1						1	CALM
	05						.05	
TOTAL	23	92	351	625	576	340	2007	7.40
	1.15	4.58	17.49	21.14	28.70	16.94	100.00	

NUMBER OF VALID OBSERVATIONS 2007
NUMBER OF INVALID OBSERVATIONS 123
TOTAL NUMBER OF OBSERVATIONS 2130

89.92 PCT
10.08 PCT
100.00 PCT

KEY: ### NUMBER OF OCCURRENCES
PERCENT OCCURRENCES

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TABLE 2.3-21 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION
DATA PERIOD: ALL NOVEMBER COMBINED

ALL WINDS				WOLF CREEK GENERATING STATION				
DATA SOURCE: ON-SITE				BURLINGTON, KANSAS				
WIND SAVER WINDT 60.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED: 11/11/81 15.00 46				DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES			SECOND			TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	2	6	25	36	35	21	125	7.04
	09	28	117	168	163	98	583	
NE	1	7	32	39	4	0	83	5.00
	09	33	149	182	19	0.00	387	
ENE	1	5	9	19	18	10	62	6.98
	05	23	42	89	84	47	289	
E	1	1	10	20	18	4	54	6.94
	05	05	47	93	84	19	252	
ESE	2	6	3	21	6	6	46	6.61
	09	28	14	98	27	28	215	
SE	0	3	14	25	18	6	68	6.69
	0.00	23	63	117	84	28	317	
SSE	0	2	22	65	56	40	185	7.91
	0.00	09	103	303	261	187	862	
S	3	8	47	130	120	76	384	7.87
	14	37	219	607	560	355	1792	
SSW	1	5	18	92	63	49	228	7.89
	05	23	84	429	294	229	1064	
SW	0	5	17	33	35	20	112	7.52
	09	28	79	154	163	93	527	
WSW	0	2	17	26	25	4	75	6.58
	0.00	14	79	121	117	19	350	
W	1	3	20	49	44	8	125	7.04
	05	14	93	229	205	37	583	
WSW	0	4	14	34	50	5	127	7.08
	0.00	19	65	252	233	23	593	
WNW	0	2	8	32	69	46	179	8.67
	09	28	37	243	322	215	835	
WNW	2	3	10	50	64	50	179	8.49
	09	14	47	233	299	233	835	
N	2	6	15	26	47	13	109	7.53
	09	28	70	121	219	61	509	
CALM	1						1	CALM
	05						05	
TOTAL	21	72	281	737	674	358	2143	7.54
	88	306	1311	3439	3145	1671	10000	
NUMBER OF VALID OBSERVATIONS				2143	99.21 PCT			
NUMBER OF INVALID OBSERVATIONS				17	0.79 PCT			
TOTAL NUMBER OF OBSERVATIONS				2160	100.00 PCT			
KEY: XXX NUMBER OF OCCURRENCES XXX PERCENT OCCURRENCES								

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	2 09	11 51	25 117	15 70	21 98	24 112	98 458	7.26
NE	1 05	15 75	23 107	41 192	9 42	1 05	91 425	5.30
ENE	1 05	11 51	9 42	21 98	15 70	2 09	59 276	5.85
E	3 14	9 42	9 42	17 79	7 33	0 0.00	45 210	4.92
ESE	1 05	7 33	13 61	23 107	22 103	3 14	69 322	6.37
SE	3 14	4 19	17 79	38 178	21 98	3 14	86 402	6.25
SSE	0 09	5 23	24 112	70 327	60 280	1 05	162 757	6.84
S	0 0.00	3 14	26 121	78 364	109 509	66 308	282 1318	8.32
SSW	0 09	5 23	17 79	76 355	95 444	53 248	248 1159	8.11
SW	0 14	5 23	19 89	53 248	21 98	11 51	112 523	6.54
WSW	0 0.00	6 28	19 89	21 98	7 33	8 37	61 285	6.14
W	0 09	5 23	11 51	21 98	7 33	4 19	50 234	6.07
WNW	0 09	7 33	12 55	42 196	33 154	14 65	110 514	7.14
WN	0 09	8 37	21 98	55 257	39 238	176 182	272 822	7.92
W	0 09	13 61	16 75	92 430	86 402	63 294	272 1271	7.99
N	1 05	10 47	19 136	35 282	55 257	66 308	217 1014	8.24
CALM	0 09						0 09	CALM
TOTAL	27 105	125 584	490 1355	719 3360	619 2893	358 1673	2140 10000	7.36
NUMBER OF VALID OBSERVATIONS				2140	95.88 PCT			
NUMBER OF INVALID OBSERVATIONS				96	4.12 PCT			
TOTAL NUMBER OF OBSERVATIONS				2236	100.00 PCT			
KEY: XXX NUMBER OF OCCURRENCES XXX PERCENT OCCURRENCES								

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: THREE YEARS COMBINED

STABILITY CLASS PASQUILL C					WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE					BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 10 00 METERS					KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/05/81 13 14 50					DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES: METERS PER SECOND				TOTAL				MEAN SPEED
	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0			
NNE	00	14	25	26	21	2	5 09	5.65	
NE	00	24	10	17	11	0	5 07	3.90	
ENE	00	22	10	13	08	0	5 08	4.25	
E	00	22	10	13	08	0	5 08	4.40	
ESE	00	22	10	13	08	0	5 08	4.31	
SE	00	22	10	13	08	0	5 08	4.73	
SSE	00	22	10	13	08	0	5 08	5.04	
S	00	22	10	13	08	0	5 08	5.06	
SSW	00	22	10	13	08	0	5 08	6.21	
SW	00	22	10	13	08	0	5 08	5.71	
WSW	00	22	10	13	08	0	5 08	4.46	
W	00	22	10	13	08	0	5 08	4.30	
WNW	00	22	10	13	08	0	5 08	5.10	
NW	00	22	10	13	08	0	5 08	6.69	
NNW	00	22	10	13	08	0	5 08	6.03	
N	00	22	10	13	08	0	5 08	6.53	
CALM	00	22	10	13	08	0	5 08	CALM	
TOTAL	11	12	29	35	15	5	149	5.63	

KEY: 111 NUMBER OF OCCURRENCES
 111 PERCENT OCCURRENCES THIS CLASS
 111 PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: THREE YEARS COMBINED

STABILITY CLASS PASQUILL D					WOLF CREEK GENERATING STATION					
DATA SOURCE ON-SITE					BURLINGTON, KANSAS					
WIND SENSOR HEIGHT 10.00 METERS					KANSAS GAS AND ELECTRIC					
TABLE GENERATED 11/05/81 13 14 50					DAMES AND MOORE JOB NO. 7699-064					
WIND SECTOR	WIND SPEED CATEGORIES: METERS PER SECOND								TOTAL	MEAN SPEED
	0-1-5	1.5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0				
NNE	18 24 07	99 40 07	206 22 84	168 2 89	79 1 32	17 22 07	587 7 2	5.06		
NE	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
ENE	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
E	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
ESE	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
SE	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
SSE	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
S	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
SSW	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
SW	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
WSW	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
W	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
WNW	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
NW	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
NNW	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
N	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
CALM	18 07	102 40	217 84	91 2	18 32	2 07	407 2 40	4.15		
TOTAL	1175	494	2230	1079	360	7576	5.32			

KEY: 111 NUMBER OF OCCURRENCES
 111 PERCENT OCCURRENCES THIS CLASS
 111 PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD THREE YEARS COMBINED

STABILITY CLASS PASQUILL E		WOLF CREEK GENERATING STATION	
DATA SOURCE	ON-SITE	BURLINGTON, KANSAS	
WIND SENSOR HEIGHT	10.00 METERS	KANSAS GAS AND ELECTRIC	
TABLE GENERATED	11/05/81 13 14 50	DAMES AND MOORE JOB NO.	7699-064
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)		
0-1 5	1-5 3 0	3-5 0 5 0	5-7 5 7 5-10 0 >10 0
000	1 01 79 39 6 7		201 4 18
001	1 01 79 39 6 7		3 44
002	1 01 79 39 6 7		2 62
003	1 01 79 39 6 7		2 79
004	1 01 79 39 6 7		3 04
005	1 01 79 39 6 7		3 40
006	1 01 79 39 6 7		4 19
007	1 01 79 39 6 7		4 02
008	1 01 79 39 6 7		3 91
009	1 01 79 39 6 7		4 27
010	1 01 79 39 6 7		3 34
011	1 01 79 39 6 7		5 20
012	1 01 79 39 6 7		3 85
013	1 01 79 39 6 7		3 54
014	1 01 79 39 6 7		3 49
015	1 01 79 39 6 7		3 69
016	1 01 79 39 6 7		3 95
017	1 01 79 39 6 7		4 22
018	1 01 79 39 6 7		4 07
019	1 01 79 39 6 7		CALM
TOTAL	1415 2292 1457 356 106		1948 4 42

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD THREE YEARS COMBINED

STABILITY CLASS PASQUILL F		WOLF CREEK GENERATING STATION	
DATA SOURCE	ON-SITE	BURLINGTON, KANSAS	
WIND SENSOR HEIGHT	10.00 METERS	KANSAS GAS AND ELECTRIC	
TABLE GENERATED	11/05/81 13 14 50	DAMES AND MOORE JOB NO.	7699-064
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)		
0-1 5	1-5 3 0	3-5 0 5 0	5-7 5 7 5-10 0 >10 0
000	1 01 79 39 6 7		3 130 2 84
001	1 01 79 39 6 7		3 53 2 53
002	1 01 79 39 6 7		3 153 2 75
003	1 01 79 39 6 7		4 147 3 03
004	1 01 79 39 6 7		5 189 2 97
005	1 01 79 39 6 7		5 188 2 78
006	1 01 79 39 6 7		10 337 3 05
007	1 01 79 39 6 7		17 71 3 32
008	1 01 79 39 6 7		2 438 3 22
009	1 01 79 39 6 7		3 101 2 68
010	1 01 79 39 6 7		3 101 2 45
011	1 01 79 39 6 7		3 101 2 63
012	1 01 79 39 6 7		4 143 2 96
013	1 01 79 39 6 7		5 164 2 58
014	1 01 79 39 6 7		3 115 2 74
015	1 01 79 39 6 7		3 115 3 04
016	1 01 79 39 6 7		CALM
TOTAL	4160 3130 1145 3 0 0		102 2 93

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD THREE YEARS COMBINED

STABILITY CLASS PASQUILL G				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/05/81 13 14 50				DAMES AND MOORE JOB NO 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)				TOTAL	MEAN SPEED	
0-1 5	1 5-3 0	3 0-5 0	5 0-7 5	7 5-10 0	>10 0		
NNE	14 0.3	105 4.69	2 0.9	1 0.4	0 0.00	177 2.75	
N	7 0.3	43 1.8	1 0.4	0 0.00	0 0.00	72 2.54	
NNE	1 0.04	2 0.09	1 0.4	0 0.00	0 0.00	4 2.86	
E	1 0.04	1 0.04	1 0.4	0 0.00	0 0.00	3 2.86	
ESE	3 0.13	2 0.8	2 0.8	0 0.00	0 0.00	5 2.58	
SE	1 0.04	7 2.9	2 0.8	0 0.00	0 0.00	11 2.56	
SSE	1 0.04	8 3.2	5 2.0	0 0.00	0 0.00	14 2.74	
S	1 0.04	5 2.0	3 1.2	0 0.00	0 0.00	11 2.71	
SSW	1 0.04	2 0.8	1 0.4	0 0.00	0 0.00	4 2.43	
SW	1 0.04	1 0.4	1 0.4	0 0.00	0 0.00	2 2.07	
WSW	1 0.04	1 0.4	1 0.4	0 0.00	0 0.00	2 1.89	
W	1 0.04	1 0.4	1 0.4	0 0.00	0 0.00	2 2.01	
WSW	1 0.04	3 1.2	0 0.00	0 0.00	0 0.00	4 2.06	
W	1 0.04	3 1.2	0 0.00	0 0.00	0 0.00	4 2.08	
WNW	1 0.04	2 0.8	1 0.4	0 0.00	0 0.00	4 2.53	
N	1 0.04	2 0.8	1 0.4	0 0.00	0 0.00	4 2.58	
CALM	1 0.04	1 0.4	1 0.4	0 0.00	0 0.00	2 CALM	
TOTAL	31 1.3	1287 52.3	20 8.3	0 0.00	0 0.00	2207 9.15	

KEY	114 NUMBER OF OCCURRENCES
	114 PERCENT OCCURRENCES THIS CLASS
	114 PERCENT OCCURRENCES ALL CLASSES

KEY *** NUMBER OF OCCURRENCES
 *** PERCENT OCCURRENCES THIS CLASS
 *** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD THREE YEARS COMBINED

ALL CLASSES		ON-SITE		WOLF CREEK GENERATING STATION			
DATA SOURCE		BURLINGTON, KANSAS		KANSAS GAS AND ELECTRIC			
WIND SENSOR HEIGHT		10.00 METERS		DAMES AND MOORE JOB NO. 7699-064			
TABLE GENERATED		11/05/81 13 14 50					
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1 5	1 5-3 0	3 0-5 0	5 0-7 5	7 5-10 0	>10 0	
NNE	55 2.2	378 1.55	494 2.02	311 1.27	132 0.54	30 0.12	1400 5.73
NE	71 2.9	409 1.67	392 1.60	145 0.59	28 0.11	3 0.01	1048 4.29
ENE	84 3.4	301 1.23	384 1.57	138 0.56	26 0.11	1 0.00	914 3.65
E	50 2.0	332 1.34	454 1.86	175 0.72	26 0.11	11 0.04	1065 4.36
ESE	46 1.9	381 1.56	446 1.82	199 0.81	43 0.18	24 0.10	1139 4.66
SE	87 3.5	616 2.52	504 2.18	217 0.89	63 0.26	14 0.06	1531 6.26
SSE	69 2.8	825 3.37	1060 4.34	472 1.93	111 0.45	35 0.14	2572 10.52
S	53 2.1	658 2.69	1446 5.91	1285 5.26	686 2.81	229 0.94	4397 17.99
SSW	82 3.3	338 1.38	683 2.79	822 3.36	367 1.50	186 0.76	2478 10.14
SW	55 2.2	254 1.04	288 1.18	198 0.81	94 0.38	48 0.20	937 3.83
WSW	75 3.0	212 0.87	148 0.6	90 0.37	44 0.18	12 0.06	601 2.46
W	75 3.0	258 1.06	266 1.07	137 0.56	43 0.18	14 0.06	796 3.26
WSW	57 2.3	274 1.12	302 1.24	206 0.84	58 0.24	30 0.12	937 3.83
NW	73 3.0	343 1.40	347 1.42	367 1.50	187 0.76	82 0.34	1399 5.72
WNW	59 2.4	267 1.09	407 1.66	525 2.15	284 1.16	61 0.25	1633 6.56
N	60 2.5	310 1.27	527 2.16	457 1.87	206 0.84	54 0.22	1633 6.56
CALM	1 0.04	1 0.4	1 0.4	1 0.4	1 0.4	1 0.4	7 0.07
TOTAL	1117 4.57	6126 25.18	3199 13.1	5745 23.50	3399 13.91	934 3.41	24448 100.00
NUMBER OF VALID OBSERVATIONS 24448				92.94 PCT			
NUMBER OF 10 MIN OBSERVATIONS 1876				7.26 PCT			
TOTAL NUMBER OF OBSERVATIONS 26304				100.00 PCT			
KEY *** NUMBER OF OCCURRENCES							
*** PERCENT OCCURRENCES							

NUMBER OF VALID OBSERVATIONS 24448
 NUMBER OF TOTAL OBSERVATIONS 25000
 TOTAL NUMBER OF OBSERVATIONS 26304

KEY *** NUMBER OF OCCURRENCES
 *** PERCENT OCCURRENCES

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WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

WIND SECTOR	WIND SPEED CATEGORIES METERS PER SECOND					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0		
NNE				14	1	15	4.49
NE				17	1	18	4.91
ENE				14	1	15	4.42
E				14	1	15	4.99
ESE				14	1	15	5.70
SE				14	1	15	5.99
SSE				14	1	15	5.47
S				14	1	15	7.25
SSW				14	1	15	7.78
SW				14	1	15	7.19
WSW				14	1	15	5.57
W				14	1	15	5.02
WNW				14	1	15	5.08
NW				14	1	15	7.23
NNW				14	1	15	6.56
N				14	1	15	5.91
CALM				14	1	15	CALM
TOTAL	1.04	7.57	181	317	195	96	6.64

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

WIND SECTOR	WIND SPEED CATEGORIES METERS PER SECOND					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0		
NNE				11	1	12	4.47
NE				11	1	12	3.43
ENE				11	1	12	4.22
E				11	1	12	6.28
ESE				11	1	12	4.79
SE				11	1	12	4.10
SSE				11	1	12	5.31
S				11	1	12	6.37
SSW				11	1	12	6.57
SW				11	1	12	6.23
WSW				11	1	12	5.08
W				11	1	12	3.63
WNW				11	1	12	4.50
NW				11	1	12	6.53
NNW				11	1	12	6.69
N				11	1	12	5.43
CALM				11	1	12	CALM
TOTAL	1.04	7.57	181	317	195	96	5.60

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

STABILITY CLASS: PASQUILL C

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.00 METERS

TABLE GENERATED: 11/04/81 11 55 32

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO.

7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	5.64
NE	00	00	00	00	00	00	00	3.74
ENE	00	00	00	00	00	00	00	4.45
E	00	00	00	00	00	00	00	4.82
ESE	00	00	00	00	00	00	00	4.46
SE	00	00	00	00	00	00	00	3.96
SSE	00	00	00	00	00	00	00	5.32
S	00	00	00	00	00	00	00	5.95
SSW	00	00	00	00	00	00	00	6.19
SW	00	00	00	00	00	00	00	5.97
WSW	00	00	00	00	00	00	00	4.32
W	00	00	00	00	00	00	00	4.04
WSW	00	00	00	00	00	00	00	5.03
NW	00	00	00	00	00	00	00	6.04
NNW	00	00	00	00	00	00	00	5.84
N	00	00	00	00	00	00	00	6.14
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	5.51

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

STABILITY CLASS: PASQUILL D

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.00 METERS

TABLE GENERATED: 11/04/81 11 55 32

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO.

7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	5.01
NE	00	00	00	00	00	00	00	3.94
ENE	00	00	00	00	00	00	00	4.52
E	00	00	00	00	00	00	00	4.00
ESE	00	00	00	00	00	00	00	4.07
SE	00	00	00	00	00	00	00	4.36
SSE	00	00	00	00	00	00	00	5.40
S	00	00	00	00	00	00	00	6.46
SSW	00	00	00	00	00	00	00	6.03
SW	00	00	00	00	00	00	00	5.00
WSW	00	00	00	00	00	00	00	4.61
W	00	00	00	00	00	00	00	4.09
WSW	00	00	00	00	00	00	00	5.45
NW	00	00	00	00	00	00	00	6.61
NNW	00	00	00	00	00	00	00	5.86
N	00	00	00	00	00	00	00	5.03
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	5.38

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

STABILITY CLASS PASQUILL E				WOLF CREEK GENERATING STATION					
DATA SOURCE		ON-SITE		BURLINGTON, KANSAS					
WIND SENSOR HEIGHT		10.00 METERS		KANSAS GAS AND ELECTRIC					
TABLE GENERATED:		11/04/81 11:55:32		DAMES AND MOORE JOB NO 7699-064					
WIND SECTOR	0-0.5	0.5-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	27	21	10	0	0	0	61	3.44
	0.9	33	49	0	0	0	0	82	
	0.9	32	12	0	0	0	0	77	
NE	1	25	13	25	0	0	0	65	2.98
	0.9	43	08	0	0	0	0	82	
	0.9	33	12	0	0	0	0	77	
ENE	1	25	25	0	0	0	0	75	3.57
	0.9	43	08	0	0	0	0	82	
	0.9	33	12	0	0	0	0	77	
E	1	30	18	0	0	0	0	91	4.09
	0.9	43	23	0	0	0	0	89	
	0.9	30	18	0	0	0	0	82	
ESE	1	25	14	0	0	0	0	47	3.71
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
SE	1	25	14	0	0	0	0	49	3.70
	0.9	43	08	0	0	0	0	134	
	0.9	33	12	0	0	0	0	89	
SSE	1	25	14	0	0	0	0	49	4.40
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
S	1	25	14	0	0	0	0	49	5.26
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
SSW	1	25	14	0	0	0	0	49	5.17
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
SW	1	25	14	0	0	0	0	49	4.04
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
WSW	1	25	14	0	0	0	0	49	2.81
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
W	1	25	14	0	0	0	0	49	3.09
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
WNW	1	25	14	0	0	0	0	49	3.52
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
NW	1	25	14	0	0	0	0	49	3.97
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
NNW	1	25	14	0	0	0	0	49	3.92
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
N	1	25	14	0	0	0	0	49	3.53
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
CALM	1	25	14	0	0	0	0	49	CALM
	0.9	43	08	0	0	0	0	100	
	0.9	33	12	0	0	0	0	49	
TOTAL	4	505	791	510	112	24	202	4.33	
	0.9	24	38	25	5	1	100		
	0.9	8	9	6	1	1	29		

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

STABILITY CLASS PASQUILL F		WOLF CREEK GENERATING STATION						
DATA SOURCE	ON-SITE	BURLINGTON, KANSAS						
WIND SENSOR HEIGHT	10.00 METERS	KANSAS GAS AND ELECTRIC						
TABLE GENERATED	11/04/81 11:55:32	DAMES AND MOORE JOB NO.	7699-064					
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	1	1	1	0	0	3	2.66
NE	1	1	1	1	0	0	3	2.55
ENE	1	1	1	1	0	0	3	2.80
E	1	1	1	1	0	0	3	2.70
ESE	1	1	1	1	0	0	3	3.02
SE	1	1	1	1	0	0	3	2.97
SSE	1	1	1	1	0	0	3	3.11
S	1	1	1	1	0	0	3	3.44
SSW	1	1	1	1	0	0	3	3.08
SW	1	1	1	1	0	0	3	2.56
WSW	1	1	1	1	0	0	3	2.27
W	1	1	1	1	0	0	3	2.23
WNW	1	1	1	1	0	0	3	2.92
NW	1	1	1	1	0	0	3	2.67
NNW	1	1	1	1	0	0	3	2.57
N	1	1	1	1	0	0	3	3.04
CALM	1	1	1	1	0	0	3	CALM
TOTAL	1	1	1	1	1	1	1	2.95

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

STABILITY CLASS PASQUILL G

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/04/81 11 55 32

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	1	58	2	0	0	0	61	2.57
NE	1	1	0	0	0	0	2	2.17
ENE	1	1	0	0	0	0	2	2.81
E	1	1	0	0	0	0	2	2.72
ESE	1	1	0	0	0	0	2	3.78
SE	1	1	0	0	0	0	2	2.68
SSE	1	1	0	0	0	0	2	2.85
S	1	1	0	0	0	0	2	2.95
SSW	1	1	0	0	0	0	2	2.68
SW	1	1	0	0	0	0	2	1.89
WSW	1	1	0	0	0	0	2	1.78
W	1	1	0	0	0	0	2	2.01
WNW	1	1	0	0	0	0	2	2.24
W	1	1	0	0	0	0	2	1.94
WNW	1	1	0	0	0	0	2	2.61
N	1	1	0	0	0	0	2	2.39
CALM	1	1	0	0	0	0	2	CALM
TOTAL	12	59	26	1	0	0	100	2.56

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

ALL CLASSES

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/04/81 11 55 32

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	26	157	167	68	45	12	475	4.17
NE	31	187	199	81	54	14	567	3.35
ENE	18	137	127	46	3	1	345	3.83
E	21	130	143	50	12	1	293	3.76
ESE	18	117	111	54	8	5	298	3.84
SE	18	140	140	54	11	4	344	3.64
SSE	18	195	207	60	17	3	502	4.23
S	18	233	402	175	49	3	982	5.64
SSW	18	313	479	209	58	27	1171	5.74
SW	18	313	479	209	58	27	1171	5.02
WSW	18	313	479	209	58	27	1171	3.78
W	18	313	479	209	58	27	1171	3.42
WNW	18	313	479	209	58	27	1171	4.16
W	18	313	479	209	58	27	1171	5.42
WNW	18	313	479	209	58	27	1171	5.31
N	18	313	479	209	58	27	1171	4.65
CALM	18	313	479	209	58	27	1171	CALM
TOTAL	273	2126	2791	1957	791	336	9384	4.70

NUMBER OF VALID OBSERVATIONS 9384
 NUMBER OF TOTAL OBSERVATIONS 9760
 TOTAL NUMBER OF OBSERVATIONS 9760

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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STABILITY CLASS PASQUILL A WD

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

STABILITY CLASS PASQUILL B NO

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

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KEY  KEY NUMBER OF OCCURRENCES
    KEY PERCENT OCCURRENCES THIS CLASS
    KEY PERCENT OCCURRENCES ALL CLASSES

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STABILITY CLASS PASQUILL C
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED: 11/04/81 13 19 37

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-046

KEY. XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

STABILITY CLASS PASQUILL D WOLF CREEK GENERATING STATION
DATA SOURCE ON-SITE BURLINGTON, KANSAS
WIND SENSOR HEIGHT 10.00 METERS KANSAS GAS AND ELECTRIC
TABLE GENERATED: 11/04/81 13 19 37 DAMS AND MOORE JOB NO. 7499-04

KEY 111 NUMBER OF OCCURRENCES
 111 PERCENT OCCURRENCES THIS CLASS
 111 PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-22 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975

STABILITY CLASS PASQUILL E
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/04/81 13 19 37

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	1 20	1 11	1 09	1 00	1 00	1 00	3 35	3.64
N	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.89
ENE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.48
E	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.24
ESE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	4.50
SE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.97
SSE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	4.31
S	1 11	1 11	1 11	1 00	1 00	1 00	3 33	4.91
SSW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	4.41
SW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.47
WSW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.88
W	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.58
WNW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.69
NW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.87
NNW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	4.04
N	1 11	1 11	1 11	1 00	1 00	1 00	3 33	4.34
CALM	1 11	1 11	1 11	1 00	1 00	1 00	3 33	CALM
TOTAL	4 00	25 461	39 708	25 452	4 84	10 12	100 000	4.24

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975

STABILITY CLASS PASQUILL F
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/04/81 13 19 37

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	1 25	1 11	1 09	1 00	1 00	1 00	4 37	3.07
N	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.61
ENE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.95
E	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.32
ESE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.36
SE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.07
SSE	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.21
S	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.39
SSW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.18
SW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.79
WSW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.41
W	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.77
WNW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.06
NW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.65
NNW	1 11	1 11	1 11	1 00	1 00	1 00	3 33	2.78
N	1 11	1 11	1 11	1 00	1 00	1 00	3 33	3.14
CALM	1 11	1 11	1 11	1 00	1 00	1 00	3 33	CALM
TOTAL	5 00	44 517	45 503	4 51	1 01	0 00	100 000	3.10

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD JUNE 1, 1974 THROUGH MAY 31, 1975

STABILITY CLASS PASQUILL C
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/04/81 13 19 37WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
N	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
ENE	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
E	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
ESE	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
SE	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
SSE	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
S	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
SSW	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
SW	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
WSW	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
W	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
WNW	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
NW	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
NNW	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
N	0.00	3.19	2.77	00.00	00.00	00.00	6.44	2.95
CALM	0.00	3.19	2.77	00.00	00.00	00.00	6.44	CALM
TOTAL	10.00	35.9	24.6	1.7	0.0	0.0	100.00	2.73

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD JUNE 1, 1974 THROUGH MAY 31, 1975

ALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/04/81 13 19 37WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	2.82	1.15	1.76	1.39	51	3	506	4.61
N	2.82	1.34	2.06	1.62	60	04	5.91	3.37
ENE	2.82	1.33	1.18	42	2	0	320	3.68
E	2.82	1.85	1.38	49	02	0.00	3.74	3.92
ESE	2.82	1.92	1.37	48	6	0	305	4.53
SE	2.82	1.07	1.60	56	07	0.00	3.56	4.53
SSE	2.82	1.10	1.81	57	10	5	373	4.53
S	2.82	1.19	1.80	101	25	17	469	5.34
SSW	2.82	1.39	1.80	1.18	29	20	5.01	5.65
SW	2.82	2.11	2.29	104	14	9	564	4.14
WSW	2.82	2.47	2.29	1.22	18	09	6.59	5.34
W	2.82	2.78	3.63	1.38	41	8	713	5.65
WNW	2.82	3.25	4.24	2.31	48	09	10.67	5.34
NW	2.82	2.07	4.60	4.13	216	50	1379	5.65
NNW	2.82	2.42	5.37	4.83	2.52	58	16.11	5.65
N	2.82	1.35	2.50	273	144	76	909	4.54
CALM	2.82	1.58	2.92	3.19	1.68	89	10.62	4.54
TOTAL	2.82	100	103	51	22	22	325	4.00
NNE	2.82	1.17	1.20	60	36	26	3.90	4.00
N	2.82	61	55	35	13	8	198	4.19
ENE	2.82	71	64	41	15	09	2.31	4.93
E	2.82	91	90	54	12	14	283	5.27
ESE	2.82	1.06	1.09	63	14	16	3.31	5.72
SE	2.82	81	118	85	31	19	355	5.20
SSE	2.82	1.24	1.30	169	83	20	530	5.20
S	2.82	1.24	1.30	1.97	97	23	6.19	5.20
SSW	2.82	1.24	1.30	1.97	97	23	6.19	5.20
SW	2.82	1.24	1.30	1.97	97	23	6.19	5.20
WSW	2.82	1.24	1.30	1.97	97	23	6.19	5.20
W	2.82	1.24	1.30	1.97	97	23	6.19	5.20
WNW	2.82	1.24	1.30	1.97	97	23	6.19	5.20
NW	2.82	1.24	1.30	1.97	97	23	6.19	5.20
NNW	2.82	1.24	1.30	1.97	97	23	6.19	5.20
N	2.82	1.24	1.30	1.97	97	23	6.19	5.20
CALM	2.82	1.24	1.30	1.97	97	23	6.19	CALM
TOTAL	2.82	220	230	2132	897	290	8559	4.76

NUMBER OF VALID OBSERVATIONS 9559
 NUMBER OF INVALID OBSERVATIONS 231
 TOTAL NUMBER OF OBSERVATIONS 9790

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 5, 1979 THROUGH MARCH 4, 1980

WIND SECTOR	WIND SPEED CATEGORIES: METERS PER SECOND						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	1 3 6	1 3 5	1 3 6	00	4 19	5.89
N	00	00	08 1	08 1	08 1	00	2 27	5.27
NNE	00	00	1 0 1	1 0 1	1 0 1	00	2 27	5.18
E	00	00	00	00	00	00	2 27	3.94
ESE	00	00	1 7 6	1 7 6	1 7 6	00	3 27	4.27
SE	00	00	2 1 1	2 1 1	2 1 1	00	3 27	5.18
SSE	00	00	1 0 1	1 0 1	1 0 1	00	3 27	4.42
S	00	00	6 4 6	6 4 6	6 4 6	00	17 27	5.81
SSW	00	00	3 2 2	3 2 2	3 2 2	00	18 27	4.02
SW	00	00	2 1 1	2 1 1	2 1 1	00	3 27	5.13
WSW	00	00	1 0 1	1 0 1	1 0 1	00	3 27	4.63
W	00	00	2 1 1	2 1 1	2 1 1	00	3 27	4.75
WNW	00	00	2 1 1	2 1 1	2 1 1	00	3 27	3.91
W	00	00	1 0 1	1 0 1	1 0 1	00	3 27	6.08
WSW	00	00	2 1 1	2 1 1	2 1 1	00	3 27	5.25
N	00	00	2 1 1	2 1 1	2 1 1	00	3 27	6.23
CALM	00	00	00	00	00	00	0 00	CALM
TOTAL	1 00	12 50	33 40	34 42	15 33	2 11	100 00	5.42

KEY: ### NUMBER OF OCCURRENCES
 ### PERCENT OCCURRENCES THIS CLASS
 ### PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 5, 1979 THROUGH MARCH 4, 1980

WIND SECTOR	WIND SPEED CATEGORIES: METERS PER SECOND						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	31	66	62	14	8	183	5.02
N	00	1 1 5	2 45	2 30	30	11	80	4.38
NNE	00	46	88	80	14	2	226	3.97
E	00	1 71	2 97	1 60	07	00	227	4.02
ESE	00	1 71	1 07	1 08	00	00	227	4.42
E	00	1 44	2 75	1 14	00	00	227	4.74
ESE	00	1 44	2 75	1 14	00	00	227	4.71
SE	00	1 44	2 75	1 14	00	00	227	5.92
SSE	00	1 44	2 75	1 14	00	00	227	6.00
S	00	1 44	2 75	1 14	00	00	227	4.70
SSW	00	1 44	2 75	1 14	00	00	227	4.51
SW	00	1 44	2 75	1 14	00	00	227	4.74
WSW	00	1 44	2 75	1 14	00	00	227	5.05
W	00	1 44	2 75	1 14	00	00	227	6.15
WNW	00	1 44	2 75	1 14	00	00	227	5.64
W	00	1 44	2 75	1 14	00	00	227	CALM
TOTAL	2 00	424	949	777	364	108	100 00	5.18

KEY: ### NUMBER OF OCCURRENCES
 ### PERCENT OCCURRENCES THIS CLASS
 ### PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 5, 1979 THROUGH MARCH 4, 1980

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0	1	1	1	1	1	6	4.85	3.05
NE	0	1	1	1	1	1	6	4.21	3.21
ENE	0	1	1	1	1	1	6	3.71	3.13
E	0	1	1	1	1	1	6	3.54	4.14
ESE	0	1	1	1	1	1	6	3.91	3.76
SE	0	1	1	1	1	1	6	4.21	4.08
SSE	0	1	1	1	1	1	6	4.21	4.02
S	0	1	1	1	1	1	6	4.21	3.71
SSW	0	1	1	1	1	1	6	4.21	3.52
SW	0	1	1	1	1	1	6	4.21	4.01
WSW	0	1	1	1	1	1	6	4.21	3.76
W	0	1	1	1	1	1	6	4.21	3.68
WSW	0	1	1	1	1	1	6	4.21	3.87
W	0	1	1	1	1	1	6	4.21	4.06
WSW	0	1	1	1	1	1	6	4.21	4.60
N	0	1	1	1	1	1	6	4.21	4.30
CALM	0	1	1	1	1	1	6	4.21	CALM
TOTAL	0	1	1	1	1	1	6	4.21	4.66

KEY: IXX NUMBER OF OCCURRENCES
 IXX PERCENT OCCURRENCES THIS CLASS
 IXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 5, 1979 THROUGH MARCH 4, 1980

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0	1	1	1	1	1	6	4.85	2.74
NE	0	1	1	1	1	1	6	4.21	2.37
ENE	0	1	1	1	1	1	6	3.71	2.55
E	0	1	1	1	1	1	6	3.54	2.94
ESE	0	1	1	1	1	1	6	3.91	2.61
SE	0	1	1	1	1	1	6	4.21	2.28
SSE	0	1	1	1	1	1	6	4.21	2.78
S	0	1	1	1	1	1	6	4.21	3.08
SSW	0	1	1	1	1	1	6	4.21	3.49
SW	0	1	1	1	1	1	6	4.21	2.60
WSW	0	1	1	1	1	1	6	4.21	2.57
W	0	1	1	1	1	1	6	4.21	2.58
WSW	0	1	1	1	1	1	6	4.21	2.60
W	0	1	1	1	1	1	6	4.21	2.66
WSW	0	1	1	1	1	1	6	4.21	2.89
N	0	1	1	1	1	1	6	4.21	2.91
CALM	0	1	1	1	1	1	6	4.21	CALM
TOTAL	0	1	1	1	1	1	6	4.21	2.74

KEY: IXX NUMBER OF OCCURRENCES
 IXX PERCENT OCCURRENCES THIS CLASS
 IXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-22 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (10 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD MARCH 5, 1979 THROUGH MARCH 4, 1980STABILITY CLASS PASQUILL G
DATA SOURCE CV-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/04/81 14 42 25
WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	3 28	2 15	1 13	0 00	0 00	5 44	2.93
NE	00	4 40	2 15	1 13	0 00	0 00	7 48	2.69
ENE	00	1 10	1 10	0 00	0 00	0 00	2 20	2.31
E	00	4 40	3 30	0 00	0 00	0 00	8 10	2.81
ESE	00	5 44	1 10	0 00	0 00	0 00	7 54	2.42
SE	00	7 48	1 10	0 00	0 00	0 00	11 00	2.10
SSE	00	6 44	2 15	0 00	0 00	0 00	10 59	2.45
S	00	5 44	2 15	0 00	0 00	0 00	10 59	2.44
SSW	00	0 00	1 10	0 00	0 00	0 00	3 10	2.05
SW	00	0 00	1 10	0 00	0 00	0 00	2 20	2.18
WSW	00	1 10	0 00	0 00	0 00	0 00	2 20	1.80
W	00	1 10	0 00	0 00	0 00	0 00	2 20	1.83
WNW	00	4 40	0 00	0 00	0 00	0 00	6 40	1.96
NW	00	5 44	0 00	0 00	0 00	0 00	7 48	2.02
NNW	00	2 15	1 10	0 00	0 00	0 00	4 25	2.47
N	00	4 40	0 00	0 00	0 00	0 00	5 44	2.31
CALM	00	0 00	0 00	0 00	0 00	0 00	0 00	CALM
TOTAL	18	450	156	4	0	0	708	2.34

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD MARCH 5, 1979 THROUGH MARCH 4, 1980ALL CLASSES
DATA SOURCE CV-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/04/81 14 42 25
WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	09	1 41	2 01	1 39	48	20	5 58	4.68
NE	14	1 39	1 47	57	23	2	382	3.83
ENE	124	1 17	1 27	40	8	0	316	3.45
E	124	1 17	1 27	40	8	0	316	3.45
ESE	124	1 17	1 27	40	8	0	316	3.45
SE	124	1 17	1 27	40	8	0	316	3.45
SSE	124	1 17	1 27	40	8	0	316	3.45
S	124	1 17	1 27	40	8	0	316	3.45
SSW	124	1 17	1 27	40	8	0	316	3.45
SW	124	1 17	1 27	40	8	0	316	3.45
WSW	124	1 17	1 27	40	8	0	316	3.45
W	124	1 17	1 27	40	8	0	316	3.45
WNW	124	1 17	1 27	40	8	0	316	3.45
NW	124	1 17	1 27	40	8	0	316	3.45
NNW	124	1 17	1 27	40	8	0	316	3.45
N	124	1 17	1 27	40	8	0	316	3.45
CALM	04	0 00	0 00	0 00	0 00	0 00	0 00	CALM
TOTAL	358	2017	2566	1666	710	208	7505	4.47

NUMBER OF VALID OBSERVATIONS 7505
 NUMBER OF INVALID OBSERVATIONS 1002
 TOTAL NUMBER OF OBSERVATIONS 8507

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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WCGS-ER(OLS)

TABLE 2.3-23

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS) (ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD THREE YEARS COMBINED

STABILITY CLASS PASQUILL A
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/05/81 13 14.50

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-024

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	7	1	2	1	0	141	6.19
NE	1	1	1	1	1	0	5	1.14
ENE	1	1	1	1	1	0	5	1.14
E	1	1	1	1	1	0	5	1.14
ESE	1	1	1	1	1	0	5	1.14
SE	1	1	1	1	1	0	5	1.14
SSE	1	1	1	1	1	0	5	1.14
S	1	1	1	1	1	0	5	1.14
SSW	1	1	1	1	1	0	5	1.14
SW	1	1	1	1	1	0	5	1.14
WSW	1	1	1	1	1	0	5	1.14
W	1	1	1	1	1	0	5	1.14
WNW	1	1	1	1	1	0	5	1.14
NW	1	1	1	1	1	0	5	1.14
NNW	1	1	1	1	1	0	5	1.14
N	1	1	1	1	1	0	5	1.14
CALM	1	1	1	1	1	0	5	1.14
TOTAL	1	7	18	30	25	20	100	7.32

KEY: IXX NUMBER OF OCCURRENCES
IXX PERCENT OCCURRENCES THIS CLASS
IXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	7	1	2	1	0	141	6.19
NE	1	1	1	1	1	0	5	1.14
ENE	1	1	1	1	1	0	5	1.14
E	1	1	1	1	1	0	5	1.14
ESE	1	1	1	1	1	0	5	1.14
SE	1	1	1	1	1	0	5	1.14
SSE	1	1	1	1	1	0	5	1.14
S	1	1	1	1	1	0	5	1.14
SSW	1	1	1	1	1	0	5	1.14
SW	1	1	1	1	1	0	5	1.14
WSW	1	1	1	1	1	0	5	1.14
W	1	1	1	1	1	0	5	1.14
WNW	1	1	1	1	1	0	5	1.14
NW	1	1	1	1	1	0	5	1.14
NNW	1	1	1	1	1	0	5	1.14
N	1	1	1	1	1	0	5	1.14
CALM	1	1	1	1	1	0	5	1.14
TOTAL	1	7	18	30	25	20	100	7.32

KEY: IXX NUMBER OF OCCURRENCES
IXX PERCENT OCCURRENCES THIS CLASS
IXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

Page 3 of 16

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD THREE YEARS COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1	1-3	3-5	5-7	7-10	10-15	>15		
NRW	00	00	00	00	00	00	00	181	6.85
NE	00	00	00	00	00	00	00	176	4.72
ENE	00	00	00	00	00	00	00	203	6.03
E	00	00	00	00	00	00	00	250	6.71
ESE	00	00	00	00	00	00	00	110	7.02
SE	00	00	00	00	00	00	00	103	7.00
SSE	00	00	00	00	00	00	00	120	7.93
S	00	00	00	00	00	00	00	147	6.70
SSW	00	00	00	00	00	00	00	114	7.85
SW	00	00	00	00	00	00	00	101	6.55
WSW	00	00	00	00	00	00	00	108	6.03
W	00	00	00	00	00	00	00	101	6.05
WNW	00	00	00	00	00	00	00	101	6.69
NW	00	00	00	00	00	00	00	101	6.71
NNW	00	00	00	00	00	00	00	101	7.21
N	00	00	00	00	00	00	00	101	7.50
CALM	00	00	00	00	00	00	00	101	CALM
TOTAL	233	787	1899	1808	911	5678	7.47		

KEY
 111 NUMBER OF OCCURRENCES
 111 PERCENT OCCURRENCES THIS CLASS
 111 PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1	1-3	3-5	5-7	7-10	10-15	>15		
NRW	00	00	00	00	00	00	00	171	6.73
NE	00	00	00	00	00	00	00	155	4.54
ENE	00	00	00	00	00	00	00	174	6.35
E	00	00	00	00	00	00	00	179	6.46
ESE	00	00	00	00	00	00	00	151	6.44
SE	00	00	00	00	00	00	00	151	6.64
SSE	00	00	00	00	00	00	00	151	7.20
S	00	00	00	00	00	00	00	151	7.20
SSW	00	00	00	00	00	00	00	151	7.20
SW	00	00	00	00	00	00	00	151	6.21
WSW	00	00	00	00	00	00	00	151	5.37
W	00	00	00	00	00	00	00	151	5.84
WNW	00	00	00	00	00	00	00	151	6.61
NW	00	00	00	00	00	00	00	151	6.61
NNW	00	00	00	00	00	00	00	151	6.27
N	00	00	00	00	00	00	00	151	6.85
CALM	00	00	00	00	00	00	00	151	CALM
TOTAL	138	511	1426	929	516	3200	6.66		

KEY
 111 NUMBER OF OCCURRENCES
 111 PERCENT OCCURRENCES THIS CLASS
 111 PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: THREE YEARS COMBINED

STABILITY CLASS: PASQUILL G
DATA SOURCE: DOW SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/05/81 13 14 30

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	8	19	51	26	7	113	6.36
NE	00	36	87	232	118	32	513	6.13
ENE	00	10	2	2	0	0	14	4.90
E	00	44	1	1	0	0	46	5.90
ESE	00	0	1	2	1	0	3	6.17
SE	00	0	1	2	1	0	4	6.20
SSE	00	0	1	4	2	0	7	6.59
S	00	0	1	4	3	0	8	6.71
SSW	00	0	1	6	3	0	10	7.31
SW	00	0	1	4	3	0	8	6.95
WSW	00	0	1	2	1	0	4	6.06
W	00	0	1	1	0	0	2	5.20
WNW	00	0	1	1	0	0	2	4.74
W	00	0	1	1	0	0	2	9.87
WNW	00	0	1	1	0	0	2	6.17
N	00	0	1	1	0	0	2	5.99
CALM	00	0	0	0	0	0	0	6.66
TOTAL	187	107	439	962	570	77	2345	6.34

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	13	75	266	456	306	185	1301	6.91
NE	05	32	112	193	129	78	550	6.13
ENE	19	125	364	313	70	14	915	4.91
E	08	57	154	132	30	06	366	5.90
ESE	10	101	257	334	164	41	907	6.13
SE	04	43	109	141	59	17	383	6.23
SSE	16	81	216	398	229	41	981	6.60
S	07	34	91	168	97	17	414	7.32
SSW	14	94	243	276	217	71	1015	6.60
SW	05	40	103	159	92	30	429	6.95
WSW	18	88	325	704	618	300	2051	8.19
W	08	40	113	229	138	57	584	6.17
WNW	16	89	325	704	618	300	2051	6.17
N	17	111	411	1432	1448	1088	4507	5.99
CALM	07	47	174	605	612	460	1904	6.66
TOTAL	267	1347	4022	8121	6292	2626	23675	7.17

NUMBER OF VALID OBSERVATIONS: 23675
 NUMBER OF INVALID OBSERVATIONS: 2626
 TOTAL NUMBER OF OBSERVATIONS: 26304

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	10	14	0	0	24	5.91
NE	00	00	10	18	0	0	28	4.78
ENE	00	00	08	09	00	00	17	6.30
E	00	00	03	14	00	00	17	5.31
ESE	00	00	00	04	00	00	04	5.98
SE	00	00	07	19	00	00	26	7.26
SSE	00	00	07	18	00	00	25	7.46
S	00	00	02	20	16	00	38	9.27
SSW	00	00	02	18	18	00	38	9.78
SW	00	00	08	14	24	00	46	8.72
WSW	00	00	00	00	10	00	10	8.61
W	00	00	00	00	04	00	04	4.99
WNW	00	00	00	00	00	00	00	4.13
NW	00	00	00	00	00	00	00	8.87
NNW	00	00	00	00	00	00	00	7.69
N	00	00	00	00	00	00	00	7.08
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	34	93	250	237	234	1000	8.25

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	00	7.34
NE	00	00	00	00	00	00	00	3.74
ENE	00	00	00	00	00	00	00	4.84
E	00	00	00	00	00	00	00	6.94
ESE	00	00	00	00	00	00	00	6.75
SE	00	00	00	00	00	00	00	5.87
SSE	00	00	00	00	00	00	00	7.27
S	00	00	00	00	00	00	00	8.50
SSW	00	00	00	00	00	00	00	8.64
SW	00	00	00	00	00	00	00	7.39
WSW	00	00	00	00	00	00	00	6.04
W	00	00	00	00	00	00	00	5.03
WNW	00	00	00	00	00	00	00	5.28
NW	00	00	00	00	00	00	00	7.50
NNW	00	00	00	00	00	00	00	8.10
N	00	00	00	00	00	00	00	8.11
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	7	96	137	135	85	493	7.27

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD JUNE 1, 1973 THROUGH MAY 31, 1974STABILITY CLASS PASQUILL C
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/04/81 11 55 32
WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	0.00
NE	00	00	00	00	00	00	00	0.00
ENE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	0.00
SE	00	00	00	00	00	00	00	0.00
SSE	00	00	00	00	00	00	00	0.00
S	00	00	00	00	00	00	00	0.00
SSW	00	00	00	00	00	00	00	0.00
SW	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
N	00	00	00	00	00	00	00	0.00
CALM	00	00	00	00	00	00	00	0.00
TOTAL	1	5	15	33	27	16	100	7.32

KEY
xxx NUMBER OF OCCURRENCES
xxx PERCENT OCCURRENCES THIS CLASS
xxx PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	0.00
NE	00	00	00	00	00	00	00	0.00
ENE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	0.00
SE	00	00	00	00	00	00	00	0.00
SSE	00	00	00	00	00	00	00	0.00
S	00	00	00	00	00	00	00	0.00
SSW	00	00	00	00	00	00	00	0.00
SW	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
N	00	00	00	00	00	00	00	0.00
CALM	00	00	00	00	00	00	00	0.00
TOTAL	1	5	15	33	27	16	100	7.32

KEY
xxx NUMBER OF OCCURRENCES
xxx PERCENT OCCURRENCES THIS CLASS
xxx PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974STABILITY CLASS: PADQUILL E
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/04/81 11 55 32WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	001	3	12	16	8	3	43	6.26
NE	000	04	14	20	10	04	52	6.75
ENE	000	04	11	14	03	01	33	6.73
E	000	04	11	18	11	08	52	6.59
ESE	000	04	11	19	11	03	58	6.69
SE	000	04	11	24	11	12	62	7.10
SSE	000	04	11	24	11	12	62	8.22
S	000	04	11	24	11	12	62	8.94
SSW	000	04	11	24	11	12	62	8.42
SW	000	04	11	24	11	12	62	7.21
WSW	000	04	11	24	11	12	62	5.84
W	000	04	11	24	11	12	62	5.55
WNW	000	04	11	24	11	12	62	6.71
NW	000	04	11	24	11	12	62	6.43
NNW	000	04	11	24	11	12	62	7.11
N	000	04	11	24	11	12	62	7.11
CALM	000	04	11	24	11	12	62	CALM
TOTAL	71	236	588	658	340	191	1000	7.67

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	000	04	12	16	8	3	43	7.38
NE	000	04	14	20	10	04	52	5.20
ENE	000	04	11	14	03	01	33	6.87
E	000	04	11	18	11	08	52	6.31
ESE	000	04	11	19	11	03	58	6.63
SE	000	04	11	24	11	12	62	7.19
SSE	000	04	11	24	11	12	62	7.79
S	000	04	11	24	11	12	62	7.76
SSW	000	04	11	24	11	12	62	7.21
SW	000	04	11	24	11	12	62	6.88
WSW	000	04	11	24	11	12	62	5.05
W	000	04	11	24	11	12	62	6.07
WNW	000	04	11	24	11	12	62	6.51
NW	000	04	11	24	11	12	62	6.88
NNW	000	04	11	24	11	12	62	6.16
N	000	04	11	24	11	12	62	7.02
CALM	000	04	11	24	11	12	62	CALM
TOTAL	44	146	400	328	191	100	1000	7.03

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1973 THROUGH MAY 31, 1974

STABILITY CLASS PASQUILL G
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/04/81 11:55:32

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	7.07
NE	00	00	00	00	00	00	00	5.54
ENE	00	00	00	00	00	00	00	5.95
E	00	00	00	00	00	00	00	5.66
ESE	00	00	00	00	00	00	00	5.57
SE	00	00	00	00	00	00	00	6.87
SSE	00	00	00	00	00	00	00	7.07
S	00	00	00	00	00	00	00	7.97
SSW	00	00	00	00	00	00	00	7.67
SW	00	00	00	00	00	00	00	6.49
WSW	00	00	00	00	00	00	00	4.89
W	00	00	00	00	00	00	00	4.86
WNW	00	00	00	00	00	00	00	6.12
WW	00	00	00	00	00	00	00	5.69
WNW	00	00	00	00	00	00	00	6.03
N	00	00	00	00	00	00	00	7.02
CALM	00	00	00	00	00	00	00	CALM
TOTAL	2	3	18	41	28	7	100	6.69

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	03	18	107	188	113	98	420	7.21
NE	09	43	107	123	23	03	305	4.95
ENE	03	32	78	105	67	27	311	6.23
E	07	38	68	140	84	12	339	6.14
ESE	04	40	74	98	51	19	289	6.12
SE	09	40	75	176	97	42	405	6.84
SSE	07	40	79	197	221	132	656	7.97
S	04	40	107	412	604	471	1620	8.70
SSW	08	40	97	279	374	250	1002	8.43
SW	04	40	80	176	142	62	470	7.23
WSW	03	40	61	70	36	17	211	5.93
W	09	40	63	75	23	7	204	5.48
WNW	00	40	47	108	74	14	280	6.63
WW	08	40	71	159	106	102	460	7.80
WNW	08	40	89	199	133	128	577	7.48
N	08	40	64	189	152	64	480	7.48
CALM	07	40	78	176	145	125	540	7.82
TOTAL	93	369	1170	2631	2291	1424	7975	7.49

NUMBER OF VALID OBSERVATIONS 7975
NUMBER OF TOTAL OBSERVATIONS 125
TOTAL NUMBER OF OBSERVATIONS 8760

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	00	0.00
NE	00	00	00	00	00	00	00	0.00
ENE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	0.00
SE	00	00	00	00	00	00	00	0.00
SSE	00	00	00	00	00	00	00	0.00
S	00	00	00	00	00	00	00	0.00
SSW	00	00	00	00	00	00	00	0.00
SW	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WNW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WNW	00	00	00	00	00	00	00	0.00
N	00	00	00	00	00	00	00	0.00
CALM	00	00	00	00	00	00	00	0.00
TOTAL	00	00	00	00	00	00	00	0.00

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	00	0.00
NE	00	00	00	00	00	00	00	0.00
ENE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	0.00
SE	00	00	00	00	00	00	00	0.00
SSE	00	00	00	00	00	00	00	0.00
S	00	00	00	00	00	00	00	0.00
SSW	00	00	00	00	00	00	00	0.00
SW	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WNW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WNW	00	00	00	00	00	00	00	0.00
N	00	00	00	00	00	00	00	0.00
CALM	00	00	00	00	00	00	00	0.00
TOTAL	00	00	00	00	00	00	00	0.00

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-23 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)
(ANNUAL)
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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975

STABILITY CLASS: PASQUILL C
DATA SOURCE: DOW SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/04/81 13 19 37

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DANES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	1	10	9	11	39	7.66
NE	00	1	1	10	11	13	45	4.09
ENE	00	00	1	08	03	00	12	4.34
E	00	00	1	04	03	00	8	6.20
ESE	00	00	00	04	02	00	6	5.69
SE	00	00	00	04	02	00	6	6.48
SSE	00	00	00	04	1	00	5	6.72
S	00	00	1	1	1	00	3	7.58
SSW	00	00	2	4	2	2	12	7.36
SW	00	00	2	3	2	2	11	7.06
WSW	00	00	00	1	00	00	1	6.23
W	00	1	1	07	00	00	9	4.32
WSW	00	00	00	07	1	1	4	7.65
W	00	00	1	17	3	2	9	8.68
WSW	00	00	00	3	3	3	10	8.45
N	00	00	1	2	4	4	12	8.98
CALM	00	00	00	00	00	00	00	CALM
TOTAL	2	43	16	27	23	21	100	7.35

KEY: IXX NUMBER OF OCCURRENCES
IIX PERCENT OCCURRENCES THIS CLASS
IIX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	1	2	2	1	6	7.45
NE	00	00	1	1	3	00	5	5.38
ENE	00	00	1	1	1	00	3	5.38
E	00	00	1	1	1	00	4	6.16
ESE	00	00	1	2	1	00	4	6.54
SE	00	00	1	1	1	1	5	7.17
SSE	00	00	1	1	1	1	5	6.57
S	00	00	2	1	4	4	11	7.92
SSW	00	00	1	2	2	2	7	7.52
SW	00	00	1	2	2	2	7	6.38
WSW	00	00	00	00	00	00	0	4.91
W	00	00	00	00	00	00	0	6.91
WSW	00	00	00	00	00	00	0	8.45
W	00	00	00	00	00	00	0	7.95
WSW	00	00	00	00	00	00	0	8.63
N	00	00	1	2	1	2	6	8.22
CALM	00	00	00	00	00	00	00	CALM
TOTAL	2	43	16	27	23	21	100	7.36

KEY: IXX NUMBER OF OCCURRENCES
IIX PERCENT OCCURRENCES THIS CLASS
IIX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975

STABILITY CLASS PASQUILL E
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 40.00 METERS
TABLE GENERATED 11/04/91 13 19 37

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
GAMES AND MOORE JOB NO 7699-084

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	14	1	14	00	3	6.46
NE	00	00	14	1	14	00	3	6.47
ENE	00	00	14	1	14	00	3	5.59
E	00	00	14	1	14	00	3	6.52
ESE	00	00	14	1	14	00	3	7.17
SE	00	00	14	1	14	00	3	6.99
SSE	00	00	14	1	14	00	3	7.63
S	00	00	14	1	14	00	3	8.08
SSW	00	00	14	1	14	00	3	7.24
SW	00	00	14	1	14	00	3	5.43
WSW	00	00	14	1	14	00	3	5.97
W	00	00	14	1	14	00	3	5.28
WW	00	00	14	1	14	00	3	6.57
NW	00	00	14	1	14	00	3	6.53
NNE	00	00	14	1	14	00	3	6.83
N	00	00	14	1	14	00	3	7.14
CALM	00	00	14	1	14	00	3	CALM
TOTAL	00	00	14	1	14	00	3	7.02

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	13	1	13	00	4	6.49
NE	00	00	13	1	13	00	4	6.30
ENE	00	00	13	1	13	00	4	5.69
E	00	00	13	1	13	00	4	6.68
ESE	00	00	13	1	13	00	4	6.56
SE	00	00	13	1	13	00	4	6.72
SSE	00	00	13	1	13	00	4	6.99
S	00	00	13	1	13	00	4	7.22
SSW	00	00	13	1	13	00	4	6.95
SW	00	00	13	1	13	00	4	6.04
WSW	00	00	13	1	13	00	4	5.20
W	00	00	13	1	13	00	4	5.19
WW	00	00	13	1	13	00	4	6.34
NW	00	00	13	1	13	00	4	5.42
NNE	00	00	13	1	13	00	4	5.77
N	00	00	13	1	13	00	4	5.67
CALM	00	00	13	1	13	00	4	CALM
TOTAL	00	00	13	1	13	00	4	6.48

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JUNE 1, 1974 THROUGH MAY 31, 1975STABILITY CLASS PASQUILL G
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/04/81 13 19 37WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	4	8	1	1	1	1	12	5.97
NE	0	0	0	1	0	0	1	4.19
ENE	0	0	0	0	0	0	0	3.16
E	0	0	0	0	0	0	0	5.96
ESE	0	0	0	0	0	0	0	5.94
SE	0	0	0	0	0	0	0	6.35
SSE	0	0	0	0	0	0	0	6.65
S	0	0	0	0	0	0	0	6.74
SSW	0	0	0	0	0	0	0	6.14
SW	0	0	0	0	0	0	0	6.31
WSW	0	0	0	0	0	0	0	5.34
W	0	0	0	0	0	0	0	4.39
WNW	0	0	0	0	0	0	0	4.76
W	0	0	0	0	0	0	0	6.16
WSW	0	0	0	0	0	0	0	6.20
N	0	0	0	0	0	0	0	7.05
CALM	0	0	0	0	0	0	0	CALM
TOTAL	12	28	128	334	144	7	100	6.14

KEY: *** NUMBER OF OCCURRENCES
 *** PERCENT OCCURRENCES THIS CLASS
 *** PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	4	31	90	169	125	60	479	6.84
NE	0	55	123	82	19	4	287	4.58
ENE	0	41	98	106	40	1	292	5.26
E	0	28	67	107	55	15	277	6.07
ESE	0	34	80	128	66	18	322	6.25
SE	0	48	103	161	126	52	497	6.54
SSE	0	57	123	143	151	62	595	6.94
S	0	35	145	270	224	84	767	7.74
SSW	0	42	174	323	268	101	918	7.37
SW	0	45	167	547	472	284	1525	7.26
WSW	0	34	200	655	565	340	1825	7.37
W	0	41	156	353	264	170	997	6.26
WNW	0	49	197	423	316	203	1197	6.94
W	0	33	99	174	33	45	413	6.26
WSW	0	39	118	208	63	54	432	5.57
W	0	35	58	100	23	13	230	5.53
WNW	0	29	71	71	27	18	200	7.24
W	0	35	95	85	32	22	275	7.37
WNW	0	25	65	97	91	59	345	7.03
W	0	30	78	116	109	71	413	7.69
WNW	0	25	68	120	138	74	432	7.03
W	0	31	86	144	165	89	517	7.69
WNW	0	15	55	170	181	112	517	7.69
W	0	19	66	203	217	134	643	7.69
WNW	0	26	72	209	176	107	697	7.69
W	0	31	95	250	211	132	719	7.69
CALM	0	0	0	0	0	0	0	CALM
TOTAL	143	559	1532	2892	2095	1154	8355	6.95

NUMBER OF VALID OBSERVATIONS 8055
 NUMBER OF TOTAL OBSERVATIONS 405
 TOTAL NUMBER OF OBSERVATIONS 8760

KEY: *** NUMBER OF OCCURRENCES
 *** PERCENT OCCURRENCES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD MARCH 5, 1979 THROUGH MARCH 4, 1980

STABILITY CLASS PASQUILL A
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/04/81 14:42:25

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1 5	1-3 0	3-5 0	5-7 5	7-10 0	>10 0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	7.74
NE	00	00	00	00	00	00	00	5.80
ENE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	7.30
ESE	00	00	00	00	00	00	00	6.15
SE	00	00	00	00	00	00	00	4.97
SSE	00	00	00	00	00	00	00	6.09
S	00	00	00	00	00	00	00	7.00
SSW	00	00	00	00	00	00	00	7.33
SW	00	00	00	00	00	00	00	5.20
WSW	00	00	00	00	00	00	00	2.43
W	00	00	00	00	00	00	00	5.50
WSW	00	00	00	00	00	00	00	8.36
W	00	00	00	00	00	00	00	9.38
WSW	00	00	00	00	00	00	00	8.76
N	00	00	00	00	00	00	00	8.87
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	7.41

KEY
xxx NUMBER OF OCCURRENCES
xxx PERCENT OCCURRENCES THIS CLASS
xxx PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1 5	1-3 0	3-5 0	5-7 5	7-10 0	>10 0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	7.01
NE	00	00	00	00	00	00	00	4.17
ENE	00	00	00	00	00	00	00	4.96
E	00	00	00	00	00	00	00	6.52
ESE	00	00	00	00	00	00	00	5.84
SE	00	00	00	00	00	00	00	6.93
SSE	00	00	00	00	00	00	00	5.07
S	00	00	00	00	00	00	00	7.24
SSW	00	00	00	00	00	00	00	7.17
SW	00	00	00	00	00	00	00	7.14
WSW	00	00	00	00	00	00	00	6.50
W	00	00	00	00	00	00	00	5.58
WSW	00	00	00	00	00	00	00	4.65
W	00	00	00	00	00	00	00	9.00
WSW	00	00	00	00	00	00	00	7.22
N	00	00	00	00	00	00	00	7.19
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	6.80

KEY
xxx NUMBER OF OCCURRENCES
xxx PERCENT OCCURRENCES THIS CLASS
xxx PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD MARCH 3, 1979 THROUGH MARCH 4, 1980

WIND SECTOR	WIND SPEED CATEGORIES: METERS PER SECOND						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NAL	00	00	00	00	00	00	00	00
NE	00	00	00	00	00	00	00	00
ENE	00	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00	00
SE	00	00	00	00	00	00	00	00
SSE	00	00	00	00	00	00	00	00
S	00	00	00	00	00	00	00	00
SSW	00	00	00	00	00	00	00	00
SW	00	00	00	00	00	00	00	00
WSW	00	00	00	00	00	00	00	00
W	00	00	00	00	00	00	00	00
WNW	00	00	00	00	00	00	00	00
NW	00	00	00	00	00	00	00	00
NNW	00	00	00	00	00	00	00	00
N	00	00	00	00	00	00	00	00
CALM	00	00	00	00	00	00	00	00
TOTAL	00	00	00	00	00	00	00	00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	WIND SPEED CATEGORIES: METERS PER SECOND						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NAL	00	00	00	00	00	00	00	00
NE	00	00	00	00	00	00	00	00
ENE	00	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00	00
SE	00	00	00	00	00	00	00	00
SSE	00	00	00	00	00	00	00	00
S	00	00	00	00	00	00	00	00
SSW	00	00	00	00	00	00	00	00
SW	00	00	00	00	00	00	00	00
WSW	00	00	00	00	00	00	00	00
W	00	00	00	00	00	00	00	00
WNW	00	00	00	00	00	00	00	00
NW	00	00	00	00	00	00	00	00
NNW	00	00	00	00	00	00	00	00
N	00	00	00	00	00	00	00	00
CALM	00	00	00	00	00	00	00	00
TOTAL	00	00	00	00	00	00	00	00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)
(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 5, 1979 THROUGH MARCH 4, 1980

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	1	4	14	26	17	12		74	7.03
NE	03	00	11	19	18	60		3.73	
ENE	00	00	11	19	18	18		1.01	4.85
E	00	00	11	19	18	18		3.38	
ESE	00	00	11	19	18	18		1.01	5.89
SE	00	00	11	19	18	18		3.78	
SSE	00	00	11	19	18	18		1.01	6.93
S	00	00	11	19	18	18		1.40	7.11
SSW	00	00	11	19	18	18		3.77	
SW	00	00	11	19	18	18		1.01	6.91
WSW	00	00	11	19	18	18		1.14	7.91
W	00	00	11	19	18	18		3.42	8.91
WSW	00	00	11	19	18	18		2.7	7.87
W	00	00	11	19	18	18		1.14	6.77
WSW	00	00	11	19	18	18		1.08	6.35
W	00	00	11	19	18	18		2.43	7.20
WSW	00	00	11	19	18	18		2.49	6.87
W	00	00	11	19	18	18		2.53	7.36
WSW	00	00	11	19	18	18		2.87	7.68
W	00	00	11	19	18	18		2.97	8.17
WSW	00	00	11	19	18	18		4.84	
W	00	00	11	19	18	18		1.31	CALM
WSW	00	00	11	19	18	18		0.9	
W	00	00	11	19	18	18		0.1	7.68
WSW	00	00	11	19	18	18		100.00	
W	00	00	11	19	18	18		27.01	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	00	00	10	19	7	00		38	6.26
NE	00	00	10	19	7	00		3.49	
ENE	00	00	10	19	7	00		3.32	4.32
E	00	00	10	19	7	00		3.10	
ESE	00	00	10	19	7	00		2.77	6.16
SE	00	00	10	19	7	00		2.62	
SSE	00	00	10	19	7	00		2.74	6.44
S	00	00	10	19	7	00		6.21	
SSW	00	00	10	19	7	00		5.85	6.19
SW	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	6.25
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	6.87
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	6.56
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	7.56
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	5.22
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	5.89
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	6.09
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	7.06
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	7.23
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	6.68
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	6.92
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	CALM
W	00	00	10	19	7	00		5.85	
WSW	00	00	10	19	7	00		5.85	6.50
W	00	00	10	19	7	00		5.85	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

Rev. 4
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WCGS-ER(OLS)

TABLE 2.3-23 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS (60.00 METERS)

(ANNUAL)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 3, 1979 THROUGH MARCH 4, 1980

STABILITY CLASS: PASQUILL G
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/04/81 14 42 25

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	3	8	17	7	1	37	5.86
NE	14	41	109	132	93	14	504	4.93
ENE	00	04	11	11	10	01	20	6.36
E	00	04	3	2	03	01	7	6.93
ESE	00	04	05	10	14	01	34	6.74
SE	00	04	09	22	22	00	57	6.57
SSE	00	04	10	34	37	00	108	6.50
S	00	04	2	4	2	00	9	6.97
SSW	00	04	1	4	3	00	10	6.37
SW	00	04	1	3	2	00	8	4.77
WSW	00	04	1	3	08	00	3	5.61
W	00	04	1	1	03	00	2	4.81
WSW	00	04	1	1	03	00	4	6.17
W	00	04	1	1	03	00	4	6.41
WNW	00	04	1	1	03	00	4	5.81
N	00	04	1	1	03	00	4	5.57
CALM	00	04	1	1	03	00	4	CALM
TOTAL	10	53	233	419	272	10	1000	6.17

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	3	26	91	139	91	47	397	6.69
NE	04	35	124	189	124	64	541	5.15
ENE	07	50	182	147	42	11	440	5.88
E	03	28	81	123	57	13	304	6.16
ESE	04	35	110	151	90	14	365	6.29
SE	03	25	74	122	82	16	322	6.46
SSE	00	04	104	205	124	40	481	7.09
S	00	04	142	279	142	54	629	8.07
SSW	00	04	101	237	173	84	629	7.49
SW	00	04	108	323	236	114	816	6.31
WSW	00	04	102	322	230	132	816	6.19
W	00	04	102	322	230	132	816	6.24
WNW	00	04	102	322	230	132	816	6.84
N	00	04	102	322	230	132	816	7.74
WNW	00	04	102	322	230	132	816	7.82
N	00	04	102	322	230	132	816	7.86
CALM	00	04	102	322	230	132	816	CALM
TOTAL	54	419	1320	2598	1906	1048	7345	7.06

NUMBER OF VALID OBSERVATIONS: 7345
NUMBER OF INVALID OBSERVATIONS: 1439
TOTAL NUMBER OF OBSERVATIONS: 8784

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WCGS-ER(OLS)

TABLE 2.3-24

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA PERIOD: ALL JANUARY COMBINED									
STABILITY CLASS: PASQUILL A					WOLF CREEK GENERATING STATION				
DATA SOURCE: ON-SITE					BURLINGTON, KANSAS				
WIND SENSOR HEIGHT: 10.00 METERS					KANSAS GAS AND ELECTRIC				
TABLE GENERATED: 11/10/81 15 02 03					DAMES AND MOORE JOB NO: 7699-064				
WIND	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN	
SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		SPEED	
NNE	2	1	1	4	0	0	10	7	3.46
NE	0	1	1	2	0	0	5	14	4.17
ENE	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	4.30
ESE	0	0	1	0	0	0	7	13	3.02
SE	0	5	1	0	0	0	8	32	4.48
SSE	0	2	1	4	0	0	8	30	5.09
S	0	0	1	1	0	0	2	7	6.53
SSW	0	0	0	0	8	0	8	70	5.39
SW	1	0	0	0	1	0	2	5	5.30
WSW	0	1	0	0	1	0	2	5	4.90
W	0	1	0	0	1	0	2	5	0.00
WNW	0	0	0	0	0	0	0	0	6.87
W	0	0	0	4	0	0	4	3	7.04
WNW	0	0	1	5	4	0	11	58	6.96
N	0	2	2	2	13	0	21	44	3.68
CALM	0	0	0	0	0	0	0	0	CALM
TOTAL	7	17	15	28	30	0	100	349	5.55

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA PERIOD: ALL JANUARY COMBINED									
STABILITY CLASS: PASQUILL B					WOLF CREEK GENERATING STATION				
DATA SOURCE: ON-SITE					BURLINGTON, KANSAS				
WIND SENSOR HEIGHT: 10.00 METERS					KANSAS GAS AND ELECTRIC				
TABLE GENERATED: 11/10/81 15 02 03					DAMES AND MOORE JOB NO: 7699-064				
WIND	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN	
SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		SPEED	
NNE	0	1	2	2	1	0	7	8	4.87
NE	0	5	14	3	0	0	24	40	3.92
ENE	0	0	1	1	0	0	3	2	4.77
E	0	0	1	0	0	0	1	2	3.95
ESE	0	0	3	0	0	0	4	20	4.12
SE	0	1	1	0	0	0	3	2	3.45
SSE	0	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0	5.30
SSW	0	0	0	1	0	0	4	20	5.32
SW	0	0	0	1	0	0	1	10	3.75
WSW	0	0	0	0	0	0	0	0	5.30
W	0	0	1	0	0	0	3	2	5.22
WNW	0	0	2	4	0	0	9	20	5.67
W	0	0	0	0	2	0	4	2	7.20
WNW	0	1	0	8	2	0	14	58	6.26
N	0	0	2	4	1	0	9	20	4.56
CALM	0	0	0	0	0	0	0	0	CALM
TOTAL	0	16	39	31	10	1	100	349	4.92

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINED

STABILITY CLASS: PASQUILL E
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.00 METERS
TABLE GENERATED: 11/10/81 15 02 03

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	00	1	1	0	0	0	3	3.19
NE	00	2	2	0	0	0	5	3.12
ENE	00	1	1	0	0	0	3	3.34
E	00	1	1	0	0	0	4	4.27
ESE	00	1	1	0	0	0	3	3.46
SE	00	1	1	0	0	0	3	3.93
SSE	00	2	5	4	0	0	11	4.67
S	00	2	5	1	0	0	18	5.36
SSW	00	1	1	2	1	0	5	6.15
SW	00	1	1	2	1	0	5	3.03
WSW	00	1	0	4	0	0	5	3.20
W	00	2	1	4	0	0	7	4.19
WNW	00	2	3	1	0	0	6	3.65
NW	00	2	3	1	0	0	6	3.78
NNW	00	2	14	1	0	0	17	3.64
N	00	1	1	2	0	0	4	3.88
CALM	00	0	0	0	0	0	0	CALM
TOTAL	3	28	35	25	4	1	100	4.30

KEY: III NUMBER OF OCCURRENCES
III PERCENT OCCURRENCES THIS CLASS
III PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINED

STABILITY CLASS: PASQUILL F
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.00 METERS
TABLE GENERATED: 11/10/81 15 02 03

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	00	1	0	0	0	0	1	2.86
NE	00	2	1	0	0	0	3	2.30
ENE	00	2	0	0	0	0	2	1.86
E	00	2	0	0	0	0	2	3.46
ESE	00	2	1	0	0	0	3	3.68
SE	00	1	2	0	0	0	3	2.70
SSE	00	3	6	0	0	0	9	3.39
S	00	2	9	1	0	0	12	3.68
SSW	00	2	6	1	0	0	9	3.80
SW	00	3	1	0	0	0	4	2.45
WSW	00	1	1	0	0	0	2	2.66
W	00	3	2	1	0	0	6	3.19
WNW	00	4	2	0	0	0	6	2.64
NW	00	6	2	0	0	0	8	2.69
NNW	00	1	1	0	0	0	2	2.74
N	00	1	0	0	0	0	1	3.41
CALM	00	0	0	0	0	0	0	CALM
TOTAL	3	28	35	25	4	1	100	3.09

KEY: III NUMBER OF OCCURRENCES
III PERCENT OCCURRENCES THIS CLASS
III PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JANUARY COMBINED

STABILITY CLASS PASQUILL 9				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/10/81 15 02 03				DAMES AND MOORE JOB NO 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)			TOTAL			MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	2	11	3	0	0	0	2.34
	1.39	7.84	2.08	0.00	0.00	11.11	
	10	5.5	1.53	0.00	0.00	80	
NE	0.5	0.5	2.73	0.00	0.00	4.17	3.22
	0.5	0.5	2.00	0.00	0.00	30	
ENE	0.5	0.5	0.00	0.00	0.00	1.00	1.55
	0.5	0.5	0.00	0.00	0.00	10	
E	2	1	2.78	0.00	0.00	6.43	2.37
	0.5	1.0	2.00	0.00	0.00	40	
ESE	0.0	2	0.00	0.00	0.00	2.78	2.45
	0.0	2.78	0.00	0.00	0.00	78	
SE	2	8	4.17	0.00	0.00	13.19	2.51
	0.5	6.44	3.50	0.00	0.00	93	
SSE	1	8	5.43	0.00	0.00	15.28	2.74
	0.5	6.03	4.07	0.00	0.00	110	
S	3	4	3.86	0.00	0.00	14.28	2.60
	0.5	4.53	3.5	0.00	0.00	103	
SSW	1	3	1.09	0.00	0.00	6.43	2.49
	0.5	2.5	1.10	0.00	0.00	29	
SW	0.0	0.0	0.00	0.00	0.00	1.00	2.55
	0.0	0.0	0.00	0.00	0.00	10	
WSW	1	1	0.00	0.00	0.00	2.78	1.85
	0.0	0.0	0.00	0.00	0.00	20	
W	0.0	0.0	0.00	0.00	0.00	2.00	2.17
	0.0	0.0	0.00	0.00	0.00	13	
WNW	2	1	0.00	0.00	0.00	3.13	1.36
	0.0	1.0	0.00	0.00	0.00	25	
NW	0.0	2	0.00	0.00	0.00	4.17	2.18
	0.0	2.0	0.00	0.00	0.00	30	
NNW	0.0	2	3.23	0.00	0.00	6.43	2.93
	0.0	2.78	2.5	0.00	0.00	43	
N	0.0	3	0.00	0.00	0.00	4.17	2.03
	0.0	2.5	0.00	0.00	0.00	30	
CALM	0.0	0.0	0.00	0.00	0.00	1	CALM
	0.0	0.0	0.00	0.00	0.00	0.5	
TOTAL	19	52	28.47	0.00	0.00	100	2.48
	1.40	3.75	2.05	0.00	0.00	7	

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JANUARY COMBINED

ALL CLASSES				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/10/81 15 02 03				DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	9	38	55	39	14	0	155	4.27
	45	1.90	2.75	1.95	70	0.00	7.75	
NE	8	44	65	22	9	0	149	3.93
	40	2.40	3.30	1.10	45	0.00	7.45	
ENE	15	25	26	7	0	0	73	2.99
	75	1.25	1.30	35	0.00	0.00	3.45	
E	10	20	41	16	1	0	90	3.67
	50	1.10	2.05	80	05	0.00	4.50	
ESE	3	20	23	10	0	0	56	3.61
	19	1.00	1.15	50	0.00	0.00	2.80	
SE	10	27	28	15	0	0	80	3.43
	50	1.35	1.40	75	0.00	0.00	4.00	
SSE	5	34	71	38	3	0	151	4.14
	25	1.70	3.55	1.90	15	0.00	7.55	
S	8	38	67	45	6	0	251	5.30
	40	1.90	4.35	3.35	2.25	30	12.54	
SSW	7	26	37	42	21	10	143	5.36
	35	1.30	1.85	2.10	1.05	50	7.15	
SW	9	31	16	11	3	0	69	3.35
	40	1.55	80	55	15	0.00	3.45	
WSW	9	27	23	7	1	0	67	3.12
	45	1.35	1.15	35	05	0.00	3.35	
W	5	26	37	19	2	0	100	3.61
	35	1.80	1.85	45	10	0.00	5.00	
WNW	8	29	38	42	11	1	139	4.44
	40	1.95	1.90	2.10	55	05	6.95	
NNW	4	28	49	40	23	5	149	5.16
	20	1.40	2.45	2.00	1.15	25	7.45	
NW	4	31	38	42	24	4	143	5.16
	20	1.55	1.90	2.10	1.40	20	7.15	
N	9	35	54	57	24	1	180	4.93
	45	1.75	2.70	2.85	1.40	05	9.00	
CALM	0	0	0	0	0	0	0	CALM
	00						00	
TOTAL	129	501	589	474	181	27	2001	4.40
	8.45	25.04	34.43	23.59	9.05	1.35	100.00	

NUMBER OF VALID OBSERVATIONS 2001
 NUMBER OF INVALID OBSERVATIONS 2001
 TOTAL NUMBER OF OBSERVATIONS 4002

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINEDSTABILITY CLASS PASQUILL A
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/10/81 15 33 48WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	1	2	1	3	00	7	5.07
NE	00	1	00	00	5	00	7	5.46
ENE	00	00	00	00	00	00	00	0.00
E	00	2	00	00	00	00	2	2.63
ESE	00	00	00	00	00	00	00	0.00
SE	1	1	00	2	2	2	6	4.02
SSE	00	1	2	2	00	2	7	4.81
S	00	1	2	00	3	3	9	7.89
SSW	1	1	00	1	00	00	3	3.53
SW	3	00	00	00	2	1	6	5.15
WSW	1	3	00	00	00	00	4	1.93
W	00	1	2	3	00	00	5	4.68
WNW	00	00	00	00	00	00	00	7.80
NW	00	00	00	00	1	00	1	6.11
NNW	00	00	2	4	2	00	8	8.66
N	00	00	00	5	11	2	18	7.03
CALM	00	00	2	9	1	3	15	CALM
TOTAL	7	12	12	27	28	13	100	6.50

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINEDSTABILITY CLASS PASQUILL B
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/10/81 15 33 48WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	2	4	00	3	2	11	6.15
NE	00	00	2	00	1	00	3	5.00
ENE	00	00	00	00	00	00	00	0.00
E	1	00	00	00	00	00	1	1.40
ESE	00	2	1	1	1	00	5	4.38
SE	00	00	00	00	00	00	00	0.00
SSE	00	00	00	00	00	00	00	6.20
S	00	00	1	1	00	00	2	5.80
SSW	00	00	1	00	1	00	2	6.04
SW	00	1	6	4	4	00	15	6.60
WSW	00	00	3	1	2	1	7	4.86
W	1	00	2	2	00	00	5	4.08
WNW	00	1	1	3	00	00	5	5.78
NW	00	1	00	6	3	00	10	6.73
NNW	00	00	00	6	5	1	12	7.47
N	00	00	3	5	1	2	11	6.95
CALM	00	00	00	00	00	00	00	CALM
TOTAL	2	8	27	31	23	6	100	6.10

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS) Page 6 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINED

STABILITY CLASS PASQUILL C				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/10/81 15 33 48				DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	3.49	5.88
NN	00	00	00	00	00	00	3.37	3.71
ENE	00	00	00	00	00	00	5.08	5.52
E	00	00	00	00	00	00	5.08	2.80
ESE	00	00	00	00	00	00	0.00	0.00
SE	00	00	00	00	00	00	4.90	4.90
SSE	00	00	00	00	00	00	4.24	4.24
S	00	00	00	00	00	00	6.17	6.17
SSW	00	00	00	00	00	00	5.74	5.74
SW	00	00	00	00	00	00	6.93	6.93
WSW	00	00	00	00	00	00	4.35	4.35
W	00	00	00	00	00	00	3.39	3.39
WNW	00	00	00	00	00	00	6.36	6.36
NW	00	00	00	00	00	00	6.79	6.79
NNW	00	00	00	00	00	00	6.30	6.30
N	00	00	00	00	00	00	6.14	6.14
CALM	00	00	00	00	00	00	CALM	CALM
TOTAL	00	11	40	39	22	5	118	5.73
	00	9.32	33.90	33.05	18.84	4.25	100.00	
	00	59	2.18	2.11	1.19	27	8.27	
KEY								
XXX NUMBER OF OCCURRENCES THIS CLASS								
XXX PERCENT OCCURRENCES THIS CLASS								
XXX PERCENT OCCURRENCES ALL CLASSES								

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINED

STABILITY CLASS PASQUILL D				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED: 11/10/81 15 33 48				DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
NE	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
ENE	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
E	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
ESE	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
SE	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
SSE	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
S	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
SSW	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
SW	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
WSW	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
W	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
WNW	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
NW	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
NNW	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
N	1.16 1.88 1.11 1.12	3.34 4.09 1.84 1.20	2.18 1.18 1.20 1.18	3.36 1.16 1.16 1.16	1.11		8.74 4.89 4.00 4.00	4.24
CALM	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	CALM
TOTAL	10.11 10.11 10.11 10.11	33.50 33.50 33.50 33.50	33.34 33.34 33.34 33.34	18.84 18.84 18.84 18.84	4.25 4.25 4.25 4.25	51.00 51.00 51.00 51.00	100.00 100.00 100.00 100.00	5.34

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL FEBRUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	1 4	2 8	1 0	0 0	0 0	15	3.17
NE	00	1 2	2 0	0 0	0 0	0 0	4 49	2.70
ENE	00	0 0	0 0	0 0	0 0	0 0	0 0	2.88
E	00	0 0	0 0	0 0	0 0	0 0	0 0	3.36
ESE	00	1 3	3 0	0 0	0 0	0 0	5 00	4.07
SE	00	1 3	1 0	0 0	0 0	0 0	3 00	3.31
SSE	00	2 4	1 0	1 0	0 0	0 0	5 00	5.07
S	00	2 0	1 0	1 0	1 0	0 0	15 00	4.97
SSW	00	2 0	1 0	1 0	1 0	0 0	15 00	4.17
SW	00	0 0	2 0	1 0	0 0	0 0	4 49	4.20
WSW	00	0 0	1 0	1 0	0 0	0 0	2 00	3.93
W	00	0 0	2 0	1 0	0 0	0 0	3 00	3.54
WSW	1 1	1 0	2 0	1 0	0 0	0 0	5 00	2.95
W	00	2 0	2 0	2 0	0 0	0 0	8 00	4.17
WNW	00	1 0	2 0	1 0	0 0	0 0	5 00	3.49
N	00	2 0	3 0	2 0	0 0	0 0	10 00	4.04
CALM	00	0 0	0 0	0 0	0 0	0 0	0 0	CALM
TOTAL	6 39	24 35	40 13	24 83	3 29	2 00	100 00	4.08

KEY
 111 NUMBER OF OCCURRENCES
 111 PERCENT OCCURRENCES THIS CLASS
 111 PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL FEBRUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	2 0	4 0	0 0	0 0	0 0	2 7	2.70
NE	00	2 0	2 0	0 0	0 0	0 0	4 00	3.14
ENE	00	2 0	1 0	0 0	0 0	0 0	3 00	2.61
E	00	2 0	1 0	0 0	0 0	0 0	5 00	3.04
ESE	00	1 0	1 0	0 0	0 0	0 0	2 00	3.14
SE	1 1	0 0	4 0	0 0	0 0	0 0	6 00	3.72
SSE	00	2 0	4 0	2 0	0 0	0 0	10 00	3.93
S	00	2 0	10 0	2 0	0 0	0 0	15 00	3.57
SSW	00	2 0	5 0	0 0	0 0	0 0	8 00	3.20
SW	00	2 0	1 0	0 0	0 0	0 0	5 00	3.19
WSW	00	3 0	2 0	0 0	0 0	0 0	6 00	2.75
W	00	3 0	1 0	0 0	0 0	0 0	7 00	2.63
WNW	00	2 0	2 0	0 0	0 0	0 0	5 00	3.03
W	00	4 0	1 0	0 0	0 0	0 0	5 00	2.78
WNW	1 1	2 0	2 0	0 0	0 0	0 0	4 00	2.93
N	00	2 0	2 0	0 0	0 0	0 0	5 00	3.15
CALM	00	0 0	0 0	0 0	0 0	0 0	0 0	CALM
TOTAL	7 39	39 94	45 109	7 17	0 0	0 0	100 00	3.15

KEY
 111 NUMBER OF OCCURRENCES
 111 PERCENT OCCURRENCES THIS CLASS
 111 PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

WIND SECTOR	WIND SPEED CATEGORIES METERS PER SECOND					SECOND		TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0-15.0	>15.0		
NNE	00	00	00	00	00	00	00	00	00
N	00	00	00	00	00	00	00	00	00
ENE	00	00	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00	00	00
SE	00	00	00	00	00	00	00	00	00
SSE	00	00	00	00	00	00	00	00	00
S	00	00	00	00	00	00	00	00	00
SSW	00	00	00	00	00	00	00	00	00
SW	00	00	00	00	00	00	00	00	00
WSW	00	00	00	00	00	00	00	00	00
W	00	00	00	00	00	00	00	00	00
WNW	00	00	00	00	00	00	00	00	00
NW	00	00	00	00	00	00	00	00	00
NNW	00	00	00	00	00	00	00	00	00
N	00	00	00	00	00	00	00	00	00
CALM	00	00	00	00	00	00	00	00	00
TOTAL	00	00	00	00	00	00	00	00	00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

WIND SECTOR	WIND SPEED CATEGORIES METERS PER SECOND					SECOND		TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0-15.0	>15.0		
NNE	00	00	00	00	00	00	00	00	00
N	00	00	00	00	00	00	00	00	00
ENE	00	00	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00	00	00
SE	00	00	00	00	00	00	00	00	00
SSE	00	00	00	00	00	00	00	00	00
S	00	00	00	00	00	00	00	00	00
SSW	00	00	00	00	00	00	00	00	00
SW	00	00	00	00	00	00	00	00	00
WSW	00	00	00	00	00	00	00	00	00
W	00	00	00	00	00	00	00	00	00
WNW	00	00	00	00	00	00	00	00	00
NW	00	00	00	00	00	00	00	00	00
NNW	00	00	00	00	00	00	00	00	00
N	00	00	00	00	00	00	00	00	00
CALM	00	00	00	00	00	00	00	00	00
TOTAL	00	00	00	00	00	00	00	00	00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MARCH COMBINED

STABILITY CLASS PASQUILL C
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAHES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	01	45	40	18	14	7.27
NE	00	00	00	00	00	00	00	2.80
ENE	00	00	00	00	00	00	00	1.90
E	18	00	00	00	00	00	18	4.93
ESE	00	00	00	00	00	00	00	4.57
SE	00	00	00	00	00	00	00	3.63
SSE	00	00	00	00	00	00	00	5.23
S	00	00	00	00	00	00	00	6.66
SSW	00	00	00	00	00	00	00	7.43
SW	00	00	00	00	00	00	00	4.40
WSW	00	00	00	00	00	00	00	3.43
W	00	00	00	00	00	00	00	0.00
WNW	00	00	00	00	00	00	00	8.40
NW	00	00	00	00	00	00	00	7.49
NNW	00	00	00	00	00	00	00	6.69
N	00	00	00	00	00	00	00	5.77
CALM	00	00	00	00	00	00	00	CALM
TOTAL	4	10	24	30	21	8	100	6.07

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MARCH COMBINED

STABILITY CLASS PASQUILL D
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAHES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	6.59
NE	00	00	00	00	00	00	00	4.33
ENE	00	00	00	00	00	00	00	4.69
E	00	00	00	00	00	00	00	5.09
ESE	00	00	00	00	00	00	00	6.52
SE	00	00	00	00	00	00	00	5.39
SSE	00	00	00	00	00	00	00	5.04
S	00	00	00	00	00	00	00	7.10
SSW	00	00	00	00	00	00	00	6.51
SW	00	00	00	00	00	00	00	6.87
WSW	00	00	00	00	00	00	00	3.98
W	00	00	00	00	00	00	00	7.62
WNW	00	00	00	00	00	00	00	7.90
NW	00	00	00	00	00	00	00	6.41
NNW	00	00	00	00	00	00	00	7.27
N	00	00	00	00	00	00	00	5.74
CALM	00	00	00	00	00	00	00	CALM
TOTAL	1	9	25	30	19	11	100	6.21

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS										
DATA PERIOD ALL MARCH COMBINED										
STABILITY CLASS PASQUILL E			WOLF CREEK GENERATING STATION							
DATA SOURCE ON-SITE			BURLINGTON, KANSAS							
WIND SENSOR HEIGHT 10.00 METERS			KANSAS GAS AND ELECTRIC							
TABLE GENERATED 11/10/81 15 47 44			DAMES AND MOORE JOB NO 7699-064							
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED		
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0				
NNE		1	4	3	0	0	3	14	3.89	
NE		1	2	1	0	0	3	14	3.89	
ENE		1	1	0	0	0	2	8	2.04	
E		2	1	1	0	0	4	16	2.74	
ESE		2	1	1	0	0	4	20	3.82	
SE		2	2	1	1	0	6	34	4.02	
SSE		2	2	2	1	0	7	33	4.00	
S		2	2	2	2	0	8	42	4.30	
SSW		1	3	7	10	4	25	80	6.75	
SW		0	1	3	4	2	10	11	7.40	
WSW		0	0	1	2	0	3	3	3.72	
W		0	0	0	0	0	0	48	3.39	
WNW		0	0	0	0	0	0	60	3.50	
NW		0	0	0	0	0	0	24	3.30	
NNW		0	0	0	0	0	0	54	3.89	
N		0	0	0	0	0	0	1	1.19	
CALM		0	0	0	0	0	0	6	4.35	
TOTAL	4	78	110	102	41	18	100	264	5.01	
		2	30	28	11	4	100	21		
		4	24	9	2	1	100	21		
		7	2	18	48	09	100	21		

KEY	1XX NUMBER OF OCCURRENCES
	1XX PERCENT OCCURRENCES THIS CLASS
	1XX PERCENT OCCURRENCES ALL CLASSES

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS										
DATA PERIOD ALL MARCH COMBINED										
STABILITY CLASS PASQUILL F			WOLF CREEK GENERATING STATION							
DATA SOURCE ON-SITE			BURLINGTON, KANSAS							
WIND SENSOR HEIGHT 10.00 METERS			KANSAS GAS AND ELECTRIC							
TABLE GENERATED 11/10/81 15 47 44			DAMES AND MOORE JOB NO. 7699-064							
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED		
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0				
NNE	00	00	1	2	00	00	3	14	3.03	
NE	00	00	1	2	00	00	3	14	3.03	
ENE	00	00	1	2	00	00	3	14	3.03	
E	00	00	1	2	00	00	3	14	3.03	
ESE	00	00	1	2	00	00	3	14	3.03	
SE	00	00	1	2	00	00	3	14	3.03	
SSE	00	00	1	2	00	00	3	14	3.03	
S	00	00	1	2	00	00	3	14	3.03	
SSW	00	00	1	2	00	00	3	14	3.03	
SW	00	00	1	2	00	00	3	14	3.03	
WSW	00	00	1	2	00	00	3	14	3.03	
W	00	00	1	2	00	00	3	14	3.03	
WNW	00	00	1	2	00	00	3	14	3.03	
NW	00	00	1	2	00	00	3	14	3.03	
NNW	00	00	1	2	00	00	3	14	3.03	
N	00	00	1	2	00	00	3	14	3.03	
CALM	00	00	1	2	00	00	3	14	3.03	
TOTAL	4	34	55	37	00	00	100	3.38		

KEY

NUMBER OF OCCURRENCES
PERCENT OCCURRENCES THIS CLASS
PERCENT OCCURRENCES ALL CLASSES

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS) Page 12 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

STABILITY CLASS: PASQUILL G
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.00 METERS
TABLE GENERATED: 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	1	0	0	0	0	1	2.80
N	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	1	1	0	0	0	0	2	1.70
ESE	0	1	2	0	0	0	3	3.60
SE	0	4	9	0	0	0	13	3.19
SSE	1	0	15	0	0	0	22	3.04
S	0	4	6	0	0	0	10	2.84
SSW	0	5	3	0	0	0	8	2.20
SW	0	4	0	0	0	0	4	1.77
WSW	1	2	0	0	0	0	3	1.97
W	2	4	0	0	0	0	6	2.87
WSW	1	4	4	0	0	0	9	2.01
NW	2	4	1	0	0	0	7	2.67
NNW	1	0	2	0	0	0	3	2.97
N	1	0	3	0	0	0	4	CALM
CALM	0	0	0	0	0	0	0	0.00
TOTAL	10	42	46	0	0	0	100	2.80

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

ALL CLASSES
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.00 METERS
TABLE GENERATED: 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	3	13	26	36	25	5	128	5.95
N	18	79	217	217	111	30	773	3.40
ENE	3	24	20	7	2	0	56	3.88
E	18	145	121	42	12	0	338	4.50
ESE	8	19	20	6	3	1	59	5.53
SE	48	115	121	36	30	0	356	4.38
SSE	36	122	120	12	4	6	417	4.72
S	3	21	21	15	12	14	100	6.57
SSW	18	121	211	91	72	85	604	6.82
SW	3	20	24	22	7	1	107	5.71
WSW	18	121	326	133	42	0	646	4.79
W	12	21	26	30	8	3	128	5.99
WSW	1	14	51	79	47	26	218	6.42
NW	0	85	308	477	284	157	1316	5.90
NNW	3	17	29	48	46	30	173	6.53
N	18	103	175	290	278	181	1045	5.28
ENE	3	13	20	11	7	1	69	5.90
E	18	79	121	42	12	4	242	5.99
ESE	42	121	11	36	9	3	48	6.42
SE	42	121	11	36	9	3	290	5.90
SSE	42	121	11	36	9	3	290	5.90
S	42	121	11	36	9	3	290	5.90
SSW	42	121	11	36	9	3	290	5.90
SW	42	121	11	36	9	3	290	5.90
WSW	42	121	11	36	9	3	290	5.90
W	42	121	11	36	9	3	290	5.90
WSW	42	121	11	36	9	3	290	5.90
NW	42	121	11	36	9	3	290	5.90
NNW	42	121	11	36	9	3	290	5.90
N	42	121	11	36	9	3	290	5.90
CALM	0	0	0	0	0	0	0	CALM
TOTAL	359	287	479	437	268	149	1656	5.65

NUMBER OF VALID OBSERVATIONS: 1656
NUMBER OF INVALID OBSERVATIONS: 287
TOTAL NUMBER OF OBSERVATIONS: 1943

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS PASQUILL A
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 37 57

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	1.4	1.4	1.4	0.00	0.00	3.12	4.00
NE	00	00	00	00	0.00	0.00	0.00	4.13
ENE	00	00	00	00	0.00	0.00	0.00	0.00
E	00	00	00	00	0.00	0.00	0.00	3.42
ESE	00	00	00	00	0.00	0.00	1.97	7.04
SE	00	00	00	00	0.00	0.00	3.42	6.89
SSE	00	00	00	00	0.00	0.00	3.42	8.00
S	00	00	00	00	0.00	0.00	7.12	9.24
SSW	00	00	00	00	0.00	0.00	1.41	8.05
SW	00	00	00	00	0.00	0.00	1.41	9.01
WSW	00	00	00	00	0.00	0.00	1.41	6.73
W	00	00	00	00	0.00	0.00	1.41	5.43
WNW	00	00	00	00	0.00	0.00	1.41	5.55
NW	00	00	00	00	0.00	0.00	1.41	8.25
NNW	00	00	00	00	0.00	0.00	1.41	6.95
N	00	00	00	00	0.00	0.00	1.41	5.68
CALM	00	00	00	00	0.00	0.00	1.41	CALM
TOTAL	00	4.00	16.00	30.00	31.00	15.00	100.00	7.49

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS PASQUILL B
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 37 57

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	1.4	1.4	1.4	0.00	3.12	6.27
NE	00	00	00	00	0.00	0.00	2.12	2.35
ENE	00	00	00	00	0.00	0.00	0.00	6.23
E	00	00	00	00	0.00	0.00	0.00	5.80
ESE	00	00	00	00	0.00	0.00	3.41	4.90
SE	00	00	00	00	0.00	0.00	5.12	7.12
SSE	00	00	00	00	0.00	0.00	7.12	9.01
S	00	00	00	00	0.00	0.00	14.12	9.64
SSW	00	00	00	00	0.00	0.00	7.12	7.57
SW	00	00	00	00	0.00	0.00	7.12	7.05
WSW	00	00	00	00	0.00	0.00	4.35	4.35
W	00	00	00	00	0.00	0.00	3.41	6.37
WNW	00	00	00	00	0.00	0.00	10.00	7.00
NW	00	00	00	00	0.00	0.00	12.12	6.82
NNW	00	00	00	00	0.00	0.00	5.12	7.52
N	00	00	00	00	0.00	0.00	6.23	7.28
CALM	00	00	00	00	0.00	0.00	0.00	CALM
TOTAL	00	7.12	11.12	26.00	32.00	11.12	100.00	7.20

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS PASQUILL C

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 10 37 57

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NHE	00	00	00	00	00	00	3.42	5.72
NE	00	00	00	00	00	00	7.84	4.80
ENE	00	00	00	00	00	00	2.33	3.87
E	00	00	00	00	00	00	0.00	0.00
ESE	00	00	00	00	00	00	2.94	4.17
SE	00	00	00	00	00	00	8.82	7.00
SSE	00	00	00	00	00	00	7.84	7.99
S	00	00	00	00	00	00	11.32	8.32
SSW	00	00	00	00	00	00	10.78	6.78
SW	00	00	00	00	00	00	1.78	4.20
WSW	00	00	00	00	00	00	3.42	8.63
W	00	00	00	00	00	00	6.86	6.83
WSE	00	00	00	00	00	00	4.90	6.14
WS	00	00	00	00	00	00	11.78	6.03
NWS	00	00	00	00	00	00	5.88	6.18
N	00	00	00	00	00	00	7.84	7.20
CALM	00	00	00	00	00	00	0.00	CALM
TOTAL	1.98	5.88	20.42	29.40	21.22	10.78	100.00	6.62

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS PASQUILL D

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 10 37 57

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NHE	00	00	00	00	00	00	3.42	5.37
NE	00	00	00	00	00	00	1.78	4.17
ENE	00	00	00	00	00	00	2.33	4.56
E	00	00	00	00	00	00	4.90	4.54
ESE	00	00	00	00	00	00	7.84	6.41
SE	00	00	00	00	00	00	8.82	6.76
SSE	00	00	00	00	00	00	9.80	8.36
S	00	00	00	00	00	00	13.81	8.09
SSW	00	00	00	00	00	00	4.90	8.12
SW	00	00	00	00	00	00	7.84	5.46
WSW	00	00	00	00	00	00	2.33	6.52
W	00	00	00	00	00	00	4.90	6.63
WSE	00	00	00	00	00	00	1.78	6.75
WS	00	00	00	00	00	00	11.78	7.14
NWS	00	00	00	00	00	00	5.88	6.66
N	00	00	00	00	00	00	7.84	6.68
CALM	00	00	00	00	00	00	0.00	CALM
TOTAL	4.90	27.42	28.14	35.40	27.18	10.78	100.00	6.81

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL APRIL COMBINEDSTABILITY CLASS PASQUILL G
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 37 57WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7599-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	2 58	2 58	0 00	0 00	0 00	5 16	3.31
NE	00	1 94	1 94	0 00	0 00	0 00	4 32	2.69
ENE	00	0 00	5 81	0 00	0 00	0 00	5 81	3.52
E	00	1 20	9 44	0 00	0 00	0 00	10 64	3.48
ESE	00	2 58	4 44	0 00	0 00	0 00	7 02	3.04
SE	00	8 33	9 44	0 00	0 00	0 00	17 77	3.10
SSE	00	7 74	11 81	0 00	0 00	0 00	20 00	3.07
S	00	1 94	2 58	0 00	0 00	0 00	5 16	2.61
SSW	00	1 20	0 00	0 00	0 00	0 00	1 20	2.30
SW	00	0 00	0 00	0 00	0 00	0 00	0 00	2.80
WSW	00	1 20	0 00	0 00	0 00	0 00	1 20	1.63
W	00	1 94	0 00	0 00	0 00	0 00	3 88	1.48
WNW	00	1 20	0 00	0 00	0 00	0 00	3 88	1.90
W	00	1 94	0 00	0 00	0 00	0 00	3 88	1.87
WNW	00	1 20	0 00	0 00	0 00	0 00	3 88	3.62
N	00	1 94	1 20	0 00	0 00	0 00	3 88	3.18
CALM	00	0 00	0 00	0 00	0 00	0 00	0 00	CALM
TOTAL	7 74	40 88	52 81	0 00	0 00	0 00	100 00	2.94

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL APRIL COMBINEDALL CLASSES
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 37 57WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7599-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	05	14	33	21	6	3	78	4.84
NE	24	29	28	14	0	0	95	3.47
ENE	05	10	39	14	0	0	68	4.15
E	05	29	25	22	4	0	89	4.51
ESE	00	13	24	23	13	6	135	5.52
SE	00	33	27	33	23	7	192	5.40
SSE	05	14	49	71	50	27	273	5.99
S	13	11	24	27	46	25	302	7.55
SSW	05	24	14	22	22	20	160	7.12
SW	00	13	17	13	13	11	69	6.36
WSW	05	13	17	13	13	11	69	5.47
W	05	13	17	13	13	11	69	5.46
WNW	05	13	17	13	13	11	69	5.44
NW	05	13	17	13	13	11	69	6.28
WNW	05	13	17	13	13	11	69	5.91
N	05	13	17	13	13	11	69	5.79
CALM	00	00	00	00	00	00	00	CALM
TOTAL	133	226	333	333	293	159	2081	5.92

NUMBER OF VALID OBSERVATIONS 2081
 WHICH IS 95.42 PCT
 TOTAL NUMBER OF OBSERVATIONS 2180
 WHICH IS 100.00 PCT

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)										TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0		
NNE	00	00	00	00	00	00	00	00	00	00	5.43	3.98
NE	00	00	00	00	00	00	00	00	00	00	5.10	5.10
ENE	00	00	00	00	00	00	00	00	00	00	5.87	5.87
E	00	00	00	00	00	00	00	00	00	00	4.57	4.57
ESE	00	00	00	00	00	00	00	00	00	00	5.20	5.20
SE	00	00	00	00	00	00	00	00	00	00	4.58	4.58
SSE	00	00	00	00	00	00	00	00	00	00	4.26	4.26
S	00	00	00	00	00	00	00	00	00	00	4.97	4.97
SSW	00	00	00	00	00	00	00	00	00	00	7.38	7.38
SW	00	00	00	00	00	00	00	00	00	00	8.10	8.10
WSW	00	00	00	00	00	00	00	00	00	00	8.00	8.00
W	00	00	00	00	00	00	00	00	00	00	3.32	3.32
WSW	00	00	00	00	00	00	00	00	00	00	4.26	4.26
W	00	00	00	00	00	00	00	00	00	00	4.63	4.63
WSW	00	00	00	00	00	00	00	00	00	00	5.43	5.43
N	00	00	00	00	00	00	00	00	00	00	4.90	4.90
CALM	00	00	00	00	00	00	00	00	00	00	CALM	CALM
TOTAL	3.10	10.85	24.03	28.37	27.15	6.28	100.00	5.98			6.07	

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)										TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0		
NNE	00	00	00	00	00	00	00	00	00	00	4.6	5.73
NE	00	00	00	00	00	00	00	00	00	00	4.24	4.24
ENE	00	00	00	00	00	00	00	00	00	00	4.68	4.68
E	00	00	00	00	00	00	00	00	00	00	4.73	4.73
ESE	00	00	00	00	00	00	00	00	00	00	4.91	4.91
SE	00	00	00	00	00	00	00	00	00	00	4.93	4.93
SSE	00	00	00	00	00	00	00	00	00	00	4.92	4.92
S	00	00	00	00	00	00	00	00	00	00	7.47	7.47
SSW	00	00	00	00	00	00	00	00	00	00	7.51	7.51
SW	00	00	00	00	00	00	00	00	00	00	3.93	3.93
WSW	00	00	00	00	00	00	00	00	00	00	4.02	4.02
W	00	00	00	00	00	00	00	00	00	00	3.34	3.34
WSW	00	00	00	00	00	00	00	00	00	00	3.94	3.94
W	00	00	00	00	00	00	00	00	00	00	5.19	5.19
WSW	00	00	00	00	00	00	00	00	00	00	5.14	5.14
N	00	00	00	00	00	00	00	00	00	00	5.70	5.70
CALM	00	00	00	00	00	00	00	00	00	00	CALM	CALM
TOTAL	3.10	10.85	24.03	28.37	27.15	6.28	100.00	5.98			6.07	

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MAY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	00	00	4	15	00	00	4	29	5.03
NE	00	00	1	74	00	00	1	75	3.97
ENE	00	00	2	16	00	00	2	18	2.67
E	00	00	1	3	00	00	1	4	4.62
ESE	00	00	1	2	00	00	1	3	3.84
SE	00	00	1	1	00	00	1	2	4.21
SSE	00	00	1	1	00	00	1	2	4.35
S	00	00	1	1	00	00	1	2	6.42
SSW	00	00	1	1	00	00	1	2	4.50
SW	00	00	1	1	00	00	1	2	4.01
WSW	00	00	1	1	00	00	1	2	3.74
W	00	00	1	1	00	00	1	2	3.43
WNW	00	00	1	1	00	00	1	2	3.21
NW	00	00	1	1	00	00	1	2	3.68
NNW	00	00	1	1	00	00	1	2	5.04
N	00	00	1	1	00	00	1	2	4.62
CALM	00	00	1	1	00	00	1	2	CALM
TOTAL	4	18	32	34	4	3	100	4.82	

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MAY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	00	00	1	00	00	00	1	9	3.14
NE	00	00	1	00	00	00	1	42	3.11
ENE	00	00	1	00	00	00	1	77	2.98
E	00	00	1	00	00	00	1	11	3.17
ESE	00	00	1	00	00	00	1	23	2.97
SE	00	00	1	00	00	00	1	27	2.60
SSE	00	00	1	00	00	00	1	29	2.83
S	00	00	1	00	00	00	1	11	3.16
SSW	00	00	1	00	00	00	1	23	2.86
SW	00	00	1	00	00	00	1	23	2.30
WSW	00	00	1	00	00	00	1	23	2.12
W	00	00	1	00	00	00	1	23	2.44
WNW	00	00	1	00	00	00	1	23	2.60
NW	00	00	1	00	00	00	1	23	2.58
NNW	00	00	1	00	00	00	1	23	2.20
N	00	00	1	00	00	00	1	23	3.11
CALM	00	00	1	00	00	00	1	23	CALM
TOTAL	9	123	89	3	1	0	100	2.89	

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MAY COMBINED

STABILITY CLASS PASQUILL G				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 10:41:53				DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)			SECOND)			TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	1 70	3 41	8 15	0 00	0 00	0 00	13 24	3.10
NE	1 70	2 28	2 44	0 00	0 00	0 00	11 11	2.33
ENE	0 00	5 11	1 14	0 00	0 00	0 00	6 25	2.59
E	1 70	3 49	5 77	0 00	0 00	0 00	10 10	2.32
ESE	0 00	4 33	1 14	0 00	0 00	0 00	5 47	2.29
SE	1 70	5 11	5 77	0 00	0 00	0 00	10 10	2.27
SSE	0 00	3 44	1 70	0 00	0 00	0 00	5 14	2.49
S	0 00	8 15	2 44	0 00	0 00	0 00	10 10	2.55
SSW	1 70	0 00	1 14	0 00	0 00	0 00	2 28	2.47
SW	0 00	0 00	0 00	0 00	0 00	0 00	0 00	2.00
WSW	0 00	0 00	0 00	0 00	0 00	0 00	0 00	1.75
W	2 28	2 28	0 00	0 00	0 00	0 00	4 56	1.68
WNW	0 00	5 11	0 00	0 00	0 00	0 00	5 11	2.35
NW	0 00	6 25	0 00	0 00	0 00	0 00	6 25	2.10
NNW	0 00	5 11	0 00	0 00	0 00	0 00	5 11	2.48
N	1 70	4 33	2 44	0 00	0 00	0 00	8 47	2.56
CALM	0 00	0 00	0 00	0 00	0 00	0 00	0 00	CALM
TOTAL	14 23	61 108	24 43	0 00	0 00	0 00	100 176	2.46

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MAY COMBINED

ALL CLASSES		WOLF CREEK GENERATING STATION						
DATA SOURCE ON-SITE		BURLINGTON, KANSAS						
WIND SENSOR HEIGHT 10.00 METERS		KANSAS GAS AND ELECTRIC						
TABLE GENERATED 11/11/81 10:41:53		DAMES AND MOORE JOB NO. 7699-064						
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED					
0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	4 19	1 25	2 59	47	5	3	143	4.71
		1 16	2 74	2 18	23	14	6.43	
NE	8 37	1 26	2 53	15	3	0	115	3.55
		1 67	2 46	70	14	0 00	5.33	
ENE	8 28	1 43	2 44	18	5	0	116	3.68
		1 99	2 04	83	23	0 00	5.38	
E	5 23	1 28	1 42	32	5	3	115	4.35
		1 30	1 95	1 48	23	14	5.33	
ESE	8 28	1 37	2 47	31	5	4	120	4.34
		1 72	2 18	1 44	23	19	6.03	
SE	5 43	1 39	3 66	36	3	1	150	4.12
		2 3	3 06	1 67	14	05	6.95	
SSE	1 05	2 53	3 71	44	10	05	180	4.30
		2 46	3 29	2 04	46		8.34	
S	9 42	2 45	3 69	172	103	60	458	6.70
		2 09	3 20	7 97	4 78	2 78	21.23	
SSW	9 42	1 15	1 34	46	80	29	213	7.18
		2 70	1 58	2 13	3 71	1 34	9.87	
SW	3 14	20	20	15	11	4	73	4.99
		93	93	70	51	19	3.38	
WSW	5 23	13	28	32	1	0	132	3.43
		60	28	32	05	0 00	1.48	
W	18 37	13	20	0	0	0 00	45	2.99
		60	1 02	09	0 00	0 00		
WNW	5 43	1 23	1 79	26	14	0	54	3.34
		1 57	79	26	3	0	2.50	
NW	4 19	1 02	74	1 48	28	0 00	80	4.52
		20	16	32	6	0	3.71	
NNW	1 05	1 07	1 67	50	32	0	117	4.74
		1 07	1 67	2 32	32	0 00	5.42	
N	5 10	1 31	2 44	41	14	1	126	4.71
		1 44	2 04	1 90	65	05	6.31	
CALM	0 00	0 00	0 00	0 00	0 00	0 00	0 00	CALM
TOTAL	84 387	466	546	594	261	106	2157	5.06
		21 60	29 95	27 54	12 10	4 91	100.00	

NUMBER OF VALID OBSERVATIONS 2157
NUMBER OF INVALID OBSERVATIONS 2
TOTAL NUMBER OF OBSERVATIONS 2232

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES

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TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

STABILITY CLASS PASQUILL A
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 54 26

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	14	208	312	1	00	25	3.11
NE	00	00	208	312	00	00	25	3.89
ENE	00	00	208	312	00	00	25	3.15
E	00	00	208	312	00	00	25	3.90
ESE	00	00	208	312	00	00	25	3.04
SE	00	00	208	312	00	00	25	3.70
SSE	00	00	208	312	00	00	25	4.30
S	00	00	208	312	00	00	25	6.17
SSW	00	00	208	312	00	00	25	6.96
SW	00	00	208	312	00	00	25	5.53
WSW	00	00	208	312	00	00	25	3.29
W	00	00	208	312	00	00	25	3.83
WSW	00	00	208	312	00	00	25	5.14
NW	00	00	208	312	00	00	25	4.12
NNW	00	00	208	312	00	00	25	6.25
N	00	00	208	312	00	00	25	5.59
CALM	00	00	208	312	00	00	25	CALM
TOTAL	102	1358	3119	120	16	4	100	5.57

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

STABILITY CLASS PASQUILL B
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 10 54 26

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	100	00	00	100	6.10
NE	00	00	00	00	00	00	00	2.15
ENE	00	00	00	00	00	00	00	1.70
E	00	00	00	00	00	00	00	3.90
ESE	00	00	00	00	00	00	00	5.17
SE	00	00	00	00	00	00	00	5.50
SSE	00	00	00	00	00	00	00	5.00
S	00	00	00	00	00	00	00	6.84
SSW	00	00	00	00	00	00	00	5.79
SW	00	00	00	00	00	00	00	5.20
WSW	00	00	00	00	00	00	00	7.47
W	00	00	00	00	00	00	00	2.85
WSW	00	00	00	00	00	00	00	3.24
W	00	00	00	00	00	00	00	4.07
WSW	00	00	00	00	00	00	00	5.53
N	00	00	00	00	00	00	00	2.20
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	37	13	3	100	5.31

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

STABILITY CLASS: PASQUILL C
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.00 METERS
TABLE GENERATED: 11/11/81 10 54 26

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	2	00	00	00	2	4.10
N	00	00	00	00	00	00	00	2.15
ENE	1	00	00	00	00	00	1	2.70
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	4.40
SE	00	00	1	00	00	00	1	4.52
SSE	00	00	3	1	00	00	4	5.10
S	00	1	3	4	1	00	9	6.84
SSW	00	1	4	12	10	1	28	6.38
SW	00	3	2	10	4	2	21	9.67
WSW	00	00	00	00	1	2	3	11.70
W	00	00	00	00	00	1	1	6.10
WNW	00	1	1	00	00	1	3	4.06
NW	00	2	4	1	00	00	7	4.60
NNW	00	1	5	3	00	00	9	4.08
N	00	1	4	00	00	00	5	7.70
CALM	00	00	00	00	00	00	00	CALM
TOTAL	1	12	29	31	17	7	100	5.84
	03	59	143	133	84	35	474	

KEY: *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

STABILITY CLASS: PASQUILL D
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.00 METERS
TABLE GENERATED: 11/11/81 10 54 26

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	1	4	00	00	5	4.07
NE	00	00	1	3	00	00	4	3.35
ENE	00	00	1	00	00	00	1	3.71
E	00	00	2	4	00	00	6	3.95
ESE	00	1	2	4	00	00	7	4.18
SE	00	1	2	00	00	00	3	3.49
SSE	00	1	2	00	00	00	3	4.52
S	00	2	4	3	00	00	9	6.16
SSW	00	1	7	7	4	1	20	6.49
SW	00	1	3	1	1	1	7	5.36
WSW	00	00	1	00	00	00	1	3.20
W	00	00	00	00	00	00	00	4.77
WNW	00	00	00	00	00	00	00	5.73
NW	00	00	00	00	00	00	00	4.57
NNW	00	00	00	00	00	00	00	4.60
N	00	00	00	00	00	00	00	3.90
CALM	00	00	00	00	00	00	00	CALM
TOTAL	0	13	40	25	15	3	100	5.18
	03	59	143	133	84	35	474	

KEY: *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JUNE COMBINED

STABILITY CLASS PASQUILL E				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/11/81 10 54 26				DAMES AND MOORE JOB NO 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-9-10-0	>10-0	
NNE	0	1	3	1	0	0	3.77
	0	0	2	0	0	0	3.59
NE	0	3	1	3	0	0	3.28
	0	1	2	0	0	0	3.18
ENE	0	3	3	1	0	0	3.10
	0	0	1	0	0	0	2.89
E	0	1	1	0	0	0	2.84
	0	0	0	0	0	0	2.25
ESE	0	1	1	0	0	0	3.11
	0	0	4	0	0	0	2.84
SE	0	3	1	3	0	0	3.52
	0	0	3	1	0	0	3.35
SSE	0	1	1	0	0	0	4.39
	0	0	2	0	0	0	4.18
S	0	1	1	0	0	0	4.99
	0	0	3	0	0	0	4.84
SSW	0	1	1	0	0	0	5.80
	0	0	2	0	0	0	5.65
SW	0	1	1	0	0	0	4.18
	0	0	3	0	0	0	3.99
WSW	0	1	0	0	0	0	3.33
	0	0	2	0	0	0	3.18
W	0	0	0	0	0	0	3.26
	0	0	0	0	0	0	2.89
WNW	0	0	0	0	0	0	4.29
	0	0	0	0	0	0	4.18
NW	0	0	0	0	0	0	4.84
	0	0	0	0	0	0	4.69
NNW	0	0	0	0	0	0	5.17
	0	0	0	0	0	0	4.99
N	0	0	0	0	0	0	3.27
	0	0	0	0	0	0	3.10
CALM	0	0	0	0	0	0	CALM
	0	0	0	0	0	0	0.00
TOTAL	121	255	146	39	8	100	4.57
	3.97	4.04	4.25	4.72	3.38	28.56	

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JUNE COMBINED

STABILITY CLASS PASQUILL F				WOLF CREEK GENERATING STATION					
DATA SOURCE ON-SITE				BURLINGTON, KANSAS					
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC					
TABLE GENERATED 11/11/81 10 54 26				DAMES AND MOORE JOB NO 7699-064					
WIND SECTOR	0-1-5	WIND SPEED CATEGORIES (METERS PER SECOND)	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	0	10	2	0	0	0	0	12	2.69
	0	4	8	0	0	0	0	5	2.34
NE	0	4	10	0	0	0	0	5	2.34
	8	4	1	0	0	0	0	6	2.5
ENE	10	4	1	0	0	0	0	5	2.16
	4	2	0	0	0	0	0	3	1.7
E	0	4	0	0	0	0	0	3	2.76
	4	1	0	0	0	0	0	3	1.2
ESE	8	5	8	0	0	0	0	7	2.50
	10	5	10	0	0	0	0	7	2.61
SE	0	6	2	0	0	0	0	9	2.69
	0	10	6	0	0	0	0	17	3.14
SSE	0	10	6	0	0	0	0	17	3.14
	4	0	10	0	0	0	0	16	2.7
S	0	4	10	0	0	0	0	17	2.59
	1	4	0	0	0	0	0	7	2.14
SSW	0	4	0	0	0	0	0	4	2.20
	1	4	0	0	0	0	0	4	2.12
SW	0	4	0	0	0	0	0	4	2.92
	0	4	0	0	0	0	0	4	2.00
WSW	0	4	0	0	0	0	0	4	2.92
	0	4	0	0	0	0	0	4	2.60
W	0	4	0	0	0	0	0	4	2.60
	0	4	0	0	0	0	0	4	2.60
WNW	0	4	0	0	0	0	0	4	2.60
	0	4	0	0	0	0	0	4	2.60
NW	0	4	0	0	0	0	0	4	2.60
	0	4	0	0	0	0	0	4	2.60
NNW	0	4	0	0	0	0	0	4	2.60
	0	4	0	0	0	0	0	4	2.60
N	0	4	0	0	0	0	0	4	2.60
	0	4	0	0	0	0	0	4	2.60
CALM	0	0	0	0	0	0	0	0	CALM
	0	0	0	0	0	0	0	0	0
TOTAL	8	50	32	0	0	0	0	100	2.64

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

STABILITY CLASS PASQUILL 0				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/11/81 10 54 26				DAMES AND MOORE JOB NO 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	12	12	3	0	0	0	17
	1.19	14	1.79	0.00	0.00	0.00	10.12
	10	59	15	0.00	0.00	0.00	84
NE	12	2	0	0	0	0	14
	1.19	98	0.00	0.00	0.00	0.00	4.17
	10	23	0.00	0.00	0.00	0.00	35
ENE	12	1	0	0	0	0	13
	1.19	79	0.00	0.00	0.00	0.00	2.38
	10	15	0.00	0.00	0.00	0.00	4
E	12	0	0	0	0	0	12
	1.19	1	0.00	0.00	0.00	0.00	20
	10	35	0.00	0.00	0.00	0.00	7
ESE	12	4	6	0	0	0	22
	1.19	35	0.00	0.00	0.00	0.00	44
	10	179	2.38	0.00	0.00	0.00	4.17
	10	15	20	0.00	0.00	0.00	35
SE	12	5	1	0	0	0	18
	1.19	36	1.79	0.00	0.00	0.00	7.74
	10	44	15	0.00	0.00	0.00	64
SSE	12	11	2	0	0	0	15
	1.19	121	2.38	0.00	0.00	0.00	26
	10	94	20	0.00	0.00	0.00	95
S	12	1	0	0	0	0	13
	1.19	79	0.00	0.00	0.00	0.00	1.28
	10	25	1.79	0.00	0.00	0.00	10
SSW	12	1	0	0	0	0	13
	1.19	79	0.00	0.00	0.00	0.00	49
	10	15	0.00	0.00	0.00	0.00	3
SW	12	1	0	0	0	0	13
	1.19	79	0.00	0.00	0.00	0.00	30
	10	15	0.00	0.00	0.00	0.00	2
WSW	12	0	0	0	0	0	12
	1.19	0	0.00	0.00	0.00	0.00	1.19
	10	0	0.00	0.00	0.00	0.00	9
W	12	4	0	0	0	0	16
	1.19	36	0.00	0.00	0.00	0.00	44
	10	22	1.00	0.00	0.00	0.00	3
WNW	12	1	1	0	0	0	14
	1.19	10	1.19	0.00	0.00	0.00	2.38
	10	10	10	0.00	0.00	0.00	20
N	12	2	0	0	0	0	14
	1.19	98	0.00	0.00	0.00	0.00	3
	10	23	0.00	0.00	0.00	0.00	35
NNE	12	5	0	0	0	0	17
	1.19	49	0.00	0.00	0.00	0.00	7.74
	10	9	0.00	0.00	0.00	0.00	15
ENE	12	5	2	0	0	0	19
	1.19	36	2.38	0.00	0.00	0.00	8.93
	10	44	20	0.00	0.00	0.00	74
E	12	1	0	0	0	0	13
	1.19	79	0.00	0.00	0.00	0.00	11
	10	15	0.00	0.00	0.00	0.00	99
ESE	12	0	0	0	0	0	12
	1.19	0	0.00	0.00	0.00	0.00	0.00
	10	0	0.00	0.00	0.00	0.00	0.00
SE	12	117	26	0	0	0	168
	1.19	69	2.38	0.00	0.00	0.00	100.00
	10	57	1.28	0.00	0.00	0.00	87

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

ALL CLASSES		WOLF CREEK GENERATING STATION					
DATA SOURCE ON-SITE		BURLINGTON, KANSAS					
WIND SENSOR HEIGHT 10.00 METERS		KANSAS GAS AND ELECTRIC					
TABLE GENERATED 11/11/81 10 54 26		DAMES AND MOORE JOB NO 7699-064					
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED				
0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	3	20	27	16	1	0	3.84
	15	1.48	1.33	.79	.05	0.00	3.77
NE	6	22	28	3	0	0	3.03
	30	1.59	1.38	.15	0.00	0.00	3.40
ENE	4	22	29	3	0	0	3.08
	20	.89	1.43	.15	0.00	0.00	2.78
E	4	24	28	2	2	0	3.28
	25	1.18	1.38	.10	.10	0.00	3.01
ESE	4	30	28	5	3	0	3.43
	20	1.48	1.38	.25	.15	0.00	3.45
SE	2	43	37	8	0	0	3.26
	10	2.12	1.83	.39	.05	0.00	4.49
SSE	7	71	107	52	6	0	3.94
	35	3.50	5.28	2.57	.30	0.00	11.99
S	5	59	183	145	100	11	5.51
	25	2.91	9.03	7.15	4.93	.54	24.81
SSW	4	33	77	128	63	29	6.12
	30	1.63	3.89	6.31	3.11	1.43	16.58
SW	4	25	25	17	8	0	4.68
	20	1.23	1.73	.84	.39	.30	4.69
WSW	4	28	13	5	0	0	3.25
	20	1.28	.84	.25	0.00	.10	2.47
W	0	27	26	2	1	3	3.74
	05	1.33	1.28	.10	.05	.15	2.96
WNW	2	22	23	14	1	0	4.13
	10	1.09	1.13	.69	.05	.10	3.18
W	4	23	21	15	4	0	3.92
	25	1.13	1.04	.74	.20	0.00	3.35
WNW	5	23	36	34	7	0	4.51
	25	1.13	1.78	1.68	.35	0.00	5.18
N	3	39	22	8	7	0	3.57
	15	1.92	1.09	.39	.35	0.00	3.90
CALM	0	0	0	0	0	0	CALM
	0.03					0.00	
TOTAL	327	723	457	204	53	2027	4.60
	3.26	26.00	35.80	22.05	10.06	2.61	100.00

NUMBER OF VALID OBSERVATIONS 2027
 NUMBER OF INVALID OBSERVATIONS 2133
 TOTAL NUMBER OF OBSERVATIONS 4160

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

STABILITY CLASS PASQUILL A

DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION

BURLINGTON KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	000000	000000	000000	000000	000000	000000	3.14	5.20
NE	000000	000000	000000	000000	000000	000000	3.54	5.21
ENE	000000	000000	000000	000000	000000	000000	2.27	4.70
E	000000	000000	000000	000000	000000	000000	1.00	4.46
ESE	000000	000000	000000	000000	000000	000000	3.00	3.74
SE	000000	000000	000000	000000	000000	000000	5.81	4.03
SSE	000000	000000	000000	000000	000000	000000	1.77	4.07
S	000000	000000	000000	000000	000000	000000	6.06	5.84
SSW	000000	000000	000000	000000	000000	000000	2.22	6.64
SW	000000	000000	000000	000000	000000	000000	3.14	5.27
WSW	000000	000000	000000	000000	000000	000000	1.00	4.49
W	000000	000000	000000	000000	000000	000000	4.22	4.69
WNW	000000	000000	000000	000000	000000	000000	2.22	3.99
NW	000000	000000	000000	000000	000000	000000	3.88	2.97
NNW	000000	000000	000000	000000	000000	000000	1.00	5.60
N	000000	000000	000000	000000	000000	000000	2.22	4.88
CALM	000000	000000	000000	000000	000000	000000	0.00	CALM
TOTAL	9.26	141	173	19	25	100.00	396	5.45
	1.09	35.61	43.69	4.80	6.31	18.58		
		6.62	8.12	89	1.17			

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

STABILITY CLASS PASQUILL B

DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION

BURLINGTON KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	000000	000000	000000	000000	000000	000000	5.83	3.97
NE	000000	000000	000000	000000	000000	000000	2.28	1.72
ENE	000000	000000	000000	000000	000000	000000	3.88	4.15
E	000000	000000	000000	000000	000000	000000	1.94	4.20
ESE	000000	000000	000000	000000	000000	000000	1.94	3.10
SE	000000	000000	000000	000000	000000	000000	2.91	2.57
SSE	000000	000000	000000	000000	000000	000000	3.88	4.54
S	000000	000000	000000	000000	000000	000000	7.77	5.36
SSW	000000	000000	000000	000000	000000	000000	35.92	5.91
SW	000000	000000	000000	000000	000000	000000	18.45	4.45
WSW	000000	000000	000000	000000	000000	000000	1.94	5.70
W	000000	000000	000000	000000	000000	000000	4.85	2.82
WNW	000000	000000	000000	000000	000000	000000	2.22	4.20
NW	000000	000000	000000	000000	000000	000000	1.00	2.00
NNW	000000	000000	000000	000000	000000	000000	1.94	4.10
N	000000	000000	000000	000000	000000	000000	4.85	4.38
CALM	000000	000000	000000	000000	000000	000000	0.00	CALM
TOTAL	19.20	77	40	4	1	100.00	471	
	2.5	35.92	38.83	3.88	0.5	4.83		
		1.74	1.88	19				

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES METERS PER SECOND							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	00	1 00	5 00	0 00	0 00	0 00	6 00	3.80	
NE	00	0 00	1 00	0 00	0 00	0 00	1 00	4.80	
ENE	00	0 00	2 00	0 00	0 00	0 00	4 08	3.53	
E	1 00	0 00	1 00	1 00	0 00	0 00	3 00	3.63	
ESE	00	0 00	2 00	0 00	0 00	0 00	2 00	4.20	
SE	00	0 00	0 00	0 00	1 00	0 00	4 08	3.77	
SSE	00	0 00	3 00	1 00	0 00	0 00	8 00	3.24	
S	00	0 00	9 00	12 00	1 00	0 00	27 00	4.61	
SSW	00	0 00	5 00	11 00	0 00	0 00	19 00	5.08	
SW	00	0 00	0 00	3 00	0 00	0 00	3 00	6.03	
WSW	00	0 00	1 00	0 00	0 00	0 00	1 00	4.90	
W	00	0 00	0 00	0 00	0 00	0 00	0 00	2.80	
WSW	00	0 00	0 00	1 00	0 00	0 00	3 00	3.02	
NW	00	0 00	2 00	0 00	0 00	0 00	2 00	4.15	
NNW	1 00	4 00	1 00	0 00	0 00	0 00	6 00	2.07	
N	00	0 00	4 00	1 00	0 00	0 00	5 00	4.66	
CALM	00	0 00	19 00	1 00	0 00	0 00	20 00	CALM	
TOTAL	2 00	27 00	37 00	30 00	2 00	0 00	100 00	4.19	

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES METERS PER SECOND							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	00	2 00	1 45	4 00	0 00	0 00	4 00	3.30	
NE	00	1 00	2 00	14 00	0 00	0 00	5 00	3.64	
ENE	00	0 00	4 00	1 00	0 00	0 00	7 00	3.65	
E	00	3 00	2 00	8 00	0 00	0 00	13 00	3.36	
ESE	00	0 00	0 00	4 00	0 00	0 00	7 00	3.42	
SE	00	0 00	2 00	1 45	4 00	0 00	4 00	4.80	
SSE	00	0 00	3 00	3 00	0 00	0 00	6 00	3.49	
S	00	0 00	3 00	7 44	3 00	0 00	13 00	5.21	
SSW	00	0 00	1 45	1 00	0 00	0 00	2 00	4.99	
SW	00	0 00	1 00	6 00	0 00	0 00	7 00	4.10	
WSW	00	0 00	0 00	14 00	0 00	0 00	14 00	2.86	
W	00	0 00	0 00	0 00	0 00	0 00	0 00	4.15	
WSW	00	0 00	1 00	1 45	0 00	0 00	3 00	4.86	
NW	00	0 00	1 00	3 00	0 00	0 00	4 00	4.06	
NNW	00	0 00	0 00	1 45	0 00	0 00	3 00	2.82	
N	00	0 00	0 00	0 00	0 00	0 00	0 00	3.85	
CALM	00	0 00	0 00	14 00	0 00	0 00	14 00	CALM	
TOTAL	1 00	10 00	21 00	114 00	7 00	0 00	153 00	4.26	

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD ALL JULY COMBINED

STABILITY CLASS PASQUILL E

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	3.08
NE	00	00	00	00	00	00	00	3.42
ENE	00	00	00	00	00	00	00	3.22
E	00	00	00	00	00	00	00	4.45
ESE	00	00	00	00	00	00	00	3.04
SE	00	00	00	00	00	00	00	2.86
SSE	00	00	00	00	00	00	00	3.03
S	00	00	00	00	00	00	00	3.95
SSW	00	00	00	00	00	00	00	3.68
SW	00	00	00	00	00	00	00	3.64
WSW	00	00	00	00	00	00	00	3.52
W	00	00	00	00	00	00	00	3.34
WNW	00	00	00	00	00	00	00	4.90
NW	00	00	00	00	00	00	00	3.34
NNW	00	00	00	00	00	00	00	2.82
N	00	00	00	00	00	00	00	3.30
CALM	00	00	00	00	00	00	00	CALM
TOTAL	4	40	40	13	4	4	100	3.51

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD ALL JULY COMBINED

STABILITY CLASS PASQUILL F

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	2.49
NE	00	00	00	00	00	00	00	2.24
ENE	00	00	00	00	00	00	00	2.70
E	00	00	00	00	00	00	00	2.94
ESE	00	00	00	00	00	00	00	2.82
SE	00	00	00	00	00	00	00	2.32
SSE	00	00	00	00	00	00	00	2.62
S	00	00	00	00	00	00	00	3.03
SSW	00	00	00	00	00	00	00	3.05
SW	00	00	00	00	00	00	00	2.96
WSW	00	00	00	00	00	00	00	2.73
W	00	00	00	00	00	00	00	3.14
WNW	00	00	00	00	00	00	00	3.20
NW	00	00	00	00	00	00	00	2.33
NNW	00	00	00	00	00	00	00	1.81
N	00	00	00	00	00	00	00	2.81
CALM	00	00	00	00	00	00	00	CALM
TOTAL	4	40	40	13	4	4	100	2.72

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL JULY COMBINED

STABILITY CLASS: PASQUILL G

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.00 METERS

TABLE GENERATED: 11/11/81 13 42 02

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	10	1	0	0	0	11	2.67
NE	00	4	0	0	0	0	4	2.71
ENE	00	2	5	0	0	0	7	3.42
E	00	4	3	0	0	0	7	2.65
ESE	00	4	1	0	0	0	5	2.32
SE	00	6	2	0	0	0	8	2.30
SSE	00	13	4	0	0	0	17	2.61
S	1	7	5	0	0	0	12	2.72
SSW	00	0	0	0	0	0	0	2.47
SW	00	0	0	0	0	0	0	0.00
WSW	00	0	0	0	0	0	0	0.00
W	00	1	0	0	0	0	1	1.70
WNW	00	1	0	0	0	0	1	2.13
NW	00	1	0	0	0	0	1	2.47
NNW	00	1	0	0	0	0	1	2.96
N	00	2	0	0	0	0	2	3.07
CALM	00	0	0	0	0	0	0	CALM
TOTAL	5	63	28	1	0	0	96	2.67

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL JULY COMBINED

ALL CLASSES

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.00 METERS

TABLE GENERATED: 11/11/81 13 42 02

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	3	14	31	12	0	0	104	3.32
NE	3	14	32	38	0	0	87	3.41
ENE	5	23	49	64	16	0	125	3.53
E	7	33	59	75	14	0	188	3.58
ESE	11	52	83	52	11	0	208	3.14
SE	10	47	78	40	9	0	184	3.00
SSE	3	14	145	99	10	0	258	3.04
S	8	38	104	197	140	34	489	4.57
SSW	3	14	40	83	119	9	276	5.40
SW	0	0	17	25	26	1	69	4.29
WSW	0	0	9	15	7	0	31	3.66
W	1	0	21	18	14	0	54	3.77
WNW	1	0	10	17	11	0	39	4.05
NW	2	0	10	20	7	0	43	3.45
NNW	3	0	19	33	5	0	55	2.71
N	2	0	22	39	15	0	82	3.67
CALM	0	0	0	0	0	0	0	CALM
TOTAL	74	249	729	906	426	56	2131	3.91

NUMBER OF VALID OBSERVATIONS: 2131
 NUMBER OF INVALID OBSERVATIONS: 0
 TOTAL NUMBER OF OBSERVATIONS: 2131

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

STABILITY CLASS PASQUILL A

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 13 51 50

WOLF CREEK GENERATING STATION

BURLINGTON KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3	3-5-0	5-0-7	5-7-5	7-5-10	10-0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	10	5.12
NE	00	00	00	00	00	00	00	47	5.00
ENE	00	00	00	00	00	00	00	19	3.90
E	00	00	00	00	00	00	00	33	4.63
ESE	00	00	00	00	00	00	00	14	3.79
SE	00	00	00	00	00	00	00	11	4.43
SSE	00	00	00	00	00	00	00	31	4.33
S	00	00	00	00	00	00	00	79	6.03
SSW	00	00	00	00	00	00	00	12	5.84
SW	00	00	00	00	00	00	00	81	4.45
WSW	00	00	00	00	00	00	00	40	2.90
W	00	00	00	00	00	00	00	14	4.10
WNW	00	00	00	00	00	00	00	33	3.20
NW	00	00	00	00	00	00	00	10	6.22
NNW	00	00	00	00	00	00	00	49	5.65
N	00	00	00	00	00	00	00	35	3.74
CALM	00	00	00	00	00	00	00	00	CALM
TOTAL	28	9	25	48	13	00	00	100	5.46
	128	128	403	647	181	00	00	1330	

KEY: IXX NUMBER OF OCCURRENCES
 IXX PERCENT OCCURRENCES THIS CLASS
 IXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

STABILITY CLASS PASQUILL B

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 13 51 50

WOLF CREEK GENERATING STATION

BURLINGTON KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3	3-5-0	5-0-7	5-7-5	7-5-10	10-0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	1	5.10
NE	00	00	00	00	00	00	00	09	6.80
ENE	00	00	00	00	00	00	00	05	3.40
E	00	00	00	00	00	00	00	05	3.70
ESE	00	00	00	00	00	00	00	05	3.05
SE	00	00	00	00	00	00	00	23	4.00
SSE	00	00	00	00	00	00	00	4	4.78
S	00	00	00	00	00	00	00	35	5.57
SSW	00	00	00	00	00	00	00	21	5.97
SW	00	00	00	00	00	00	00	58	5.30
WSW	00	00	00	00	00	00	00	4	3.03
W	00	00	00	00	00	00	00	2	2.26
WNW	00	00	00	00	00	00	00	3	2.30
NW	00	00	00	00	00	00	00	2	5.80
NNW	00	00	00	00	00	00	00	4	5.60
N	00	00	00	00	00	00	00	7	3.80
CALM	00	00	00	00	00	00	00	00	CALM
TOTAL	13	18	34	40	11	00	00	100	5.11
	128	128	403	647	181	00	00	1330	

KEY: IXX NUMBER OF OCCURRENCES
 IXX PERCENT OCCURRENCES THIS CLASS
 IXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL AUGUST COMBINED

STABILITY CLASS PASQUILL C
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 13 51 50

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	1 3 2	00	1 3 2	00	00	2 68	3.87
NE	00	00	00	00	00	00	19	4.08
ENE	00	00	00	00	00	00	3 30	4.75
E	00	00	00	00	00	00	4 158	4.73
ESE	00	00	00	00	00	00	2 01	4.60
SE	00	00	00	00	00	00	2 01	3.87
SSE	00	00	00	00	00	00	2 68	4.43
S	00	00	00	00	00	00	10 74	5.61
SSW	00	00	00	00	00	00	24 16	5.77
SW	00	00	00	00	00	00	25 50	5.16
WSW	00	00	00	00	00	00	6 04	3.84
W	00	00	00	00	00	00	4 70	4.62
WNW	00	00	00	00	00	00	1 04	1.80
NW	00	00	00	00	00	00	2 01	5.57
NNW	00	00	00	00	00	00	2 01	4.50
N	00	00	00	00	00	00	4 03	3.57
CALM	00	00	00	00	00	00	0 00	CALM
TOTAL	2 01	12 73	38 03	26 54	10 07	0 00	100 100	5.02

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL AUGUST COMBINED

STABILITY CLASS PASQUILL D
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 13 51 50

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	3 12	2 14	2 12	00	00	9 48	4.20
NE	00	00	00	00	00	00	2 23	4.07
ENE	00	00	00	00	00	00	1 72	4.26
E	00	00	00	00	00	00	1 50	4.39
ESE	00	00	00	00	00	00	1 50	3.76
SE	00	00	00	00	00	00	3 80	3.43
SSE	00	00	00	00	00	00	5 40	4.07
S	00	00	00	00	00	00	28 60	4.78
SSW	00	00	00	00	00	00	22 10	4.68
SW	00	00	00	00	00	00	12 30	3.87
WSW	00	00	00	00	00	00	4 00	3.10
W	00	00	00	00	00	00	1 00	4.10
WNW	00	00	00	00	00	00	1 00	2.37
NW	00	00	00	00	00	00	2 00	4.25
NNW	00	00	00	00	00	00	1 00	4.50
N	00	00	00	00	00	00	4 00	4.18
CALM	00	00	00	00	00	00	0 00	CALM
TOTAL	5 00	72 13	41 20	27 138	1 27	0 00	100 500	4.27

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	1	8	4	3	0	1	17	3.72
NE	17	37	19	14	0	0	77	2.95
ENE	0	2	1	1	0	0	4	4.04
E	0	1	1	1	0	0	3	3.88
ESE	0	1	2	1	0	0	4	3.35
SE	0	3	1	0	0	0	4	2.87
SSE	0	1	1	0	0	0	2	3.78
S	0	1	1	1	0	0	3	4.23
SSW	0	1	1	1	0	0	3	3.94
SW	0	1	1	1	0	0	3	3.03
WSW	0	1	1	1	0	0	3	4.34
W	0	1	1	1	0	0	3	2.90
WNW	0	1	1	1	0	0	3	3.46
NW	0	1	1	1	0	0	3	3.63
NNW	0	1	1	1	0	0	3	4.31
N	0	1	1	1	0	0	3	3.41
CALM	0	0	0	0	0	0	0	CALM
TOTAL	2	33	257	113	1	1	100	3.85

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	0	1	1	0	0	0	2	2.68
NE	0	1	1	0	0	0	2	1.97
ENE	0	2	1	0	0	0	3	2.63
E	0	2	1	0	0	0	3	3.29
ESE	0	2	1	0	0	0	3	2.78
SE	0	2	1	0	0	0	3	2.67
SSE	0	1	1	0	0	0	2	2.82
S	0	1	1	0	0	0	2	3.27
SSW	0	1	1	0	0	0	2	2.67
SW	0	1	1	0	0	0	2	1.40
WSW	0	1	1	0	0	0	2	2.50
W	0	1	1	0	0	0	2	1.92
WNW	0	1	1	0	0	0	2	2.80
NW	0	1	1	0	0	0	2	3.22
NNW	0	1	1	0	0	0	2	3.57
N	0	1	1	0	0	0	2	3.12
CALM	0	0	0	0	0	0	0	CALM
TOTAL	2	18	27	21	0	0	100	2.88

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINEDSTABILITY CLASS PASQUILL 9
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/91 13 51 50WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-3	1-3-5	3-5-7	5-7-9	7-9-10	10-0	TOTAL	MEAN SPEED
NNE	2	5	0	0	0	0	13	1.81
NE	1	2	1	0	0	0	4	2.39
ENE	0	1	0	1	0	0	2	4.57
E	1	0	2	0	0	0	3	2.79
ESE	1	0	2	0	0	0	3	2.93
SE	1	0	2	0	0	0	3	2.35
SSE	1	0	2	0	0	0	3	2.34
S	0	0	1	0	0	0	1	2.58
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	1.10
WSW	0	0	0	0	0	0	0	2.75
W	1	0	0	0	0	0	1	1.72
WNW	1	0	0	0	0	0	1	2.23
NW	2	1	0	0	0	0	3	1.71
NNW	1	0	0	0	0	0	1	1.78
N	2	0	0	0	0	0	2	1.80
CALM	0	0	0	0	0	0	0	CALM
TOTAL	18	66	13	1	0	0	100	2.36

KEY: *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINEDALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/91 13 51 50WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-3	1-3-5	3-5-7	5-7-9	7-9-10	10-0	TOTAL	MEAN SPEED
NNE	42	1.95	1.21	1.12	3	1	105	3.76
NE	42	1.33	1.58	20	0	0	4.90	3.45
ENE	0	1.25	1.25	18	3	0	84	4.00
E	27	1.63	1.63	98	09	0	101	3.81
ESE	3	1.67	1.58	12	0	0	87	3.35
SE	23	4.33	1.53	60	0	0	144	3.02
SSE	4	1.09	1.05	32	5	0	286	3.45
S	28	5.58	11.02	8.23	2.14	0	27.26	4.64
SSW	4	1.58	4.56	5.95	93	0	13.21	5.07
SW	33	4.5	1.57	84	0	0	2.62	4.06
WSW	4	1.4	1.4	3	0	0	1.37	3.37
W	33	1.0	0.7	14	0	0	1.35	2.94
WNW	7	1.23	1.2	0	0	0	2.43	2.64
NW	42	1.8	1.5	21	10	0	73	4.39
NNW	4	1.4	1.3	20	0	0	2.42	4.27
N	37	1.58	1.46	10	0	0	87	3.46
CALM	0	0	0	0	0	0	0	CALM
TOTAL	49	64	749	521	95	2	2150	4.06

NUMBER OF VALID OBSERVATIONS 2150
NUMBER OF INVALID OBSERVATIONS 37
TOTAL NUMBER OF OBSERVATIONS 2232
100.00 PCT

KEY: *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES

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TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL SEPTEMBER COMBINED

STABILITY CLASS PASQUILL A				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/11/81 13 55 54				DAMES AND MOORE JOB NO. 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)			TOTAL			MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	00	02	11	13	0	0	30
	00	70	38	45	105	0	10.47
	00	09	52	61	12	0	1.41
NE	00	03	10	105	0	0	4.11
	00	14	19	14	0	0	47
ENE	00	00	35	105	0	0	1.39
	00	00	05	14	0	0	19
E	00	00	00	00	0	0	2
	00	00	00	00	0	0	70
ESE	00	05	00	00	0	0	8
	00	17	105	00	0	0	2.79
SE	00	00	14	00	0	0	38
	1	348	418	174	0	0	10.80
SSE	00	00	36	24	0	0	1.46
	00	14	14	0	0	0	26
S	00	105	488	314	0	0	1.22
	00	14	68	42	0	0	9
SSW	00	488	418	532	206	0	17.43
	00	00	00	00	28	0	2
SW	00	279	111	105	0	0	36
	00	38	383	348	174	0	12.34
WSW	00	00	00	47	24	0	1.68
	00	244	105	35	0	0	11
W	00	33	14	00	0	0	52
	00	00	00	00	0	0	0
WNW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
N	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NNE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ENE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
E	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ESE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
S	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
W	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WNW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
N	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NNE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ENE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
E	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ESE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
S	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
W	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WNW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
N	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NNE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ENE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
E	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ESE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
S	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
W	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WNW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
N	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NNE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ENE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
E	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ESE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
S	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
W	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WNW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
N	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NNE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ENE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
E	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ESE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
S	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
W	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WNW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
N	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NNE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ENE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
E	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ESE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
S	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
W	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WNW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
N	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NNE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
NE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ENE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
E	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
ESE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSE	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
S	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SSW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
SW	00	00	00	00	0	0	0
	00	00	00	00	0	0	0
WSW	00	00	00	00	0	0	0
	00	00	00				

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL SEPTEMBER COMBINED

STABILITY CLASS PASQUILL B				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/11/81 13 55 54				DAMES AND MOORE JOB NO 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	00	00	3	1	1	0	5
	00	00	23	79	79	00	397
	00	00	14	05	05	00	24
NE	00	00	79	79	00	00	158
	00	00	05	05	00	00	10
ENE	00	00	23	79	00	00	102
	00	00	14	05	00	00	29
E	00	00	23	79	00	00	102
	00	00	14	05	00	00	29
ESE	00	00	09	00	00	00	09
	00	00	09	00	00	00	09
SE	00	00	23	79	00	00	102
	00	00	14	05	00	00	29
SSE	00	00	19	05	00	00	24
	00	00	19	05	00	00	24
S	00	00	63	47	00	00	110
	00	00	38	28	00	00	66
SSW	00	00	27	14	10	00	51
	00	00	17	4	3	2	24
SW	00	00	31	17	23	1	72
	00	00	28	19	14	0	60
WSW	00	00	05	00	00	00	05
	00	00	05	00	00	00	05
W	00	00	00	00	00	00	00
	00	00	00	00	00	00	00
WNW	00	00	00	00	00	00	00
	00	00	00	00	00	00	00
W	00	00	00	00	00	00	00
	00	00	00	00	00	00	00
NW	00	00	00	00	00	00	00
	00	00	00	00	00	00	00
N	00	00	00	00	00	00	00
	00	00	00	00	00	00	00
CALM	00	00	00	00	00	00	00
	00	00	00	00	00	00	00
TOTAL	1	24	55	79	4	100	435

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS) Page

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[illegible]

TABLE 2.3-24 (Continued)
 JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
 (MONTHLY - 10 METERS) Page 36 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
 DATA PERIOD: ALL SEPTEMBER COMBINED

STABILITY CLASS: PASQUILL 9		WOLF CREEK GENERATING STATION	
DATA SOURCE: ON-SITE		BURLINGTON, KANSAS	
WIND SENSOR HEIGHT: 10.00 METERS		KANSAS GAS AND ELECTRIC	
TABLE GENERATED: 11/11/91 13:55:54		DAMES AND MOORE JOB NO: 7699-064	
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED
	0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0		
NNE	0 17 15 0 0 0	11 32	3.04
NE	0 30 71 0 0 0	1 31	2.49
ENE	1 9 2 11 0 0	15 33	2.09
E	1 41 70 0 0 0	4 93	2.64
ESE	0 5 2 11 0 0	7 33	2.47
SE	0 9 2 8 0 0	12 33	2.03
SSE	0 1 1 7 0 0	15 34	2.02
S	2 1 4 0 0 0	15 33	1.77
SSW	1 1 38 0 0 0	5 38	1.46
SW	1 7 33 0 0 0	2 38	1.05
WSW	0 0 0 0 0 0	0 0	1.75
W	0 0 0 0 0 0	0 0	1.20
WNW	0 0 0 0 0 0	0 0	1.74
NW	1 0 1 4 0 0	2 34	1.63
NNW	1 7 2 11 0 0	3 38	2.09
N	1 0 2 11 0 0	3 37	2.73
CALM	0 2 46 14 0 0	3 87	CALM
TOTAL	18 35 64 44 17 25 0 0 0 0	100 00	2.16

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
 DATA PERIOD: ALL SEPTEMBER COMBINED

ALL CLASSES		WOLF CREEK GENERATING STATION	
DATA SOURCE: ON-SITE		BURLINGTON, KANSAS	
WIND SENSOR HEIGHT: 10.00 METERS		KANSAS GAS AND ELECTRIC	
TABLE GENERATED: 11/11/91 13:55:54		DAMES AND MOORE JOB NO: 7699-064	
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED
	0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0		
NNE	10 36 56 32 14 0	148	4.24
NE	47 1 69 2 63 1 51 46 0 0	6 96	3.09
ENE	12 65 29 18 0 0	124	3.21
E	55 3 04 1 36 85 0 0 0 0	5 93	3.00
ESE	13 40 39 15 0 0	107	2.93
E	61 1 88 1 83 71 0 0 0 0	5 93	2.66
ESE	11 51 42 7 0 0	111	2.93
SE	52 2 40 1 98 33 0 0 0 0	5 92	2.66
SE	3 75 48 3 0 0	129	3.19
SE	14 3 53 2 26 14 0 0 0 0	6 97	3.06
SSE	23 114 57 38 05 0 0	208	3.98
S	1 32 5 36 2 68 38 0 0 0 0	9 78	3.48
SSE	24 135 111 31 3 0	304	3.98
S	1 13 6 35 5 22 1 46 14 0 0 0	14 30	3.06
SSW	27 84 110 73 16 4	314	3.06
SSW	1 27 3 95 5 17 3 43 75 19 0 0	14 77	3.06
SSW	18 49 54 33 9 5	168	3.06
SW	85 2 30 2 54 1 55 42 24 0 0	7 90	3.06
SW	42 3 6 19 10 47 0 0 0 0	3 77	2.54
WSW	42 1 83 89 47 0 0 0 0	3 62	2.40
W	8 11 3 14 3 0 0 0 0 0	25	2.41
W	38 52 14 14 0 0 0 0 0 0	1 18	2.04
WNW	24 21 38 0 0 0 0 0 0	34	2.04
WNW	24 21 38 0 0 0 0 0 0	1 60	2.04
WNW	26 15 6 0 0 0 0 0 0	27	2.04
NW	26 71 28 0 0 0 0 0 0	1 27	2.04
NW	16 24 12 6 4 0 0 0 0	62	4.02
NNW	75 1 13 56 28 19 0 0 0 0	2 95	4.63
N	16 33 42 28 5 1	125	4.63
N	75 1 35 1 98 1 32 24 05 0 0	5 88	4.63
N	7 22 3 55 2 47 2 0 0 0 0	156	4.63
CALM	33 1 05 3 55 2 21 42 09 0 0	7 34	CALM
TOTAL	203 814 705 314 2 81 12 56 100 00	2126	3.48

NUMBER OF VALID OBSERVATIONS 2126
 NUMBER OF INVALID OBSERVATIONS 34
 TOTAL NUMBER OF OBSERVATIONS 2160

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD ALL OCTOBER COMBINED

STABILITY CLASS PASQUILL A

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 14 57 07

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	5.17
NE	00	00	00	00	00	00	00	3.69
ENE	00	00	00	00	00	00	00	3.10
E	00	00	00	00	00	00	00	2.80
ESE	00	00	00	00	00	00	00	5.75
SE	00	00	00	00	00	00	00	3.70
SSE	00	00	00	00	00	00	00	3.30
S	00	00	00	00	00	00	00	7.96
SSW	00	00	00	00	00	00	00	7.82
SW	00	00	00	00	00	00	00	5.93
WSW	00	00	00	00	00	00	00	4.80
W	00	00	00	00	00	00	00	3.50
WWS	00	00	00	00	00	00	00	6.21
WS	00	00	00	00	00	00	00	6.45
NWS	00	00	00	00	00	00	00	7.54
N	00	00	00	00	00	00	00	7.83
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	6.58

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD ALL OCTOBER COMBINED

STABILITY CLASS PASQUILL B

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 10.00 METERS

TABLE GENERATED 11/11/81 14 57 07

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	4.46
NE	00	00	00	00	00	00	00	4.53
ENE	00	00	00	00	00	00	00	2.90
E	00	00	00	00	00	00	00	5.00
ESE	00	00	00	00	00	00	00	6.30
SE	00	00	00	00	00	00	00	3.86
SSE	00	00	00	00	00	00	00	4.60
S	00	00	00	00	00	00	00	7.13
SSW	00	00	00	00	00	00	00	7.41
SW	00	00	00	00	00	00	00	5.83
WSW	00	00	00	00	00	00	00	6.43
W	00	00	00	00	00	00	00	3.12
WWS	00	00	00	00	00	00	00	3.87
WS	00	00	00	00	00	00	00	4.04
NWS	00	00	00	00	00	00	00	7.43
N	00	00	00	00	00	00	00	5.79
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	5.84

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINED

STABILITY CLASS PASQUILL C				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 14 57 07				DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	1	084	084	0000	0000	3.34	3.82
NE	00	00	1	084	0000	0000	2	4.83
ENE	00	00	2	0000	0000	0000	2	3.33
E	00	00	4	0000	0000	0000	4	4.28
ESE	00	00	7	1	0000	0000	9	4.24
SE	00	00	1	0000	1	0000	4	5.22
SSE	00	1	2	0000	0000	0000	5	4.27
S	00	00	3	7	5	0000	17	6.60
SSW	00	1	3	6	1	0000	14	6.01
SW	00	00	1	3	1	0000	6	6.14
WSW	00	00	1	0000	0000	0000	3	2.77
W	00	00	4	0000	0000	0000	5	3.86
WNW	00	00	1	0000	0000	0000	4	4.10
NW	00	00	1	0000	0000	1	4	8.06
NNW	00	00	2	0000	0000	0000	6	4.65
N	00	00	1	0000	0000	0000	5	5.40
CALM	00	00	00	0000	0000	0000	00	CALM
TOTAL	13	40	29	13	3	100	5.24	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINED

STABILITY CLASS PASQUILL D				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 14 57 07				DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	1	7	2	00	4	5	5.29
NE	00	1	2	00	00	00	3	3.63
ENE	00	00	1	00	00	00	1	4.47
E	00	00	1	00	00	00	2	3.85
ESE	00	00	1	00	00	00	2	5.09
SE	00	1	1	1	00	00	5	5.38
SSE	00	1	4	1	1	00	6	4.97
S	00	1	5	10	1	2	13	6.42
SSW	00	1	1	1	1	1	4	6.46
SW	00	1	1	1	00	00	4	4.58
WSW	00	1	1	00	00	00	3	3.30
W	00	1	1	00	00	00	3	4.20
WNW	00	1	1	1	00	00	4	5.71
NW	00	1	1	1	00	1	4	5.28
NNW	00	1	3	1	00	00	5	5.86
N	00	1	4	2	00	00	7	6.47
CALM	00	00	00	00	00	00	00	CALM
TOTAL	14	87	32	15	1	100	5.50	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL OCTOBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	14	8	3	3	25	5.65
NE	00	00	27	103	26	14	160	2.70
ENE	00	00	18	03	00	00	21	4.15
E	00	00	18	03	00	00	21	4.22
ESE	00	00	18	03	00	00	21	4.73
SE	00	00	18	03	00	00	21	4.57
SSE	00	00	18	03	00	00	21	4.14
S	00	00	18	03	00	00	21	6.12
SSW	00	00	18	03	00	00	21	4.79
SW	00	00	18	03	00	00	21	3.49
WSW	00	00	18	03	00	00	21	2.59
W	00	00	18	03	00	00	21	2.08
WSW	00	00	18	03	00	00	21	3.10
W	00	00	18	03	00	00	21	3.24
WSW	00	00	18	03	00	00	21	4.17
N	00	00	18	03	00	00	21	4.64
CALM	00	00	18	03	00	00	21	CALM
TOTAL	3	22	36	23	11	3	100	4.82

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL OCTOBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	14	8	3	3	25	2.81
NE	00	00	27	103	26	14	160	2.07
ENE	00	00	18	03	00	00	21	2.31
E	00	00	18	03	00	00	21	2.95
ESE	00	00	18	03	00	00	21	2.84
SE	00	00	18	03	00	00	21	2.66
SSE	00	00	18	03	00	00	21	3.02
S	00	00	18	03	00	00	21	3.54
SSW	00	00	18	03	00	00	21	2.66
SW	00	00	18	03	00	00	21	2.39
WSW	00	00	18	03	00	00	21	1.59
W	00	00	18	03	00	00	21	1.90
WSW	00	00	18	03	00	00	21	2.69
W	00	00	18	03	00	00	21	2.80
WSW	00	00	18	03	00	00	21	3.14
N	00	00	18	03	00	00	21	2.67
CALM	00	00	18	03	00	00	21	CALM
TOTAL	3	22	36	23	11	3	100	2.92

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINED

STABILITY CLASS PASQUILL G		WOLF CREEK GENERATING STATION	
DATA SOURCE ON-SITE		BURLINGTON, KANSAS	
WIND SENSOR HEIGHT 10.00 METERS		KANSAS GAS AND ELECTRIC	
TABLE GENERATED 11/11/81 14 57 07		DAMES AND MOORE JOB NO. 7599-064	
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED
	0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0		
NNE	4 18 1 5 2 1 0 0	23	2.78
NE	1 1 1 1 1 1 0 0	6	1.88
ENE	1 1 1 1 1 1 0 0	6	2.23
E	1 1 1 1 1 1 0 0	6	2.98
ESE	1 1 1 1 1 1 0 0	6	2.33
SE	1 1 1 1 1 1 0 0	6	2.32
SSE	1 1 1 1 1 1 0 0	6	2.82
S	1 1 1 1 1 1 0 0	6	2.70
SSW	1 1 1 1 1 1 0 0	6	2.11
SW	1 1 1 1 1 1 0 0	6	1.84
WSW	1 1 1 1 1 1 0 0	6	1.52
W	1 1 1 1 1 1 0 0	6	1.79
WNW	1 1 1 1 1 1 0 0	6	2.20
NW	1 1 1 1 1 1 0 0	6	2.34
NNW	1 1 1 1 1 1 0 0	6	2.95
N	1 1 1 1 1 1 0 0	6	2.62
CALM	1 1 1 1 1 1 0 0	6	CALM
TOTAL	12 242 70 13 0 0	100	2.44

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINED

ALL CLASSES		WOLF CREEK GENERATING STATION	
DATA SOURCE ON-SITE		BURLINGTON, KANSAS	
WIND SENSOR HEIGHT 10.00 METERS		KANSAS GAS AND ELECTRIC	
TABLE GENERATED 11/11/81 14 57 07		DAMES AND MOORE JOB NO. 7599-064	
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED
	0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0		
NNE	4 42 1 25 7 32 32	128	4.45
NE	18 227 21 23 0 0 0	271	3.14
ENE	18 227 21 23 0 0 0	271	3.35
E	18 227 21 23 0 0 0	271	3.41
ESE	18 227 21 23 0 0 0	271	4.00
SE	18 227 21 23 0 0 0	271	3.77
SSE	18 227 21 23 0 0 0	271	3.87
S	18 227 21 23 0 0 0	271	5.92
SSW	18 227 21 23 0 0 0	271	5.09
SW	18 227 21 23 0 0 0	271	4.40
WSW	18 227 21 23 0 0 0	271	2.77
W	18 227 21 23 0 0 0	271	3.11
WNW	18 227 21 23 0 0 0	271	3.50
NW	18 227 21 23 0 0 0	271	3.76
NNW	18 227 21 23 0 0 0	271	5.07
N	18 227 21 23 0 0 0	271	5.40
CALM	18 227 21 23 0 0 0	271	CALM
TOTAL	18 227 21 23 0 0 0	271	4.54

NUMBER OF VALID OBSERVATIONS: 2221
 TOTAL NUMBER OF OBSERVATIONS: 2222
 PERCENT OF VALID OBSERVATIONS: 99.51 PCT
 PERCENT OF TOTAL OBSERVATIONS: 100.00 PCT

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL NOVEMBER COMBINEDSTABILITY CLASS PASQUILL A
DATA SOURCE UN-9, SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/17/81 15 00 46WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	00	0.00
NE	00	00	00	00	00	00	00	00	3.88
ENE	00	00	00	00	00	00	00	00	4.40
E	00	00	00	00	00	00	00	00	4.30
ESE	00	00	00	00	00	00	00	00	2.55
SE	00	00	00	00	00	00	00	00	1.40
SSE	00	00	00	00	00	00	00	00	5.45
S	00	00	00	00	00	00	00	00	5.92
SSW	00	00	00	00	00	00	00	00	8.98
SW	00	00	00	00	00	00	00	00	9.74
WSW	00	00	00	00	00	00	00	00	10.10
W	00	00	00	00	00	00	00	00	7.70
WNW	00	00	00	00	00	00	00	00	6.58
NW	00	00	00	00	00	00	00	00	7.86
NNW	00	00	00	00	00	00	00	00	7.65
N	00	00	00	00	00	00	00	00	7.61
CALM	00	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	00	7.07

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL NOVEMBER COMBINEDSTABILITY CLASS PASQUILL B
DATA SOURCE UN-9, SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/17/81 15 00 46WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	00	6.65
NE	00	00	00	00	00	00	00	00	4.30
ENE	00	00	00	00	00	00	00	00	3.22
E	00	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	00	1.95
SE	00	00	00	00	00	00	00	00	2.40
SSE	00	00	00	00	00	00	00	00	5.52
S	00	00	00	00	00	00	00	00	7.12
SSW	00	00	00	00	00	00	00	00	7.44
SW	00	00	00	00	00	00	00	00	7.72
WSW	00	00	00	00	00	00	00	00	6.23
W	00	00	00	00	00	00	00	00	4.55
WNW	00	00	00	00	00	00	00	00	5.45
NW	00	00	00	00	00	00	00	00	8.69
NNW	00	00	00	00	00	00	00	00	7.16
N	00	00	00	00	00	00	00	00	6.40
CALM	00	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	00	6.61

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-4 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL NOVEMBER COMBINED

STABILITY CLASS PASQUILL C				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				3 LINCOLN, KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 15 00 46				DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	4 7	5 44	00	12 19 6.49	
NE	00	00	00	00	00	00	4 05 4.05	
ENE	00	00	00	00	00	00	1 34 3.40	
E	00	00	00	00	00	00	00 0.00	
ESE	00	00	00	00	00	00	00 0.00	
SE	00	00	00	00	00	00	3 40 5.36	
SSE	00	00	00	00	00	00	00 0.00	
S	00	00	00	00	00	00	10 29 5.29	
SSW	00	00	00	00	00	00	9 16 6.16	
SW	00	00	00	00	00	00	4 74 6.74	
WSW	00	00	00	00	00	00	4 13 4.13	
W	00	00	00	00	00	00	2 00 5.11	
WNW	00	00	00	00	00	00	8 52 4.52	
NW	00	00	00	00	00	00	3 40 7.74	
NNW	00	00	00	00	00	00	14 16 7.16	
N	00	00	00	00	00	00	12 71 7.71	
CALM	00	00	00	00	00	00	00 CALM	
TOTAL	00	8 12	21 32	41 01	20 30	8 12	100 00 6.35	

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL NOVEMBER COMBINED

STABILITY CLASS PASQUILL D				WOLF CREEK GENERATING STATION				
DATA SOURCE: SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 10.00 METERS				KANSAS 245 AM ELECTRIC				
TABLE GENERATED 11/11/81 15 00 46				DAMES AND MOORE JOB NO. 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	4	2	1	0	8	5.40
NE	00	00	3	2	1	0	6	4.02
ENE	00	00	1	1	0	0	2	4.66
E	00	00	1	1	0	0	2	4.70
ESE	00	00	1	1	0	0	2	4.87
SE	00	00	4	2	0	0	6	5.00
SSE	00	00	1	1	0	0	2	4.09
S	00	00	3	4	1	0	8	5.33
SSW	00	00	4	1	1	0	6	5.74
SW	00	00	1	1	1	0	3	6.15
WSW	00	00	0	1	0	0	1	6.50
W	00	00	1	3	1	0	5	5.42
WNW	00	00	1	1	0	0	2	4.99
NW	00	00	1	0	0	0	1	6.05
NNW	00	00	1	0	0	0	1	6.30
N	00	00	1	0	0	0	1	5.23
CALM	00	00	0	0	0	0	0	CALM
TOTAL	1	11	33	34	17	1	100	5.40

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL NOVEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1	1-3	3-5	5-7	7-10		
NNE	00 00	1	1			2	4.11
NE	00 00	1	1			2	3.26
ENE	00 00	1	1			2	4.41
E	00 00	00	1	1		2	5.06
ESE	00 00	00	1	1		2	3.64
SE	00 00	1	1	1		3	4.17
SSE	00 00	1	1	1		3	4.61
S	00 00	1	1	1		3	5.32
SSW	00 00	1	1	1		3	4.48
SW	00 00	1	1	1		3	3.78
WSW	00 00	1	1	1		3	3.74
W	00 00	1	1	1		3	3.78
WNW	00 00	1	1	1		3	4.25
WW	00 00	1	1	1		3	4.26
WNW	00 00	1	1	1		3	4.73
N	00 00	1	1	1		3	3.84
CALM	00 00	00	00	00	00	00	CALM
TOTAL	2	96	228	129	30	485	4.49

KEY: (X) NUMBER OF OCCURRENCES
 (X) PERCENT OCCURRENCES THIS CLASS
 (X) PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL NOVEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1	1-3	3-5	5-7	7-10		
NNE	00	1	1			2	3.20
NE	00	1	1			2	2.77
ENE	00	1	1			2	3.25
E	00	1	1			2	2.97
ESE	00	1	1			2	2.98
SE	00	1	1			2	2.91
SSE	00	1	1			2	3.25
S	00	1	1			2	3.39
SSW	00	1	1			2	3.99
SW	00	1	1			2	3.22
WSW	00	1	1			2	2.69
W	00	1	1			2	2.70
WNW	00	1	1			2	3.05
WW	00	1	1			2	2.68
WNW	00	1	1			2	2.67
N	00	1	1			2	2.93
CALM	00	00	00	00	00	00	CALM
TOTAL	2	96	228	129	30	485	3.11

KEY: (X) NUMBER OF OCCURRENCES
 (X) PERCENT OCCURRENCES THIS CLASS
 (X) PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL NOVEMBER COMBINED

STABILITY CLASS PASQUILL G
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 15 00 46

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	14	2	00	00	00	4	2.94
NE	0	0	1	00	00	00	3	2.70
ENE	0	0	1	00	00	00	3	2.87
E	0	0	1	00	00	00	3	2.77
ESE	0	0	1	00	00	00	2	2.60
SE	0	0	1	00	00	00	4	2.91
SSE	0	0	2	00	00	00	7	3.14
S	0	0	10	00	00	00	16	3.00
SSW	0	0	11	00	00	00	21	3.18
SW	0	0	2	00	00	00	6	2.51
WSW	0	0	1	00	00	00	5	2.43
W	0	0	3	00	00	00	8	2.31
WSW	0	0	3	00	00	00	3	1.92
W	0	0	2	00	00	00	3	2.12
WSW	0	0	2	00	00	00	1	1.83
W	0	0	1	00	00	00	3	2.32
WSW	0	0	1	00	00	00	2	CALM
CALM	0	0	0	0	0	0	0	CALM
TOTAL	12	45	41	9	0	0	100	2.76

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL NOVEMBER COMBINED

ALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 15 00 46

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	2	17	49	26	24	0	118	5.10
NE	0	28	42	12	0	0	85	3.99
ENE	3	13	38	8	0	0	63	3.95
E	0	31	24	14	0	0	54	4.30
ESE	4	18	14	11	0	0	47	3.60
SE	3	35	25	6	0	0	77	3.68
SSE	5	60	103	44	4	0	217	4.00
S	23	79	480	203	19	0	1010	4.92
SSW	14	32	77	368	243	8	1755	5.26
SW	0	19	109	18	13	12	103	5.87
WSW	14	28	14	12	7	0	66	4.00
W	23	33	142	41	6	0	123	4.44
WSW	28	140	233	177	14	0	582	4.18
W	28	140	233	177	14	0	582	5.56
WSW	14	15	23	70	26	3	181	5.93
W	28	140	233	177	14	0	582	5.41
CALM	0	0	0	0	0	0	0	CALM
TOTAL	2	464	774	553	237	27	2148	4.80

NUMBER OF VALID OBSERVATIONS 2148
 NUMBER OF INVALID OBSERVATIONS 12
 TOTAL NUMBER OF OBSERVATIONS 2160

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	1	00	00	1	00	3	3.80
NE	00	00	00	00	00	00	00	0.00
ENE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	1.70
SE	00	1	00	00	00	00	1	2.40
SSE	00	3	00	00	00	00	3	4.50
S	00	00	00	00	00	00	00	5.74
SSW	00	00	4	7	00	00	12	0.00
SW	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	3.96
W	00	1	00	00	00	00	1	0.00
WSW	00	00	00	00	00	00	00	7.0
W	1	00	00	00	00	00	1	6.82
WNW	00	00	00	4	1	00	6	7.12
N	1	00	3	18	20	00	43	6.92
CALM	00	00	4	3	4	1	14	4.7
TOTAL	00	7	18	40	28	1	100	6.24

KEY: 111 NUMBER OF OCCURRENCES
111 PERCENT OCCURRENCES THIS CLASS
111 PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	00	10.40
NE	00	00	00	00	00	00	00	2.10
ENE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	2.10
ESE	00	00	00	00	00	00	00	2.20
SE	00	00	00	00	00	00	00	2.10
SSE	00	2	00	00	00	00	2	3.70
S	00	00	2	7	00	00	10	5.36
SSW	00	00	00	5	00	00	6	7.13
SW	00	00	00	1	00	00	1	6.20
WSW	00	00	00	3	00	00	3	5.15
W	00	00	00	00	00	00	00	3.60
WNW	00	00	00	1	2	00	3	6.55
W	00	00	00	00	00	00	00	5.98
WNW	00	00	00	00	00	00	00	6.79
N	00	00	00	00	00	00	00	7.09
CALM	00	00	00	00	00	00	00	CALM
TOTAL	1	15	13	43	18	8	100	5.96

KEY: 111 NUMBER OF OCCURRENCES
111 PERCENT OCCURRENCES THIS CLASS
111 PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-24 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL C										WOLF CREEK GENERATING STATION									
DATA SOURCE ON-SITE										BURLINGTON, KANSAS									
WIND SENSOR HEIGHT 10.00 METERS										KANSAS GAS AND ELECTRIC									
TABLE GENERATED 11/11/81 15 09 30										DAMES AND MOORE JOB NO. 7699-064									
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0-15.0	15.0-20.0	20.0-25.0	25.0-30.0	TOTAL	MEAN SPEED								
NNE	00	00	00	00	00	00	00	00	00	00	6.77								
NE	00	00	00	00	00	00	00	00	00	00	3.83								
ENE	00	00	00	00	00	00	00	00	00	00	3.70								
E	00	00	00	00	00	00	00	00	00	00	3.30								
ESE	00	00	00	00	00	00	00	00	00	00	4.20								
SE	00	00	00	00	00	00	00	00	00	00	4.08								
SSE	00	00	00	00	00	00	00	00	00	00	3.12								
S	00	00	00	00	00	00	00	00	00	00	3.17								
SSW	00	00	00	00	00	00	00	00	00	00	6.28								
SW	00	00	00	00	00	00	00	00	00	00	4.78								
WSW	00	00	00	00	00	00	00	00	00	00	4.64								
W	00	00	00	00	00	00	00	00	00	00	3.28								
WNW	00	00	00	00	00	00	00	00	00	00	6.66								
WW	00	00	00	00	00	00	00	00	00	00	6.36								
NW	00	00	00	00	00	00	00	00	00	00	6.87								
N	00	00	00	00	00	00	00	00	00	00	7.47								
CALM	00	00	00	00	00	00	00	00	00	00	CALM								
TOTAL	1.73	9.80	26.44	40.71	14.32	7.13	100.00	9.07	6.03										
KEY	XXX NUMBER OF OCCURRENCES																		
	XXX PERCENT OCCURRENCES THIS CLASS																		
	XXX PERCENT OCCURRENCES ALL CLASSES																		

KEY: *** NUMBER OF OCCURRENCES
 *** PERCENT OCCURRENCES THIS CLASS
 *** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL D										WOLF CREEK GENERATING STATION									
DATA SOURCE ON-SITE										BURLINGTON, KANSAS									
WIND SENSOR HEIGHT 10.00 METERS										KANSAS GAS AND ELECTRIC									
TABLE GENERATED 11/11/81 15 09 30										DAMES AND MOORE JOB NO. 7699-064									
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)									TOTAL	MEAN SPEED								
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0-15.0	15.0-20.0	20.0-25.0	25.0-30.0										
NNE										58	5.23								
										7									
										3									
										0.02									
										0.03									
										0.03									
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KEY: *** NUMBER OF OCCURRENCES
 *** PERCENT OCCURRENCES THIS CLASS
 *** PERCENT OCCURRENCES ALL CLASSES

WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL E				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/11/81 15 09 30				DAMES AND MOORE JOB NO. 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)			TOTAL			MEAN SPEED
	0-1-3	1-3-5	3-5-7	5-7-9	7-9-10	>10-0	
NNE	00	00	00	00	00	00	2.92
NE	00	00	00	00	00	00	2.14
ENE	00	00	00	00	00	00	2.85
E	00	00	00	00	00	00	4.93
ESE	00	00	00	00	00	00	4.70
SE	00	00	00	00	00	00	4.08
SSE	00	00	00	00	00	00	4.81
S	00	00	00	00	00	00	4.09
SSW	00	00	00	00	00	00	5.28
SW	00	00	00	00	00	00	3.92
WSW	00	00	00	00	00	00	3.83
W	00	00	00	00	00	00	3.44
WSW	00	00	00	00	00	00	3.41
W	00	00	00	00	00	00	4.22
WNW	00	00	00	00	00	00	4.32
N	00	00	00	00	00	00	3.18
CALM	00	00	00	00	00	00	CALM
TOTAL	13.56	197.46	28.121	8.49	71.16	100.00	4.67

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL F				WOLF CREEK GENERATING STATION					
DATA SOURCE ON-SITE				BURLINGTON, KANSAS					
WIND SENSOR HEIGHT 10.00 METERS				KANSAS GAS AND ELECTRIC					
TABLE GENERATED 11/11/81 15 09 30				DAMES AND MOORE JOB NO 7699-064					
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1-3	1-3-5	3-5-7	5-7-9	7-9-10	>10-0			
NNE	00	3	2	0	0	0	5	16	2.66
	00	00	01	00	00	00	00	00	
	00	00	01	00	00	00	00	00	
NE	00	1	4	0	0	0	2	11	2.28
	00	01	01	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
ENE	00	1	4	0	0	0	1	7	2.84
	00	01	01	00	00	00	00	00	
	00	01	00	00	00	00	00	00	
E	00	1	7	2	0	0	4	13	3.18
	00	01	01	01	00	00	01	01	
	00	01	00	00	00	00	00	00	
ESE	00	1	7	2	0	0	4	13	2.90
	00	01	01	01	00	00	01	01	
	00	01	00	00	00	00	00	00	
SE	00	5	1	0	0	0	7	15	2.69
	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	
SSE	00	3	8	11	0	0	15	33	3.37
	00	00	01	01	00	00	01	01	
	00	00	01	01	00	00	01	01	
S	00	4	10	1	0	0	15	25	3.43
	00	01	01	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
SSW	00	4	10	1	0	0	15	25	3.74
	00	01	01	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
SW	00	4	10	1	0	0	15	25	3.37
	00	01	01	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
WSW	00	4	10	1	0	0	15	25	2.19
	00	01	01	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
W	1	1	7	2	0	0	5	16	2.52
	01	01	01	01	00	00	01	01	
	00	00	00	00	00	00	00	00	
WNW	00	2	7	2	0	0	4	13	2.48
	00	01	01	01	00	00	01	01	
	00	01	00	00	00	00	00	00	
NW	00	4	1	0	0	0	5	10	2.67
	00	01	00	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
WNW	00	4	1	0	0	0	5	10	2.72
	00	01	00	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
N	00	3	1	0	0	0	4	10	3.09
	00	01	00	00	00	00	01	01	
	00	01	00	00	00	00	00	00	
CALM	00	1	7	0	0	0	3	17	CALM
	00	01	01	00	00	00	00	00	
	00	01	00	00	00	00	00	00	
TOTAL	4	42	50	3	0	0	100	280	3.12
	00	01	01	00	00	00	01	01	
	00	01	00	00	00	00	00	00	

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

Rev. 4

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WCGS-ER(OLS)

TABLE 2.3-24 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
(MONTHLY - 10 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL 9
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 15 09 30

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	2	4	0	0	0	5	2.69
NE	00	2	1	7	0	0	4	3.30
ENE	00	1	7	0	0	0	2	2.83
E	00	0	3	0	0	0	3	4.10
ESE	00	0	2	0	0	0	2	4.00
SE	00	8	11	0	0	0	18	3.20
SSE	00	10	8	0	0	0	17	2.87
S	00	4	8	0	0	0	11	3.24
SSW	00	1	4	0	0	0	5	3.10
SW	00	0	0	0	0	0	0	0.00
WSW	00	0	0	0	0	0	0	1.30
W	1	3	1	0	0	0	4	2.19
WNW	0	3	0	0	0	0	3	1.93
W	0	5	0	0	0	0	4	2.13
WNW	1	1	0	0	0	0	2	2.00
N	00	2	3	0	0	0	5	3.15
CALM	00	0	0	0	0	0	0	CALM
TOTAL	6	46	46	7	0	0	100	2.88

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

ALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 10.00 METERS
TABLE GENERATED 11/11/81 15 09 30

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	10	1	1	1	1	0	5	4.66
NE	4	1	4	1	0	0	2	3.47
ENE	0	1	4	4	0	0	1	3.78
E	4	1	2	1	0	0	3	2.96
ESE	0	1	1	0	0	0	3	4.05
SE	0	1	3	3	0	0	5	3.45
SSE	0	1	4	1	0	0	6	4.11
S	1	1	4	3	1	0	10	5.21
SSW	1	1	4	3	1	0	10	5.29
SW	1	1	1	1	1	0	5	4.56
WSW	1	1	1	1	1	0	5	4.39
W	1	1	1	1	1	0	5	3.94
WNW	1	1	1	1	1	0	5	4.45
NW	1	1	1	1	1	0	5	5.41
NNW	1	1	1	1	1	0	5	6.00
N	1	1	1	1	1	0	5	5.91
CALM	0	0	0	0	0	0	0	CALM
TOTAL	30	20	20	25	21	4	100	4.90

NUMBER OF OBSERVATIONS 1918
NUMBER OF OBSERVATIONS 1918
TOTAL NUMBER OF OBSERVATIONS 2232

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

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WCGS-ER (OLS)

TABLE 2.3-25
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

Page 1 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JANUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	1.43	0.00	0.00	2.90	0.00	0.00	4.33	3.83	
NE	2.90	0.00	1.43	4.33	1.43	0.00	10.14	4.57	
ENE	0.00	1.43	0.00	2.90	0.00	0.00	4.33	4.80	
E	0.00	0.00	0.00	1.43	0.00	0.00	1.43	6.20	
ESE	0.00	0.00	0.00	1.43	0.00	0.00	1.43	7.10	
SE	1.43	2.90	2.90	1.43	0.00	0.00	8.70	3.28	
SSE	0.00	1.43	1.43	4.33	1.43	0.00	8.70	5.93	
S	0.00	0.00	0.00	0.00	4.33	4.33	8.70	10.13	
SSW	0.00	0.00	0.00	0.00	0.00	1.43	1.43	11.50	
SW	0.00	0.00	0.00	0.00	1.43	0.00	1.43	9.50	
WSW	1.43	1.43	0.00	0.00	1.43	0.00	4.33	4.33	
W	0.00	1.43	0.00	0.00	0.00	0.00	1.43	1.90	
WNW	0.00	0.00	0.00	0.00	2.90	0.00	2.90	8.10	
NW	0.00	1.43	1.43	1.43	2.90	1.43	8.70	6.95	
NNW	0.00	0.00	1.43	5.80	5.80	2.90	15.93	8.22	
N	1.43	1.43	0.00	1.43	2.90	7.27	14.46	8.79	
CALM	1.43	0.00	0.00	0.00	0.00	0.00	1.43	CALM	
TOTAL	10.14	11.35	8.70	27.19	24.17	17.32	100.00	6.66	

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JANUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0.00	1.01	0.00	5.05	2.02	1.01	9.09	7.18	
NE	0.00	1.01	3.03	0.00	0.00	0.00	4.04	3.42	
ENE	0.00	4.04	13.09	9.09	0.00	0.00	26.22	4.52	
E	0.00	0.00	1.01	1.01	0.00	0.00	2.02	5.25	
ESE	0.00	0.00	0.00	3.03	0.00	0.00	3.03	6.13	
SE	0.00	2.02	2.02	1.01	0.00	0.00	5.05	4.00	
SSE	0.00	0.00	0.00	1.01	0.00	0.00	1.01	5.40	
S	0.00	0.00	0.00	0.00	1.01	0.00	1.01	6.00	
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	
SW	1.01	0.00	0.00	0.00	0.00	0.00	1.01	7.03	
WSW	0.00	0.00	1.01	2.02	3.03	0.00	6.04	1.90	
W	0.00	1.01	0.00	0.00	0.00	0.00	1.01	5.97	
WNW	0.00	0.00	1.01	3.03	1.01	0.00	5.05	5.80	
NW	0.00	0.00	2.02	4.04	0.00	2.02	8.08	8.01	
NNW	0.00	0.00	1.01	4.04	6.04	3.03	14.12	8.41	
N	0.00	3.03	1.01	1.01	1.01	2.02	8.08	5.97	
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM	
TOTAL	1.01	12.12	27.27	37.37	14.14	8.08	100.00	5.96	

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0.00	0.00	1.00	3.00	2.00	2.00	10.00	8.11	
NE	0.00	1.40	3.00	0.00	0.00	0.00	5.11	3.69	
ENE	0.00	0.00	0.00	0.00	0.00	0.00	1.40	2.75	
E	0.00	0.00	0.00	1.40	0.00	0.00	2.10	5.43	
ESE	0.00	0.00	0.00	1.40	0.00	0.00	1.40	5.60	
SE	0.00	0.00	0.00	0.00	0.00	0.00	1.40	5.60	
SSE	0.00	0.00	0.00	0.00	0.00	0.00	1.40	5.67	
S	0.00	0.00	0.00	2.10	0.00	0.00	2.10	7.50	
SSW	0.00	0.00	1.40	4.30	3.00	2.10	12.41	8.43	
SW	0.00	0.00	0.00	2.10	0.00	0.00	2.10	6.45	
WSW	0.00	0.00	0.00	1.40	0.00	0.00	2.10	4.80	
W	0.00	4.30	1.40	0.00	0.00	0.00	7.10	3.61	
WNW	0.00	1.40	2.10	0.00	0.00	0.00	6.50	6.29	
NW	0.00	0.00	0.00	4.30	5.00	3.00	15.10	8.83	
NNW	0.00	0.00	1.40	0.00	2.10	1.40	5.80	7.94	
N	0.00	0.00	0.00	0.00	4.30	4.30	18.90	7.92	
CALM	0.00	0.00	0.00	0.00	0.00	0.00	1.00	CALM	
TOTAL	2.10	9.40	14.00	32.40	23.00	17.00	100.00	7.06	

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0.00	0.00	2.00	3.00	3.00	2.00	13.00	7.36	
NE	0.00	1.40	1.40	1.40	0.00	0.00	4.20	5.10	
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83	
E	0.00	0.00	0.00	1.40	0.00	0.00	1.40	5.48	
ESE	0.00	0.00	0.00	1.40	0.00	0.00	1.40	4.32	
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	
S	0.00	0.00	0.00	2.00	0.00	0.00	2.00	9.22	
SSW	0.00	0.00	1.40	2.00	1.40	1.40	6.20	7.82	
SW	0.00	0.00	0.00	1.40	0.00	0.00	1.40	5.37	
WSW	0.00	0.00	0.00	1.40	0.00	0.00	1.40	4.63	
W	0.00	4.30	1.40	0.00	0.00	0.00	7.10	5.58	
WNW	0.00	1.40	2.10	0.00	0.00	0.00	6.50	6.29	
NW	0.00	0.00	0.00	4.30	5.00	3.00	15.10	8.04	
NNW	0.00	0.00	1.40	0.00	2.10	1.40	5.80	8.25	
N	0.00	0.00	0.00	0.00	4.30	4.30	18.90	7.67	
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM	
TOTAL	2.10	9.40	14.00	32.40	23.00	17.00	100.00	7.07	

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINEDSTABILITY CLASS: PASQUILL E
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 02 03WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	7	10	1	0	4	5.83
NE	00	4	1	2	0	0	4	5.78
ENE	00	4	1	2	0	0	4	5.56
E	00	00	1	1	0	0	2	7.25
ESE	00	00	00	3	1	0	5	7.57
SE	00	00	00	1	1	0	4	7.28
SSE	00	00	00	1	1	0	3	9.68
S	00	00	00	1	2	0	7	8.72
SSW	00	00	00	2	4	0	15	8.68
SW	00	00	00	1	5	0	17	6.36
WSW	00	00	00	2	1	0	4	6.27
W	00	00	00	1	1	0	2	6.18
WNW	00	00	00	1	2	0	5	6.98
NW	00	00	00	1	3	0	4	6.93
NNW	00	00	00	1	2	0	4	6.95
N	00	00	00	1	1	0	4	6.93
CALM	00	00	00	1	1	0	1	CALM
TOTAL	00	4	15	38	14	17	100	7.59

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINEDSTABILITY CLASS: PASQUILL F
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 02 03WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	2	7	0	0	10	6.42
NE	00	00	1	2	0	0	3	2.65
ENE	00	00	1	0	0	0	2	5.22
E	00	00	00	1	0	0	3	6.08
ESE	00	00	00	2	0	0	5	7.14
SE	00	00	00	1	0	0	2	6.13
SSE	00	00	00	2	0	0	4	6.90
S	00	00	00	2	2	0	7	7.18
SSW	00	00	00	1	6	0	13	7.27
SW	00	00	00	1	5	0	11	7.09
WSW	00	00	00	2	1	0	10	5.41
W	00	00	00	4	1	0	10	6.26
WNW	00	00	00	1	4	0	7	6.70
NW	00	00	00	1	4	0	7	6.54
NNW	00	00	00	1	4	0	7	7.14
N	00	00	00	4	1	0	6	6.72
CALM	00	00	00	1	1	0	4	CALM
TOTAL	00	4	14	47	29	3	100	6.57

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 4 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINED

STABILITY CLASS: PASQUILL G
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 02 03

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0.00	1.39	0.00	1.39	1.00	0.00	3.47	5.72
NE	0.00	1.00	0.00	1.00	0.00	0.00	2.00	2.60
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12
E	0.00	0.00	1.39	1.39	0.00	0.00	2.78	5.53
ESE	0.00	0.00	1.39	1.39	0.00	0.00	2.78	3.87
SE	0.00	2.78	3.47	3.47	0.00	0.00	9.44	5.02
SSE	0.00	0.00	2.08	2.08	1.39	0.00	5.53	5.77
S	1.39	0.00	3.47	2.78	2.08	1.39	10.00	5.86
SSW	0.00	0.00	1.39	1.39	0.00	0.00	2.78	7.17
SW	0.00	0.00	2.08	3.47	8.33	0.00	13.88	6.00
WSW	0.00	0.00	1.39	2.78	2.08	0.00	6.25	5.38
W	0.00	0.00	2.08	3.47	0.00	0.00	5.53	4.97
WNW	0.00	0.00	2.08	2.08	0.00	0.00	4.12	4.56
NW	0.00	0.00	1.39	1.39	0.00	0.00	2.78	6.40
NNW	0.00	0.00	0.00	2.08	1.39	0.00	3.47	6.03
N	0.00	0.00	0.00	1.39	0.00	0.00	1.39	6.15
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	3.47	9.44	27.78	39.38	18.75	1.39	100.00	5.66

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JANUARY COMBINED

ALL CLASSES
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 02 03

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0.00	4.70	1.30	3.60	1.92	1.24	12.76	7.04
NE	2.60	6.70	1.35	1.14	4.10	0.00	15.79	4.71
ENE	0.00	2.10	1.55	1.92	4.70	0.00	9.27	4.79
E	0.00	2.60	8.30	2.12	1.60	0.00	14.62	6.07
ESE	1.00	4.10	9.20	1.24	1.50	0.00	16.04	6.02
SE	1.00	3.60	1.30	1.60	1.50	0.00	8.00	5.79
SSE	2.10	4.10	1.90	1.80	1.87	1.24	12.91	7.62
S	0.00	7.00	1.70	2.59	4.70	3.01	18.00	8.51
SSW	1.00	3.10	1.55	3.60	3.83	2.44	13.52	8.01
SW	2.60	10.00	1.40	4.45	2.80	4.10	25.35	6.33
WSW	1.60	8.30	1.60	1.81	1.10	0.00	13.41	5.22
W	0.00	1.20	1.74	2.18	1.60	0.00	6.72	5.59
WNW	0.00	7.00	1.14	2.02	1.55	1.24	12.91	7.27
NW	0.00	3.60	1.50	2.64	2.85	1.14	11.63	7.55
NNW	0.00	3.60	1.30	2.44	1.87	1.14	10.35	7.77
N	0.00	4.10	1.24	2.85	2.80	1.76	12.65	7.51
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	1.39	7.20	17.93	34.30	25.23	13.99	100.00	6.95

NUMBER OF VALID OBSERVATIONS: 1930
NUMBER OF INVALID OBSERVATIONS: 302
TOTAL NUMBER OF OBSERVATIONS: 2232

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 5 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL FEBRUARY COMBINED

STABILITY CLASS: PASQUILL A				WOLF CREEK GENERATING STATION				
DATA SOURCE: ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT: 60.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED: 11/10/81 15 33 48				DAMES AND MOORE JOB NO: 7699-064				
WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00 00 00	1 05 00 00	1 05 00 00	4 24 2 11 00	3 19 00 00	4 24 2 11 00	13 88 80 31	8.15
NE	00 00 00	2 11 00 00	1 05 00 00	00 00 00	1 05 00 00	1 05 00 00	5 26 31 00	5.60
ENE	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	0.00
E	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	2.95
ESE	00 00 00	1 05 00 00	1 05 00 00	00 00 00	00 00 00	00 00 00	2 11 11 00	1.40
SE	1 05 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	1 05 00 00	2.00
SSE	00 00 00	1 05 00 00	00 00 00	00 00 00	00 00 00	00 00 00	1 05 00 00	3.08
S	00 00 00	1 05 00 00	1 05 00 00	3 19 1 05 00	00 00 00	00 00 00	5 26 31 00	4.72
SSW	00 00 00	00 00 00	00 00 00	2 11 1 05 00	00 00 00	00 00 00	5 26 31 00	11.68
SW	00 00 00	00 00 00	00 00 00	00 00 00	1 05 00 00	5 26 31 00	6 39 37 00	3.01
WSW	00 00 00	00 00 00	00 00 00	00 00 00	1 05 00 00	00 00 00	1 05 43 00	7.24
W	1 05 00 00	00 00 00	00 00 00	00 00 00	1 05 00 00	2 11 1 05 00	5 26 31 00	4.80
WNW	00 00 00	00 00 00	1 05 00 00	00 00 00	00 00 00	1 05 00 00	3 19 1 05 00	7.20
NW	00 00 00	00 00 00	00 00 00	2 11 1 05 00	00 00 00	00 00 00	2 11 1 05 00	6.25
NNW	00 00 00	00 00 00	1 05 00 00	4 24 2 11 00	1 05 00 00	00 00 00	6 39 31 00	9.90
N	00 00 00	00 00 00	00 00 00	3 19 1 05 00	8 40 50 00	11 68 5 26 00	23 19 1 05 00	9.35
CALM	00 00 00	00 00 00	00 00 00	5 26 31 00	2 11 1 05 00	5 26 31 00	12 63 74 00	CALM
TOTAL	2 11 1 05 00	15 93 7 24 93	8 40 4 24 50	24 56 12 88 42	18 93 1 11 00	30 56 1 79 00	100 00 5 88 00	7.53

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL FEBRUARY COMBINED

STABILITY CLASS: PASQUILL B				WOLF CREEK GENERATING STATION					
DATA SOURCE: ON-SITE				BURLINGTON, KANSAS					
WIND SENSOR HEIGHT: 60.00 METERS				KANSAS GAS AND ELECTRIC					
TABLE GENERATED: 11/10/81 15 33 48				DAMES AND MOORE JOB NO: 7699-064					
WIND SECTOR	0-1.5	1.5-3.0	CATEGORIES (METERS PER SECOND)	3-5.0	5-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	2 11	00	4 24	5 34	11 68	9.70	
NE	00	1 05	2 11	00	1 05	00	4 24	4.05	
ENE	00	00	1 05	1 05	00	00	2 11	4.35	
E	00	00	00	00	00	00	00	0.00	
ESE	00	00	00	1 05	00	00	1 05	6.70	
SE	00	1 05	1 05	00	00	00	2 11	3.60	
SSE	1 05	00	1 05	00	00	00	3 24	4.10	
S	00	00	00	1 05	00	00	2 11	8.98	
SSW	00	00	00	00	4 24	00	4 24	7.70	
SW	00	00	2 11	00	3 24	1 05	6 39	7.17	
WSW	00	00	4 24	2 11	4 24	1 05	11 68	6.85	
W	1 05	1 05	5 34	2 11	00	1 05	10 68	4.19	
WNW	00	00	00	2 11	00	00	2 11	6.40	
NW	00	00	00	2 11	00	00	2 11	5.62	
NNW	00	1 05	1 05	3 24	1 05	00	6 39	8.91	
N	00	00	00	1 05	7 24	1 05	9 34	8.62	
CALM	00	00	3 24	3 24	8 40	5 34	20 56	CALM	
TOTAL	2 11	5 43	23 32	18 93	34 56	15 93	100 00	7.31	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	00	00	02	02	1.83	02	4.59	8.44	
NE	00	00	00	00	1.83	00	3.67	6.62	
ENE	00	00	02	00	02	02	2.73	7.83	
E	00	00	00	00	00	00	0.00	0.00	
ESE	00	00	00	00	00	00	0.00	3.30	
SE	00	00	00	00	00	00	0.00	5.95	
SSE	00	00	00	00	00	00	0.00	5.50	
S	00	00	00	00	00	00	0.00	6.71	
SSW	00	00	00	00	00	00	0.00	9.02	
SW	00	00	00	00	00	00	0.00	7.34	
WSW	00	00	00	00	00	00	0.00	4.83	
W	00	00	00	00	00	00	0.00	4.49	
WNW	00	00	00	00	00	00	0.00	10.30	
NW	00	00	00	00	00	00	0.00	6.15	
NNW	00	00	00	00	00	00	0.00	8.45	
N	00	00	00	00	00	00	0.00	7.42	
CALM	00	00	00	00	00	00	0.00	CALM	
TOTAL	00	4.59	24.77	30.28	25.69	14.77	100.00	7.10	

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	00	00	10	20	3	7	48	6.54	
NE	00	00	00	00	00	00	0.00	5.90	
ENE	00	00	00	00	00	00	0.00	6.49	
E	00	00	00	00	00	00	0.00	5.62	
ESE	00	00	00	00	00	00	0.00	5.81	
SE	00	00	00	00	00	00	0.00	4.68	
SSE	00	00	00	00	00	00	0.00	5.90	
S	00	00	00	00	00	00	0.00	7.37	
SSW	00	00	00	00	00	00	0.00	8.70	
SW	00	00	00	00	00	00	0.00	8.41	
WSW	00	00	00	00	00	00	0.00	7.90	
W	00	00	00	00	00	00	0.00	5.94	
WNW	00	00	00	00	00	00	0.00	5.32	
NW	00	00	00	00	00	00	0.00	9.47	
NNW	00	00	00	00	00	00	0.00	9.31	
N	00	00	00	00	00	00	0.00	8.91	
CALM	00	00	00	00	00	00	0.00	CALM	
TOTAL	00	47	100	203	132	159	100.00	7.55	

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINEDSTABILITY CLASS PASQUILL E
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/10/81 15:33:48WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	5.60
NE	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	3.90
ENE	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	4.55
E	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	6.55
ESE	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	6.61
SE	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	5.20
SSE	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	6.91
S	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	8.35
SSW	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	6.49
SW	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	6.35
WSW	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	6.51
W	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	7.00
WNW	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	5.01
NW	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	5.58
NNW	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	6.99
N	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	7.86
CALM	0 0 0	1 1 4	2 2 9	0 0 0	0 0 0	0 0 0	4 13	CALM
TOTAL	1 64	4 93	18 75	37 83	26 64	10 20	100 00	6.73

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINEDSTABILITY CLASS PASQUILL F
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/10/81 15:33:48WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	4.47
NE	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	3.83
ENE	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	4.70
E	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	6.75
ESE	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	5.87
SE	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	5.47
SSE	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	8.54
S	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	8.22
SSW	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	7.34
SW	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	6.78
WSW	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	5.98
W	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	6.09
WNW	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	6.20
NW	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	6.88
NNW	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	6.59
N	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	6.45
CALM	0 0 0	0 0 0	4 15	4 6	0 0 0	0 0 0	4 10	CALM
TOTAL	2 30	4 10	18 40	41 89	26 58	10 20	100 00	6.61

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINED

STABILITY CLASS PASQUILL 9		WOLF CREEK GENERATING STATION	
DATA SOURCE: ON-SITE		BURLINGTON, KANSAS	
WIND SENSOR HEIGHT: 60.00 METERS		KANSAS GAS AND ELECTRIC	
TABLE GENERATED: 11/10/81 15 33 48		DAMES AND MOORE JOB NO: 7699-064	
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED
	0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0		
NNE	00 00 00 00 00 00	2.43	5.83
NE	00 00 00 00 00 00	2.43	4.77
ENE	00 00 00 00 00 00	1.61	4.75
E	00 00 00 00 00 00	1.61	4.50
ESE	00 00 00 00 00 00	2.43	5.87
SE	00 00 00 00 00 00	2.43	7.97
SSE	00 00 00 00 00 00	2.43	4.80
S	00 00 00 00 00 00	12.10	7.85
SSW	00 00 00 00 00 00	9.18	6.51
SW	00 00 00 00 00 00	10.48	6.93
WSW	00 00 00 00 00 00	7.85	6.14
W	00 00 00 00 00 00	9.18	5.29
WNW	00 00 00 00 00 00	10.48	5.78
NW	00 00 00 00 00 00	9.18	6.25
NNW	00 00 00 00 00 00	6.45	5.47
N	00 00 00 00 00 00	3.24	4.27
CALM	00 00 00 00 00 00	0.00	CALM
TOTAL	1.61 5.83 28.35 33.87 22.28 8.08	100.00	6.31

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL FEBRUARY COMBINED

ALL CLASSES		WOLF CREEK GENERATING STATION	
DATA SOURCE: ON-SITE		BURLINGTON, KANSAS	
WIND SENSOR HEIGHT: 60.00 METERS		KANSAS GAS AND ELECTRIC	
TABLE GENERATED: 11/10/81 15 33 48		DAMES AND MOORE JOB NO: 7699-064	
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED
	0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0		
NNE	0 0 0 0 0 0	105	6.81
NE	1 1 1 1 1 1	96	5.53
ENE	0 0 0 0 0 0	59	6.30
E	0 0 0 0 0 0	59	6.05
ESE	0 0 0 0 0 0	48	5.84
SE	0 0 0 0 0 0	53	5.31
SSE	0 0 0 0 0 0	73	6.60
S	0 0 0 0 0 0	173	7.75
SSW	0 0 0 0 0 0	109	7.83
SW	0 0 0 0 0 0	106	6.79
WSW	0 0 0 0 0 0	68	6.60
W	0 0 0 0 0 0	75	5.60
WNW	0 0 0 0 0 0	72	5.69
NW	0 0 0 0 0 0	94	7.51
NNW	0 0 0 0 0 0	179	8.70
N	0 0 0 0 0 0	247	8.42
CALM	0 0 0 0 0 0	12	CALM
TOTAL	1 24 104 319 522 377 274	1616	7.13

NUMBER OF VALID OBSERVATIONS 1616
NUMBER OF INVALID OBSERVATIONS 424
TOTAL NUMBER OF OBSERVATIONS 2040
KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

STABILITY CLASS: PASQUILL A
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	1	00	11	00	00	5 12	5.60
NE	00	00	00	00	00	00	00	0.00
ENE	00	00	1 34	00	00	00	1 34	3.70
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	46	00	46	9.30
SE	00	46	00	00	00	00	46	1.70
SSE	00	00	46	2 78	46	00	4 11	7.42
S	00	00	00	3 70	00	2 78	11 1	8.91
SSW	00	00	00	4 17	4 17	2 78	11 1	8.31
SW	00	00	1 34	3 24	2 78	7 87	15 1	9.44
WSW	00	00	00	00	00	1 83	1 83	7.73
W	00	00	00	00	00	1 34	1 34	9.20
WNW	00	00	00	00	00	1 34	1 34	7.42
NW	00	00	00	00	00	00	00	0.00
NNW	00	00	00	00	00	00	00	0.00
N	00	00	00	00	00	00	00	0.00
CALM	00	00	00	00	00	00	00	0.00
TOTAL	1 34	2 78	9 20	27 60	23 55	33 72	100 00	8.02

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

STABILITY CLASS: PASQUILL B
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1 04	2 10	2 10	4 17	00	00	9 37	4.42
NE	2 10	2 10	2 10	00	00	00	6 30	2.37
ENE	00	4 17	00	1 04	00	00	5 21	3.36
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	0.00
SE	00	00	00	00	00	4 17	4 17	12.77
SSE	00	00	4 17	00	00	00	4 17	4.60
S	00	00	00	00	00	00	00	0.00
SSW	00	00	00	00	00	00	00	0.00
SW	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	0.00
WNW	00	00	00	00	00	00	00	0.00
NW	00	00	00	00	00	00	00	0.00
NNW	00	00	00	00	00	00	00	0.00
N	00	00	00	00	00	00	00	0.00
CALM	00	00	00	00	00	00	00	0.00
TOTAL	4 17	10 10	21 21	20 20	16 16	26 26	100 00	7.20

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINEDSTABILITY CLASS: PASQUILL C
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 47 44WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	0	1	3	2	3	14	8.33
NE	0	0	0	0	0	0	0	0.00
ENE	0	2	0	0	0	0	4	2.60
E	0	0	1	0	0	0	3	2.90
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
N	0	0	0	0	0	0	0	0.00
CALM	0	0	0	0	0	0	0	0.00
TOTAL	3	2	1	3	2	3	14	8.33

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINEDSTABILITY CLASS: PASQUILL D
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/10/81 15 47 44WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
N	0	0	0	0	0	0	0	0.00
CALM	0	0	0	0	0	0	0	0.00
TOTAL	0	0	0	0	0	0	0	0.00

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	1.14	1.14	1	3.11	4.87
NE	00	00	1.14	1.14	1.14	1	3.11	3.24
ENE	00	00	1.14	1.14	1.14	1	3.11	4.50
E	00	00	1.14	1.14	1.14	1	3.11	6.32
ESE	00	00	1.14	1.14	1.14	1	3.11	5.27
SE	00	1.14	1.14	1.14	1.14	1	4.11	6.70
SSE	00	1.14	1.14	1.14	1.14	1	4.11	6.48
S	00	00	3.11	3.11	3.11	1	10.00	10.00
SSW	00	00	3.11	3.11	3.11	1	10.00	10.84
SW	00	00	3.11	3.11	3.11	1	10.00	7.78
WSW	00	00	3.11	3.11	3.11	1	10.00	5.69
W	00	00	3.11	3.11	3.11	1	10.00	5.18
WNW	00	00	3.11	3.11	3.11	1	10.00	5.90
NW	00	00	3.11	3.11	3.11	1	10.00	7.04
NNW	00	00	3.11	3.11	3.11	1	10.00	7.05
N	00	00	3.11	3.11	3.11	1	10.00	7.25
CALM	00	00	3.11	3.11	3.11	1	10.00	CALM
TOTAL	00	20	21	88	101	88	300	7.94

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MARCH COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	1.42	1.14	1.14	1.14	1	4.11	4.53
NE	00	1.14	1.14	1.14	1.14	1	4.11	4.13
ENE	00	00	1.14	1.14	1.14	1	4.11	6.13
E	00	00	1.14	1.14	1.14	1	4.11	6.43
ESE	00	00	1.14	1.14	1.14	1	4.11	9.60
SE	00	00	1.14	1.14	1.14	1	4.11	7.89
SSE	00	00	1.14	1.14	1.14	1	4.11	7.51
S	00	00	3.11	3.11	3.11	1	10.00	7.48
SSW	00	00	3.11	3.11	3.11	1	10.00	6.92
SW	00	00	3.11	3.11	3.11	1	10.00	5.43
WSW	00	00	3.11	3.11	3.11	1	10.00	4.12
W	00	00	3.11	3.11	3.11	1	10.00	4.75
WNW	00	00	3.11	3.11	3.11	1	10.00	7.69
NW	00	00	3.11	3.11	3.11	1	10.00	7.95
NNW	00	00	3.11	3.11	3.11	1	10.00	6.38
N	00	00	3.11	3.11	3.11	1	10.00	7.67
CALM	00	00	3.11	3.11	3.11	1	10.00	CALM
TOTAL	00	5.8	12.18	34.48	41.59	5.8	100	7.02

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MARCH COMBINED

STABILITY CLASS PASQUILL 9
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	0.00	1.04	0.00	2.02	0.00	0.00	3.06	4.87
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
NNE	1.04	0.00	0.00	0.00	0.00	0.00	1.04	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.13
SSE	0.00	0.00	0.00	2.02	1.04	0.00	3.06	7.08
S	1.04	1.04	0.00	2.02	7.29	0.00	11.39	7.51
SSW	0.00	0.00	1.04	8.33	12.11	0.00	21.48	6.83
SW	0.00	0.00	2.02	5.21	4.17	0.00	11.40	5.98
WSW	0.00	0.00	3.06	8.33	1.04	0.00	12.43	4.44
W	0.00	1.04	2.02	2.02	0.00	0.00	5.08	3.25
WNW	0.00	0.00	1.04	0.00	1.04	0.00	2.08	7.26
WW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.07
WNW	0.00	0.00	1.04	0.00	2.02	0.00	3.06	6.13
N	0.00	0.00	1.04	4.17	1.04	0.00	6.25	6.53
CALM	0.00	1.04	2.02	0.00	4.17	0.00	7.23	CALM
TOTAL	4.17	6.25	14.48	37.36	37.36	0.00	109.58	6.40

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL MARCH COMBINED

ALL CLASSES
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/10/81 15 47 44

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	>10-0	TOTAL	MEAN SPEED
NNE	12	43	13	13	32	1	115	7.39
N	4	50	20	5	5	1	85	4.54
NNE	25	10	19	5	5	5	69	5.25
ENE	05	62	1.18	37	31	31	2.85	6.60
E	12	9	18	13	11	11	62	7.18
ESE	12	56	99	80	88	88	3.84	4.40
SE	0.00	11	11	24	4	21	71	7.12
SSE	12	9	14	41	27	15	108	7.32
S	12	56	87	2.54	1.87	93	6.89	9.09
SSW	1	40	23	34	39	17	171	8.82
SW	0.00	1.82	80	3.59	5.70	5.14	15.36	7.28
WSW	12	14	25	34	45	67	176	6.02
W	06	43	68	1.11	93	93	4.15	6.67
WNW	1	50	80	13	56	31	203	9.98
W	37	37	50	37	50	50	2.60	8.68
WNW	0.00	1.82	25	13	18	1.11	3.41	8.93
WW	0.00	1.82	18	22	26	32	99	7.70
WNW	0.00	1.82	49	1.36	1.61	1.98	6.13	CALM
N	0.00	1.82	9	23	34	42	142	0.00
CALM	19	06	16	3.22	3.03	1.80	9.29	7.87
TOTAL	26	94	230	432	436	395	1615	
	1.01	5.82	14.24	26.75	27.12	24.46	100.00	

NUMBER OF VALID OBSERVATIONS 1615
NUMBER OF INVALID OBSERVATIONS 117
TOTAL NUMBER OF OBSERVATIONS 2232

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL APRIL COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	000000	000000	1.87	1.23	0.00	0.00	14	5.13
NE	000000	000000	2.29	2.24	0.00	0.00	4.38	4.02
ENE	000000	000000	0.00	0.00	0.00	0.00	1.23	0.00
E	000000	000000	0.00	0.00	0.00	0.00	0.00	7.20
ESE	000000	000000	0.00	0.00	0.00	0.00	1.23	7.09
SE	000000	000000	0.00	0.00	0.00	0.00	2.80	8.37
SSE	000000	000000	0.00	0.00	0.00	0.00	4.38	10.17
S	000000	000000	1.11	2.00	2.80	0.00	9.00	10.89
SSW	000000	000000	1.11	2.00	4.00	10.00	18.00	9.14
SW	000000	000000	1.11	2.00	4.00	4.00	12.00	10.83
WSW	000000	000000	0.00	0.00	0.00	4.00	7.00	9.07
W	000000	000000	0.00	0.00	0.00	2.18	3.00	5.84
WNW	000000	000000	2.29	1.23	1.23	0.00	5.00	6.90
NW	000000	000000	1.11	2.00	1.23	0.00	4.00	9.71
NNW	000000	000000	0.00	0.00	2.80	5.00	10.00	7.89
N	000000	000000	0.00	2.00	2.80	0.00	6.00	6.69
CALM	000000	000000	0.00	0.00	0.00	0.00	1.00	CALM
TOTAL	000000	2.49	13.43	20.23	27.73	35.83	100.00	8.82

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL APRIL COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	000000	000000	0.00	0.00	1.11	1.11	2.00	9.35
NE	000000	000000	0.00	0.00	0.00	0.00	0.00	2.90
ENE	000000	2.30	1.11	0.00	0.00	0.00	3.45	7.98
E	000000	000000	0.00	0.00	4.00	0.00	5.75	5.66
ESE	000000	000000	1.11	2.00	2.00	0.00	5.75	4.20
SE	000000	000000	1.11	0.00	0.00	0.00	1.11	8.29
SSE	000000	000000	0.00	0.00	0.00	0.00	8.00	12.22
S	000000	000000	0.00	0.00	0.00	5.75	6.00	11.61
SSW	000000	000000	1.11	0.00	3.45	10.00	14.55	7.20
SW	000000	000000	1.11	0.00	1.11	1.11	4.00	11.18
WSW	000000	000000	0.00	0.00	0.00	3.45	5.75	5.03
W	000000	1.11	0.00	0.00	0.00	0.00	2.00	7.35
WNW	000000	0.00	1.11	0.00	0.00	0.00	1.11	8.54
NW	000000	1.11	1.11	0.00	0.00	0.00	2.00	7.99
NNW	000000	0.00	0.00	0.00	0.00	0.00	0.00	9.22
N	000000	0.00	0.00	0.00	0.00	0.00	0.00	8.97
CALM	000000	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	000000	5.75	9.23	10.24	41.26	22.00	100.00	8.92

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCCS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS PASQUILL C				WOLF CREEK GENERATING STATION			
DATA SOURCE: ON-SITE				SURLINGTON, KANSAS			
WIND SENSOR HEIGHT: 60.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED: 11/11/81 10 37 57				DAMES AND MOORE JOB NO 7499-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	0	0	0	1	2	1	4
NE	00	00	00	98	10	00	3.92
ENE	00	00	00	05	10	05	19
E	98	98	98	3.92	98	00	7.84
ESE	05	05	05	19	05	00	39
E	00	00	00	00	98	00	3
ESE	00	00	05	00	05	00	2.94
E	00	00	00	00	00	00	13
ESE	00	00	00	00	00	00	0
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	00
ESE	00	00	00	00	00	00	00
E	00	00	00	00	00	00	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS PASQUILL D		WOLF CREEK GENERATING STATION	
DATA SOURCE: ON-SITE		SURLINGTON, KANSAS	
WIND SENSOR HEIGHT: 60.00 METERS		KANSAS GAS AND ELECTRIC	
TABLE GENERATED: 11/11/81 10 37 57		DAMES AND MOORE JOB NO: 7499-064	
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)	TOTAL	MEAN SPEED
	0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0		
NNE	00 00 1.07 1.07 1.07 00	3.21	7.29
NE	00 00 1.07 2.14 1.07 00	5.28	3.43
ENE	00 00 00 1.07 00 00	1.07	6.24
E	00 00 00 00 00 00	0.00	6.38
ESE	00 00 00 00 00 00	0.00	8.49
SE	00 00 00 00 00 00	0.00	8.49
SSE	00 00 00 00 00 00	0.00	10.60
S	00 00 00 00 00 00	0.00	10.60
SSW	00 00 00 00 00 00	0.00	9.84
SW	00 00 00 00 00 00	0.00	8.64
WSW	00 00 00 00 00 00	0.00	8.01
W	00 00 00 00 00 00	0.00	7.81
WNW	00 00 00 00 00 00	0.00	8.80
NW	00 00 00 00 00 00	0.00	9.13
NNW	00 00 00 00 00 00	0.00	8.30
N	00 00 00 00 00 00	0.00	10.00
CALM	00 00 00 00 00 00	0.00	CALM
TOTAL	1.10 11.26 22.14 30.24 34.53 100.00	63.70	9.40

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 15 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS: PASQUILL E
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10 37 57

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	8.59
NE	00	00	00	00	00	00	00	4.39
ENE	00	00	00	00	00	00	00	4.71
E	00	00	00	00	00	00	00	8.11
ESE	00	00	00	00	00	00	00	8.20
SE	00	00	00	00	00	00	00	10.03
SSE	00	00	00	00	00	00	00	9.77
S	00	00	00	00	00	00	00	9.78
SSW	00	00	00	00	00	00	00	8.57
SW	00	00	00	00	00	00	00	8.13
WSW	00	00	00	00	00	00	00	7.15
W	00	00	00	00	00	00	00	4.82
WNW	00	00	00	00	00	00	00	7.41
NW	00	00	00	00	00	00	00	6.18
NNW	00	00	00	00	00	00	00	7.27
N	00	00	00	00	00	00	00	7.61
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	20	40	108	216	122	100	8.55

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL APRIL COMBINED

STABILITY CLASS: PASQUILL F
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10 37 57

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	7.23
NE	00	00	00	00	00	00	00	3.12
ENE	00	00	00	00	00	00	00	6.89
E	00	00	00	00	00	00	00	4.25
ESE	00	00	00	00	00	00	00	5.45
SE	00	00	00	00	00	00	00	8.09
SSE	00	00	00	00	00	00	00	8.25
S	00	00	00	00	00	00	00	7.70
SSW	00	00	00	00	00	00	00	5.89
SW	00	00	00	00	00	00	00	7.24
WSW	00	00	00	00	00	00	00	0.00
W	00	00	00	00	00	00	00	3.97
WNW	00	00	00	00	00	00	00	6.83
NW	00	00	00	00	00	00	00	6.91
NNW	00	00	00	00	00	00	00	6.68
N	00	00	00	00	00	00	00	7.51
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	20	40	108	216	122	100	7.23

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL APRIL COMBINEDSTABILITY CLASS PASQUILL 9
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 10 37 57WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	10	6.42
NE	00	00	00	00	00	00	6.45	4.99
ENE	00	00	00	00	00	00	2.58	3.75
E	00	00	00	00	00	00	1.10	4.60
ESE	00	00	00	00	00	00	7.10	7.39
SE	00	00	00	00	00	00	7.12	6.58
SSE	00	00	00	00	00	00	9.68	7.00
S	00	00	00	00	00	00	14.84	7.17
SSW	00	00	00	00	00	00	1.12	7.01
SW	00	00	00	00	00	00	18.08	6.37
WSW	00	00	00	00	00	00	9.15	4.89
W	00	00	00	00	00	00	2.38	4.67
WNW	00	00	00	00	00	00	2.38	4.60
NW	00	00	00	00	00	00	3.87	3.93
NNW	00	00	00	00	00	00	1.15	6.30
N	00	00	00	00	00	00	3.23	6.68
CALM	00	00	00	00	00	00	7.11	6.72
TOTAL	00	00	00	00	00	00	100.00	6.56

KEY III NUMBER OF OCCURRENCES
 III PERCENT OCCURRENCES THIS CLASS
 III PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL APRIL COMBINEDALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 10 37 57WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	15	18	1.51	1.51	44	4.88	7.12
NE	10	49	30	1.41	1.41	0.00	3.63	4.95
ENE	00	05	53	1.22	1.22	10	2.58	6.50
E	10	10	53	1.56	1.70	34	4.13	7.10
ESE	00	15	17	4.48	4.11	17	124	7.56
SE	00	10	53	1.31	4.52	43	8.56	8.70
SSE	00	10	7	4.48	102	102	261	9.73
S	00	10	34	2.33	4.96	4.96	12.89	9.82
SSW	10	05	15	4.40	70	46	16.14	6.58
SW	00	10	53	1.22	1.56	1.51	4.42	8.69
WSW	00	4	29	14	44	83	2.43	7.89
W	00	4	18	29	18	7	76	6.59
WNW	10	15	12	12	1.41	15	73	7.80
NW	00	15	15	1.41	1.94	44	122	8.58
NNW	00	10	15	1.70	2.33	15	122	7.71
N	1	5	49	2.09	2.04	2.04	143	8.45
CALM	00	00	00	00	00	00	0.00	CALM
TOTAL	44	2.38	10.65	25.47	35.05	535	100.00	8.39

NUMBER OF VALID OBSERVATIONS 2057
 NUMBER OF INVALID OBSERVATIONS 103
 TOTAL NUMBER OF OBSERVATIONS 2160
 KEY III NUMBER OF OCCURRENCES
 III PERCENT OCCURRENCES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINEDSTABILITY CLASS: PASQUILL A
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10:41:53WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	21	7	1	1	32	6.02
NE	00	00	18	1	0	0	19	4.32
ENE	00	00	1	78	0	0	79	5.06
E	00	00	1	14	0	0	15	5.09
ESE	00	00	1	19	0	0	20	5.24
SE	00	00	2	78	0	0	80	6.61
SSE	00	00	1	14	0	0	15	6.95
S	00	00	2	78	2	1	83	9.19
SSW	00	00	1	14	0	0	15	10.27
SW	00	00	1	1	0	10	12	7.66
WSW	00	00	0	0	0	0	0	2.90
W	00	00	0	0	0	0	0	3.47
WNW	00	00	0	0	0	0	0	2.65
NW	00	00	0	0	0	0	0	6.31
NNW	00	00	0	0	0	0	0	5.70
N	00	00	1	4	0	0	5	6.55
CALM	00	00	0	0	0	0	0	CALM
TOTAL	00	5	71	120	22	12	100	7.49
	00	1	3	5	4	1	17	

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINEDSTABILITY CLASS: PASQUILL B
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10:41:53WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	3	2	0	1	6	5.90
NE	00	00	14	2	0	0	16	4.43
ENE	00	1	1	1	0	0	3	5.60
E	00	00	2	0	1	0	3	9.63
ESE	00	00	1	0	1	0	2	8.43
SE	00	00	1	2	1	0	4	7.60
SSE	00	00	1	3	1	0	5	7.72
S	00	00	2	0	0	2	4	9.27
SSW	00	1	1	0	2	11	15	9.98
SW	00	00	0	0	3	5	8	9.20
WSW	00	00	0	0	0	1	1	10.30
W	00	00	0	0	0	0	0	4.45
WNW	00	00	0	0	0	0	0	4.90
NW	00	00	0	0	1	0	1	5.42
NNW	00	00	0	0	0	1	1	6.31
N	00	00	0	0	3	0	3	8.12
CALM	00	1	0	0	0	0	1	CALM
TOTAL	00	5	25	19	17	32	100	7.89
	00	1	3	5	4	1	17	

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINEDSTABILITY CLASS: PASQUILL C
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10:41:53WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	4	4.80
NE	00	00	00	00	00	00	1	4.50
ENE	00	00	00	00	00	00	1	7.60
E	00	00	00	00	00	00	5	5.46
ESE	00	00	00	00	00	00	3	6.02
SE	00	00	00	00	00	00	3	5.40
SSE	00	00	00	00	00	00	3	7.20
S	00	00	00	00	00	00	3	8.48
SSW	00	00	00	00	00	00	1	10.00
SW	00	00	00	00	00	00	13	7.10
WSW	00	00	00	00	00	00	4	7.60
W	00	00	00	00	00	00	3	2.97
WSW	00	00	00	00	00	00	2	5.73
W	00	00	00	00	00	00	5	5.43
WSW	00	00	00	00	00	00	6	6.08
N	00	00	00	00	00	00	10	8.65
CALM	00	00	00	00	00	00	0	CALM
TOTAL	2	4	20	27	20	24	100	7.41

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINEDSTABILITY CLASS: PASQUILL D
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10:41:53WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	4	7.29
NE	00	00	00	00	00	00	5	5.32
ENE	00	00	00	00	00	00	6	6.62
E	00	00	00	00	00	00	5	5.91
ESE	00	00	00	00	00	00	4	5.93
SE	00	00	00	00	00	00	6	6.39
SSE	00	00	00	00	00	00	7	6.55
S	00	00	00	00	00	00	9	9.63
SSW	00	00	00	00	00	00	9	9.79
SW	00	00	00	00	00	00	6	6.04
WSW	00	00	00	00	00	00	5	5.37
W	00	00	00	00	00	00	3	3.99
WSW	00	00	00	00	00	00	5	5.66
W	00	00	00	00	00	00	7	7.75
WSW	00	00	00	00	00	00	7	7.69
N	00	00	00	00	00	00	6	6.67
CALM	00	00	00	00	00	00	0	CALM
TOTAL	1	2	17	30	26	18	100	7.40

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 19 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINED

STABILITY CLASS PASQUILL E
DATA SOURCE: J-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10 41 53

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	03	10	20	30	28	7.22
NE	00	00	14	10	10	00	4.78	5.02
ENE	00	00	03	10	10	00	5.46	5.53
E	00	00	19	20	10	00	5.13	7.33
ESE	00	00	14	10	10	00	4.25	7.17
SE	00	00	05	10	10	00	1.17	6.80
SSE	00	00	10	20	10	00	2.14	7.11
S	00	00	10	10	10	00	1.17	9.14
SSW	00	00	10	10	10	00	3.10	7.07
SW	00	00	10	10	10	00	1.17	6.90
WSW	00	00	10	10	10	00	1.17	5.44
W	00	00	10	10	10	00	1.17	5.32
WNW	00	00	10	10	10	00	1.17	5.64
W	00	00	10	10	10	00	1.17	5.48
WNW	00	00	10	10	10	00	1.17	7.19
N	00	00	10	10	10	00	1.17	8.38
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	7.48

KEY: 111 NUMBER OF OCCURRENCES
111 PERCENT OCCURRENCES THIS CLASS
111 PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINED

STABILITY CLASS PASQUILL F
DATA SOURCE: J-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10 41 53

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	03	10	20	30	28	6.11
NE	00	00	14	10	10	00	4.78	4.91
ENE	00	00	03	10	10	00	5.46	6.43
E	00	00	19	20	10	00	5.13	6.70
ESE	00	00	14	10	10	00	4.25	6.63
SE	00	00	05	10	10	00	1.17	6.33
SSE	00	00	10	20	10	00	2.14	5.88
S	00	00	10	10	10	00	1.17	6.00
SSW	00	00	10	10	10	00	3.10	6.50
SW	00	00	10	10	10	00	1.17	4.19
WSW	00	00	10	10	10	00	1.17	4.82
W	00	00	10	10	10	00	1.17	6.10
WNW	00	00	10	10	10	00	1.17	6.57
W	00	00	10	10	10	00	1.17	5.05
WNW	00	00	10	10	10	00	1.17	4.88
N	00	00	10	10	10	00	1.17	7.53
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	6.17

KEY: 111 NUMBER OF OCCURRENCES
111 PERCENT OCCURRENCES THIS CLASS
111 PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

Page 20 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINED

STABILITY CLASS PASQUILL G
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 10 41 53

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	17	23	17	1	58	6.71
NE	00	00	14	19	14	0	47	6.42
ENE	00	11	7	23	00	00	41	6.62
E	00	00	17	23	00	00	40	6.69
ESE	00	00	40	34	00	00	74	6.04
SE	00	00	11	23	37	00	71	5.34
SSE	00	00	40	34	17	00	91	5.32
S	00	00	28	40	17	00	85	6.83
SSW	00	00	00	40	23	00	63	6.34
SW	00	00	00	40	28	00	68	3.90
WSW	00	00	00	00	00	00	00	3.20
W	00	00	00	00	00	00	00	3.81
WNW	00	00	00	00	00	00	00	5.48
NW	00	00	00	00	00	00	00	6.27
NNW	00	00	00	00	00	00	00	6.54
N	00	00	00	00	00	00	00	7.15
CALM	00	00	00	00	00	00	00	CALM
TOTAL	14	11	37	72	30	1	165	5.58

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL MAY COMBINED

ALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 10 41 53

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	2	31	43	36	13	129	6.74
NE	00	15	52	34	11	00	112	6.87
ENE	00	11	29	42	27	5	114	6.01
E	00	33	27	46	28	5	144	6.25
ESE	00	6	28	44	32	3	113	6.37
SE	00	28	31	206	149	14	528	6.46
SSE	00	5	36	78	39	11	171	6.68
S	00	42	38	23	53	15	169	6.89
SSW	00	10	31	96	187	154	483	8.95
SW	00	28	43	20	342	392	1027	8.97
WSW	00	20	15	27	14	12	78	6.78
W	00	28	42	47	33	00	159	5.34
WNW	00	10	24	14	00	00	51	4.32
NW	00	47	112	65	00	00	228	5.55
NNW	00	4	10	13	4	2	34	6.16
N	00	33	11	15	12	4	65	6.55
CALM	00	00	00	00	00	00	00	CALM
TOTAL	20	119	394	678	602	328	2141	7.18

NUMBER OF VALID OBSERVATIONS 2141
NUMBER OF INVALID OBSERVATIONS 91
TOTAL NUMBER OF OBSERVATIONS 2232

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 22 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL WIND COMBINED

STABILITY CLASS PASQUILL C

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 60.00 METERS

TABLE GENERATED: 11/11/81 10 54 26

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	2	4.80
NE	00	00	00	00	00	00	3	4.30
ENE	00	00	00	00	00	00	1	2.90
E	00	00	00	00	00	00	0	0.00
ESE	00	00	00	00	00	00	0	3.10
SE	00	00	00	00	00	00	1	4.50
SSE	00	00	00	00	00	00	1	7.34
S	00	00	00	00	00	00	1	9.12
SSW	00	00	00	00	00	00	2	8.17
SW	00	00	00	00	00	00	5	10.70
WSW	00	00	00	00	00	00	1	14.90
W	00	00	00	00	00	00	2	9.80
WNW	00	00	00	00	00	00	4	6.55
NW	00	00	00	00	00	00	12	6.29
NNW	00	00	00	00	00	00	6	7.03
N	00	00	00	00	00	00	1	10.70
CALM	00	00	00	00	00	00	1	CALM
TOTAL	00	2	14	30	31	21	100	7.87

KEY: (XX) NUMBER OF OCCURRENCES
 (XX) PERCENT OCCURRENCES THIS CLASS
 (XX) PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: ALL WIND COMBINED

STABILITY CLASS PASQUILL D

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 60.00 METERS

TABLE GENERATED: 11/11/81 10 54 26

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	2	4.85
NE	00	00	00	00	00	00	1	4.01
ENE	00	00	00	00	00	00	3	4.23
E	00	00	00	00	00	00	3	5.13
ESE	00	00	00	00	00	00	3	5.47
SE	00	00	00	00	00	00	5	4.90
SSE	00	00	00	00	00	00	4	6.29
S	00	00	00	00	00	00	7	8.59
SSW	00	00	00	00	00	00	10	8.03
SW	00	00	00	00	00	00	4	7.26
WSW	00	00	00	00	00	00	1	5.28
W	00	00	00	00	00	00	2	6.64
WNW	00	00	00	00	00	00	1	7.20
NW	00	00	00	00	00	00	2	7.52
NNW	00	00	00	00	00	00	1	6.53
N	00	00	00	00	00	00	1	6.08
CALM	00	00	00	00	00	00	1	CALM
TOTAL	00	2	12	32	21	17	100	7.06

KEY: (XX) NUMBER OF OCCURRENCES
 (XX) PERCENT OCCURRENCES THIS CLASS
 (XX) PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JUNE COMBINEDSTABILITY CLASS PASQUILL E
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 10 54 26WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	6.12
NE	00	00	00	00	00	00	00	4.96
ENE	00	00	00	00	00	00	00	4.91
E	00	00	00	00	00	00	00	3.83
ESE	00	00	00	00	00	00	00	6.17
SE	00	00	00	00	00	00	00	6.32
SSE	00	00	00	00	00	00	00	7.90
S	00	00	00	00	00	00	00	8.43
SSW	00	00	00	00	00	00	00	8.21
SW	00	00	00	00	00	00	00	7.72
WSW	00	00	00	00	00	00	00	4.98
W	00	00	00	00	00	00	00	5.35
WNW	00	00	00	00	00	00	00	7.02
NW	00	00	00	00	00	00	00	7.84
NNW	00	00	00	00	00	00	00	7.68
N	00	00	00	00	00	00	00	6.06
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	7.59

KEY: 111 NUMBER OF OCCURRENCES
111 PERCENT OCCURRENCES THIS CLASS
111 PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JUNE COMBINEDSTABILITY CLASS PASQUILL F
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 10 54 26WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	00	00	00	6.37
NE	00	00	00	00	00	00	00	3.70
ENE	00	00	00	00	00	00	00	6.52
E	00	00	00	00	00	00	00	5.74
ESE	00	00	00	00	00	00	00	6.13
SE	00	00	00	00	00	00	00	5.65
SSE	00	00	00	00	00	00	00	6.21
S	00	00	00	00	00	00	00	6.96
SSW	00	00	00	00	00	00	00	7.11
SW	00	00	00	00	00	00	00	5.69
WSW	00	00	00	00	00	00	00	5.30
W	00	00	00	00	00	00	00	5.82
WNW	00	00	00	00	00	00	00	5.62
NW	00	00	00	00	00	00	00	6.60
NNW	00	00	00	00	00	00	00	5.27
N	00	00	00	00	00	00	00	6.67
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	00	00	00	00	00	00	6.16

KEY: 111 NUMBER OF OCCURRENCES
111 PERCENT OCCURRENCES THIS CLASS
111 PERCENT OCCURRENCES ALL CLASSES

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TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 24 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

STABILITY CLASS: PASQUILL G
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10 54 26

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	01	04	05	12	01	10	5.94
NE	00	00	00	00	00	00	00	4.17
ENE	00	00	00	00	00	00	00	3.90
E	00	00	00	00	00	00	00	4.55
ESE	00	00	00	00	00	00	00	4.80
SE	00	00	00	00	00	00	00	5.74
SSE	00	00	00	00	00	00	00	6.16
S	00	00	00	00	00	00	00	7.18
SSW	00	00	00	00	00	00	00	5.27
SW	00	00	00	00	00	00	00	5.12
WSW	00	00	00	00	00	00	00	5.47
W	00	00	00	00	00	00	00	4.95
WNW	00	00	00	00	00	00	00	5.38
W	00	00	00	00	00	00	00	2.63
WNW	00	00	00	00	00	00	00	5.57
N	00	00	00	00	00	00	00	8.19
CALM	00	00	00	00	00	00	00	CALM
TOTAL	53	11	24	87	15	1	100	5.72

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JUNE COMBINED

ALL CLASSES
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 10 54 26

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	08	28	28	15	3	82	5.75
NE	03	07	43	12	05	05	3.67	4.21
ENE	03	08	34	19	04	00	3.67	4.69
E	00	04	16	22	03	00	2.56	5.22
ESE	05	04	13	16	04	05	2.54	5.52
SE	05	04	13	16	04	05	2.54	5.57
SSE	00	04	16	22	03	00	2.56	6.81
S	03	08	34	19	04	00	3.67	8.16
SSW	03	08	34	19	04	00	3.67	8.22
SW	03	08	34	19	04	00	3.67	7.24
WSW	03	08	34	19	04	00	3.67	5.64
W	03	08	34	19	04	00	3.67	5.45
WNW	03	08	34	19	04	00	3.67	6.53
W	03	08	34	19	04	00	3.67	6.54
WNW	03	08	34	19	04	00	3.67	6.95
N	00	00	00	00	00	00	00	6.76
CALM	00	00	00	00	00	00	00	CALM
TOTAL	23	105	376	66	571	272	2031	7.03

NUMBER OF VALID OBSERVATIONS: 2031
NUMBER OF INVALID OBSERVATIONS: 129
TOTAL NUMBER OF OBSERVATIONS: 2160

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

STABILITY CLASS PASQUILL A
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
ENE	00	00	51	210	2	00	14	6.66
NE	00	00	100	210	10	00	353	5.31
ENE	00	00	178	34	00	00	211	5.86
E	00	00	322	3	13	00	338	4.76
ESE	00	00	170	200	00	00	370	4.08
SE	00	00	300	1	00	00	301	5.04
SSE	00	00	180	00	00	00	180	5.53
S	00	00	200	3	00	00	203	7.93
SSW	00	00	22	10	7	4	43	7.58
SW	00	00	2	13	7	4	26	5.90
WSW	00	00	2	3	1	00	6	5.69
W	00	00	1	7	1	00	9	5.31
WNW	00	00	1	10	00	00	11	5.37
NW	00	00	7	00	00	00	7	4.34
NNW	00	00	1	00	00	00	1	5.30
N	00	00	00	00	00	00	00	5.61
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	520	77	183	75	37	994	6.63

KEY: (X) NUMBER OF OCCURRENCES
(X) PERCENT OCCURRENCES THIS CLASS
(X) PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

STABILITY CLASS PASQUILL B
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
ENE	00	100	00	5	2	1	9	7.09
NE	00	100	100	100	00	00	300	3.53
ENE	00	100	00	00	00	00	100	1.60
E	00	00	00	2	00	00	2	6.15
ESE	00	00	00	1	00	00	1	4.30
SE	00	00	100	100	00	00	200	5.35
SSE	00	00	300	5	1	00	306	5.43
S	00	100	400	14	11	4	644	7.25
SSW	00	100	400	8	9	1	910	6.99
SW	00	00	100	2	00	00	300	6.17
WSW	00	00	100	1	00	00	200	5.50
W	00	00	00	2	1	00	300	6.90
WNW	00	00	00	00	00	00	00	3.30
NW	00	00	00	1	00	00	100	6.40
NNW	00	00	00	1	00	00	100	5.00
N	00	00	00	00	00	00	00	0.00
CALM	00	00	00	00	00	00	00	CALM
TOTAL	00	900	1800	44	24	6	1000	6.48

KEY: (X) NUMBER OF OCCURRENCES
(X) PERCENT OCCURRENCES THIS CLASS
(X) PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JULY COMBINED

STABILITY CLASS PASQUILL C
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	4	1	1	6	7.17
NE	00	00	00	3	00	00	3	6.00
ENE	00	00	00	3	00	00	4	6.02
E	00	00	00	1	00	00	3	3.93
ESE	00	00	00	00	00	00	00	4.80
SE	00	00	00	00	00	00	1	8.30
SSE	00	00	00	1	00	00	3	4.34
S	00	00	00	3	00	00	7	4.28
SSW	00	00	00	17	3	1	26	6.48
SW	00	00	00	7	8	00	21	7.26
WSW	00	00	00	3	2	00	5	0.00
W	00	00	00	00	00	00	00	2.37
WNW	00	00	00	00	00	00	3	5.42
NW	00	00	00	1	1	00	4	4.67
NNW	00	00	00	2	00	00	3	1.95
N	00	00	00	00	00	00	2	5.47
CALM	00	00	00	00	00	00	6	CALM
TOTAL	4	13	12	47	15	6	100	5.95

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JULY COMBINED

STABILITY CLASS PASQUILL D
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 42 02

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	4	1	1	00	4	6.97
NE	00	00	00	2	00	00	3	5.77
ENE	00	00	00	4	00	00	4	5.71
E	00	00	00	2	00	00	8	4.55
ESE	00	00	00	1	00	00	1	4.48
SE	00	00	00	1	00	00	1	5.90
SSE	00	00	00	1	00	00	1	4.82
S	00	00	00	1	00	00	1	7.30
SSW	00	00	00	1	00	00	1	6.88
SW	00	00	00	1	00	00	1	5.08
WSW	00	00	00	1	00	00	1	6.09
W	00	00	00	1	00	00	1	6.85
WNW	00	00	00	1	00	00	1	7.83
NW	00	00	00	1	00	00	1	7.04
NNW	00	00	00	1	00	00	1	6.58
N	00	00	00	1	00	00	1	7.08
CALM	00	00	00	00	00	00	00	CALM
TOTAL	1	2	10	17	2	0	100	6.28

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JULY COMBINED

STABILITY CLASS PASQUILL E			WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE			BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 60.00 METERS			KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 13 42 02			DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	00	01	1	9	3	0	6.49
	00	02	01	20	67	0	14
	00	03	02	44	15	0	888
NE	00	04	0	1	0	0	6.68
	00	09	09	159	22	0	16
	00	10	10	34	05	0	78
ENE	00	00	13	2	45	0	5.98
	00	01	13	29	21	5	433
	00	02	13	63	10	1	186
E	00	00	3	4	156	87	6.07
	00	01	12	14	34	15	1048
	00	02	08	53	7	5	233
ESE	00	00	1	1	1	0	6.08
	00	09	13	1	36	0	113
	00	10	08	33	4	0	349
SE	00	00	8	3	0	0	5.81
	00	07	179	5	1	0	871
	00	06	39	1	12	1	180
SSE	00	00	11	1	0	0	6.25
	00	04	246	6	2	0	1161
	00	10	57	1	39	0	234
S	00	00	4	16	10	28	7.08
	00	02	156	30	04	89	2869
	00	03	34	3	20	1	630
SSW	00	00	0	5	5	2	533
	00	00	09	3	23	11	359
	00	00	20	1	12	0	559
SW	00	00	4	1	4	0	5.88
	00	00	09	1	89	0	333
	00	10	20	2	20	0	333
WSW	00	00	0	0	0	0	6.70
	00	00	07	0	1	0	11
	00	00	15	0	24	0	56
W	00	00	1	0	0	0	6.38
	00	00	02	0	22	0	180
	00	00	09	0	05	0	24
WNW	00	00	0	0	0	0	7.37
	00	00	00	4	2	0	67
	00	00	00	10	05	0	15
W	00	00	0	0	0	0	5.75
	00	00	09	9	22	0	124
	00	00	20	0	05	0	24
WNW	00	00	0	0	0	0	4.86
	00	00	00	4	0	0	5
	00	00	00	209	0	0	24
N	00	00	0	0	0	0	7.45
	00	00	00	3	4	0	8
	00	00	00	0	89	0	179
CALM	00	00	03	15	20	0	39
	00	00	00	0	0	0	0
	00	00	00	0	0	0	0
TOTAL	489	21	70	224	121	210	6.49
	103	103	103	103	103	103	103

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL JULY COMBINED

STABILITY CLASS PASQUILL F				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 60.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED: 11/11/81 13 42 02				DAMES AND MOORE JOB NO: 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	20	
	00	00	00	00	00	00	8.48	
NE	00	00	00	00	00	00	4.79	
	00	00	00	00	00	00	4.79	
ENE	00	00	00	00	00	00	5.67	
	00	00	00	00	00	00	5.67	
E	00	00	00	00	00	00	7.13	
	00	00	00	00	00	00	7.13	
ESE	00	00	00	00	00	00	6.58	
	00	00	00	00	00	00	6.58	
SE	00	00	00	00	00	00	5.95	
	00	00	00	00	00	00	5.95	
SSE	00	00	00	00	00	00	6.43	
	00	00	00	00	00	00	6.43	
S	00	00	00	00	00	00	6.67	
	00	00	00	00	00	00	6.67	
SSW	00	00	00	00	00	00	7.35	
	00	00	00	00	00	00	7.35	
SW	00	00	00	00	00	00	6.64	
	00	00	00	00	00	00	6.64	
WSW	00	00	00	00	00	00	6.07	
	00	00	00	00	00	00	6.07	
W	00	00	00	00	00	00	6.15	
	00	00	00	00	00	00	6.15	
WNW	00	00	00	00	00	00	4.90	
	00	00	00	00	00	00	4.90	
W	00	00	00	00	00	00	7.27	
	00	00	00	00	00	00	7.27	
WNW	00	00	00	00	00	00	4.80	
	00	00	00	00	00	00	4.80	
N	00	00	00	00	00	00	7.34	
	00	00	00	00	00	00	7.34	
CALM	00	00	00	00	00	00	CALM	
	00	00	00	00	00	00	CALM	
TOTAL	41	24	15	22	93	13	6.68	
	24	24	24	24	24	24		

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

STABILITY CLASS PASQUILL G

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 60.00 METERS

TABLE GENERATED 11/11/81 13.42.02

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
ENE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
E	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
ESE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SSE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
S	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SSW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
WSW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
W	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
WNW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
NW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
NNW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
N	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
CALM	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
TOTAL	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL JULY COMBINED

ALL CLASSES

DATA SOURCE ON-SITE

WIND SENSOR HEIGHT 60.00 METERS

TABLE GENERATED 11/11/81 13.42.02

WOLF CREEK GENERATING STATION

BURLINGTON, KANSAS

KANSAS GAS AND ELECTRIC

DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
ENE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
E	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
ESE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SSE	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
S	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SSW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
SW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
WSW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
W	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
WNW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
NW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
NNW	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
N	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
CALM	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14
TOTAL	0.00	0.00	0.00	2.00	1.00	0.00	3.00	7.14

NUMBER OF VALID OBSERVATIONS 2048
NUMBER OF INVALID OBSERVATIONS 134
TOTAL NUMBER OF OBSERVATIONS 2232
KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINEDSTABILITY CLASS: PASQUILL A
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 51 50WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	1	0	1	3	0	6	5.73
NE	33	33	0	33	104	0	208	4.54
ENE	33	0	104	174	0	0	312	2.95
E	33	0	0	0	0	0	69	5.72
ESE	33	0	0	0	0	0	104	3.07
SE	0	0	0	0	0	0	139	4.32
SSE	0	0	0	0	0	0	4	6.46
S	0	0	0	0	0	0	7	7.49
SSW	0	0	0	0	0	0	30	6.99
SW	0	0	0	0	0	0	27	5.09
WSW	0	0	0	0	0	0	82	3.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	1	3.42
NNW	0	0	0	0	0	0	1	7.64
N	0	0	0	0	0	0	3	6.06
CALM	0	0	0	0	0	0	91	4.78
TOTAL	243	92	173	381	23	27	1000	6.49

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINEDSTABILITY CLASS: PASQUILL B
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 51 50WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	0	0	0	2	0	2	8.90
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	6.05
E	0	0	0	0	0	0	0	4.50
ESE	0	0	0	0	0	0	0	3.63
SE	0	0	0	0	0	0	0	4.35
SSE	0	0	0	0	0	0	0	8.53
S	0	0	0	0	0	0	0	7.47
SSW	0	0	0	0	0	0	0	7.33
SW	0	0	0	0	0	0	0	6.01
WSW	0	0	0	0	0	0	0	2.85
W	0	0	0	0	0	0	0	2.62
WNW	0	0	0	0	0	0	0	1.85
NW	0	0	0	0	0	0	0	5.80
NNW	0	0	0	0	0	0	0	8.25
N	0	0	0	0	0	0	0	5.44
CALM	0	0	0	0	0	0	0	CALM
TOTAL	7	10	25	27	24	13	100	6.54

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 30 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL AUGUST COMBINEDSTABILITY CLASS PASQUILL C
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 51 50WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	1	2	1	0	5	6.68
NE	00	00	0	14	0	0	14	4.25
ENE	00	00	1	0	0	0	1	5.49
E	00	00	1	4	0	0	5	8.00
ESE	00	00	0	0	0	0	0	5.05
SE	00	00	2	1	0	0	3	3.58
SSE	00	00	3	3	1	1	8	6.32
S	00	00	1	8	7	5	22	8.27
SSW	00	00	2	10	8	3	24	7.77
SW	00	00	2	2	4	1	11	7.24
WSW	00	00	2	1	1	0	4	6.62
W	00	00	1	0	1	0	2	6.70
WSW	00	00	0	0	0	0	0	3.80
W	00	00	0	0	0	0	0	7.30
WNW	00	00	0	0	0	0	0	6.42
N	00	00	0	0	0	0	0	4.76
CALM	00	00	0	0	0	0	0	CALM
TOTAL	1	4	21	35	25	12	100	6.75

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL AUGUST COMBINEDSTABILITY CLASS PASQUILL D
DATA SOURCE CN-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 51 50WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	2	2	4	0	6	5.97
NE	00	00	0	0	0	0	0	5.54
ENE	00	00	1	0	0	0	1	5.61
E	00	00	1	3	1	0	5	5.35
ESE	00	00	1	1	0	0	2	5.34
SE	00	00	1	1	0	0	2	5.50
SSE	00	00	1	1	0	0	2	6.24
S	00	00	2	8	5	3	20	7.36
SSW	00	00	2	8	1	1	12	6.84
SW	00	00	2	1	3	1	7	5.32
WSW	00	00	0	0	0	0	0	5.56
W	00	00	0	0	0	0	0	4.50
WNW	00	00	0	0	0	0	0	6.00
W	00	00	0	0	0	0	0	6.70
WNW	00	00	0	0	0	0	0	6.90
N	00	00	0	0	0	0	0	7.22
CALM	00	00	0	0	0	0	0	CALM
TOTAL	4	7	11	20	17	7	66	6.23

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

Page 31 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

STABILITY CLASS: PASQUILL E
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 51 50

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	08	140	212	53	18	425	6.06
NE	00	14	38	70	00	18	230	4.56
ENE	00	14	38	14	00	00	77	5.23
E	00	14	38	14	00	00	77	6.30
ESE	00	14	38	14	00	00	77	5.81
SE	00	14	38	14	00	00	77	5.21
SSE	00	14	38	14	00	00	77	6.94
S	00	14	38	14	00	00	77	8.11
SSW	00	14	38	14	00	00	77	6.82
SW	00	14	38	14	00	00	77	4.83
WSW	00	14	38	14	00	00	77	5.40
W	00	14	38	14	00	00	77	4.90
WSW	00	14	38	14	00	00	77	6.16
W	00	14	38	14	00	00	77	5.64
WSW	00	14	38	14	00	00	77	6.77
W	00	14	38	14	00	00	77	7.10
CALM	00	00	00	00	00	00	00	CALM
TOTAL	18	21	102	271	91	85	571	6.88

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

STABILITY CLASS: PASQUILL F
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 51 50

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	98	63	00	33	196	5.77
NE	00	00	14	19	00	00	33	4.28
ENE	00	00	14	19	00	00	33	8.61
E	00	00	14	19	00	00	33	6.85
ESE	00	00	14	19	00	00	33	7.87
SE	00	00	14	19	00	00	33	7.17
SSE	00	00	14	19	00	00	33	7.38
S	00	00	14	19	00	00	33	7.98
SSW	00	00	14	19	00	00	33	6.91
SW	00	00	14	19	00	00	33	5.37
WSW	00	00	14	19	00	00	33	4.63
W	00	00	14	19	00	00	33	5.46
WSW	00	00	14	19	00	00	33	4.20
W	00	00	14	19	00	00	33	4.89
WSW	00	00	14	19	00	00	33	5.66
W	00	00	14	19	00	00	33	6.39
CALM	00	00	00	00	00	00	00	CALM
TOTAL	1	4	15	45	19	13	100	6.96

KEY:
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

STABILITY CLASS: PASQUILL G
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 51 50

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	0	2	3	0	0	5	5.46
NE	0	0	1	1	0	0	2	3.93
ENE	0	0	2	0	0	0	2	4.56
E	0	0	4	1	0	0	5	5.75
ESE	0	0	2	2	1	0	7	6.80
SE	0	0	1	2	3	2	11	7.94
SSE	0	0	2	3	1	1	8	7.57
S	0	0	1	2	3	9	17	9.78
SSW	0	0	0	4	2	8	15	9.59
SW	0	1	1	2	2	0	5	5.42
WSW	0	0	1	0	0	0	1	4.53
W	0	0	1	0	0	0	2	3.76
WSW	0	0	0	3	0	0	4	5.80
W	0	0	0	0	0	0	0	6.43
WSW	0	0	0	0	0	0	0	5.02
N	0	0	1	1	0	0	3	4.60
CALM	0	0	0	0	0	0	0	CALM
TOTAL	1	2	24	33	14	23	100	7.19

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL AUGUST COMBINED

ALL CLASSES
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 51 50

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	4	2	3	1	2	12	6.05
NE	0	10	1	3	1	1	16	5.01
ENE	0	7	1	2	4	0	14	5.61
E	3	8	1	2	1	4	19	5.89
ESE	0	8	1	1	1	2	13	5.75
SE	0	13	1	2	1	3	20	5.93
SSE	0	4	1	4	2	1	12	6.86
S	0	9	2	11	6	14	32	7.92
SSW	0	3	2	8	3	4	20	7.22
SW	4	12	2	3	1	6	28	5.55
WSW	0	2	1	3	2	0	8	5.15
W	0	8	1	3	1	1	14	4.72
WSW	0	3	1	1	1	0	6	5.04
W	0	4	1	1	1	0	7	6.20
WSW	0	5	1	1	1	0	8	6.22
N	0	2	1	1	1	0	5	6.15
CALM	0	0	0	0	0	0	0	CALM
TOTAL	7	51	44	86	39	26	233	6.70

NUMBER OF VALID OBSERVATIONS: 2082
NUMBER OF INVALID OBSERVATIONS: 120
TOTAL NUMBER OF OBSERVATIONS: 2202

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0.00	0.00	2.11	3.51	1.40	0.70	8.07	6.66	
NE	0.00	0.00	2.11	4.84	1.19	0.00	8.10	4.36	
ENE	0.00	1.04	2.11	1.40	0.00	0.00	4.55	7.92	
E	0.00	0.00	0.00	0.00	1.40	0.00	1.40	3.40	
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35	
SE	0.00	1.04	1.00	1.77	0.00	0.00	3.81	4.73	
SSE	0.00	1.04	3.51	2.11	0.00	1.05	8.71	5.23	
S	0.00	1.04	3.51	2.46	0.00	1.77	10.88	6.01	
SSW	0.00	1.04	3.51	3.51	4.91	0.00	13.06	5.37	
SW	0.00	1.04	3.51	4.91	2.81	0.00	14.27	3.49	
WSW	0.00	1.04	1.00	0.00	0.00	0.00	2.04	2.70	
W	0.00	1.04	0.00	0.00	0.00	0.00	2.04	3.40	
WNW	0.00	1.04	0.00	0.00	0.00	0.00	2.04	3.02	
NW	0.00	1.04	0.00	0.00	0.00	0.00	2.04	4.35	
NNW	0.00	1.04	0.00	1.77	1.40	0.00	3.17	6.58	
N	0.00	0.00	0.00	2.46	4.91	0.00	7.37	8.30	
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM	
TOTAL	2.46	15.79	28.81	28.80	17.19	8.23	100.00	5.69	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0.00	0.00	3.28	8.21	2.73	0.00	14.22	6.05	
NE	0.00	0.00	3.28	0.00	0.00	0.00	3.28	3.90	
ENE	0.00	0.00	3.28	2.46	0.00	0.00	5.74	4.76	
E	0.00	0.00	0.00	1.64	0.00	0.00	1.64	6.50	
ESE	0.00	0.00	0.00	1.64	0.00	0.00	1.64	4.42	
SE	0.00	0.00	3.28	1.64	0.00	0.00	4.92	5.77	
SSE	0.00	0.00	3.28	2.46	0.00	0.00	5.74	6.16	
S	0.00	0.00	3.28	2.46	4.10	0.00	9.84	6.04	
SSW	0.00	0.00	3.28	4.10	2.46	0.00	9.84	6.85	
SW	0.00	0.00	3.28	4.10	2.46	0.00	9.84	4.68	
WSW	0.00	0.00	3.28	1.64	0.00	0.00	4.92	4.40	
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40	
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NNW	0.00	0.00	0.00	1.64	2.46	0.00	4.10	5.94	
N	0.00	0.00	0.00	1.64	4.10	0.00	5.74	8.40	
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM	
TOTAL	0.00	10.13	28.81	28.80	15.79	9.11	100.00	5.78	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

Rev. 4
11/82

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	0.00	0.00	3.74	9.3	6.54	1.13	12.13	7.43
N	0.00	0.00	1.19	0.00	0.00	0.00	1.19	5.40
NNE	0.00	0.00	3.74	9.3	6.54	1.13	12.13	7.43
ENE	0.00	0.00	2.80	1.87	0.00	0.00	4.67	6.20
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.90
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.89
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.36
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.02
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.45
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.17
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.24
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	1.87	12.13	29.91	29.91	20.22	5.61	100.00	5.84

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	3.74	3.74	1.47	1.47	1.47	1.84	6.99	7.13
N	1.19	1.19	3.74	3.74	3.74	1.84	1.82	4.70
NNE	3.74	3.74	1.47	1.47	1.47	1.84	6.99	7.13
ENE	0.00	0.00	1.84	1.84	1.84	0.00	4.52	5.88
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.10
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.92
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.23
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.45
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.23
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.69
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.32
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.95
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.97
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	1.87	12.13	29.91	29.91	20.22	5.61	100.00	5.84

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

STABILITY CLASS PASQUILL E
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 55 54

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	1	3	2	3	2	11	6.83
N	0	24	71	48	71	48	241	6.71
NNE	0	0	14	10	10	0	34	6.99
ENE	0	71	14	14	0	0	100	5.71
E	0	14	7	10	14	14	59	5.71
ESE	0	4	2	9	7	1	23	4.80
SE	0	95	71	190	0	0	356	5.95
SSE	0	14	4	3	2	1	24	7.04
S	0	14	2	1	4	2	23	7.10
SSW	0	14	2	1	4	2	23	5.79
SW	0	14	2	1	4	2	23	4.47
WSW	0	14	2	1	4	2	23	4.38
W	0	14	2	1	4	2	23	2.92
WNW	0	14	2	1	4	2	23	4.45
NW	0	14	2	1	4	2	23	4.68
WSW	0	14	2	1	4	2	23	5.55
N	0	14	2	1	4	2	23	7.07
CALM	0	14	2	1	4	2	23	CALM
TOTAL	1	9	23	35	18	10	100	6.25

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

STABILITY CLASS PASQUILL F
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 13 55 54

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	0	0	1	1	1	3	8.48
N	0	0	0	1	1	1	3	5.33
NNE	0	0	0	1	1	1	3	7.64
ENE	0	0	0	1	1	1	3	6.19
E	0	0	0	1	1	1	3	6.15
ESE	0	0	0	1	1	1	3	6.31
SE	0	0	0	1	1	1	3	6.18
SSE	0	0	0	1	1	1	3	5.87
S	0	0	0	1	1	1	3	5.24
SSW	0	0	0	1	1	1	3	4.99
SW	0	0	0	1	1	1	3	3.79
WSW	0	0	0	1	1	1	3	4.10
W	0	0	0	1	1	1	3	3.77
WNW	0	0	0	1	1	1	3	4.45
NW	0	0	0	1	1	1	3	6.82
WSW	0	0	0	1	1	1	3	CALM
TOTAL	1	9	19	47	18	3	100	5.97

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

Page 36 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

STABILITY CLASS PASQUILL D
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 56 54

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	3	7	3	3	3	20	6.83
NE	1	1	2	1	1	1	7	5.07
ENE	1	1	1	1	1	1	6	6.66
E	1	1	1	1	1	1	6	6.34
ESE	1	1	1	1	1	1	6	6.71
SE	1	1	1	1	1	1	6	6.75
SSE	1	1	1	1	1	1	6	6.50
S	1	1	1	1	1	1	6	5.43
SSW	1	1	1	1	1	1	6	4.72
SW	1	1	1	1	1	1	6	5.27
WSW	1	1	1	1	1	1	6	3.09
W	1	1	1	1	1	1	6	3.30
WSW	1	1	1	1	1	1	6	3.77
W	1	1	1	1	1	1	6	5.01
WSW	1	1	1	1	1	1	6	6.00
N	1	1	1	1	1	1	6	7.32
CALM	1	1	1	1	1	1	6	CALM
TOTAL	14	22	48	20	1	1	100	5.99

KEY: THE NUMBER OF OCCURRENCES
THE PERCENT OCCURRENCES THIS CLASS
THE PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL SEPTEMBER COMBINED

ALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 13 56 54

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	4	19	33	35	22	126	7.08	
NE	1	19	39	34	8	102	4.85	
ENE	0	12	21	30	8	103	6.37	
E	0	11	24	54	26	118	6.04	
ESE	0	15	30	54	14	113	5.47	
SE	4	18	49	104	29	213	5.77	
SSE	4	20	59	105	48	260	6.30	
S	2	27	88	143	66	370	6.48	
SSW	5	24	59	69	21	177	5.63	
SW	0	20	32	34	5	91	4.81	
WSW	0	11	16	7	2	37	3.99	
W	4	13	20	7	2	42	3.44	
WSW	0	9	11	19	1	23	3.94	
W	2	11	15	19	8	58	5.37	
WSW	2	34	53	44	25	91	6.32	
N	2	12	8	60	54	160	7.36	
CALM	2	10	38	2.88	2.59	1.15	7.67	CALM
TOTAL	34	230	501	797	376	148	2086	6.01

NUMBER OF VALID OBSERVATIONS 2086 96.57 PCT
NUMBER OF 10-MIN OBSERVATIONS 21 43 PCT
TOTAL NUMBER OF OBSERVATIONS 2160 100.00 PCT

KEY: THE NUMBER OF OCCURRENCES
THE PERCENT OCCURRENCES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINEDSTABILITY CLASS PASQUILL A
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 14 57 07WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	01	01	1.50	0.00	3.03	6.77
N	00	00	00	00	0.00	0.00	0.00	0.00
NNE	00	1.50	00	00	0.00	0.00	2.00	3.43
ENE	00	00	00	00	0.00	0.00	0.00	0.00
E	00	00	00	00	0.00	0.00	0.00	0.00
ESE	00	00	00	00	0.00	0.00	0.00	0.00
SE	00	00	00	00	0.00	0.00	0.00	0.00
SSE	00	00	00	00	0.00	0.00	0.00	0.00
S	00	00	00	00	0.00	0.00	0.00	0.00
SSW	00	00	00	00	0.00	0.00	0.00	0.00
SW	00	00	00	00	0.00	0.00	0.00	0.00
WSW	00	00	00	00	0.00	0.00	0.00	0.00
W	00	00	00	00	0.00	0.00	0.00	0.00
WNW	00	00	00	00	0.00	0.00	0.00	0.00
WW	00	00	00	00	0.00	0.00	0.00	0.00
WNW	00	00	00	00	0.00	0.00	0.00	0.00
N	00	00	00	00	0.00	0.00	0.00	0.00
CALM	00	00	00	00	0.00	0.00	0.00	0.00
TOTAL	00	00	00	00	0.00	0.00	0.00	0.00

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINEDSTABILITY CLASS PASQUILL B
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 14 57 07WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	00	00	00	00	0.00	0.00	0.00	0.00
N	00	00	00	00	0.00	0.00	0.00	0.00
NNE	00	00	00	00	0.00	0.00	0.00	0.00
ENE	00	00	00	00	0.00	0.00	0.00	0.00
E	00	00	00	00	0.00	0.00	0.00	0.00
ESE	00	00	00	00	0.00	0.00	0.00	0.00
SE	00	00	00	00	0.00	0.00	0.00	0.00
SSE	00	00	00	00	0.00	0.00	0.00	0.00
S	00	00	00	00	0.00	0.00	0.00	0.00
SSW	00	00	00	00	0.00	0.00	0.00	0.00
SW	00	00	00	00	0.00	0.00	0.00	0.00
WSW	00	00	00	00	0.00	0.00	0.00	0.00
W	00	00	00	00	0.00	0.00	0.00	0.00
WNW	00	00	00	00	0.00	0.00	0.00	0.00
WW	00	00	00	00	0.00	0.00	0.00	0.00
WNW	00	00	00	00	0.00	0.00	0.00	0.00
N	00	00	00	00	0.00	0.00	0.00	0.00
CALM	00	00	00	00	0.00	0.00	0.00	0.00
TOTAL	00	00	00	00	0.00	0.00	0.00	0.00

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

Page 38 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.70
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.52
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.27
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.03
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.86
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.67
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.44
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.50
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.27
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.30
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.52
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.47
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.67
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.77

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.99
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.64
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.26
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.24
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.77
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.84
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.78
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.89
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.49
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.45
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.49
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.91
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.24
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

Page 39 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINEDSTABILITY CLASS PASQUILL E
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 14:57:07WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	0.00	0.00	2.00	2.00	5.00	5.00	14.00	8.74
NE	0.00	0.00	10.00	10.00	25.00	25.00	70.00	4.32
ENE	0.00	0.00	2.00	2.00	0.00	0.00	4.00	4.17
E	0.00	0.00	1.00	1.00	0.00	0.00	2.00	7.18
ESE	0.00	0.00	1.00	1.00	0.00	0.00	2.00	8.92
SE	0.00	0.00	1.00	1.00	0.00	0.00	2.00	8.64
SSE	0.00	0.00	1.00	1.00	0.00	0.00	2.00	9.18
S	0.00	0.00	1.00	1.00	0.00	0.00	2.00	9.41
SSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	6.30
SW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	5.62
WSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	5.02
W	0.00	0.00	1.00	1.00	0.00	0.00	2.00	5.53
WSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	6.17
W	0.00	0.00	1.00	1.00	0.00	0.00	2.00	5.65
WSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	7.37
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.94
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	7.00	17.00	68.00	124.00	173.00	127.00	558.00	8.13

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINEDSTABILITY CLASS PASQUILL F
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 14:57:07WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	0.00	0.00	2.00	9.00	7.00	0.00	18.00	7.03
NE	0.00	0.00	10.00	43.00	35.00	0.00	88.00	4.84
ENE	0.00	0.00	1.00	1.00	0.00	0.00	2.00	4.22
E	0.00	0.00	1.00	1.00	0.00	0.00	2.00	7.04
ESE	0.00	0.00	1.00	1.00	0.00	0.00	2.00	5.50
SE	0.00	0.00	1.00	1.00	0.00	0.00	2.00	7.28
SSE	0.00	0.00	1.00	1.00	0.00	0.00	2.00	7.53
S	0.00	0.00	1.00	1.00	0.00	0.00	2.00	7.39
SSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	6.10
SW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	5.67
WSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	4.42
W	0.00	0.00	1.00	1.00	0.00	0.00	2.00	5.26
WSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	6.70
W	0.00	0.00	1.00	1.00	0.00	0.00	2.00	7.58
WSW	0.00	0.00	1.00	1.00	0.00	0.00	2.00	6.88
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.72
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	1.00	2.00	20.00	116.00	98.00	4.00	231.00	6.61

KEY *** NUMBER OF OCCURRENCES
*** PERCENT OCCURRENCES THIS CLASS
*** PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINEDSTABILITY CLASS: PASQUILL G
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 14:57:07WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0.00	0.00	1.00	2.00	3.00	1.00	13.00	6.92
NE	0.00	0.00	1.00	2.00	3.00	1.00	3.83	4.81
ENE	0.00	0.00	1.00	2.00	3.00	1.00	3.83	4.24
E	0.00	0.00	1.00	2.00	3.00	1.00	3.83	6.63
ESE	0.00	0.00	1.00	2.00	3.00	1.00	3.83	4.33
SE	0.00	0.00	1.00	2.00	3.00	1.00	3.83	6.37
SSE	0.00	0.00	1.00	2.00	3.00	1.00	3.83	6.24
S	0.00	0.00	1.00	2.00	3.00	1.00	10.83	7.00
SSW	0.00	0.00	1.00	2.00	3.00	1.00	13.83	5.78
SW	0.00	0.00	1.00	2.00	3.00	1.00	9.83	5.70
WSW	0.00	0.00	1.00	2.00	3.00	1.00	2.83	5.43
W	0.00	0.00	1.00	2.00	3.00	1.00	5.83	4.33
WNW	0.00	0.00	1.00	2.00	3.00	1.00	2.83	6.39
NW	0.00	0.00	1.00	2.00	3.00	1.00	5.83	6.84
NNW	0.00	0.00	1.00	2.00	3.00	1.00	7.83	6.49
N	0.00	0.00	1.00	2.00	3.00	1.00	2.83	6.34
CALM	0.00	0.00	1.00	2.00	3.00	1.00	6.83	CALM
TOTAL	1.00	1.00	1.00	1.00	1.00	1.00	100.00	6.28

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL OCTOBER COMBINEDALL CLASSES
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 60.00 METERS
TABLE GENERATED: 11/11/81 14:57:07WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0.00	7.00	13.00	29.00	35.00	7.00	81.00	6.82
NE	0.00	8.00	23.00	15.00	0.00	0.00	46.00	4.47
ENE	0.00	3.00	22.00	24.00	9.00	0.00	58.00	5.47
E	0.00	4.00	19.00	20.00	24.00	1.00	70.00	6.14
ESE	0.00	0.00	27.00	29.00	28.00	10.00	94.00	6.70
SE	0.00	7.00	17.00	50.00	28.00	29.00	131.00	7.68
SSE	0.00	35.00	85.00	2.49	1.40	1.45	6.53	7.83
S	0.00	4.00	1.15	3.19	3.39	1.75	9.93	8.70
SSW	0.00	3.00	1.95	6.68	8.23	6.48	23.84	6.99
SW	0.00	12.00	1.40	3.39	2.29	95.00	8.83	6.32
WSW	0.00	3.00	1.55	1.45	70.00	60.00	4.64	5.10
W	0.00	3.00	1.35	1.15	10.00	15.00	3.04	6.02
WNW	0.00	4.00	1.05	1.25	1.45	10.00	4.59	6.88
NW	0.00	4.00	1.95	1.20	34.00	14.00	5.09	7.40
NNW	0.00	1.00	1.15	1.15	37.00	85.00	100.00	7.59
N	0.00	4.00	1.15	1.15	37.00	85.00	100.00	8.46
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CALM
TOTAL	1.00	4.59	17.51	62.4	28.73	16.91	200.5	7.40

NUMBER OF VALID OBSERVATIONS: 2005
NUMBER OF INVALID OBSERVATIONS: 107
TOTAL NUMBER OF OBSERVATIONS: 2112

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES

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STABILITY CLASS PASQUILL C WO

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7699-064

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KEY      XXX NUMBER OF OCCURRENCES
          XXX PERCENT OCCURRENCES THIS CLASS
          XXX PERCENT OCCURRENCES ALL CLASSES

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STABILITY CLASS PASQUILL D

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO. 7599-064

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KEY   XXX NUMBER OF OCCURRENCES
      XXX PERCENT OCCURRENCES THIS CLASS
      XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL NOVEMBER COMBINED

STABILITY CLASS: PASQUILL E				WOLF CREEK GENERATING STATION			
DATA SOURCE: ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT: 60.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED: 11/11/81 15 00 46				DAMES AND MOORE JOB NO: 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	00	00	40	20	00	3	6.43
	00	00	09	09	00	14	1.81
NE	00	00	09	09	00	14	4.92
	00	00	18	18	00	00	5.00
ENE	00	00	42	20	00	00	8.83
	00	00	20	20	00	00	8.59
E	00	00	05	14	14	37	7.63
	00	00	00	00	14	00	13
ESE	00	00	20	10	14	00	7.21
	00	00	09	09	00	00	7.01
SE	00	00	00	00	00	00	9.22
	00	00	00	00	00	00	8.80
SSE	00	00	00	00	00	00	7.36
	00	00	00	00	00	00	6.19
S	00	00	00	00	00	00	6.60
	00	00	00	00	00	00	7.34
SSW	00	00	00	00	00	00	7.49
	00	00	00	00	00	00	7.83
SW	00	00	00	00	00	00	8.26
	00	00	00	00	00	00	6.27
WSW	00	00	00	00	00	00	CALM
	00	00	00	00	00	00	
W	00	00	00	00	00	00	
	00	00	00	00	00	00	
WNW	00	00	00	00	00	00	
	00	00	00	00	00	00	
NW	00	00	00	00	00	00	
	00	00	00	00	00	00	
NNW	00	00	00	00	00	00	
N	00	00	00	00	00	00	
	00	00	00	00	00	00	
CALM	00	00	00	00	00	00	
	00	00	00	00	00	00	
TOTAL	1.81	1.81	9.07	36.90	37.65	18.15	7.81
	28	37	2.10	8.54	7.65	4.20	

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL NOVEMBER COMBINED

STABILITY CLASS: PASQUILL F				WOLF CREEK GENERATING STATION			
DATA SOURCE: ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT: 60.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED: 11/11/81 15 00 46				DAMES AND MOORE JOB NO: 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	00	00	00	00	00	0	3.11
	00	00	00	00	00	0	5.64
NE	00	00	00	00	00	0	3.11
	00	00	00	00	00	0	5.64
ENE	00	00	00	00	00	0	3.11
	00	00	00	00	00	0	7.02
E	00	00	00	00	00	0	3.11
	00	00	00	00	00	0	5.90
ESE	00	00	00	00	00	0	2.77
	00	00	00	00	00	0	4.9
SE	00	00	00	00	00	0	2.77
	00	00	00	00	00	0	4.9
SSE	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
S	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
SSW	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
SW	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
WSW	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
W	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
WNW	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
NW	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
NNW	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
N	00	00	00	00	00	0	2.46
	00	00	00	00	00	0	3.11
CALM	00	00	00	00	00	0	0.00
TOTAL	00	00	00	00	00	00	0.00

KEY: XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS

(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL NOVEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	13	6.35
NE	00	00	00	00	00	00	4.22	5.33
ENE	00	00	00	00	00	00	3.35	7.45
E	00	00	00	00	00	00	0.00	6.04
ESE	00	00	00	00	00	00	3.83	6.72
SE	00	00	00	00	00	00	6.22	7.02
SSE	00	00	00	00	00	00	8.17	8.23
S	00	00	00	00	00	00	18.18	8.02
SSW	00	00	00	00	00	00	1.77	7.36
SW	00	00	00	00	00	00	13.88	6.55
WSW	00	00	00	00	00	00	10.03	5.71
W	00	00	00	00	00	00	9.14	5.74
WSW	00	00	00	00	00	00	2.33	4.36
NW	00	00	00	00	00	00	2.87	5.13
NNW	00	00	00	00	00	00	2.88	6.80
N	00	00	00	00	00	00	2.88	4.67
CALM	00	00	00	00	00	00	0.00	CALM
TOTAL	1.44	5.11	17.25	32.06	41.15	2.87	100.00	6.76

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL NOVEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	125	7.09
NE	00	00	00	00	00	00	83	5.00
ENE	00	00	00	00	00	00	2.89	6.98
E	00	00	00	00	00	00	54	6.94
ESE	00	00	00	00	00	00	2.15	6.61
SE	00	00	00	00	00	00	3.17	6.69
SSE	00	00	00	00	00	00	185	7.91
S	00	00	00	00	00	00	17.92	7.87
SSW	00	00	00	00	00	00	228	7.89
SW	00	00	00	00	00	00	113	7.52
WSW	00	00	00	00	00	00	75	6.58
W	00	00	00	00	00	00	125	7.04
WSW	00	00	00	00	00	00	127	7.08
NW	00	00	00	00	00	00	179	8.67
NNW	00	00	00	00	00	00	179	8.49
N	00	00	00	00	00	00	109	7.53
CALM	00	00	00	00	00	00	0.00	CALM
TOTAL	21	72	281	737	574	358	2143	7.54

NUMBER OF VALID OBSERVATIONS: 2143
 NUMBER OF INVALID OBSERVATIONS: 17
 TOTAL NUMBER OF OBSERVATIONS: 2160

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS) Page 45 of 48

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL A				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 60.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 13 09 30				DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
ENE	00	00	1	00	1	00	3	6.55
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	0.00
E	00	00	00	00	00	00	00	0.00
ESE	00	00	00	00	00	00	00	1.90
SE	00	1	00	00	00	00	1	2.70
SSE	00	1	1	00	00	00	3	7.82
S	00	00	00	1	4	00	5	6.82
SSW	00	00	00	00	00	00	00	0.00
SW	00	00	00	00	00	00	00	0.00
WSW	00	00	00	00	00	00	00	3.90
W	00	00	00	00	00	00	00	5.30
WSW	00	00	00	00	00	00	00	80
W	1	00	00	00	00	00	1	5.23
WSW	00	00	00	00	00	00	00	9.29
N	00	00	00	10	12	14	37	7.85
CALM	00	00	4	7	3	6	21	CALM
TOTAL	3	3	14	31	28	20	100	7.47

KEY
xxx NUMBER OF OCCURRENCES
xx PERCENT OCCURRENCES THIS CLASS
xx PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL B				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 60.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 15 09 30				DAMES AND MOORE JOB NO 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
ENE	0	0	0	0	0	2	3	
	00	00	00	00	00	2	94	
	00	00	00	00	00	16	16	
NE	0	0	0	0	0	0	2	
	00	00	00	00	00	0	99	
	00	00	00	00	00	00	05	
ESE	0	0	0	0	0	0	0	
	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	
E	0	0	0	0	0	0	2	
	00	1	00	00	00	00	1	
	00	00	00	00	00	00	10	
ESE	0	0	0	0	0	0	0	
	00	00	99	00	00	00	99	
	00	00	05	00	00	00	05	
SE	0	0	0	0	0	0	2	
	00	1	00	00	00	00	1	
	00	00	00	00	00	00	10	
SSE	0	0	0	0	0	0	4	
	00	00	00	99	2	00	3	
	00	00	05	16	00	00	92	
S	0	0	0	1	00	00	2	
	00	00	00	4	99	00	6	
	00	00	05	26	05	00	36	
SSW	0	0	0	0	5	0	1	
	00	00	00	00	3	92	21	
	00	00	00	00	24	00	0	
SW	0	0	0	0	0	0	1	
	00	00	00	00	00	99	1	
	00	00	00	00	00	05	10	
WSW	0	0	0	0	0	0	6	
	00	00	00	5	89	00	5	
	00	00	00	31	1	00	31	
W	0	0	0	0	0	0	5	
	00	00	2	94	99	00	5	
	00	00	16	05	05	00	31	
WSW	0	0	0	0	0	0	6	
	00	1	00	99	1	99	5	
	00	00	00	05	10	05	31	
W	0	0	0	0	0	0	2	
	00	2	94	3	92	1	19	
	00	16	21	31	10	26	104	
WSW	0	0	0	0	0	0	1	
	00	1	94	99	6	99	16	
	00	00	05	05	9	0	15	
N	0	0	0	0	0	0	14	
	00	00	00	6	96	5	96	
	00	00	00	36	31	10	78	
CALM	0	0	0	0	0	0	0	
	00	00	00	00	00	00	00	
TOTAL	1	12	10	33	20	17	100	
	18	98	10	77	20	85	100	
	0	0	0	0	1	74	5	

KEY
xxx NUMBER OF OCCURRENCES
xx PERCENT OCCURRENCES THIS CLASS
xx PERCENT OCCURRENCES ALL CLASSES

WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL C				WOLF CREEK GENERATING STATION				
DATA SOURCE ON-SITE				BURLINGTON, KANSAS				
WIND SENSOR HEIGHT 60.00 METERS				KANSAS GAS AND ELECTRIC				
TABLE GENERATED 11/11/81 15 09 30				DAMES AND MOORE JOB NO: 7699-064				
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)						TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE	00	00	00	00	00	00	11.91	
NE	00	00	00	00	00	00	2.30	
ENE	00	00	00	00	00	00	6.60	
E	00	00	00	00	00	00	8.00	
ESE	00	00	00	00	00	00	3.67	
SE	00	00	00	00	00	00	5.12	
SSE	00	00	00	00	00	00	6.79	
S	00	00	00	00	00	00	7.33	
SSW	00	00	00	00	00	00	7.19	
SW	00	00	00	00	00	00	4.45	
WSW	00	00	00	00	00	00	5.96	
W	00	00	00	00	00	00	4.35	
WNW	00	00	00	00	00	00	8.72	
WW	00	00	00	00	00	00	7.33	
NNW	00	00	00	00	00	00	8.34	
N	00	00	00	00	00	00	9.16	
CALM	00	00	00	00	00	00	CALM	
TOTAL	1.74	6.42	12.82	30.81	28.49	19.77	7.50	

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD ALL DECEMBER COMBINED

STABILITY CLASS PASQUILL D				WOLF CREEK GENERATING STATION			
DATA SOURCE ON-SITE				BURLINGTON, KANSAS			
WIND SENSOR HEIGHT 60.00 METERS				KANSAS GAS AND ELECTRIC			
TABLE GENERATED 11/11/81 15 09 30				DAMES AND MOORE JOB NO. 7699-064			
WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	
NNE	14 09	1 08 42 28	1 12 62 54	1 08 42 38	1 11 57 58	2 03 78	7 55 36 48
NE	14 09	1 08 42 28	1 12 62 54	1 08 42 38	1 11 57 58	2 03 78	4 90 36 48
ENE	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	5 75 30 20
E	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	4 36 18 94
ESE	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	4 61 21 94
SE	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	5 71 89 94
SSE	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	6 34 15 99
S	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	8 09 18 94
SSW	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	7 76 18 94
SW	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	7 45 18 94
WSW	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	3 48 18 94
W	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	7 94 18 94
WNW	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	7 86 18 94
WW	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	8 83 18 94
NNW	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	7 94 18 94
N	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	8 75 18 94
CALM	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	CALM 18 94
TOTAL	1.74	6.42	12.82	30.81	28.49	19.77	7.44

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)

JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS

(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL DECEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
ENE	00	00	00	00	00	00	00	7	4.21
NE	00	00	00	00	00	00	00	1	3.55
E	00	00	00	00	00	00	00	1	3.17
ESE	00	00	00	00	00	00	00	1	7.11
SE	00	00	00	00	00	00	00	1	7.99
SSE	00	00	00	00	00	00	00	1	7.78
S	00	00	00	00	00	00	00	1	7.43
SSW	00	00	00	00	00	00	00	1	9.82
SW	00	00	00	00	00	00	00	1	8.74
WSW	00	00	00	00	00	00	00	1	6.84
W	00	00	00	00	00	00	00	1	6.87
WSE	00	00	00	00	00	00	00	1	6.29
WSW	00	00	00	00	00	00	00	1	6.41
W	00	00	00	00	00	00	00	1	7.19
WSW	00	00	00	00	00	00	00	1	7.30
W	00	00	00	00	00	00	00	1	7.11
CALM	00	00	00	00	00	00	00	0	CALM
TOTAL	94	13	30	139	166	72	100	7.86	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL DECEMBER COMBINED

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)							TOTAL	MEAN SPEED
	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0			
ENE	00	00	00	00	00	00	00	3	5.43
NE	00	00	00	00	00	00	00	3	5.43
E	00	00	00	00	00	00	00	3	3.85
ESE	00	00	00	00	00	00	00	3	4.22
SE	00	00	00	00	00	00	00	3	7.08
SSE	00	00	00	00	00	00	00	3	6.20
S	00	00	00	00	00	00	00	3	7.27
SSW	00	00	00	00	00	00	00	3	7.74
SW	00	00	00	00	00	00	00	3	8.59
WSW	00	00	00	00	00	00	00	3	6.24
W	00	00	00	00	00	00	00	3	6.73
WSE	00	00	00	00	00	00	00	3	6.22
WSW	00	00	00	00	00	00	00	3	6.84
W	00	00	00	00	00	00	00	3	5.86
WSW	00	00	00	00	00	00	00	3	7.16
W	00	00	00	00	00	00	00	3	6.81
CALM	00	00	00	00	00	00	00	0	CALM
TOTAL	10	15	35	109	101	72	100	6.98	

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

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WCGS-ER (OLS)

TABLE 2.3-25 (Continued)
JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
(MONTHLY - 60 METERS)

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JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL DECEMBER COMBINEDSTABILITY CLASS PASQUILL G
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 15 09 30WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	1	0	1	1	1	0	4	4.87
NE	74	0	74	74	74	0	250	6.99
ENE	00	00	00	00	00	00	0	6.60
E	00	00	00	00	00	00	0	2.40
ESE	00	00	00	00	00	00	0	7.57
SE	00	00	00	00	00	00	0	7.70
SSE	00	00	00	00	00	00	0	8.36
S	00	00	00	00	00	00	0	7.53
SSW	00	00	00	00	00	00	0	7.40
SW	00	00	00	00	00	00	0	5.49
WSW	00	00	00	00	00	00	0	0.00
W	00	00	00	00	00	00	0	5.97
WNW	00	00	00	00	00	00	0	6.97
NW	00	00	00	00	00	00	0	6.97
NNW	00	00	00	00	00	00	0	4.55
N	00	00	00	00	00	00	0	6.67
CALM	00	00	00	00	00	00	0	CALM
TOTAL	2.94	4.41	6.42	44.60	39.71	2.21	100.00	6.96

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: ALL DECEMBER COMBINEDALL CLASSES
DATA SOURCE ON-SITE
WIND SENSOR HEIGHT 60.00 METERS
TABLE GENERATED 11/11/81 15 09 30WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO: 7699-064

WIND SECTOR	0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	2	11	23	12	17	24	89	7.31
NE	10	57	120	62	88	125	463	5.04
ENE	1	14	20	23	7	05	66	5.35
E	05	73	104	120	36	05	344	4.91
ESE	1	10	31	7	9	2	52	6.31
SE	05	52	31	36	47	10	182	6.45
SSE	3	8	7	17	6	0	41	7.04
S	16	42	26	88	31	00	213	8.46
SSW	1	7	13	19	20	3	63	8.16
SW	05	36	68	99	104	16	328	6.53
WSW	3	4	8	33	19	3	70	5.98
W	16	21	42	172	99	16	364	6.13
WNW	2	3	15	60	57	1	138	7.17
NW	10	16	78	312	297	05	718	7.81
NNW	0	0	17	70	101	62	250	7.93
N	00	16	88	364	526	323	1321	8.30
CALM	0	0	0	0	0	0	0	CALM
TOTAL	89	512	1234	546	572	328	1921	7.42

NUMBER OF VALID OBSERVATIONS 1921
 NUMBER OF TOTAL OBSERVATIONS 2011
 TOTAL NUMBER OF OBSERVATIONS 2011

KEY: XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

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TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO - 07659-054-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 10 04 52.

WIND DIRECTION PERSISTENCE - PASQUILL #3#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
NNE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSH	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSH	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSH	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSH	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNN	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNN	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
NNE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSH	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSH	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSH	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSH	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNN	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNN	69	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO. OF OBSERVATIONS = 26304
TOTAL NO. OF INVALID OBSERVATIONS = 1351

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO - 07699-084-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 10 11 29

WIND DIRECTION PERSISTENCE - PASQUILL #D#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

WCGS-ER (OLS)																								
SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	44	33	18	10	4	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
NNE	45	16	17	10	4	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
ENE	29	14	10	8	4	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
ESE	38	18	19	5	5	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
ESE	33	25	5	5	5	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
SSE	33	25	10	14	10	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
SSW	141	82	12	14	14	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
SSW	34	42	12	14	14	4	22	13	30	20	00	10	00	00	10	00	00	00	00	00	00	00	00	00
WSW	16	9	3	3	3	10	10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WNW	21	11	4	4	4	10	10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WNW	23	16	4	4	4	10	10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
NW	48	27	11	11	12	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	48	27	11	11	12	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	60	32	20	13	12	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	68	32	13	13	12	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	4	1	5	9	0	7	9	1	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0
NNE	1	3	2	0	0	4	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	4	2	7	1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	4	1	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSW	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSW	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNN	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNN	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	4	0	4	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

TOTAL NO. OF OBSERVATIONS = 26304
TOTAL NO. OF INVALID OBSERVATIONS = 1351

TABLE 2.3-26(Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07599-064-07
DATE PERIOD (YR - MONTH - DAY) - 730601 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 10 14 31

WIND DIRECTION PERSISTENCE - PASQUILL #E#
1 SECTOR PERSISTENCE

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
NNE	13	13	6	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	17	18	5	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	23	30	12	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	30	13	7	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	29	14	7	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	64	14	7	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SESE	67	14	7	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SS	118	17	13	28	17	12	12	12	22	0	3	4	1	1	1	0	0	0	0	0	0	0	0	0
SSS	148	13	11	20	14	12	12	12	22	0	3	4	1	1	1	0	0	0	0	0	0	0	0	0
SSN	33	5	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	3	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	15	4	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	125	14	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WN	225	10	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WN	228	18	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NN	28	14	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
NNE	02	5	10	3	4	0	10	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	94	3	3	3	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	3	17	5	5	6	6	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	4	5	2	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	3	7	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SESE	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SS	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSN	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WN	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WN	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NN	4	4	3	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 26304
TOTAL NO OF INVALID OBSERVATIONS = 1351

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07599-054-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 10 17 49

WIND DIRECTION PERSISTENCE - PASQUILL #F#
1 SECTOR PERSISTENCE

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	15	12	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	11	10	4	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	52	17	30	26	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	50	17	30	26	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	82	80	19	40	59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	94	78	22	37	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	94	78	22	37	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	107	50	33	33	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	107	50	33	33	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	58	85	33	33	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	58	85	33	33	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	49	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	49	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	57	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	57	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	74	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	74	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	89	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	89	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	21	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	21	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 26304
TOTAL NO OF INVALID OBSERVATIONS = 1351

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

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KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO - 07699-064-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 10 20 42

WIND DIRECTION PERSISTENCE - PASQUILL #0#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24	WCGS-ER(OLS)
NNE	17	3	4	5	2	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	15	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	10	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	19	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	21	12	17	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	40	17	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	29	17	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	14	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	14	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	14	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	14	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	13	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	13	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	13	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	13	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	13	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
NNE	95	42	42	72	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
NNE	42	42	42	72	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ENE	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ENE	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ESE	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ESE	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SSE	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SSE	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SSW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SSW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WSW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WSW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WNW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WNW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
NNW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
NNW	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00
N	18	18	18	32	32	32	00	214	00	287	00	00	00	00	00	00	00	00	00	00	00	00	00	00

TOTAL NO OF OBSERVATIONS = 26304
TOTAL NO OF INVALID OBSERVATIONS = 1331

TABLE 2.3-26 (Continued)
WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-064-07
DATA PERIOD (NR - MONTH - DAY) - 730601 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 14 18 53

WIND DIRECTION PERSISTENCE - PASQUILL #S#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	38	24	17	10	2	1	2	1	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
NNE	47	21	18	11	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	53	20	12	8	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
E	70	34	15	8	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	72	33	18	14	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	129	59	32	14	17	14	4	4	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	171	89	52	44	27	14	21	4	5	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	186	91	53	41	9	5	0	0	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	190	94	50	20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	35	17	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	39	18	5	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	57	15	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	70	27	11	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	55	30	11	12	4	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	55	30	11	12	4	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	86	34	34	33	34	40	97	50	4	0	4	17	0	0	0	0	0	0	0	0	0	0	0	0
NNE	56	32	33	33	33	33	22	15	0	0	3	48	0	0	0	0	0	0	0	0	0	0	0	0
ENE	74	33	33	33	33	33	44	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	54	33	33	33	33	33	44	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	12	33	33	33	33	33	44	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	32	33	33	33	33	33	44	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	32	33	33	33	33	33	44	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	59	44	44	44	44	44	55	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	59	44	44	44	44	44	55	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	56	44	44	44	44	44	55	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	56	44	44	44	44	44	55	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	82	59	59	59	59	59	60	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	82	59	59	59	59	59	60	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	92	61	61	61	61	61	62	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	92	61	61	61	61	61	62	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 26304
TOTAL NO OF INVALID OBSERVATIONS = 1351

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO - 07699-064-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 10.16.45

WIND DIRECTION PERSISTENCE - PASQUILL #B#

1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24	WCGS-ER(OLS)
NNE	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	5	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	3	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	3	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	4	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	3	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	3	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	5	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	5	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	5	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	5	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	6	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	6	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	3	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	3	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	7	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	7	04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	6	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 8760
TOTAL NO OF INVALID OBSERVATIONS = 128

TABLE 2.3-26 (Continued)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07299-064-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81
TIME - 11 30 38

WIND DIRECTION PERSISTENCE - PASQUILL #C#
1 SECTOR PERSISTENCE

SECTOR	CONSECUTIVE HOURS	WCGS-ER(OLS)
NH	2	000000000000000000000000
E	3	000000000000000000000000
S	4	000000000000000000000000
S	5	000000000000000000000000
S	6	000000000000000000000000
S	7	000000000000000000000000
S	8	000000000000000000000000
S	9	000000000000000000000000
S	10	000000000000000000000000
S	11	000000000000000000000000
S	12	000000000000000000000000
S	13	000000000000000000000000
S	14	000000000000000000000000
S	15	000000000000000000000000
S	16	000000000000000000000000
S	17	000000000000000000000000
S	18	000000000000000000000000
S	19	000000000000000000000000
S	20	000000000000000000000000
S	21	000000000000000000000000
S	22	000000000000000000000000
S	23	000000000000000000000000
S	24	000000000000000000000000
S	25	000000000000000000000000

AVERAGE WIND SPEED (M/SEC)

[illegible]

TOTAL NO. OF OBSERVATIONS	=	8760
TOTAL NO. OF INVALID OBSERVATIONS	=	128

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-064-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 11.33.22

WIND DIRECTION PERSISTENCE - PASQUILL #D#

		WCGS-ER (OLS)																								
SECTOR	CONSECUTIVE HOURS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NNE	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ENE	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ESE	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ESE	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SSE	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SSW	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SSW	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WSW	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WSW	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NNW	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NNW	25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

WCGS-ER (OLS)

AVERAGE WIND SPEED (M/SEC)

SECTOR	CONSECUTIVE HOURS	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	5	04	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
NNE	3	03	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
ENE	3	03	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
ENE	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
ESE	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
ESE	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
SSE	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
SSE	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
SSW	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
SSW	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
WSW	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
WSW	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
NNW	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0
NNW	4	02	43	43	48	4	17	6	45	7	87	3	82	8	08	0	0	0	0	0	0	0	0	0	0

TOTAL NO. OF OBSERVATIONS = 8760
TOTAL NO. OF INVALID OBSERVATIONS = 128

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-064-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 11.36.25

WIND DIRECTION PERSISTENCE - PASQUILL #E#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

WCGS-ER (OLS)	
40C	00

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	97	4	68	3	06	5	09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	22	3	63	0	23	0	4	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	23	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	44	4	80	4	53	6	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 8760
TOTAL NO OF INVALID OBSERVATIONS = 128

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-054-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 10 20 19

WIND DIRECTION PERSISTENCE - PASQUILL #F#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

WCGS-ER(OLS)																								
SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	29	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	29	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	12	18	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	12	18	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	12	18	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	22	23	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	11	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	11	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	13	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	9	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	22	1	3	3	3	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	22	1	3	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 8760
TOTAL NO OF INVALID OBSERVATIONS = 128

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-04-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 11.38.52

WIND DIRECTION PERSISTENCE - PASQUILL #G#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	3	1	1	3	2	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	13	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	20	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	2	35	1	94	3	18	3	25	3	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	1	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	1	20	4	02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	1	20	4	02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	3	30	1	73	19	22	30	78	3	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	3	30	1	73	19	22	30	78	3	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	2	30	1	73	19	22	30	78	3	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	2	30	1	73	19	22	30	78	3	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	1	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	1	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	1	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	1	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 8760
TOTAL NO OF INVALID OBSERVATIONS = 128

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING
JOB NO - 07699-054-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 10.23.44

WIND DIRECTION PERSISTENCE - PASQUILL ALL
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
N/E	39	20	8	8	8	2	4	3	1	2	1	0	0	0	0	1	1	0	0	0	0	0	0	0
N/E	39	11	4	4	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E/N/E	35	14	8	6	7	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E/S/E	35	19	3	7	7	10	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/S/E	93	23	23	22	22	13	16	1	1	3	3	2	3	4	3	0	1	1	0	0	0	0	0	0
S	110	55	37	25	22	18	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/S	66	32	23	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/S	38	12	8	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W/S/W	30	12	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W	33	17	4	3	3	3	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W/W	34	12	10	6	5	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N/W	39	23	14	3	3	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	48	27	12	7	7	6	6	2	2	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
N/E	3	95	3	90	2	73	5	09	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N/E	3	04	3	61	4	62	3	62	3	3	2	28	0	0	0	0	0	0	0	0	0	0	0	0
E/N/E	3	72	3	74	4	62	4	62	3	76	4	30	0	0	0	0	0	0	0	0	0	0	0	0
E/S/E	3	69	3	76	4	68	4	68	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/S/E	3	68	3	77	4	74	4	74	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	4	06	4	11	3	89	4	03	4	35	2	78	0	0	0	0	0	0	0	0	0	0	0	0
S/S	4	47	5	11	5	30	5	66	5	02	6	99	0	0	0	0	0	0	0	0	0	0	0	0
S/S	4	85	5	17	5	73	7	07	7	6	31	7	65	0	0	0	0	0	0	0	0	0	0	0
S/S	4	35	5	80	6	22	6	63	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W/S/W	4	39	5	36	4	22	4	70	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W	3	67	3	57	3	28	4	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W/W	3	58	4	56	4	37	6	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N/W	4	33	4	20	3	74	5	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	4	12	4	90	4	56	4	94	5	58	6	64	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 8760
TOTAL NO OF INVALID OBSERVATIONS = 116

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

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KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO - 07699-064-07
DATA PERIOD (YR - MONTH - DAY) - 730601 TO 740531
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 13 53.28

WIND DIRECTION PERSISTENCE - PASQUILL #S*
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	11	8	3	3	1	0	1	1	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
NNE	17	6	4	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	16	12	4	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	19	10	13	3	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	51	14	12	19	12	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	71	30	21	18	12	5	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	79	31	21	18	12	5	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	28	13	20	14	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	17	13	20	14	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	11	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	13	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	19	10	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	27	11	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	21	6	6	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	64	3	75	2	77	3	78	3	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	22	3	13	1	74	3	36	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	66	4	56	4	53	4	54	3	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	30	3	17	3	44	4	48	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	39	3	40	3	34	4	42	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	5	3	53	3	34	4	40	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	4	3	53	3	34	4	40	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	13	3	78	3	44	4	42	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	13	3	78	3	44	4	42	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	18	3	67	3	44	4	42	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	14	3	67	3	44	4	42	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	91	3	94	3	44	4	42	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	93	3	94	3	44	4	42	3	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	3	4	05	3	35	3	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO. OF OBSERVATIONS = 8760
TOTAL NO. OF INVALID OBSERVATIONS = 4565

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TABLE 2.3-26 (Continued)
WIND DIRECTION PERSISTENCE
(10 METERS)

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KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 7699-062-07
DATA PERIOD (YR - MONTH - DAY) - 740601 TO 750531
THRESHOLD OF ANEMOMETER (MPH) - .74
DATE OF THIS RUN - 07/28/80. TIME - 20.03.29.

WIND DIRECTION PERSISTENCE - PASQUILL ***
1 SECTOR PERSISTENCE

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	6	6	1	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	5	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	11	3	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	10	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	14	4	3	2	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	24	11	5	9	2	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	28	10	6	6	1	6	3	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	13	7	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	6	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W	6	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	5	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	9	3	2	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	8	7	6	2	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	11	3	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	4.26	5.40	5.99	5.23	5.06	0.	0.	6.32	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NE	4.55	3.51	3.45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENE	3.59	4.32	5.19	0.	0.	5.92	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
E	4.14	6.00	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ESE	3.47	4.73	3.86	0.	3.99	7.18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SE	3.61	5.09	2.41	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SSE	5.48	5.06	4.67	5.02	0.	5.10	8.23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
S	5.50	7.53	5.87	7.30	6.89	6.94	6.43	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SSW	5.60	7.56	5.49	7.02	6.31	7.44	7.53	10.55	8.17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SW	6.65	7.43	4.45	0.	0.	8.95	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
WSW	4.12	10.71	0.	3.96	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
W	4.21	4.98	4.21	6.86	0.	6.35	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
WNW	6.58	6.16	0.	0.	0.	0.	14.33	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NW	5.91	7.12	6.59	6.54	7.53	0.	0.	8.24	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NNW	6.70	6.14	7.54	7.25	6.72	9.17	0.	6.96	9.11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
N	5.46	5.15	0.	4.98	6.82	5.92	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TOTAL NO. OF OBSERVATIONS = 8760

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TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO - 07699-064-07
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 15 00 14

WIND DIRECTION PERSISTENCE - PASQUILL #A#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
NNE	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24
NNE	6	91	8	17	6	85	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO OF OBSERVATIONS = 8784
TOTAL NO OF INVALID OBSERVATIONS = 1197

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-054-07
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81, TIME - 15 04 04

WIND DIRECTION PERSISTENCE - PASQUILL #B#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24	WCCS-ER(OLS)
NNE	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	4	63	0	5	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	3	89	3	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	3	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	7	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	19	3	99	4	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	5	33	0	30	6	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	5	26	5	30	8	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	4	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	5	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	9	41	4	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	4	15	2	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NO. OF OBSERVATIONS = 8784
TOTAL NO. OF INVALID OBSERVATIONS = 1197

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. 07699-06407
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81, TIME - 15 06 51

WIND DIRECTION PERSISTENCE - PASQUILL #C#

1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24	WCGS-ER(OLS)
NNE	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
ENE	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
ESE	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
SESE	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
SSSE	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
SSSW	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
SSW	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
WSW	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
WSW	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
WSW	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
NNN	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
NNN	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	3 91	8 39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
ENE	0	0	7 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
ESE	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
ESE	4 90	3 96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
SESE	3 79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
SSSW	6 20	4 82	6 52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
SSW	6 21	7 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
WSW	4 40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
WSW	4 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
NNN	8 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
NNN	3 58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000
NNN	5 72	3 31	7 63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000

TOTAL NO. OF OBSERVATIONS = 8784
TOTAL NO. OF INVALID OBSERVATIONS = 1197

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-03-07
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 15 10 16

WIND DIRECTION PERSISTENCE - PASQUILL #D#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
N	20	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
NE	19	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
E	14	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
ENE	14	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
ESE	14	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
SE	12	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
SSE	12	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
SSW	12	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
SW	10	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
WSW	10	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
W	10	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
WNW	10	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
NW	14	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
NWN	14	8	3	4	2	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
N	27	9	7	11	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
N	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
NE	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
E	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ENE	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ESE	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SE	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SSE	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SSW	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SW	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WSW	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
W	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
WNW	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
NW	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00
NWN	94	84	74	64	54	44	34	24	14	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00

TOTAL NO. OF OBSERVATIONS = 8784
TOTAL NO. OF INVALID OBSERVATIONS = 1197

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-04-07
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 15 13 06

WIND DIRECTION PERSISTENCE - PASQUILL #E#
1 SECTOR PERSISTENCE

WCGS-ER (OLS)																								
SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	3	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	13	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	13	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	13	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	14	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	14	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	17	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	17	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	17	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	17	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	11	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	11	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	3	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	3	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	3	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	3	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
N	3	2	3	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
N	000																							

TOTAL NO. OF OBSERVATIONS = 8784
TOTAL NO. OF INVALID OBSERVATIONS = 1197

Rev. 4
11/82

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07692-064-07
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 15 15.46

WIND DIRECTION PERSISTENCE - PASQUILL #F#
: SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24	24
NNE	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ESE	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SSE	12	18	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SSE	17	17	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SSW	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SSW	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
WSW	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
WSW	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
WNW	12	12	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
WNW	10	10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
NNW	10	10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

WCGS-ER(OLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24	24
NNE	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
NNE	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
ESE	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
ESE	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
SSE	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
SSE	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
SSW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
SSW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
WSW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
WSW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
WNW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
WNW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
NNW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
NNW	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43

TOTAL NO OF OBSERVATIONS = 8784
TOTAL NO OF INVALID OBSERVATIONS = 1197

TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE

(10 METERS)

KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-064-07
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/13/81 TIME - 15 18 55

WIND DIRECTION PERSISTENCE - PASQUILL #6#
1 SECTOR PERSISTENCE

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	5	8	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	10	19	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	14	19	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	7	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	14	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	19	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N																								

WCGS-ER(CLS)

AVERAGE WIND SPEED (M/SEC)

CONSECUTIVE HOURS

SECTOR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	3	24	3	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	3	50	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	3	55	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	3	55	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	3	55	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	3	55	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	3	55	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	3	55	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	3	55	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N																								

TOTAL NO OF OBSERVATIONS = 8784
TOTAL NO OF INVALID OBSERVATIONS = 1197

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TABLE 2.3-26 (Continued)

WIND DIRECTION PERSISTENCE
(10 METERS)

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KANSAS GAS AND ELECTRIC
WOLF CREEK GENERATING STATION
JOB NO. - 07699-054-07
DATA PERIOD (YR - MONTH - DAY) - 790305 TO 800304
THRESHOLD OF ANEMOMETER (MPH) - 74
DATE OF THIS RUN - 11/17/81 TIME - 14.03.16

WIND DIRECTION PERSISTENCE - PASQUILL #5*

SECTOR	CONSECUTIVE HOURS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24	WCGS-ER(OLS)
NNE	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
NNE	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
ENE	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
ENE	32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
ESE	46	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
ESE	48	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
SSE	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
SSW	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
WSW	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
WNW	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
NNW	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
N	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

AVERAGE WIND SPEED (M/SEC)

SECTOR	CONSECUTIVE HOURS	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	>24
NNE	91	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
NNE	71	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
ENE	69	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
ENE	32	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
ESE	32	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
ESE	77	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
SSE	77	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
SSE	60	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
SSW	43	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
SSW	34	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
WSW	92	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
WSW	70	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
WNW	49	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
WNW	29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
NNW	87	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
NNW	37	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
N	36	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0

TOTAL NO OF OBSERVATIONS = 8784
TOTAL NO OF INVALID OBSERVATIONS = 1197

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AVERAGE MONTHLY AND ANNUAL DAYLIGHT CLOUD COVER,
AND SUNSHINE FOR TOPEKA, KANSAS

Month	Clear Days ^(a)	Partly Cloudy Days ^(a)	Cloudy Days ^(a)	Sky Cover ^(a) (Tenth of) Possible (Celestial Sunshine ^(b) Dome) (%)	
January	9	6	16	6.2	55
February	8	6	14	6.3	54
March	7	8	16	6.7	54
April	7	8	15	6.4	56
May	7	10	14	6.3	59
June	8	10	12	5.9	65
July	10	11	10	5.2	69
August	12	11	8	4.9	70
September	12	7	11	5.0	64
October	13	7	11	4.8	65
November	10	6	14	5.8	54
December	9	6	16	6.2	51
Annual	112	96	157	5.8	60

a Data Period 1947-1978.

b Data Period 1950-1978.

Source:

Environmental Data Service, 1978, Local climatological data, annual summary with comparative data, Topeka, Kansas: Environmental Science Services Administration, U.S. Department of Commerce, Silver Spring, Maryland.

TABLE 2.3- 28 (continued)

WINTER

Upper Class
Intervals of
Hours of
Persistence

Stability Class

	A	B	C	D	E	F
51	.00	.00	.00	3.54	.00	.00
54	.00	.00	.00	2.50	.00	.00
57	.00	.00	.00	3.96	.00	.00
60	.00	.00	.00	1.85	.00	.00
63	.00	.00	.00	4.37	.00	.00
66	.00	.00	.00	1.02	.00	.00
69	.00	.00	.00	1.06	.00	.00
72	.00	.00	.00	2.78	.00	.00
75	.00	.00	.00	.00	.00	.00
78	.00	.00	.00	2.41	.00	.00
81	.00	.00	.00	1.87	.00	.00
84	.00	.00	.00	1.94	.00	.00
87	.00	.00	.00	.67	.00	.00
90	.00	.00	.00	1.39	.00	.00
93	.00	.00	.00	3.59	.00	.00
96	.00	.00	.00	.74	.00	.00
99	.00	.00	.00	1.53	.00	.00
102	.00	.00	.00	.00	.00	.00
>102	.00	.00	.00	14.82	.00	.00

WCGS-ER(OLS)

WCGS-ER(OLS)

TABLE 2.3-29

Page 1 of 4

STABILITY PERSISTENCE SUMMARY

WOLF CREEK GENERATING STATION
BURLINGTON, KANSAS
KANSAS GAS AND ELECTRIC
DAMES AND MOORE JOB NO 7699-064-07
DATA PERIOD FROM 6/ 1/73 TO 3/ 4/80
DATE AND TIME OF RUN 10/30/81. 09.31.21.

NUMBER OF CONSECUTIVE HOURS	PASQUILL STABILITY CLASS						
	-A-	-B-	-C-	-D-	-E-	-F-	-G-
2	2106	433	573	5917	4089	2073	1727
3	1640	193	266	4696	3053	1338	1341
4	1250	88	140	3869	2330	892	1057
5	926	38	78	3263	1798	595	825
6	659	24	44	2811	1382	388	637
7	445	15	27	2425	1051	247	483
8	282	10	20	2086	782	152	353
9	162	9	14	1801	575	88	244
10	84	8	10	1564	411	48	159
11	34	7	7	1373	298	25	102
12	15	6	6	1216	201	13	59
13	11	5	5	1082	128	7	29
14	9	4	4	962	84	4	12
15	7	3	3	852	54	1	5
16	5	2	2	759	37	0	2
17	3	1	1	676	25	0	0
18	2	0	0	608	17	0	0
19	1	0	0	551	13	0	0
20	0	0	0	503	11	0	0
21	0	0	0	458	10	0	0
22	0	0	0	422	9	0	0
23	0	0	0	390	8	0	0
24	0	0	0	359	7	0	0
>24	0	0	0	334	6	0	0

1244 INVALID HOUR(S).

WCGS-ER(OIS)

TABLE 2.3-29 (Continued)

Page 2 of 4

STABILITY PERSISTENCE SUMMARY

WOLF CREEK GENERATING STATION
 BURLINGTON, KANSAS
 KANSAS GAS AND ELECTRIC
 DAMES AND MOORE JOB NO 7699-064-07
 DATA PERIOD FROM 6/ 1/73 TO 5/31/74
 DATE AND TIME OF RUN 10/30/81. 09.27.00.

NUMBER OF CONSECUTIVE HOURS	PASQUILL STABILITY CLASS						
	-A-	-B-	-C-	-D-	-E-	-F-	-G-
2	608	213	211	1905	1427	668	637
3	443	100	93	1472	1032	407	495
4	314	50	48	1204	763	256	386
5	210	26	24	1017	565	166	295
6	132	19	10	865	422	103	224
7	75	13	5	735	316	59	145
8	39	10	3	621	229	32	118
9	14	9	2	524	160	17	80
10	2	8	1	444	104	9	47
11	0	7	0	380	68	4	26
12	0	6	0	329	40	1	12
13	0	5	0	287	21	0	6
14	0	4	0	248	12	0	2
15	0	3	0	211	6	0	1
16	0	2	0	179	3	0	0
17	0	1	0	152	2	0	0
18	0	0	0	129	1	0	0
19	0	0	0	112	0	0	0
20	0	0	0	98	0	0	0
21	0	0	0	85	0	0	0
22	0	0	0	76	0	0	0
23	0	0	0	68	0	0	0
24	0	0	0	60	0	0	0
>24	0	0	0	52	0	0	0

66 INVALID HOUR(S).

TABLE 2.3-29 (Continued)

STABILITY PERSISTENCE SUMMARY

WOLF CREEK GENERATING STATION
 BURLINGTON, KANSAS
 KANSAS GAS AND ELECTRIC
 DAMES AND MOORE JOB NO 7699-064-07
 DATA PERIOD FROM 6/ 1/74 TO 5/31/75
 DATE AND TIME OF RUN 10/30/81 09.26.44.

NUMBER OF CONSECUTIVE HOURS	PASQUILL STABILITY CLASS						
	-A-	-B-	-C-	-D-	-E-	-F-	-G-
2	1294	116	224	1843	1208	741	519
3	1051	47	124	1492	889	496	396
4	850	15	75	1249	671	343	308
5	657	4	49	1061	510	233	237
6	503	2	33	934	383	156	180
7	350	1	22	825	274	105	133
8	240	0	17	733	194	70	93
9	148	0	12	657	138	46	60
10	82	0	9	594	94	25	38
11	34	0	7	541	64	13	25
12	15	0	6	495	38	8	15
13	11	0	5	451	19	5	8
14	9	0	4	410	10	3	4
15	7	0	3	372	4	1	2
16	5	0	2	339	2	0	1
17	3	0	1	308	1	0	0
18	2	0	0	283	0	0	0
19	1	0	0	263	0	0	0
20	0	0	0	247	0	0	0
21	0	0	0	233	0	0	0
22	0	0	0	222	0	0	0
23	0	0	0	212	0	0	0
24	0	0	0	202	0	0	0
24	0	0	0	194	0	0	0

4 INVALID HOUR(S).

TABLE 2.3-29 (Continued)

STABILITY PERSISTENCE SUMMARY

WOLF CREEK GENERATING STATION
 BURLINGTON, KANSAS
 KANSAS GAS AND ELECTRIC
 DAMES AND MOORE JOB NO 7699-064-07
 DATA PERIOD FROM 3/ 5/79 TO 3/ 4/80
 DATE AND TIME OF RUN 10/30/81 09.29.03.

NUMBER OF CONSECUTIVE HOURS	PASQUILL STABILITY CLASS						
	-A-	-B-	-C-	-D-	-E-	-F-	-G-
2	204	104	138	2169	1454	664	571
3	135	46	49	1732	1132	435	450
4	86	23	17	1416	876	293	363
5	49	8	5	1185	723	196	293
6	24	3	1	1012	577	129	233
7	10	1	0	865	461	83	185
8	3	0	0	732	359	50	142
9	0	0	0	620	277	25	104
10	0	0	0	526	213	14	74
11	0	0	0	452	166	8	51
12	0	0	0	392	123	4	32
13	0	0	0	344	88	2	15
14	0	0	0	304	62	1	6
15	0	0	0	269	44	0	2
16	0	0	0	241	32	0	1
17	0	0	0	216	22	0	0
18	0	0	0	196	16	0	0
19	0	0	0	176	13	0	0
20	0	0	0	158	11	0	0
21	0	0	0	140	10	0	0
22	0	0	0	124	9	0	0
23	0	0	0	110	8	0	0
24	0	0	0	97	7	0	0
24	0	0	0	88	6	0	0

1174 INVALID HOUR(S).

TABLE 2.3-30

AVERAGE MONTHLY AND ANNUAL NUMBER OF DAYS
WITH THUNDERSTORMS AT TOPEKA AND WICHITA, KANSAS

Month	Number of Days at Topeka ^(a)	Number of Days at Wichita ^(b)
January	*	*
February	1	1
March	2	2
April	6	6
May	10	9
June	10	10
July	9	8
August	8	7
September	6	6
October	4	3
November	1	1
December	*	*
Annual	58	55

^a Data Period 1947-1978.

^b Data Period 1954-1978.

Source:

U.S. Weather Bureau, 1959, Climates of the States--Kansas:
U.S. Weather Bureau, Department of Commerce, pp. 60-14.

Environmental Data Service, 1978, Local Climatological data,
annual summary with comparative data, Topeka, Kansas: National
Oceanic and Atmospheric Administration, U.S. Department of
Commerce.

Environmental Data Service, 1978, Local climatological data,
annual summary with comparative data, Wichita, Kansas: National
Oceanic and Atmospheric Administration, U.S. Department of
Commerce.

The Kansas Water Resources Board calculated hydraulic geometry parameters for streamflows of 50 and 80 percent durations and for average discharges in the Neosho River at two gauging stations downstream from the site (Kansas Water Resources Board 1971). These stream parameters, which reflect unregulated flows, are shown in Table 2.4-4. In-channel hydraulic geometry parameters for average discharge of the Neosho River near Chanute are included for comparison but reflect streamflows regulated by the John Redmond Reservoir. The regulated streamflow period of record from October 1, 1964 through September 30, 1972 was used to define these parameters.

The Neosho River may also be characterized as an effluent stream. Figure 2.4-6 shows water table contours within a 5-mile radius of the site. The configuration of these contours indicates groundwater discharges to the Neosho River. However, because of the low permeability of the weathered bedrock and associated rock units in the area, only a small quantity of groundwater discharges to the Neosho River.

Several cross sections showing groundwater gradients sloping toward the Neosho River show that the river gains groundwater downstream from the John Redmond Reservoir from at least as far away as Iola, the farthest downstream gauge studied (O'Conner 1974; Stocking 1974). During periods of low flow, the Neosho River derives almost all, if not all, of its flow from groundwater discharges. November 1950 was chosen as a representative low flow period for the Neosho River as there was probably little phreatophyte water consumption and no surface water inflow to or diversion outflow from the river between New Strawn and Iola during this period. The mean daily discharge was 200 cfs at New Strawn and 224 cfs at Iola (U.S. Geological Survey, no date [Water Supply Paper No. 1177]). The difference of 24 cfs probably represents the approximate groundwater inflow to the Neosho River between these two cities.

Low-flow augmentation to the Neosho River from the John Redmond Reservoir depends on local and downstream water requirements, including plant operating requirements. Determining low flow probability of the Neosho River near the site is impractical because any natural low flow would be augmented by available reservoir storage. Minimum inflows to the John Redmond Reservoir are provided from major upstream reservoirs.

The city of LeRoy is the nearest municipal water user downstream of the Wolf Creek Watershed. The city's water intake is located about 14 river miles downstream from the confluence of Wolf Creek and the Neosho River.

Incorporated municipal water supply systems from Coffey County to Oklahoma, which utilize the Neosho River as the source of supply, are listed in Table 2.4-5. These include domestic, commercial, industrial, and public-use water requirements. Rural water districts in Kansas utilizing the Neosho River as the source of supply, either directly or indirectly, are also listed in Table 2.4-5. They have been formed in those areas where groundwater resources are limited.

There are 34 water right permits granted for irrigation use along the Neosho River from John Redmond Dam to Oklahoma. The maximum rate of appropriated surface water from the John Redmond spillway location to the Oklahoma state line is 233,854 gallons per minute, with a maximum annual quantity of 114,183 acre-feet (Kansas State Board of Agriculture 1979).

Further description of water use is provided in Section 2.1.3.4.

2.4.1.3 Wolf Creek Cooling Lake

The cooling lake is formed by a "main" earth dam constructed across Wolf Creek and saddle dams built along the periphery of the lake. The tops of the dams are at an elevation of 1,100 feet above mean sea level (MSL) to provide sufficient freeboard and prevent overtopping of the dams by the probable maximum flood and wind and wave action. Service and auxiliary spillways are provided on the east abutment of the main dam to pass floods of elevations up to and including that of the probable maximum flood. The maximum cooling lake elevation of 1,095 feet MSL occurs when the probable maximum flood is preceded by the standard project flood and both are routed through the spillways.

The normal operating elevation of the cooling lake is 1,087 feet MSL. At this elevation the lake has a capacity of 111,280 acre-feet and a surface area of 5,090 acres. Estimated sedimentation during the life of the plant in the cooling lake from the Wolf Creek stream flow and from the makeup pumped from the Neosho River below the John Redmond Reservoir is 1 percent of the lake's storage volume at its normal operating level and thus does not affect the functioning of the lake.

2.4.1.3.1 Makeup Water Supply to Wolf Creek Cooling Lake

A major source of makeup water to the cooling lake is the conservation storage of the John Redmond Reservoir, providing that the low flow downstream water requirements are satisfied. Additional makeup water is supplied by natural runoff

TABLE 3.5-1 (Sheet 3)

<u>Class 6</u>	<u>Reactor Coolant</u> <u>$\mu\text{Ci/gm}$</u>	<u>Secondary Coolant⁽²⁾</u> <u>$\mu\text{Ci/gm}$</u>
Ce-141	7.00E-5	1.81E-9
Ce-143	4.00E-5	4.79E-10
Ce-144	3.30E-5	9.03E-10
Pr-143	5.00E-5	9.08E-10
Pr-144	3.30E-5	1.97E-9
	<u>2.90E-1</u>	<u>5.78E-6⁽³⁾</u>

- (1) Refer to Table 3A-1 for assumptions.
- (2) For the secondary side, the noble gas activities are for the steam phase; all other activities are for steam generator water activities.
- (3) Lower blowdown rates result in higher secondary system activities. A 60-gpm blowdown will result in a total of $5.35\text{E-}5 \mu\text{Ci/gm}$ (excluding noble gases, N-16, and tritium) in the steam generator. A maximum blowdown rate was used in this table.

WGS-ER(OLS)

TABLE 3.5-2
ANNUAL EFFLUENT RELEASES (1)
LIQUID

Nuclide	Half-life (Days)	Coolant Concentrations		Boron Rs (Curies)	Misc Wastes (Curies)	Secondary (Curies)	Turb Bldg (Curies)	Total LWS (Curies)	Adjusted Total (Ci/Yr)	Detergent Wastes (Ci/Yr)	Total (Ci/Yr)
		Primary (Micro Ci/ml)	Secondary (Micro Ci/ml)								
Corrosion and Activation Products											
Cr-51	2.78+001	1.90-003	4.07-008	.00000	.00000	.00000	.00000	.00000	.00009	.00000	.00009
Mn-54	3.03+002	3.10-004	9.02-009	.00000	.00000	.00000	.00000	.00000	.00002	.00010	.00012
Fe-55	9.50+002	1.60-003	3.61-008	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Fe-59	4.50+001	1.00-003	2.71-008	.00000	.00000	.00000	.00000	.00000	.00005	.00000	.00005
Co-58	7.13+001	1.60-002	3.61-007	.00001	.00002	.00000	.00000	.00003	.00088	.00040	.00130
Co-60	1.92+003	2.00-003	4.06-008	.00000	.00000	.00000	.00000	.00000	.00011	.00087	.00098
Zr-95	6.50+001	.00	.00	.00000	.00000	.00000	.00000	.00000	.00000	.00014	.00014
Nb-95	3.50+001	.00	.00	.00000	.00000	.00000	.00000	.00000	.00000	.00020	.00020
Np-239	2.35+000	1.20-003	2.81-008	.00000	.00000	.00000	.00000	.00000	.00002	.00000	.00002
Fission Products											
Bt-83	1.00-001	4.80-003	5.13-008	.00000	.00000	.00000	.00000	.00000	.00003	.00000	.00003
Rb-96	1.87+001	9.50-005	1.96-009	.00000	.00000	.00000	.00000	.00000	.00002	.00000	.00002
Sr-89	5.20+001	3.50-004	9.04-009	.00000	.00000	.00000	.00000	.00000	.00002	.00000	.00002
Nb-99	2.79+000	8.40-002	1.86-006	.00001	.00004	.00000	.00000	.00007	.00182	.00000	.00180
Tc-99m	2.50-001	4.80-002	1.74-006	.00001	.00004	.00000	.00002	.00006	.00173	.00000	.00170
Ru-103	3.96+001	4.50-005	9.04-010	.00000	.00000	.00000	.00000	.00000	.00000	.00001	.00002
Ru-106	3.67+002	1.00-005	1.80-010	.00000	.00000	.00000	.00000	.00000	.00000	.00024	.00024
Ag-110m	2.53+002	.00	.00	.00000	.00000	.00000	.00000	.00000	.00000	.00004	.00004
Te-127m	1.09+002	2.80-004	4.51-009	.00000	.00000	.00000	.00000	.00000	.00002	.00000	.00002
Te-127	3.92-001	8.50-004	1.62-008	.00000	.00000	.00000	.00000	.00000	.00002	.00000	.00002
Te-129m	3.40+001	1.40-003	2.71-008	.00000	.00000	.00000	.00000	.00000	.00007	.00000	.00007
Te-129	4.79-002	1.60-003	4.88-008	.00000	.00000	.00000	.00000	.00000	.00005	.00000	.00005
I-130	5.17-001	2.10-003	2.91-008	.00000	.00000	.00000	.00000	.00000	.00010	.00000	.00010
Te-131m	1.25+000	2.50-003	4.82-008	.00000	.00000	.00000	.00000	.00000	.00003	.00000	.00003
I-131	8.05+000	2.70-001	4.06-006	.00071	.00229	.00000	.00040	.00339	.09468	.00000	.09500
Te-132	3.25+000	2.70-002	4.63-007	.00000	.00001	.00000	.00000	.00002	.00061	.00000	.00061
I-132	9.58-002	1.00-001	1.42-006	.00000	.00003	.00000	.00003	.00006	.00174	.00000	.00170
I-133	8.75-001	3.80-001	5.50-006	.00003	.00058	.00000	.00045	.00106	.02961	.00000	.03000
Cs-134	7.49+002	2.50-002	5.75-007	.00021	.00003	.00000	.00001	.00024	.00680	.00130	.00810
I-135	2.79-001	1.90-001	2.51-006	.00000	.00005	.00000	.00013	.00019	.00524	.00000	.00520
Cs-136	1.30+001	1.30-002	2.99-007	.00006	.00001	.00000	.00000	.00007	.00209	.00000	.00210
Cs-137	1.10+004	1.80-002	4.16-007	.00015	.00002	.00000	.00000	.00018	.00495	.00240	.00730
Ba-137m	1.77-003	1.60-002	9.58-007	.00014	.00002	.00000	.00000	.00017	.00462	.00000	.00460
Ce-144	3.30-005	3.30-005	9.03-010	.00000	.00000	.00000	.00000	.00000	.00000	.00052	.00052
All Others	2.84+002	2.53-001	1.13-006	.00000	.00000	.00000	.00000	.00000	.00006	.00000	.00006
Total (Except Tritium)		1.46+000	2.17-005	.00133	.00317	.00000	.00107	.00557	.15557	.00629	.16000

(1) Releases are based on assumptions given in Appendix 3A.

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5.2 RADIOLOGICAL IMPACT FROM ROUTINE OPERATION

Normal operation of the Wolf Creek Generating Station (WCGS) will result in the release of only very low level liquid and gaseous radioactive discharges. In order to evaluate any potential impact from these releases, the dose contribution of the radioactive materials in the environment was predicted on the basis of terrestrial and aquatic pathways discussed in this section and in Sections 5.2 and 5.3 of the Environmental Report-Construction Permit Stage (ER(CPS)). In summary, negligible radiological impact is expected on man and the aquatic biota or terrestrial mammals as a result of the quantity of radionuclides to be released from the WCGS.

A detailed discussion of important dose pathways and resultant exposure rates was presented in Sections 5.2 and 5.3 of the ER(CPS) and is updated below. An update of this section was necessitated to reevaluate the potential impact from liquid and gaseous radioactive effluent discharges using the NRC computer codes GASPAR and LADTAP II. This update is based on a full three years of meteorological data collected at WCGS and a revised set of liquid source terms which are being incorporated into Section 3.5 at this time. The NRC computer codes used in this revision are based on the methods and models outlined in Regulatory Guides 1.109, 1.111 and 1.113.

5.2.1 EXPOSURE PATHWAYS

5.2.1.1 Exposure Pathways for Radiation Exposure of Biota Other Than Man

Dose rate estimates to biota as herein presented should be considered extremely conservative since they are predicated on the following assumptions:

1. Liquid discharges are diluted only by the circulating cooling water. No credit was taken for further reduction of radionuclide concentrations in the cooling lake;
2. Buildup of the radionuclides in the cooling lake over the period of the life of the plant;
3. Aquatic organisms are continuously submerged at the point of discharge to the cooling lake;
4. Predatory species obtain their entire diet from primary organisms in equilibrium with water at effluent concentrations.

Liquid and gaseous releases will result in radiation doses to aquatic and terrestrial biota through pathways summarized in Figure 5.2-1. Many of the pathways of exposure for biota are similar to those for man. These pathways include ingestion of water and aquatic foods, submersion in air, immersion in water and exposure to sediments and shorelines. Other pathways such as inhalation and direct radiation from air deposition of radionuclides on soils are not considered significant for inclusion in the total dose to such organisms. Pathways of exposure from liquid effluents are generally the most significant contributors to radiation dose to organisms other than man. Because aquatic organisms can actively concentrate some radionuclides, these food chain components are potentially the most important contributors to radiation dose to terrestrial animals. The impact through the food chain pathway is expected to reach a maximum in predatory species such as muskrats, raccoons and herons which could conceivably obtain their total diet from aquatic organisms in equilibrium with water at effluent concentrations. The dose rate estimates for biota other than man are discussed in Section 5.2.3.

5.2.1.2 Exposure Pathways to Man

Radioactive effluents from the WCGS will become distributed throughout the terrestrial ecosystem by dispersion of gaseous releases, deposition of radioactive particulates and dilution of liquid radioactive discharges. Liquid and gaseous releases will result in radiation doses to man through pathways summarized in Figure 5.2-2.

Gaseous exposure pathways to man include:

1. Submersion in the cloud of gaseous effluents;
2. Inhalation of gaseous effluents;
3. Direct radiation exposure from radionuclide deposition on vegetation, soil and exposed surfaces; and
4. Ingestion of contaminated food chain components.

The annual individual dose from noble gases was evaluated in each of the 16 directional sectors around the plant at the Exclusion-Restricted Area Boundary (.75 miles) (Table 5.2-10), to evaluate cloud submersion and air dose from beta and gamma radiations. Also the calculated population dose rates from submersion in gaseous effluents were evaluated within a 50 mile radius of the plant (Table 5.2-8a). Radioactive iodine and particulate gaseous pathway doses were evaluated for a hypothetical worst case and for the controlling existing resident in the prevailing X/Q sector which is

north (Tables 5.2-9a and 9b). The hypothetical worst case assumes a resident lives in the north sector at the Exclusion-Restricted Area Boundary (.75 miles) with members of each age group present and all pathways present. The controlling existing resident lives 1.4 miles north of the plant and was evaluated as the maximum existing case. The dose rate estimates for man are presented in Section 5.2.4.

Liquid exposure pathways to man include:

1. Internal exposure from ingestion of water or contaminated food chain components;
2. External exposure from contaminated water or shoreline sediment.

Dose rate estimates to maximum individuals from liquid effluent concentrations were evaluated at the circulating water discharge point (Table 5.2-6).

Water is not available for public consumption at the plant site and no population or individual exposure is expected from this pathway. Although recreational uses of the cooling lake are not planned it is conservatively assumed that individual exposures from swimming, boating, fishing or ingestion of fish could result.

Discharge water concentrations, bioaccumulation factors, and ingestion rates were used to estimate internal dose rates. Although such activities may not be allowed on the lake, external dose rates were estimated for individuals boating or swimming in the vicinity of the discharge. The exposure rate from contaminated shoreline sediments was also calculated.

Evaluation of each pathway is based on maximizing conditions. No credit was taken for dilution of the effluents in the cooling lake; buildup of the radionuclides in the lake over the life of the plant is assumed; all interactions are assumed to occur with radionuclide concentrations as they will occur at the point of discharge. Aquatic food chain elements are assumed to be in equilibrium with discharge concentrations prior to consumption. Since any swimming, boating, or fishing activities, if allowed, would be expected to be conducted in places in the cooling lake other than at the discharge point, evaluation of this pathway provides an upper estimate of the potential dose.

Dose rate estimates to maximum individuals and the population of the town of Le Roy were also evaluated for exposure from liquid effluent concentrations.

Important aquatic pathways for consideration are summarized in Figure 5.2-2.

5.2.2 RADIOACTIVITY IN THE ENVIRONMENT

Estimated gaseous and liquid effluents from the WCGS are presented in Section 3.5.

On-site meteorological data collected over three full years was used to predict gaseous effluent distribution in the environment. Both the PUFF and straight-line Gaussian dispersion models, described in Regulatory Guide 1.111, were used for determination of ground level and mixed mode annual average diffusion estimates. Resultant CHI/Q values are summarized for each sector in Table 5.2-1. For estimation of effluent dispersion a combination of both a mixed mode and ground-level release was assumed. The meteorological data indicates that maximum concentrations would be expected to occur in the north sector. Gaseous dose calculations were done using GASPAR computer code. Dose calculation models used in GASPAR are outlined in Regulatory Guides 1.109 and 1.111. Assumptions used were either site specific or default values taken from the Regulatory Guides. These assumptions are presented in Appendix 5A.

Liquid dose calculations were done using LADTAP II computer code. Dose calculation models used in LADTAP II are outlined in Regulatory Guides 1.109 and 1.113 for doses to man and USAEC Report WASH-1258 for doses to biota other than man. Site specific values were used when available. Default values used were either recommended in Regulatory Guide 1.109 or taken from HERMES USAEC Report HEDL-TME-71-168. The assumptions used in LADTAP II are presented in Appendix 5A.

Liquid radioactive releases will be diluted by cooling water with a flow rate of 1114 cfs and service water with a flow rate of 90 cfs for a total discharge of 1204 cfs. This is the only dilution assumed for dose calculations to the maximum individual interacting with the cooling lake environment. Buildup or reconcentration of the radionuclides in the cooling lake and at the circulating water discharge is taken into consideration over a 40 year plant life expectancy. The last five of these years are considered to be during a drought. The model used for calculating buildup of the radionuclides in the lake is presented in Appendix 5A. The models were taken from Regulatory Guide 1.113 and USEPA EPA-520 Radionuclide Accumulation in a Reactor Cooling Lake. The town of Le Roy, Kansas, is the nearest downstream water user intake from WCGS. Dose rates to an individual residing in Le Roy and to the population at Le Roy have been evaluated. These dose rates take into consideration a 40 year buildup of radionuclides in the lake and then a further dilution in the Neosho River. No credit is taken for the radionuclides decay during transition from the lake to

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Results of noble gas calculations at the Exclusion-Restricted Area Boundary (.75 miles) show the maximum cloud submersion dose to the total body to be $2.2\text{E}-002$ mrem/yr and $7.24\text{E}-002$ mrem/yr to the skin in the north sector. The air dose resulted in exposure rates of $3.55\text{E}-002$ mrad/yr gamma and $1.00\text{E}-001$ mrad/yr from beta.

Doses attributable to radioactive particulates and iodines were evaluated at the north sector Exclusion-Restricted Area Boundary. A hypothetical worst case assumed members of each age group were present and all pathways were present at the boundary. Members of each age group were assumed to ingest goat milk rather than cow milk to consider the worst case milk ingestion pathway. The maximum organ and total body dose was 6.51 mrem/yr to the thyroid of an infant and $4.66\text{E}-001$ mrem/yr to the total body of a child. Doses attributable to the actual controlling existing resident (1.4 miles north sector) for the maximum organ and total body dose were 3.08 mrem/yr to an infant's thyroid and $2.00\text{E}-001$ to the total body of a child.

Calculated population dose rates from all pathways due to gaseous effluents were predicted based on the population in the year 2000. The results of these calculations are presented in Table 5.2-8a and 8b.

5.2.4.3 Direct Radiation From Facility

This subject was discussed in Section 5.3.4 of the ER(CPS). Although the source strengths involved have changed slightly, the conclusion reached-that negligible annual population exposure would be received in direct radiation from WCGS-has not changed.

5.2.4.4 Annual Population Doses

Population dose rates are summarized in Table 5.2-8a and 8b. From these calculations, the average person within 50 miles of the site would receive an annual dose of 8.9×10^{-4} mrem.

5.2.5 SUMMARY OF ANNUAL RADIATION DOSES

The design of the WCGS will assure that gaseous and liquid effluent concentrations are within the guidelines stated in 10 CFR 20. During reactor operation, actual radionuclide concentrations in the environment will be determined by continuous environmental monitoring.

A series of previously discussed tables from Sections 5.2.3 and 5.2.4 estimate individual, population and biota annual doses from liquid and gaseous effluents. A brief summary of

calculated total body and thyroid dose rates from liquid and gaseous effluents is presented in Table 5.2-11 for maximum individual exposures and population exposures.

The exposure pathways considered for calculation of doses to man and biota are outlined in Sections 5.2.1.1 and 5.2.1.2.

A conformance summary with 10 CFR 50, Appendix I, is outlined in Table 5.2-12.

5.2.6 REFERENCES

Attachment to Concluding Statement of Position of the Regulatory Staff. Public Rule-making Hearing on: Numerical Guides for Design Objectives and Limiting Conditions for Operation to Meet the Criterion "As Low As Practicable" for Radioactive Material in Light-Water-Cooled Nuclear Power Stations, USAEC, Docket No. RM-50-2, February 20, 1974.

Eckerman, K. F. and Lash, D. G., 1978 GASPAR version marked "revised 8/19/77": US Nuclear Regulatory Commission, Radiological Assessment Branch.

Eckerman, K. F., Congel, F. J., Roecklein, A. K. and Pasciak, W. J., 1980, NUREG-0597 Users Guide to GASPAR Code: U.S.N.R.C. Radiological Assessment Branch.

Final Environmental Statement Concerning Proposed Rule Making Action: Numerical Guides for Design Objectives and Limiting Conditions for Operation to Meet the Criterion "As Low as Practicable" for Radioactive Material in Light-Water-Cooled Nuclear Power Reactor Effluents, USAEC Report WASH-1258, Washington, D.C., July 1973.

Fletcher, J. F., and Dotson, W. L. (compilers), HERMES-A Digital Computer Code for Estimating Regional Radiological Effects from the Nuclear Power Industry, USAEC Report HEDL-TME-71-168, Hanford Engineering Development Laboratory, 1971.

Lyon, R. J., Shearin, R. L., 1976, EPA-520 Radionuclide Accumulation in a Reactor Cooling Lake: USEPA, Office of Radiation Programs.

Regulatory Guide 1.109, Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR 50, Appendix I, Office of Standards Development.

Regulatory Guide 1.111, Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors, Office of Standards Development.

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TABLE 5.2-1

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AVERAGE METEOROLOGICAL RELATIVE CONCENTRATION ANALYSIS
DATA PERIOD 06/01/73 TO 03/04/80ANNUAL AVERAGE (GROUND)
STANDARD PTS - 176 CORRECTED
ONSITE METEOROLOGY - 3 YEARS
DATE 23-NOV-81 TIME 13:13:10WOLF CREEK GENERATING STATION:
KANSAS GAS AND ELECTRIC CO.
BURLINGTON, KANSAS
DAMES AND MOORE JRS 7699-304-07

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
0.4 KM															
0.5E-06	3.1E-06	3.2E-06	3.3E-06	4.1E-06	4.9E-06	5.0E-06	4.8E-06	5.3E-06	4.7E-06	4.9E-06	5.1E-06	4.9E-06	7.6E-06	1.1E-05	1.2E-05
1.8E-06	3.0E-06	3.0E-06	3.0E-06	3.9E-06	4.6E-06	4.7E-06	4.5E-06	5.0E-06	4.4E-06	4.7E-06	4.9E-06	4.6E-06	7.2E-06	1.0E-05	1.1E-05
3.5E-06	2.0E-06	1.4E-06	2.5E-06	2.0E-06	2.8E-06	4.0E-06	3.6E-06	3.2E-06	2.4E-06	2.5E-06	2.5E-06	2.6E-06	3.2E-06	3.5E-06	7.7E-06
6.5E-06	3.1E-06	3.2E-06	3.3E-06	4.1E-06	4.9E-06	5.0E-06	4.8E-06	5.3E-06	4.7E-06	4.9E-06	5.1E-06	4.9E-06	7.6E-06	1.1E-05	1.2E-05
8.5E-06	3.1E-06	3.2E-06	3.3E-06	4.1E-06	4.9E-06	5.0E-06	4.8E-06	5.3E-06	4.7E-06	4.9E-06	5.1E-06	4.9E-06	7.6E-06	1.1E-05	1.2E-05
1.8E-06	3.0E-06	3.0E-06	3.0E-06	3.9E-06	4.6E-06	4.7E-06	4.5E-06	5.0E-06	4.4E-06	4.7E-06	4.9E-06	4.6E-06	7.2E-06	1.0E-05	1.1E-05
3.5E-06	2.0E-06	1.4E-06	2.5E-06	2.0E-06	2.8E-06	4.0E-06	3.6E-06	3.2E-06	2.4E-06	2.5E-06	2.5E-06	2.6E-06	3.2E-06	3.5E-06	7.7E-06
6.5E-06	3.1E-06	3.2E-06	3.3E-06	4.1E-06	4.9E-06	5.0E-06	4.8E-06	5.3E-06	4.7E-06	4.9E-06	5.1E-06	4.9E-06	7.6E-06	1.1E-05	1.2E-05
8.5E-06	3.1E-06	3.2E-06	3.3E-06	4.1E-06	4.9E-06	5.0E-06	4.8E-06	5.3E-06	4.7E-06	4.9E-06	5.1E-06	4.9E-06	7.6E-06	1.1E-05	1.2E-05
400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
0.8 KM															
2.0E-06	9.9E-07	1.0E-06	1.6E-06	1.4E-06	1.5E-06	1.5E-06	1.7E-06	1.7E-06	1.5E-06	1.5E-06	1.8E-06	1.6E-06	2.5E-06	3.6E-06	3.7E-06
1.8E-06	9.1E-07	9.2E-07	1.4E-06	1.3E-06	1.4E-06	1.3E-06	1.5E-06	1.5E-06	1.4E-06	1.4E-06	1.7E-06	1.5E-06	2.3E-06	3.2E-06	3.4E-06
1.8E-06	9.1E-07	9.2E-07	1.4E-06	1.3E-06	1.4E-06	1.3E-06	1.5E-06	1.5E-06	1.4E-06	1.4E-06	1.7E-06	1.5E-06	2.3E-06	3.2E-06	3.4E-06
2.0E-06	9.9E-07	1.0E-06	1.6E-06	1.4E-06	1.5E-06	1.5E-06	1.7E-06	1.7E-06	1.5E-06	1.5E-06	1.8E-06	1.6E-06	2.5E-06	3.6E-06	3.7E-06
1.8E-06	9.1E-07	9.2E-07	1.4E-06	1.3E-06	1.4E-06	1.3E-06	1.5E-06	1.5E-06	1.4E-06	1.4E-06	1.7E-06	1.5E-06	2.3E-06	3.2E-06	3.4E-06
1.8E-06	9.1E-07	9.2E-07	1.4E-06	1.3E-06	1.4E-06	1.3E-06	1.5E-06	1.5E-06	1.4E-06	1.4E-06	1.7E-06	1.5E-06	2.3E-06	3.2E-06	3.4E-06
800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
1.2 KM															
1.0E-06	5.1E-07	5.0E-07	7.3E-07	7.3E-07	8.1E-07	7.0E-07	8.4E-07	8.7E-07	7.7E-07	7.9E-07	1.0E-06	7.9E-07	1.2E-06	1.8E-06	1.9E-06
9.0E-07	4.6E-07	4.5E-07	6.6E-07	6.6E-07	7.2E-07	6.7E-07	7.5E-07	7.7E-07	6.9E-07	7.0E-07	9.2E-07	7.0E-07	1.2E-06	1.8E-06	1.9E-06
9.0E-07	4.6E-07	4.5E-07	6.6E-07	6.6E-07	7.2E-07	6.7E-07	7.5E-07	7.7E-07	6.9E-07	7.0E-07	9.2E-07	7.0E-07	1.2E-06	1.8E-06	1.9E-06
1.0E-06	5.1E-07	5.0E-07	7.3E-07	7.3E-07	8.1E-07	7.0E-07	8.4E-07	8.7E-07	7.7E-07	7.9E-07	1.0E-06	7.9E-07	1.2E-06	1.8E-06	1.9E-06
9.0E-07	4.6E-07	4.5E-07	6.6E-07	6.6E-07	7.2E-07	6.7E-07	7.5E-07	7.7E-07	6.9E-07	7.0E-07	9.2E-07	7.0E-07	1.2E-06	1.8E-06	1.9E-06
9.0E-07	4.6E-07	4.5E-07	6.6E-07	6.6E-07	7.2E-07	6.7E-07	7.5E-07	7.7E-07	6.9E-07	7.0E-07	9.2E-07	7.0E-07	1.2E-06	1.8E-06	1.9E-06
1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
1.6 KM															
9.0E-07	3.5E-07	3.5E-07	4.5E-07	4.7E-07	5.4E-07	5.0E-07	5.3E-07	5.7E-07	4.9E-07	5.0E-07	6.4E-07	5.2E-07	8.6E-07	1.2E-06	1.3E-06
9.0E-07	3.5E-07	3.5E-07	4.5E-07	4.7E-07	5.4E-07	5.0E-07	5.3E-07	5.7E-07	4.9E-07	5.0E-07	6.4E-07	5.2E-07	8.6E-07	1.2E-06	1.3E-06
9.0E-07	3.5E-07	3.5E-07	4.5E-07	4.7E-07	5.4E-07	5.0E-07	5.3E-07	5.7E-07	4.9E-07	5.0E-07	6.4E-07	5.2E-07	8.6E-07	1.2E-06	1.3E-06
9.0E-07	3.5E-07	3.5E-07	4.5E-07	4.7E-07	5.4E-07	5.0E-07	5.3E-07	5.7E-07	4.9E-07	5.0E-07	6.4E-07	5.2E-07	8.6E-07	1.2E-06	1.3E-06
9.0E-07	3.5E-07	3.5E-07	4.5E-07	4.7E-07	5.4E-07	5.0E-07	5.3E-07	5.7E-07	4.9E-07	5.0E-07	6.4E-07	5.2E-07	8.6E-07	1.2E-06	1.3E-06
9.0E-07	3.5E-07	3.5E-07	4.5E-07	4.7E-07	5.4E-07	5.0E-07	5.3E-07	5.7E-07	4.9E-07	5.0E-07	6.4E-07	5.2E-07	8.6E-07	1.2E-06	1.3E-06
1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500

TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 0.00 CALMS LOWER LEV - 15.00
 KEY ENTRY 1 RELATIVE CONCENTRATION - 100 (S/M**3) ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)
 ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2) ENTRY 4 DECAYED 100 (S/M**3) - HALF LIFE 0.00 DAYS
 ENTRY 5 DECAYED 100 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 7 DECAYED 100 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 8 - DISTANCE IN METERS

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
2.4 KM															
3.9E-07	2.1E-07	2.0E-07	2.2E-07	2.5E-07	3.0E-07	2.8E-07	2.7E-07	3.1E-07	2.7E-07	2.7E-07	3.4E-07	2.8E-07	4.7E-07	6.4E-07	6.9E-07
3.2E-07	1.7E-07	1.7E-07	1.9E-07	2.2E-07	2.5E-07	2.3E-07	2.2E-07	2.6E-07	2.3E-07	2.3E-07	2.8E-07	2.3E-07	3.9E-07	5.4E-07	5.7E-07
3.2E-09	1.3E-09	3.0E-10	1.3E-09	2.2E-09	1.7E-09	2.1E-09	1.9E-09	1.8E-09	1.3E-09	1.3E-09	1.5E-09	1.4E-09	1.9E-09	3.1E-09	3.0E-09
3.9E-07	2.0E-07	2.0E-07	2.2E-07	2.5E-07	3.0E-07	2.7E-07	2.7E-07	3.1E-07	2.7E-07	2.7E-07	3.4E-07	2.8E-07	4.7E-07	6.4E-07	6.9E-07
3.9E-07	2.1E-07	2.0E-07	2.2E-07	2.5E-07	3.0E-07	2.7E-07	2.7E-07	3.1E-07	2.7E-07	2.7E-07	3.4E-07	2.8E-07	4.7E-07	6.4E-07	6.9E-07
3.2E-07	1.7E-07	1.7E-07	1.9E-07	2.1E-07	2.5E-07	2.3E-07	2.2E-07	2.6E-07	2.3E-07	2.3E-07	2.8E-07	2.3E-07	3.9E-07	5.4E-07	5.7E-07
3.2E-07	1.7E-07	1.7E-07	1.9E-07	2.1E-07	2.5E-07	2.3E-07	2.2E-07	2.6E-07	2.3E-07	2.3E-07	2.8E-07	2.3E-07	3.9E-07	5.4E-07	5.7E-07
2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
3.2 KM															
2.5E-07	1.4E-07	1.2E-07	1.5E-07	1.7E-07	1.9E-07	1.9E-07	1.8E-07	2.1E-07	1.7E-07	1.9E-07	2.1E-07	2.0E-07	3.1E-07	4.7E-07	4.9E-07
2.1E-07	1.1E-07	1.0E-07	1.2E-07	1.4E-07	1.6E-07	1.6E-07	1.5E-07	1.7E-07	1.4E-07	1.6E-07	1.7E-07	1.7E-07	2.6E-07	3.9E-07	4.1E-07
1.9E-07	9E-08	8E-08	1.0E-07	1.2E-07	1.4E-07	1.4E-07	1.3E-07	1.5E-07	1.2E-07	1.4E-07	1.5E-07	1.5E-07	2.2E-07	3.3E-07	3.5E-07
2.5E-07	1.4E-07	1.2E-07	1.5E-07	1.7E-07	1.9E-07	1.9E-07	1.8E-07	2.1E-07	1.7E-07	1.9E-07	2.1E-07	2.0E-07	3.1E-07	4.7E-07	4.9E-07
2.5E-07	1.4E-07	1.2E-07	1.5E-07	1.7E-07	1.9E-07	1.9E-07	1.8E-07	2.1E-07	1.7E-07	1.9E-07	2.1E-07	2.0E-07	3.1E-07	4.7E-07	4.9E-07
2.1E-07	1.1E-07	1.0E-07	1.2E-07	1.4E-07	1.6E-07	1.6E-07	1.5E-07	1.7E-07	1.4E-07	1.6E-07	1.7E-07	1.7E-07	2.6E-07	3.9E-07	4.1E-07
2.1E-07	1.1E-07	1.0E-07	1.2E-07	1.4E-07	1.6E-07	1.6E-07	1.5E-07	1.7E-07	1.4E-07	1.6E-07	1.7E-07	1.7E-07	2.6E-07	3.9E-07	4.1E-07
3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200
4.0 KM															
1.9E-07	1.1E-07	1.0E-07	1.2E-07	1.4E-07	1.6E-07	1.6E-07	1.5E-07	1.7E-07	1.4E-07	1.6E-07	1.7E-07	1.7E-07	2.6E-07	3.9E-07	4.1E-07
1.4E-07	8E-08	7E-08	9E-08	1.1E-07	1.3E-07	1.3E-07	1.2E-07	1.4E-07	1.1E-07	1.3E-07	1.4E-07	1.4E-07	2.1E-07	3.2E-07	3.4E-07
1.2E-07	7E-08	6E-08	8E-08	1.0E-07	1.2E-07	1.2E-07	1.1E-07	1.3E-07	1.0E-07	1.2E-07	1.3E-07	1.3E-07	2.0E-07	3.1E-07	3.3E-07
1.9E-07	1.0E-07	8E-08	1.0E-07	1.2E-07	1.4E-07	1.4E-07	1.3E-07	1.5E-07	1.2E-07	1.4E-07	1.5E-07	1.5E-07	2.2E-07	3.3E-07	3.5E-07
1.9E-07	1.0E-07	8E-08	1.0E-07	1.2E-07	1.4E-07	1.4E-07	1.3E-07	1.5E-07	1.2E-07	1.4E-07	1.5E-07	1.5E-07	2.2E-07	3.3E-07	3.5E-07
1.4E-07	8E-08	7E-08	9E-08	1.1E-07	1.3E-07	1.3E-07	1.2E-07	1.4E-07	1.1E-07	1.3E-07	1.4E-07	1.4E-07	2.1E-07	3.2E-07	3.4E-07
1.4E-07	8E-08	7E-08	9E-08	1.1E-07	1.3E-07	1.3E-07	1.2E-07	1.4E-07	1.1E-07	1.3E-07	1.4E-07	1.4E-07	2.1E-07	3.2E-07	3.4E-07
4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
4.8 KM															
1.4E-07	8E-08	7E-08	9E-08	1.1E-07	1.3E-07	1.3E-07	1.2E-07	1.4E-07	1.1E-07	1.3E-07	1.4E-07	1.4E-07	2.1E-07	3.2E-07	3.4E-07
1.1E-07	6E-08	5E-08	6E-08	8E-08	1.0E-07	1.0E-07	9E-08	1.1E-07	8E-08	9E-08	1.1E-07	1.1E-07	1.8E-07	2.7E-07	2.9E-07
9E-10	3E-10	2E-10	2E-10	3E-10	4E-10	4E-10	3E-10	5E-10	3E-10	4E-10	5E-10	4E-10	6E-10	9E-10	1E-09
1.4E-07	8E-08	7E-08	9E-08	1.1E-07	1.3E-07	1.3E-07	1.2E-07	1.4E-07	1.1E-07	1.3E-07	1.4E-07	1.4E-07	2.1E-07	3.2E-07	3.4E-07
1.4E-07	8E-08	7E-08	9E-08	1.1E-07	1.3E-07	1.3E-07	1.2E-07	1.4E-07	1.1E-07	1.3E-07	1.4E-07	1.4E-07	2.1E-07	3.2E-07	3.4E-07
1.1E-07	6E-08	5E-08	6E-08	8E-08	1.0E-07	1.0E-07	9E-08	1.1E-07	8E-08	9E-08	1.1E-07	1.1E-07	1.8E-07	2.7E-07	2.9E-07
1.1E-07	6E-08	5E-08	6E-08	8E-08	1.0E-07	1.0E-07	9E-08	1.1E-07	8E-08	9E-08	1.1E-07	1.1E-07	1.8E-07	2.7E-07	2.9E-07
1.1E-07	6E-08	5E-08	6E-08	8E-08	1.0E-07	1.0E-07	9E-08	1.1E-07	8E-08	9E-08	1.1E-07	1.1E-07	1.8E-07	2.7E-07	2.9E-07
4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800	4800

WCGS-ER(OLS)

TABLE 5.2-1 (continued)

Sheet 2 of 8

AVERAGE METEOROLOGICAL RELATIVE CONCENTRATION ANALYSIS

DATA PERIOD 06/01/73 TO 03/04/80

ANNUAL AVERAGE (GROUND)

STANDARD PTS - T/R CORRECTED

ON-SITE METEOROLOGY - 3 YEARS

DATE 23-NOV-81 TIME 18:13:10

WOLF CREEK GENERATING STATION

KANSAS GAS AND ELECTRIC CO.

BURLINGTON, KANSAS

DAMES AND MOORE JOB 7699-064-07

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
5.5 KM															
1 2L-07	5 5E-08	4 6E-08	5 4E-08	7 9E-08	7 5E-08	6 6E-08	9 2E-08	1 0E-07	8 1E-08	8 8E-08	9 6E-08	9 7E-08	1 5E-07	2 1E-07	2 0E-07
9 2E-08	4 2E-08	3 6E-08	4 2E-08	6 1E-08	5 8E-08	6 7E-08	7 2E-08	7 9E-08	6 3E-08	6 8E-08	7 5E-08	7 5E-08	1 2E-07	1 6E-07	1 6E-07
7 6E-10	2 6E-10	1 5E-10	1 9E-10	2 9E-10	3 3E-10	5 1E-10	5 1E-10	4 7E-10	3 1E-10	3 2E-10	3 4E-10	3 7E-10	4 7E-10	7 8E-10	1 2E-09
1 2E-07	5 4E-08	4 2E-08	3 3E-08	7 6E-08	7 4E-08	8 5E-08	9 1E-08	1 0E-07	8 0E-08	8 7E-08	9 5E-08	9 6E-08	1 5E-07	2 1E-07	2 0E-07
1 2E-07	5 4E-08	4 2E-08	3 3E-08	7 6E-08	7 4E-08	8 5E-08	9 1E-08	1 0E-07	8 0E-08	8 7E-08	9 5E-08	9 6E-08	1 5E-07	2 1E-07	2 0E-07
9 1E-08	4 2E-08	3 6E-08	4 1E-08	6 0E-08	5 7E-08	6 6E-08	7 1E-08	7 8E-08	6 2E-08	6 7E-08	7 4E-08	7 4E-08	1 1E-07	1 6E-07	1 6E-07
9 1E-08	4 2E-08	3 6E-08	4 1E-08	6 0E-08	5 7E-08	6 6E-08	7 1E-08	7 8E-08	6 2E-08	6 7E-08	7 4E-08	7 4E-08	1 1E-07	1 6E-07	1 6E-07
5600	5600	5600	5600	5600	5600	5600	5600	5600	5600	5600	5600	5600	5600	5600	5600
6.4 KM															
9 6E-08	4 5E-08	3 6E-08	4 2E-08	6 1E-08	5 8E-08	7 1E-08	7 2E-08	7 9E-08	6 3E-08	6 8E-08	8 1E-08	1 2E-07	1 7E-07	1 7E-07	1 7E-07
7 2E-08	4 2E-08	3 6E-08	4 2E-08	6 1E-08	5 8E-08	7 1E-08	7 2E-08	7 9E-08	6 3E-08	6 8E-08	8 1E-08	1 2E-07	1 7E-07	1 7E-07	1 7E-07
3 9E-10	2 1E-10	1 1E-10	1 6E-10	2 2E-10	2 6E-10	4 0E-10	4 1E-10	3 2E-10	2 4E-10	2 6E-10	2 8E-10	3 0E-10	3 7E-10	4 7E-10	9 4E-10
9 5E-08	4 5E-08	3 5E-08	4 5E-08	6 6E-08	6 2E-08	7 0E-08	7 6E-08	7 8E-08	6 6E-08	7 3E-08	8 2E-08	8 0E-08	1 2E-07	1 7E-07	1 7E-07
9 5E-08	4 5E-08	3 5E-08	4 5E-08	6 6E-08	6 2E-08	7 0E-08	7 6E-08	7 8E-08	6 6E-08	7 3E-08	8 2E-08	8 0E-08	1 2E-07	1 7E-07	1 7E-07
7 2E-08	4 2E-08	3 6E-08	4 2E-08	6 1E-08	5 8E-08	7 1E-08	7 2E-08	7 9E-08	6 3E-08	6 8E-08	8 1E-08	1 2E-07	1 7E-07	1 7E-07	1 7E-07
7 2E-08	4 2E-08	3 6E-08	4 2E-08	6 1E-08	5 8E-08	7 1E-08	7 2E-08	7 9E-08	6 3E-08	6 8E-08	8 1E-08	1 2E-07	1 7E-07	1 7E-07	1 7E-07
6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400
7.2 KM															
8 1E-08	3 8E-08	2 9E-08	3 9E-08	5 7E-08	5 4E-08	6 0E-08	6 6E-08	6 4E-08	5 6E-08	6 4E-08	7 1E-08	7 0E-08	1 0E-07	1 5E-07	1 4E-07
8 1E-08	3 8E-08	2 9E-08	3 9E-08	5 7E-08	5 4E-08	6 0E-08	6 6E-08	6 4E-08	5 6E-08	6 4E-08	7 1E-08	7 0E-08	1 0E-07	1 5E-07	1 4E-07
4 7E-10	1 7E-10	8 2E-11	1 3E-10	1 9E-10	2 2E-10	3 4E-10	4 1E-10	2 7E-10	1 9E-10	2 2E-10	2 4E-10	2 6E-10	2 8E-10	3 1E-10	3 4E-10
8 0E-08	3 8E-08	2 9E-08	3 9E-08	5 7E-08	5 4E-08	6 0E-08	6 6E-08	6 4E-08	5 6E-08	6 4E-08	7 1E-08	7 0E-08	1 0E-07	1 5E-07	1 4E-07
8 0E-08	3 8E-08	2 9E-08	3 9E-08	5 7E-08	5 4E-08	6 0E-08	6 6E-08	6 4E-08	5 6E-08	6 4E-08	7 1E-08	7 0E-08	1 0E-07	1 5E-07	1 4E-07
6 0E-08	2 8E-08	2 1E-08	2 9E-08	4 2E-08	4 0E-08	4 4E-08	4 9E-08	4 7E-08	4 2E-08	4 7E-08	5 1E-08	5 6E-08	6 1E-08	6 6E-08	7 1E-08
6 0E-08	2 8E-08	2 1E-08	2 9E-08	4 2E-08	4 0E-08	4 4E-08	4 9E-08	4 7E-08	4 2E-08	4 7E-08	5 1E-08	5 6E-08	6 1E-08	6 6E-08	7 1E-08
7200	7200	7200	7200	7200	7200	7200	7200	7200	7200	7200	7200	7200	7200	7200	7200
8.0 KM															
7 2E-08	3 4E-08	2 3E-08	3 4E-08	5 1E-08	4 8E-08	5 2E-08	5 7E-08	5 4E-08	4 9E-08	5 6E-08	6 3E-08	6 0E-08	6 6E-08	7 1E-07	1 2E-07
7 2E-08	3 4E-08	2 3E-08	3 4E-08	5 1E-08	4 8E-08	5 2E-08	5 7E-08	5 4E-08	4 9E-08	5 6E-08	6 3E-08	6 0E-08	6 6E-08	7 1E-07	1 2E-07
3 9E-10	1 4E-10	6 5E-11	1 1E-10	1 6E-10	1 8E-10	2 7E-10	2 8E-10	2 2E-10	1 6E-10	1 8E-10	2 0E-10	2 2E-10	2 4E-10	2 6E-10	2 8E-10
6 7E-08	3 8E-08	2 3E-08	3 4E-08	5 1E-08	4 8E-08	5 2E-08	5 7E-08	5 4E-08	4 9E-08	5 6E-08	6 3E-08	6 0E-08	6 6E-08	7 1E-07	1 2E-07
6 7E-08	3 8E-08	2 3E-08	3 4E-08	5 1E-08	4 8E-08	5 2E-08	5 7E-08	5 4E-08	4 9E-08	5 6E-08	6 3E-08	6 0E-08	6 6E-08	7 1E-07	1 2E-07
3 1E-08	2 4E-08	1 7E-08	2 2E-08	3 7E-08	3 5E-08	3 8E-08	4 2E-08	3 7E-08	3 6E-08	4 1E-08	4 6E-08	4 1E-08	4 6E-08	5 1E-08	5 6E-08
3 1E-08	2 4E-08	1 7E-08	2 2E-08	3 7E-08	3 5E-08	3 8E-08	4 2E-08	3 7E-08	3 6E-08	4 1E-08	4 6E-08	4 1E-08	4 6E-08	5 1E-08	5 6E-08
8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 0.00 CALMS LOWER LEVEL - 15.00															
KEY ENTRY 1 RELATIVE CONCENTRATION - XDB (S/M**3)								ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)							
ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2)								ENTRY 4 DECAYED XDB (S/M**3) - HALF LIFE 2.26 DAYS							
ENTRY 5 DECAYED XDB (S/M**3) - HALF LIFE 8.00 DAYS								ENTRY 6 DECAYED XDB (S/M**3) - HALF LIFE 2.26 DAYS							
ENTRY 7 DECAYED XDB (S/M**3) - HALF LIFE 8.00 DAYS								ENTRY 8 - DISTANCE IN METERS							
AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
12.0 KM															
3 6E-08	1 9E-08	1 3E-08	1 7E-08	2 9E-08	2 7E-08	2 8E-08	3 3E-08	3 4E-08	2 5E-08	3 2E-08	3 6E-08	3 5E-08	4 9E-08	7 4E-08	7 4E-08
3 6E-08	1 9E-08	1 3E-08	1 7E-08	2 9E-08	2 7E-08	2 8E-08	3 3E-08	3 4E-08	2 5E-08	3 2E-08	3 6E-08	3 5E-08	4 9E-08	7 4E-08	7 4E-08
1 7E-10	7 0E-11	3 1E-11	4 7E-11	7 9E-11	7 6E-11	1 2E-10	1 4E-10	1 2E-10	7 0E-11	8 9E-11	9 4E-11	9 9E-11	1 1E-10	2 0E-10	3 2E-10
3 5E-08	1 9E-08	1 3E-08	1 7E-08	2 9E-08	2 7E-08	2 8E-08	3 3E-08	3 4E-08	2 5E-08	3 2E-08	3 6E-08	3 5E-08	4 9E-08	7 4E-08	7 4E-08
3 5E-08	1 9E-08	1 3E-08	1 7E-08	2 9E-08	2 7E-08	2 8E-08	3 3E-08	3 4E-08	2 5E-08	3 2E-08	3 6E-08	3 5E-08	4 9E-08	7 4E-08	7 4E-08
2 4E-08	1 9E-08	1 3E-08	1 7E-08	2 9E-08	2 7E-08	2 8E-08	3 3E-08	3 4E-08	2 5E-08	3 2E-08	3 6E-08	3 5E-08	4 9E-08	7 4E-08	7 4E-08
2 4E-08	1 9E-08	1 3E-08	1 7E-08	2 9E-08	2 7E-08	2 8E-08	3 3E-08	3 4E-08	2 5E-08	3 2E-08	3 6E-08	3 5E-08	4 9E-08	7 4E-08	7 4E-08
12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
14.0 KM															
2 3E-08	1 2E-08	8 3E-09	1 1E-08	2 3E-08	1 8E-08	1 8E-08	2 3E-08	2 5E-08	1 6E-08	2 1E-08	2 3E-08	2 3E-08	3 3E-08	4 9E-08	5 3E-08
2 3E-08	1 2E-08	8 3E-09	1 1E-08	2 3E-08	1 8E-08	1 8E-08	2 3E-08	2 5E-08	1 6E-08	2 1E-08	2 3E-08	2 3E-08	3 3E-08	4 9E-08	5 3E-08
9 5E-11	4 0E-11	1 7E-11	2 6E-11	4 7E-11	5 2E-11	7 1E-11	8 5E-11	7 4E-11	3 9E-11	5 2E-11	5 3E-11	5 8E-11	6 5E-11	1 1E-10	2 0E-10
2 2E-08	1 2E-08	8 3E-09	1 1E-08	2 3E-08	1 8E-08	1 8E-08	2 3E-08	2 5E-08	1 6E-08	2 1E-08	2 3E-08	2 3E-08	3 3E-08	4 9E-08	5 3E-08
2 2E-08	1 2E-08	8 3E-09	1 1E-08	2 3E-08	1 8E-08	1 8E-08	2 3E-08	2 5E-08	1 6E-08	2 1E-08	2 3E-08	2 3E-08	3 3E-08	4 9E-08	5 3E-08
1 4E-08	8 0E-09	5 3E-09	7 1E-09	1 3E-08	1 2E-08	1 2E-08	1 5E-08	1 6E-08	1 0E-08	1 4E-08	1 5E-08	1 5E-08	2 1E-08	3 1E-08	3 4E-08
1 4E-08	8 0E-09	5 3E-09	7 1E-09	1 3E-08	1 2E-08	1 2E-08	1 5E-08	1 6E-08	1 0E-08	1 4E-08	1 5E-08	1 5E-08	2 1E-08	3 1E-08	3 4E-08
16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000
24.0 KM															
1 2E-08	7 1E-09	4 7E-09	6 1E-09	1 0E-08	1 0E-08	9 7E-09	1 1E-08	1 2E-08	8 5E-09	1 1E-08	1 2E-08	1 3E-08	1 9E-08	3 0E-08	3 0E-08
1 2E-08	7 1E-09	4 7E-09	6 1E-09	1 0E-08	1 0E-08	9 7E-09	1 1E-08	1 2E-08	8 5E-09	1 1E-08	1 2E-08	1 3E-08	1 9E-08	3 0E-08	3 0E-08
7 6E-09	4 4E-09	2 9E-09	3 7E-09	6 2E-09	6 2E-09	6 0E-09	6 3E-09	8 0E-09	5 2E-09	7 1E-09	7 3E-09	8 0E-09	1 2E-08	1 8E-08	1 9E-08
3 2E-11	1 7E-11	9 6E-12	1 3E-11	1 9E-11	2 2E-11	3 2E-11	3 2E-11	3 2E-11	1 6E-11	1 2E-11	1 2E-11	1 2E-11	1 7E-11	3 4E-11	5 6E-11
1 2E-08	6 7E-09	4 4E-09	5 7E-09	9 5E-09	9 5E-09	9 3E-09	1 0E-08	1 2E-08	8 1E-09	1 1E-08	1 1E-08	1 2E-08	1 8E-08	2 9E-08	2 9E-08
1 2E-08	6 7E-09	4 4E-09	5 7E-09	9 5E-09	9 5E-09	9 3E-09	1 0E-08	1 2E-08	8 1E-09	1 1E-08	1 1E-08	1 2E-08	1 8E-08	2 9E-08	2 9E-08
7 2E-09	4 1E-09	2 7E-09	3 5E-09	5 8E-09	5 9E-09	5 7E-09	6 2E-09	7 5E-09	5 0E-09	6 7E-09	6 9E-09	7 6E-09	1 1E-08	1 3E-08	1 8E-08
7 2E-09	4 1E-09	2 7E-09	3 5E-09	5 8E-09	5 9E-09	5 7E-09	6 2E-09	7 5E-09	5 0E-09	6 7E-09	6 9E-09	7 6E-09	1 1E-08	1 3E-08	1 8E-08
24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	24000
32.0 KM															
3 5E-09	4 7E-09	3 1E-09	4 0E-09	5 0E-09	6 5E-09	6 6E-09	8 4E-09	8 7E-09	6 0E-09	7 4E-09	7 9E-09	8 5E-09	1 3E-08	2 1E-08	2 1E-08
4 9E-09	2 7E-09	1 8E-09	2 0E-09	3 5E-09	3 7E-09	3 8E-09	3 7E-09	5 0E-09	3 5E-09	4 3E-09	4 6E-09	4 9E-09	7 3E-09	1 2E-08	1 2E-08
3 5E-11	1 6E-11	4 9E-12	6 6E-12	9 9E-12	1 3E-11	1 7E-11	1 7E-11	1 5E-11	1 2E-11	1 2E-11	1 2E-11	1 2E-11	1 7E-11	3 4E-11	5 6E-11
9 3E-09	4 3E-09	2 8E-09	3 7E-09	5 6E-09	6 0E-09	6 2E-09	6 0E-09	8 2E-09	5 6E-09	6 9E-09	7 5E-09	8 1E-09	1 2E-08	2 0E-08	2 0E-08
9 3E-09	4 3E-09	2 8E-09	3 7E-09	5 6E-0											

WCGS-ER(OLS)

TABLE 5.2-1 (continued)

Sheet 3 of 8

AVERAGE METEOROLOGICAL RELATIVE CONCENTRATION ANALYSIS
 DATA PERIOD 06/01/73 TO 03/04/80

ANNUAL AVERAGE (GROUND)
 STANDARD PTS - 7/R CORRECTED
 ON-SITE METEOROLOGY - 3 YEARS
 DATE 23-NOV-81 TIME 18 13 10

WOLF CREEK GENERATING STATION
 KANSAS GAS AND ELECTRIC CO.
 BURLINGTON, KANSAS
 DAVIS AND MOORE JOB 7699-064-07

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
40.0 KM															
6.2E-09	2.7E-09	1.8E-09	3.1E-09	4.6E-09	4.3E-09	4.4E-09	4.8E-09	6.2E-09	4.0E-09	3.0E-09	3.4E-09	5.9E-09	8.9E-09	1.3E-08	1.6E-08
3.5E-09	1.0E-09	1.0E-09	1.7E-09	2.5E-09	2.4E-09	2.4E-09	2.6E-09	3.4E-09	2.2E-09	2.7E-09	3.0E-09	3.2E-09	4.9E-09	7.3E-09	8.5E-09
1.7E-11	5.4E-12	2.3E-12	4.5E-12	6.7E-12	7.5E-12	1.1E-11	1.1E-11	1.2E-11	6.2E-12	7.6E-12	7.7E-12	9.1E-12	1.1E-11	1.9E-11	3.7E-11
5.9E-09	2.5E-09	1.7E-09	2.9E-09	4.2E-09	3.9E-09	4.1E-09	4.1E-09	5.8E-09	3.6E-09	4.6E-09	5.0E-09	5.5E-09	8.2E-09	1.2E-08	1.5E-08
6.2E-09	2.6E-09	1.8E-09	3.0E-09	4.5E-09	4.2E-09	4.3E-09	4.7E-09	6.1E-09	3.9E-09	4.9E-09	5.3E-09	5.8E-09	8.7E-09	1.3E-08	1.6E-08
3.2E-09	1.4E-09	1.1E-09	1.6E-09	2.3E-09	2.2E-09	2.2E-09	2.4E-09	3.2E-09	2.0E-09	2.5E-09	2.7E-09	3.0E-09	4.5E-09	6.8E-09	8.0E-09
3.4E-09	1.4E-09	1.1E-09	1.7E-09	2.5E-09	2.3E-09	2.3E-09	2.6E-09	3.3E-09	2.1E-09	2.7E-09	2.9E-09	3.2E-09	4.8E-09	7.1E-09	8.4E-09
40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000
48.0 KM															
3.1E-09	1.9E-09	1.2E-09	2.5E-09	3.7E-09	3.1E-09	3.1E-09	3.8E-09	4.7E-09	2.8E-09	3.6E-09	3.9E-09	4.4E-09	6.5E-09	8.8E-09	1.2E-08
2.6E-09	9.3E-10	6.4E-10	1.3E-09	2.0E-09	1.6E-09	1.6E-09	2.0E-09	2.5E-09	1.5E-09	1.9E-09	2.0E-09	2.3E-09	3.4E-09	4.6E-09	6.2E-09
8.7E-12	2.0E-12	1.4E-12	3.3E-12	4.8E-12	4.8E-12	4.9E-12	8.0E-12	7.9E-12	3.9E-12	4.9E-12	5.0E-12	6.1E-12	7.0E-12	1.1E-11	2.5E-11
4.6E-09	1.6E-09	1.1E-09	2.3E-09	3.3E-09	2.8E-09	2.8E-09	3.5E-09	4.3E-09	2.6E-09	3.3E-09	3.6E-09	4.1E-09	5.9E-09	8.1E-09	1.1E-08
4.9E-09	1.7E-09	1.2E-09	2.4E-09	3.6E-09	3.0E-09	3.0E-09	3.7E-09	4.6E-09	2.7E-09	3.5E-09	3.8E-09	4.3E-09	6.3E-09	8.6E-09	1.2E-08
2.4E-09	8.3E-10	5.6E-10	1.2E-09	1.8E-09	1.5E-09	1.5E-09	1.8E-09	2.3E-09	1.3E-09	1.7E-09	1.9E-09	2.1E-09	3.1E-09	4.3E-09	5.7E-09
2.6E-09	9.0E-10	6.1E-10	1.3E-09	1.9E-09	1.6E-09	1.6E-09	1.9E-09	2.4E-09	1.4E-09	1.8E-09	2.0E-09	2.2E-09	3.2E-09	4.5E-09	6.0E-09
48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000
56.0 KM															
4.1E-09	1.2E-09	8.5E-10	2.1E-09	3.1E-09	2.3E-09	2.4E-09	3.1E-09	3.8E-09	2.2E-09	2.7E-09	2.9E-09	3.4E-09	5.0E-09	6.1E-09	9.3E-09
2.1E-09	6.3E-10	4.3E-10	1.1E-09	1.5E-09	1.2E-09	1.2E-09	1.5E-09	1.9E-09	1.1E-09	1.4E-09	1.5E-09	1.7E-09	2.5E-09	3.1E-09	4.7E-09
8.7E-12	2.0E-12	1.4E-12	3.3E-12	4.8E-12	4.8E-12	4.9E-12	8.0E-12	7.9E-12	3.9E-12	4.9E-12	5.0E-12	6.1E-12	7.0E-12	1.1E-11	2.5E-11
3.7E-09	1.1E-09	7.3E-10	1.8E-09	2.7E-09	2.1E-09	2.1E-09	2.8E-09	3.5E-09	1.9E-09	2.4E-09	2.6E-09	3.1E-09	4.5E-09	5.6E-09	8.5E-09
4.0E-09	1.2E-09	8.1E-10	2.0E-09	3.0E-09	2.2E-09	2.2E-09	3.0E-09	3.7E-09	2.1E-09	2.6E-09	2.8E-09	3.3E-09	4.7E-09	5.8E-09	9.0E-09
1.9E-09	5.5E-10	3.7E-10	9.2E-10	1.4E-09	1.0E-09	1.0E-09	1.3E-09	1.7E-09	8.6E-10	1.2E-09	1.3E-09	1.6E-09	2.3E-09	2.8E-09	4.3E-09
2.0E-09	6.0E-10	4.1E-10	1.0E-09	1.5E-09	1.1E-09	1.1E-09	1.3E-09	1.7E-09	9.0E-10	1.2E-09	1.3E-09	1.6E-09	2.3E-09	2.8E-09	4.3E-09
56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000
64.0 KM															
3.1E-09	9.2E-10	6.2E-10	1.4E-09	2.2E-09	1.7E-09	1.8E-09	2.4E-09	2.9E-09	1.7E-09	2.0E-09	2.2E-09	2.6E-09	4.0E-09	4.9E-09	7.2E-09
1.5E-09	4.4E-10	3.2E-10	8.6E-10	1.1E-09	8.1E-10	8.9E-10	1.2E-09	1.4E-09	8.1E-10	9.8E-10	1.2E-09	1.4E-09	1.9E-09	2.4E-09	3.5E-09
6.1E-12	1.4E-12	1.0E-12	1.5E-12	2.2E-12	2.2E-12	2.3E-12	4.2E-12	4.2E-12	1.9E-12	1.9E-12	2.3E-12	2.5E-12	3.3E-12	3.6E-12	5.3E-12
2.5E-09	7.9E-10	5.5E-10	1.2E-09	1.9E-09	1.5E-09	1.5E-09	2.1E-09	2.6E-09	1.5E-09	1.8E-09	2.1E-09	2.6E-09	3.6E-09	4.5E-09	6.7E-09
3.0E-09	8.8E-10	6.2E-10	1.3E-09	2.1E-09	1.6E-09	1.6E-09	2.3E-09	2.8E-09	1.6E-09	2.0E-09	2.3E-09	2.8E-09	3.7E-09	4.6E-09	7.0E-09
1.2E-09	3.8E-10	2.7E-10	5.7E-10	9.1E-10	7.1E-10	7.9E-10	1.0E-09	1.3E-09	7.1E-10	8.6E-10	1.0E-09	1.2E-09	1.6E-09	2.0E-09	3.2E-09
1.5E-09	4.2E-10	3.0E-10	6.3E-10	1.0E-09	7.8E-10	8.6E-10	1.1E-09	1.4E-09	7.8E-10	9.4E-10	1.1E-09	1.3E-09	1.7E-09	2.2E-09	3.1E-09
64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000

TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 0.00 CALMS LOWER LEV - 15.00
 KEY ENTRY 1 RELATIVE CONCENTRATION - K09 (S/M**3) ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)
 ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2) ENTRY 4 DECAYED K09 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 5 DECAYED K09 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 6 DEC+DPL K09 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 7 DEC+DPL K09 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 8 - DISTANCE IN METERS

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
72.0 KM															
2.4E-09	7.0E-10	5.2E-10	9.4E-10	1.6E-09	1.2E-09	1.4E-09	1.9E-09	2.3E-09	1.4E-09	1.5E-09	2.0E-09	2.4E-09	3.3E-09	4.0E-09	5.8E-09
1.1E-09	3.3E-10	2.4E-10	4.4E-10	7.5E-10	5.7E-10	6.7E-10	9.1E-10	1.1E-09	1.1E-09	6.3E-10	7.1E-10	9.2E-10	1.1E-09	1.9E-09	2.7E-09
4.3E-12	9.6E-13	4.5E-13	9.3E-13	1.6E-12	1.5E-12	2.5E-12	3.1E-12	3.0E-12	1.5E-12	1.6E-12	1.9E-12	2.6E-12	2.7E-12	3.7E-12	9.5E-12
2.1E-09	5.9E-10	4.3E-10	7.9E-10	1.4E-09	1.1E-09	1.3E-09	1.7E-09	2.1E-09	1.2E-09	1.3E-09	1.7E-09	2.1E-09	2.9E-09	3.6E-09	5.2E-09
2.3E-09	6.7E-10	4.9E-10	8.9E-10	1.5E-09	1.2E-09	1.4E-09	1.9E-09	2.3E-09	1.3E-09	1.5E-09	1.9E-09	2.3E-09	3.1E-09	3.9E-09	5.6E-09
9.8E-10	2.8E-10	2.0E-10	3.7E-10	4.4E-10	4.9E-10	5.9E-10	8.0E-10	9.6E-10	5.5E-10	6.3E-10	8.1E-10	1.0E-09	1.3E-09	1.7E-09	2.4E-09
1.1E-09	3.1E-10	2.2E-10	4.2E-10	7.2E-10	5.5E-10	6.4E-10	8.7E-10	1.0E-09	1.1E-09	6.9E-10	7.8E-10	1.0E-09	1.3E-09	1.8E-09	2.6E-09
72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000
80.0 KM															
2.0E-09	5.4E-10	4.4E-10	8.9E-10	1.2E-09	9.6E-10	1.2E-09	1.6E-09	1.9E-09	1.2E-09	1.2E-09	1.6E-09	2.1E-09	2.7E-09	3.4E-09	4.7E-09
8.9E-10	7.4E-10	2.0E-10	3.1E-10	5.6E-10	4.3E-10	5.4E-10	7.0E-10	8.4E-10	5.0E-10	5.5E-10	7.4E-10	9.3E-10	1.2E-09	1.5E-09	2.1E-09
3.3E-12	6.9E-13	3.5E-13	6.2E-13	1.1E-12	1.1E-12	1.9E-12	2.4E-12	2.2E-12	1.2E-12	1.2E-12	1.5E-12	2.0E-12	2.0E-12	3.1E-12	7.8E-12
1.7E-09	4.5E-10	3.6E-10	5.7E-10	1.0E-09	8.1E-10	1.0E-09	1.4E-09	1.6E-09	9.9E-10	1.0E-09	1.4E-09	1.8E-09	2.3E-09	3.0E-09	4.1E-09
1.9E-09	5.1E-10	4.2E-10	6.5E-10	1.2E-09	9.2E-10	1.1E-09	1.5E-09	1.8E-09	1.1E-09	1.2E-09	1.6E-09	2.0E-09	2.6E-09	3.2E-09	4.5E-09
7.7E-13	2.0E-10	1.6E-10	2.6E-10	4.7E-10	3.7E-10	4.7E-10	6.1E-10	7.3E-10	4.5E-10	4.7E-10	6.4E-10	8.1E-10	1.0E-09	1.3E-09	1.9E-09
5.5E-10	2.3E-10	1.9E-10	2.9E-10	5.3E-10	4.1E-10	5.2E-10	6.8E-10	8.1E-10	5.0E-10	5.2E-10	7.1E-10	8.9E-10	1.2E-09	1.5E-09	2.0E-09
80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000

TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 0.00 CALMS LOWER LEV - 15.00
 KEY ENTRY 1 RELATIVE CONCENTRATION - K09 (S/M**3) ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)
 ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2) ENTRY 4 DECAYED K09 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 5 DECAYED K09 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 6 DEC+DPL K09 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 7 DEC+DPL K09 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 8 - DISTANCE IN METERS

WCGS-ER(OLS)

TABLE 5.2-1 (continued)

AVERAGE METEOROLOGICAL RELATIVE CONCENTRATION ANALYSIS
DATA PERIOD 06/01/73 TO 03/04/80

Sheet 4 of 8

ANNUAL AVERAGE (GROUND)
SPECIAL PTS - 1/R CORRECTED
ON-SITE METEOROLOGY - 3 YEARS
DATE 23-NOV-81 TIME 18:21:29

WOLF CREEK GENERATING STATION
KANSAS GAS AND ELECTRIC CO.
BURLINGTON, KANSAS
DAMES AND MOORE JOB 7699-064-07

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
EXCLUSION BOUNDARY															
1 0E-04	1 1E-07	3 0E-07	7 3E-07	7 3E-07	8 1E-07	7 5E-07	8 4E-07	8 7E-07	7 7E-07	9 9E-07	1 0E-04	7 9E-07	1 3E-04	1 8E-04	1 9E-04
9 0E-07	4 6E-07	4 5E-07	6 6E-07	6 5E-07	7 2E-07	6 7E-07	7 5E-07	7 7E-07	6 9E-07	9 2E-07	7 0E-07	9 2E-07	1 3E-04	1 8E-04	1 9E-04
9 2E-09	3 5E-09	2 3E-09	3 9E-09	3 8E-09	5 0E-09	6 2E-09	6 4E-09	5 5E-09	4 1E-09	4 2E-09	5 2E-09	4 4E-09	6 0E-09	9 9E-09	1 6E-08
1 0E-04	5 1E-07	5 0E-07	7 3E-07	7 3E-07	8 0E-07	7 5E-07	8 4E-07	8 7E-07	7 7E-07	9 9E-07	1 0E-04	7 9E-07	1 3E-04	1 8E-04	1 9E-04
1 3E-04	5 1E-07	5 0E-07	7 3E-07	7 3E-07	8 0E-07	7 5E-07	8 4E-07	8 7E-07	7 7E-07	9 9E-07	1 0E-04	7 9E-07	1 3E-04	1 8E-04	1 9E-04
9 0E-07	4 6E-07	4 5E-07	6 6E-07	6 5E-07	7 2E-07	6 7E-07	7 5E-07	7 7E-07	6 9E-07	9 2E-07	7 0E-07	9 2E-07	1 3E-04	1 8E-04	1 9E-04
9 0E-07	4 6E-07	4 5E-07	6 6E-07	6 5E-07	7 2E-07	6 7E-07	7 5E-07	7 7E-07	6 9E-07	9 2E-07	7 0E-07	9 2E-07	1 3E-04	1 8E-04	1 9E-04
1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200

LOW POPULATION ZONE															
1 9E-07	9 2E-07	6 3E-08	1 0E-07	1 3E-07	1 4E-07	1 4E-07	1 3E-07	1 5E-07	1 2E-07	1 4E-07	1 4E-07	1 5E-07	2 3E-07	3 3E-07	3 3E-07
1 5E-07	7 4E-08	6 7E-08	8 3E-08	1 0E-07	1 1E-07	1 1E-07	1 1E-07	1 2E-07	9 9E-08	1 1E-07	1 1E-07	1 2E-07	2 3E-07	2 6E-07	2 6E-07
1 3E-09	4 9E-10	3 0E-10	4 2E-10	5 3E-10	6 7E-10	9 3E-10	8 2E-10	8 0E-10	5 2E-10	5 7E-10	5 5E-10	6 6E-10	8 1E-10	1 4E-09	2 1E-09
1 9E-07	9 1E-08	8 2E-08	1 0E-07	1 3E-07	1 3E-07	1 4E-07	1 3E-07	1 5E-07	1 2E-07	1 4E-07	1 4E-07	1 5E-07	2 3E-07	3 3E-07	3 3E-07
1 9E-07	9 1E-08	8 2E-08	1 0E-07	1 3E-07	1 3E-07	1 4E-07	1 3E-07	1 5E-07	1 2E-07	1 4E-07	1 4E-07	1 5E-07	2 3E-07	3 3E-07	3 3E-07
1 5E-07	7 4E-08	6 7E-08	8 3E-08	1 0E-07	1 1E-07	1 1E-07	1 1E-07	1 2E-07	9 9E-08	1 1E-07	1 1E-07	1 2E-07	2 3E-07	2 6E-07	2 6E-07
1 5E-07	7 4E-08	6 7E-08	8 3E-08	1 0E-07	1 1E-07	1 1E-07	1 1E-07	1 2E-07	9 9E-08	1 1E-07	1 1E-07	1 2E-07	2 3E-07	2 6E-07	2 6E-07
4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023

NEAREST RESIDENT															
1 4E-07	1 6E-07	1 3E-07	1 7E-07	2 1E-07	3 1E-07	1 1E-07	9 1E-08	1 5E-07	1 6E-07	1 2E-07	1 6E-07	1 2E-07	5 7E-07	3 9E-07	7 9E-07
1 1E-07	1 3E-07	1 1E-07	1 4E-07	1 8E-07	2 6E-07	8 3E-08	7 0E-08	1 2E-07	1 3E-07	9 9E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07
9 1E-10	9 5E-10	5 0E-10	7 7E-10	9 9E-10	1 7E-09	6 6E-10	5 0E-10	8 0E-10	6 9E-10	5 0E-10	7 2E-10	5 1E-10	2 4E-09	1 6E-09	5 9E-09
1 4E-07	1 6E-07	1 3E-07	1 7E-07	2 1E-07	3 1E-07	1 1E-07	9 1E-08	1 5E-07	1 6E-07	1 2E-07	1 6E-07	1 2E-07	5 7E-07	3 9E-07	7 9E-07
1 4E-07	1 6E-07	1 3E-07	1 7E-07	2 1E-07	3 1E-07	1 1E-07	9 1E-08	1 5E-07	1 6E-07	1 2E-07	1 6E-07	1 2E-07	5 7E-07	3 9E-07	7 9E-07
1 1E-07	1 3E-07	1 1E-07	1 4E-07	1 8E-07	2 6E-07	8 3E-08	7 0E-08	1 2E-07	1 3E-07	9 9E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07
1 1E-07	1 3E-07	1 1E-07	1 4E-07	1 8E-07	2 6E-07	8 3E-08	7 0E-08	1 2E-07	1 3E-07	9 9E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07
4908	2816	3138	2816	2735	2333	4627	5632	4023	3379	4344	3540	4666	2092	3540	2172

NEAREST VEGETABLE															
1 1E-07	1 2E-07	1 1E-07	1 7E-07	2 1E-07	3 1E-07	9 8E-08	9 1E-08	1 5E-07	9 7E-08	1 2E-07	1 6E-07	1 2E-07	5 1E-07	3 9E-07	7 9E-07
9 5E-08	9 4E-08	8 8E-08	1 4E-07	1 8E-07	2 6E-07	7 6E-08	7 0E-08	1 2E-07	9 6E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07	7 9E-07
6 9E-10	6 6E-10	4 0E-10	7 7E-10	9 9E-10	1 7E-09	6 6E-10	5 0E-10	8 0E-10	6 9E-10	5 0E-10	7 2E-10	5 1E-10	2 4E-09	1 6E-09	5 9E-09
1 1E-07	1 3E-07	1 1E-07	1 4E-07	1 8E-07	2 6E-07	8 3E-08	7 0E-08	1 2E-07	1 3E-07	9 9E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07
1 1E-07	1 3E-07	1 1E-07	1 4E-07	1 8E-07	2 6E-07	8 3E-08	7 0E-08	1 2E-07	1 3E-07	9 9E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07
9 4E-08	9 4E-08	8 8E-08	1 4E-07	1 8E-07	2 6E-07	7 6E-08	7 0E-08	1 2E-07	9 6E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07	7 9E-07
9 4E-08	9 4E-08	8 8E-08	1 4E-07	1 8E-07	2 6E-07	7 6E-08	7 0E-08	1 2E-07	9 6E-08	1 4E-07	9 7E-08	4 9E-07	3 1E-07	6 7E-07	7 9E-07
3792	3379	3540	2816	2735	2333	5149	5632	7401	4827	4344	3540	4666	2253	3620	2172

TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 0.00 CALMS LOWER LEV - 15.00
KEY ENTRY 1 RELATIVE CONCENTRATION - X00 (S/M**3) ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)
ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2) ENTRY 4 DECAYED X00 (S/M**3) - HALF LIFE 2.26 DAYS
ENTRY 5 DECAYED X00 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 6 DEC+DPL X00 (S/M**3) - HALF LIFE 2.26 DAYS
ENTRY 7 DEC+DPL X00 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 8 - DISTANCE IN METERS

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
NEAREST MEAT ANIMAL															
9 1E-07	5 0E-07	3 0E-07	3 2E-07	3 3E-07	4 0E-07	9 0E-08	9 9E-08	1 1E-07	2 5E-07	2 7E-07	2 7E-07	1 2E-07	2 5E-07	4 4E-07	1 0E-04
8 1E-07	4 5E-07	4 5E-07	2 7E-07	2 8E-07	3 5E-07	7 6E-08	7 7E-08	8 3E-08	2 1E-07	2 2E-07	2 2E-07	9 2E-08	2 0E-07	3 6E-07	9 0E-07
8 3E-09	3 7E-09	2 3E-09	1 5E-09	1 6E-09	2 4E-09	6 0E-10	5 6E-10	5 0E-10	1 2E-09	1 2E-09	1 2E-09	4 8E-10	9 0E-10	2 0E-09	8 1E-09
9 1E-07	5 0E-07	3 0E-07	3 2E-07	3 3E-07	4 0E-07	9 0E-08	9 9E-08	1 1E-07	2 5E-07	2 7E-07	2 7E-07	1 2E-07	2 5E-07	4 4E-07	1 0E-04
9 1E-07	5 0E-07	3 0E-07	3 2E-07	3 3E-07	4 0E-07	9 0E-08	9 9E-08	1 1E-07	2 5E-07	2 7E-07	2 7E-07	1 2E-07	2 5E-07	4 4E-07	1 0E-04
9 1E-07	4 5E-07	4 5E-07	2 7E-07	2 8E-07	3 5E-07	7 6E-08	7 7E-08	8 3E-08	2 1E-07	2 2E-07	2 2E-07	9 2E-08	2 0E-07	3 6E-07	9 0E-07
9 1E-07	4 5E-07	4 5E-07	2 7E-07	2 8E-07	3 5E-07	7 6E-08	7 7E-08	8 3E-08	2 1E-07	2 2E-07	2 2E-07	9 2E-08	2 0E-07	3 6E-07	9 0E-07
1287	1207	1207	1931	2011	1931	5149	5310	5310	2574	2414	2735	4827	3701	3218	1770

NEAREST DAIRY COW															
7 6E-08	6 9E-08		1 7E-07	3 0E-07	4 0E-07	7 1E-08				6 0E-08			1 5E-07	4 4E-07	
5 7E-08	5 4E-08		1 4E-07	2 8E-07	3 5E-07	5 4E-08				4 5E-08			1 1E-07	3 6E-07	
4 4E-10	3 2E-10	NONE	7 7E-10	1 6E-09	2 4E-09	4 0E-10	NONE	NONE	NONE	2 0E-10	NONE	NONE	4 6E-10	2 0E-09	NONE
7 6E-08	6 9E-08		1 7E-07	3 0E-07	4 0E-07	7 1E-08	IN	IN	IN	6 0E-08	IN	IN	1 5E-07	4 4E-07	IN
7 6E-08	6 9E-08	THIS	1 7E-07	3 0E-07	4 0E-07	7 1E-08	THIS	THIS	THIS	6 0E-08	THIS	THIS	1 5E-07	4 4E-07	THIS
3 6E-08	3 4E-08	SECTOR	1 4E-07	2 8E-07	3 5E-07	5 4E-08	SECTOR	SECTOR	SECTOR	4 5E-08	SECTOR	SECTOR	1 1E-07	3 6E-07	SECTOR
3 6E-08	3 4E-08		1 4E-07	2 8E-07	3 5E-07	5 4E-08				4 5E-08			1 1E-07	3 6E-07	
7562	4827		2011	2011	1931	5632				7562			5632	3218	

NEAREST PLANT BOUNDARY															
5 0E-07	2 3E-07	2 0E-07	3 2E-07	3 5E-07	4 3E-07	1 1E-07	9 9E-08	2 6E-07	2 5E-07	2 7E-07	2 4E-07	1 9E-07	2 2E-07	6 6E-07	1 1E-04
5 2E-07	2 3E-07	1 7E-07	2 7E-07	3 0E-07	3 7E-07	8 3E-08	7 7E-08	2 2E-07	2 1E-07	2 2E-07	2 0E-07	1 5E-07	1 7E-07	5 6E-07	9 2E-07
5 2E-09	1 6E-09	8 2E-10	1 5E-09	1 7E-09	2 5E-09	6 6E-10	5 6E-10	1 5E-09	1 2E-09	1 2E-09	1 2E-09	8 7E-10	7 5E-10	3 2E-09	8 6E-09
5 0E-07	2 3E-07	2 0E-07	3 2E-07	3 5E-07	4 3E-07	1 1E-07	9 9E-08	2 6E-07	2 5E-07	2 7E-07	2 4E-07	1 9E-07	2 2E-07	6 6E-07	1 1E-04
5 0E-07	2 3E-07	2 0E-07	3 2E-07	3 5E-07	4 3E-07	1 1E-07	9 9E-08	2 6E-07	2 5E-07	2 7E-07	2 4E-07	1 9E-07	2 2E-07	6 6E-07	1 1E-04
5 2E-07	2 3E-07	2 0E-07	3 2E-07	3 5E-07	4 3E-07	1 1E-07	9 9E-08	2 6E-07	2 5E-07	2 7E-07	2 4E-07	1 9E-07	2 2E-07	6 6E-07	1 1E-04
5 2E-07	2 3E-07	1 7E-07	2 7E-07	3 0E-07	3 7E-07	8 3E-08	7 7E-08	2 2E-07	2 1E-07	2 2E-07	2 0E-07	1 5E-07	1 7E-07	5 6E-07	9 2E-07
1754	2079	2363	1931	1931	1846	4827	5310	2767	2479	2414	2880	3379	4183	2349	1729

TABLE 5.2-1 (continued)

AVERAGE METEOROLOGICAL RELATIVE CONCENTRATION ANALYSIS
DATA PERIOD: 06/01/73 TO 03/04/80ANNUAL AVERAGE (FIXED MODE)
STANDARD PTS - T/R CORRECTED
ON-SITE METEOROLOGY - 3 YEARS
DATE 6-AUG-82 TIME 19:17:05WOLF CREEK GENERATING STATION
KANSAS GAS AND ELECTRIC CO.
BURLINGTON, KANSAS
DAMES AND MOORE JOB 7699-064-07

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
0.4 KM															
2 0E-06	1 1E-06	8 1E-07	8 9E-07	1 4E-06	1 8E-06	1 8E-06	1 9E-06	1 7E-06	1 1E-06	1 3E-06	1 8E-06	1 7E-06	2 2E-06	3 9E-06	3 3E-06
2 7E-06	1 0E-06	7 6E-07	8 5E-07	1 3E-06	1 7E-06	1 7E-06	1 8E-06	1 6E-06	1 1E-06	1 2E-06	1 7E-06	1 6E-06	2 1E-06	3 7E-06	3 0E-06
3 9E-06	1 3E-06	5 9E-07	7 3E-07	1 1E-06	1 8E-06	2 4E-06	2 1E-06	1 6E-06	7 9E-07	9 5E-07	1 1E-06	1 2E-06	1 2E-06	2 4E-06	6 0E-06
2 8E-06	1 1E-06	6 0E-07	8 9E-07	1 4E-06	1 8E-06	1 8E-06	1 9E-06	1 7E-06	1 1E-06	1 3E-06	1 8E-06	1 7E-06	2 2E-06	3 9E-06	3 3E-06
2 8E-06	1 1E-06	6 0E-07	8 9E-07	1 4E-06	1 8E-06	1 8E-06	1 9E-06	1 7E-06	1 1E-06	1 3E-06	1 8E-06	1 7E-06	2 2E-06	3 9E-06	3 3E-06
2 7E-06	1 0E-06	7 6E-07	8 5E-07	1 3E-06	1 7E-06	1 7E-06	1 8E-06	1 6E-06	1 1E-06	1 2E-06	1 7E-06	1 6E-06	2 1E-06	3 7E-06	3 0E-06
2 7E-06	1 0E-06	7 6E-07	8 5E-07	1 3E-06	1 7E-06	1 7E-06	1 8E-06	1 6E-06	1 1E-06	1 2E-06	1 7E-06	1 6E-06	2 1E-06	3 7E-06	3 0E-06
400.	400.	400.	400.	400.	400.	400.	400.	400.	400.	400.	400.	400.	400.	400.	400.
0.8 KM															
9 5E-07	3 8E-07	2 4E-07	3 1E-07	4 7E-07	3 3E-07	5 9E-07	4 3E-07	5 7E-07	3 8E-07	4 6E-07	5 6E-07	3 4E-07	7 6E-07	1 2E-06	1 8E-06
8 7E-07	3 5E-07	2 2E-07	2 8E-07	4 3E-07	3 8E-07	5 4E-07	3 8E-07	5 2E-07	3 5E-07	4 2E-07	5 1E-07	4 9E-07	6 9E-07	1 1E-06	1 7E-06
1 5E-06	3 5E-06	2 1E-06	3 0E-06	4 4E-06	7 3E-06	8 5E-06	8 0E-06	4 4E-06	3 2E-06	4 0E-06	4 2E-06	4 4E-06	4 8E-06	8 8E-06	2 3E-06
9 5E-07	3 8E-07	2 4E-07	3 1E-07	4 7E-07	3 3E-07	5 9E-07	4 3E-07	5 7E-07	3 8E-07	4 6E-07	5 6E-07	3 4E-07	7 6E-07	1 2E-06	1 8E-06
9 5E-07	3 8E-07	2 4E-07	3 1E-07	4 7E-07	3 3E-07	5 9E-07	4 3E-07	5 7E-07	3 8E-07	4 6E-07	5 6E-07	3 4E-07	7 6E-07	1 2E-06	1 8E-06
8 7E-07	3 5E-07	2 2E-07	2 8E-07	4 3E-07	3 8E-07	5 4E-07	3 8E-07	5 2E-07	3 5E-07	4 2E-07	5 1E-07	4 9E-07	6 9E-07	1 1E-06	1 7E-06
8 7E-07	3 5E-07	2 2E-07	2 8E-07	4 3E-07	3 8E-07	5 4E-07	3 8E-07	5 2E-07	3 5E-07	4 2E-07	5 1E-07	4 9E-07	6 9E-07	1 1E-06	1 7E-06
800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
1.2 KM															
5 1E-07	2 1E-07	1 3E-07	1 7E-07	2 4E-07	3 4E-07	3 1E-07	3 4E-07	3 1E-07	2 0E-07	2 6E-07	2 9E-07	2 8E-07	4 1E-07	6 6E-07	9 2E-07
4 6E-07	1 9E-07	1 1E-07	1 5E-07	2 2E-07	3 1E-07	2 8E-07	3 1E-07	2 8E-07	1 8E-07	2 4E-07	2 6E-07	2 5E-07	3 6E-07	5 9E-07	8 3E-07
7 9E-07	3 0E-07	1 1E-07	1 7E-07	2 3E-07	4 0E-07	4 5E-07	4 3E-07	3 5E-07	1 8E-07	2 4E-07	2 3E-07	2 3E-07	2 7E-07	4 7E-07	1 1E-06
5 1E-07	2 1E-07	1 3E-07	1 7E-07	2 4E-07	3 4E-07	3 1E-07	3 4E-07	3 1E-07	2 0E-07	2 6E-07	2 9E-07	2 8E-07	4 1E-07	6 6E-07	9 2E-07
5 1E-07	2 1E-07	1 3E-07	1 7E-07	2 4E-07	3 4E-07	3 1E-07	3 4E-07	3 1E-07	2 0E-07	2 6E-07	2 9E-07	2 8E-07	4 1E-07	6 6E-07	9 2E-07
4 6E-07	1 9E-07	1 1E-07	1 5E-07	2 2E-07	3 1E-07	2 8E-07	3 1E-07	2 8E-07	1 8E-07	2 4E-07	2 6E-07	2 5E-07	3 6E-07	5 9E-07	8 3E-07
4 6E-07	1 9E-07	1 1E-07	1 5E-07	2 2E-07	3 1E-07	2 8E-07	3 1E-07	2 8E-07	1 8E-07	2 4E-07	2 6E-07	2 5E-07	3 6E-07	5 9E-07	8 3E-07
1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
1.6 KM															
3 4E-07	1 4E-07	8 7E-08	1 2E-07	1 7E-07	2 3E-07	2 1E-07	2 2E-07	2 1E-07	1 5E-07	1 7E-07	2 0E-07	1 9E-07	2 7E-07	4 5E-07	6 4E-07
4 6E-07	1 3E-07	7 7E-08	1 1E-07	1 5E-07	2 0E-07	1 9E-07	2 0E-07	1 9E-07	1 3E-07	1 5E-07	1 8E-07	1 6E-07	2 4E-07	3 9E-07	5 6E-07
5 0E-09	1 9E-09	7 6E-10	1 1E-09	1 5E-09	2 6E-09	2 9E-09	2 7E-09	2 3E-09	1 3E-09	1 5E-09	1 5E-09	1 5E-09	1 7E-09	3 1E-09	7 5E-09
3 4E-07	1 4E-07	8 7E-08	1 2E-07	1 7E-07	2 3E-07	2 1E-07	2 2E-07	2 1E-07	1 5E-07	1 7E-07	2 0E-07	1 9E-07	2 7E-07	4 5E-07	6 4E-07
3 4E-07	1 4E-07	8 7E-08	1 2E-07	1 7E-07	2 3E-07	2 1E-07	2 2E-07	2 1E-07	1 5E-07	1 7E-07	2 0E-07	1 9E-07	2 7E-07	4 5E-07	6 4E-07
3 0E-07	1 3E-07	7 7E-08	1 0E-07	1 5E-07	2 0E-07	1 9E-07	2 0E-07	1 9E-07	1 3E-07	1 5E-07	1 8E-07	1 6E-07	2 4E-07	3 9E-07	5 6E-07
3 0E-07	1 3E-07	7 7E-08	1 0E-07	1 5E-07	2 0E-07	1 9E-07	2 0E-07	1 9E-07	1 3E-07	1 5E-07	1 8E-07	1 6E-07	2 4E-07	3 9E-07	5 6E-07
1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 10.00 CALMS LOWER LEV - 1.10															
KEY ENTRY 1 RELATIVE CONCENTRATION - 100 (S/M**3) ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)															
ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2) ENTRY 4 DECAYED 100 (S/M**3) - HALF LIFE 8.00 DAYS															
ENTRY 5 DECAYED 100 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 6 DEC+DPL 100 (S/M**3) - HALF LIFE 2.26 DAYS															
ENTRY 7 DEC+DPL 100 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 8 - DISTANCE IN METERS															
AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
2.4 KM															
1 9E-07	9 0E-08	5 5E-08	7 0E-08	1 0E-07	1 3E-07	1 2E-07	1 2E-07	1 2E-07	8 8E-08	9 5E-08	1 2E-07	1 0E-07	1 5E-07	2 6E-07	3 7E-07
1 7E-07	8 0E-08	4 8E-08	6 1E-08	8 9E-08	1 1E-07	1 1E-07	1 1E-07	1 0E-07	7 8E-08	8 4E-08	1 0E-07	8 9E-08	1 3E-07	2 3E-07	3 2E-07
2 4E-09	1 0E-09	4 1E-10	6 0E-10	8 4E-10	1 3E-09	1 5E-09	1 4E-09	1 2E-09	6 8E-10	7 4E-10	8 0E-10	7 5E-10	1 0E-09	1 7E-09	3 8E-09
1 9E-07	9 0E-08	5 5E-08	7 0E-08	1 0E-07	1 3E-07	1 2E-07	1 2E-07	1 2E-07	8 8E-08	9 5E-08	1 2E-07	1 0E-07	1 5E-07	2 6E-07	3 7E-07
1 9E-07	9 0E-08	5 5E-08	7 0E-08	1 0E-07	1 3E-07	1 2E-07	1 2E-07	1 2E-07	8 8E-08	9 5E-08	1 2E-07	1 0E-07	1 5E-07	2 6E-07	3 7E-07
1 7E-07	8 0E-08	4 8E-08	6 1E-08	8 9E-08	1 1E-07	1 1E-07	1 1E-07	1 0E-07	7 8E-08	8 4E-08	1 0E-07	8 9E-08	1 3E-07	2 3E-07	3 2E-07
1 7E-07	8 0E-08	4 8E-08	6 1E-08	8 9E-08	1 1E-07	1 1E-07	1 1E-07	1 0E-07	7 8E-08	8 4E-08	1 0E-07	8 9E-08	1 3E-07	2 3E-07	3 2E-07
2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
3.2 KM															
1 4E-07	5 8E-08	3 6E-08	5 8E-08	7 0E-08	8 5E-08	8 6E-08	8 9E-08	9 0E-08	6 3E-08	6 8E-08	8 0E-08	7 3E-08	1 1E-07	1 8E-07	2 6E-07
1 2E-07	5 0E-08	3 1E-08	5 0E-08	5 9E-08	7 2E-08	7 4E-08	7 6E-08	7 7E-08	5 4E-08	5 9E-08	6 8E-08	6 0E-08	9 0E-08	1 5E-07	2 5E-07
1 0E-09	3 7E-10	2 5E-10	4 5E-10	5 2E-10	8 0E-10	9 8E-10	1 1E-10	8 3E-10	4 5E-10	4 9E-10	5 0E-10	5 8E-10	1 0E-09	2 1E-09	2 5E-09
1 4E-07	5 8E-08	3 6E-08	5 8E-08	7 0E-08	8 5E-08	8 6E-08	8 9E-08	9 0E-08	6 3E-08	6 8E-08	8 0E-08	7 3E-08	1 1E-07	1 8E-07	2 6E-07
1 4E-07	5 8E-08	3 6E-08	5 8E-08	7 0E-08	8 5E-08	8 6E-08	8 9E-08	9 0E-08	6 3E-08	6 8E-08	8 0E-08	7 3E-08	1 1E-07	1 8E-07	2 6E-07
1 2E-07	5 0E-08	3 1E-08	5 0E-08	5 9E-08	7 2E-08	7 4E-08	7 6E-08	7 7E-08	5 4E-08	5 9E-08	6 8E-08	6 0E-08	9 0E-08	1 5E-07	2 5E-07
1 2E-07	5 0E-08	3 1E-08	5 0E-08	5 9E-08	7 2E-08	7 4E-08	7 6E-08	7 7E-08	5 4E-08	5 9E-08	6 8E-08	6 0E-08	9 0E-08	1 5E-07	2 5E-07
3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200
4.0 KM															
9 9E-08	4 1E-08	2 5E-08	5 0E-08	5 2E-08	6 2E-08	6 6E-08	7 1E-08	7 1E-08	4 9E-08	5 4E-08	6 0E-08	5 5E-08	8 2E-08	1 4E-07	1 9E-07
8 4E-08	3 5E-08	2 1E-08	4 2E-08	4 4E-08	5 2E-08	5 5E-08	5 9E-08	6 0E-08	4 3E-08	4 6E-08	5 1E-08	4 7E-08	6 8E-08	1 2E-07	1 6E-07

TABLE 5.2-1 (continued)

AVERAGE METEOROLOGICAL RELATIVE CONCENTRATION ANALYSIS
DATA PERIOD 06/01/73 TO 03/04/80ANNUAL AVERAGE (MIXED MODE)
STANDARD PTS. - T/R CORRECTED
ONSITE METEOROLOGY - 3 YEARS
DATE 6-AUG-82 TIME 19:17:05WOLF CREEK GENERATING STATION
KANSAS GAS AND ELECTRIC CO.
BURLINGTON, KANSAS
DAMES AND MOORE JOB 7699-064-07

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
40.0 KM															
4.7E-09	2.2E-09	1.5E-09	2.0E-09	2.8E-09	2.7E-09	3.0E-09	3.4E-09	4.3E-09	3.0E-09	2.8E-09	3.4E-09	3.4E-09	5.3E-09	8.0E-09	1.0E-08
3.3E-09	1.7E-09	1.1E-09	1.5E-09	1.9E-09	1.9E-09	2.0E-09	2.3E-09	3.0E-09	2.0E-09	2.0E-09	2.4E-09	2.4E-09	3.3E-09	5.1E-09	6.9E-09
1.7E-11	5.8E-12	2.8E-12	4.3E-12	5.9E-12	7.9E-12	1.1E-11	1.2E-11	1.2E-11	5.6E-12	6.2E-12	5.6E-12	6.7E-12	8.3E-12	1.4E-11	3.1E-11
4.5E-09	2.1E-09	1.4E-09	1.8E-09	2.6E-09	2.6E-09	2.9E-09	3.3E-09	4.1E-09	2.8E-09	2.7E-09	3.2E-09	3.2E-09	5.0E-09	7.6E-09	9.9E-09
4.6E-09	2.2E-09	1.5E-09	1.9E-09	2.7E-09	2.7E-09	3.0E-09	3.4E-09	4.2E-09	2.9E-09	2.8E-09	3.2E-09	3.2E-09	5.2E-09	7.9E-09	1.0E-08
3.2E-09	1.6E-09	1.1E-09	1.4E-09	1.8E-09	1.7E-09	1.9E-09	2.2E-09	2.8E-09	2.1E-09	1.9E-09	2.3E-09	2.2E-09	3.2E-09	4.8E-09	6.6E-09
3.3E-09	1.7E-09	1.1E-09	1.4E-09	1.9E-09	1.8E-09	2.0E-09	2.3E-09	2.9E-09	2.2E-09	2.0E-09	2.4E-09	2.3E-09	3.3E-09	5.0E-09	6.8E-09
40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000
48.0 KM															
3.5E-09	1.5E-09	1.1E-09	1.7E-09	2.2E-09	2.1E-09	2.3E-09	2.7E-09	3.4E-09	2.3E-09	2.1E-09	2.6E-09	2.6E-09	4.1E-09	5.7E-09	8.2E-09
2.4E-09	1.2E-09	8.2E-10	1.2E-09	1.5E-09	1.4E-09	1.5E-09	1.8E-09	2.3E-09	1.7E-09	1.5E-09	1.8E-09	1.8E-09	2.8E-09	3.5E-09	5.3E-09
1.1E-11	3.7E-12	1.7E-12	4.4E-12	4.3E-12	5.7E-12	8.0E-12	8.4E-12	9.2E-12	3.9E-12	4.0E-12	6.6E-12	4.8E-12	5.7E-12	1.1E-11	2.2E-11
3.3E-09	1.4E-09	1.0E-09	1.5E-09	2.1E-09	2.0E-09	2.2E-09	2.6E-09	3.2E-09	2.1E-09	2.0E-09	2.4E-09	2.3E-09	3.9E-09	5.3E-09	7.8E-09
3.4E-09	1.5E-09	1.1E-09	1.6E-09	2.2E-09	2.1E-09	2.3E-09	2.7E-09	3.4E-09	2.2E-09	2.1E-09	2.5E-09	2.6E-09	4.1E-09	5.6E-09	8.1E-09
2.3E-09	1.1E-09	7.7E-10	1.1E-09	1.4E-09	1.3E-09	1.4E-09	1.7E-09	2.2E-09	1.6E-09	1.4E-09	1.7E-09	1.7E-09	2.6E-09	3.3E-09	5.1E-09
2.4E-09	1.1E-09	8.1E-10	1.2E-09	1.5E-09	1.4E-09	1.5E-09	1.8E-09	2.3E-09	1.7E-09	1.5E-09	1.8E-09	1.8E-09	2.7E-09	3.4E-09	5.2E-09
48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000
56.0 KM															
2.7E-09	1.1E-09	8.4E-10	1.4E-09	1.8E-09	1.7E-09	1.9E-09	2.4E-09	2.8E-09	1.8E-09	1.6E-09	2.1E-09	2.2E-09	3.5E-09	4.3E-09	6.6E-09
1.9E-09	8.2E-10	6.2E-10	1.0E-09	1.2E-09	1.1E-09	1.2E-09	1.5E-09	1.9E-09	1.3E-09	1.2E-09	1.5E-09	1.4E-09	1.8E-09	2.6E-09	4.2E-09
9.1E-12	4.4E-12	1.3E-12	2.8E-12	3.3E-12	4.2E-12	6.1E-12	6.8E-12	7.2E-12	2.9E-12	3.1E-12	3.6E-12	3.8E-12	4.4E-12	6.3E-12	1.7E-11
2.6E-09	9.7E-10	7.8E-10	1.3E-09	1.7E-09	1.5E-09	1.8E-09	2.2E-09	2.6E-09	1.6E-09	1.4E-09	1.9E-09	2.0E-09	3.2E-09	4.0E-09	6.2E-09
2.6E-09	1.0E-09	8.2E-10	1.4E-09	1.8E-09	1.6E-09	1.9E-09	2.3E-09	2.8E-09	1.7E-09	1.6E-09	2.0E-09	2.1E-09	3.4E-09	4.2E-09	6.5E-09
1.7E-09	7.6E-10	5.7E-10	9.3E-10	1.1E-09	9.9E-10	1.1E-09	1.4E-09	1.7E-09	1.2E-09	1.1E-09	1.4E-09	1.3E-09	2.6E-09	3.3E-09	5.1E-09
1.8E-09	8.3E-10	6.1E-10	9.8E-10	1.2E-09	1.0E-09	1.2E-09	1.5E-09	1.8E-09	1.3E-09	1.1E-09	1.4E-09	1.4E-09	1.7E-09	2.5E-09	4.1E-09
56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000	56000
64.0 KM															
2.2E-09	8.8E-10	6.7E-10	1.1E-09	1.4E-09	1.3E-09	1.5E-09	1.7E-09	2.2E-09	1.4E-09	1.3E-09	1.6E-09	2.0E-09	2.8E-09	3.8E-09	5.3E-09
1.5E-09	6.5E-10	4.9E-10	7.6E-10	9.2E-10	8.4E-10	9.4E-10	1.1E-09	1.4E-09	1.1E-09	1.0E-09	1.2E-09	1.4E-09	1.8E-09	2.6E-09	3.3E-09
6.3E-12	1.9E-12	1.0E-12	2.0E-12	2.4E-12	3.4E-12	4.5E-12	4.6E-12	5.3E-12	2.3E-12	2.3E-12	2.6E-12	3.4E-12	3.8E-12	5.3E-12	1.3E-11
2.1E-09	8.0E-10	6.1E-10	9.8E-10	1.3E-09	1.4E-09	1.4E-09	1.4E-09	2.1E-09	1.3E-09	1.2E-09	1.5E-09	1.8E-09	2.6E-09	3.5E-09	4.9E-09
2.2E-09	8.5E-10	6.5E-10	1.1E-09	1.4E-09	1.3E-09	1.5E-09	1.7E-09	2.2E-09	1.4E-09	1.2E-09	1.6E-09	1.9E-09	2.7E-09	3.7E-09	5.2E-09
1.4E-09	6.1E-10	4.5E-10	6.9E-10	8.5E-10	8.6E-10	9.5E-10	1.0E-09	1.3E-09	9.5E-10	5.7E-10	7.3E-10	1.2E-09	1.2E-09	2.1E-09	3.1E-09
1.5E-09	6.5E-10	4.9E-10	7.6E-10	9.2E-10	8.4E-10	9.4E-10	1.1E-09	1.4E-09	1.1E-09	1.0E-09	1.2E-09	1.4E-09	1.8E-09	2.6E-09	3.3E-09
64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000	64000

TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 10.00 CALMS LOWER LEV - 1.10
 KEY ENTRY 1 RELATIVE CONCENTRATION - 100 (S/M**3) ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)
 ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2) ENTRY 4 DECAYED 100 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 5 DECAYED 100 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 6 DEC+DPL 100 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 7 DEC+DPL 100 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 8 - DISTANCE IN METERS

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
72.0 KM															
1.5E-09	7.6E-10	5.8E-10	9.0E-10	1.2E-09	1.4E-09	1.2E-09	1.4E-09	1.7E-09	1.2E-09	1.1E-09	1.3E-09	1.8E-09	2.3E-09	3.4E-09	4.4E-09
1.2E-09	5.7E-10	4.2E-10	6.2E-10	7.7E-10	8.6E-10	7.6E-10	8.5E-10	1.1E-09	8.4E-10	5.1E-10	6.2E-10	1.2E-09	1.1E-09	1.7E-09	2.7E-09
4.9E-12	1.6E-12	8.4E-13	1.6E-12	2.0E-12	3.0E-12	3.4E-12	3.4E-12	3.9E-12	1.8E-12	1.8E-12	2.0E-12	3.0E-12	2.9E-12	5.7E-12	1.0E-11
1.7E-09	6.9E-10	5.2E-10	8.0E-10	1.1E-09	1.2E-09	1.1E-09	1.2E-09	1.6E-09	1.0E-09	9.8E-10	1.2E-09	1.7E-09	2.1E-09	3.1E-09	4.1E-09
1.8E-09	7.4E-10	5.6E-10	8.7E-10	1.2E-09	1.3E-09	1.2E-09	1.3E-09	1.7E-09	1.1E-09	1.1E-09	1.3E-09	1.8E-09	2.3E-09	3.4E-09	4.4E-09
1.1E-09	5.1E-10	3.8E-10	5.6E-10	7.1E-10	7.7E-10	6.9E-10	7.7E-10	9.9E-10	7.4E-10	4.6E-10	5.6E-10	1.1E-09	9.9E-10	1.6E-09	2.5E-09
2.2E-09	5.5E-10	4.1E-10	6.0E-10	7.5E-10	8.3E-10	7.4E-10	8.2E-10	1.1E-09	8.1E-10	4.9E-10	6.0E-10	1.2E-09	1.1E-09	1.7E-09	2.6E-09
72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000	72000
80.0 KM															
1.6E-09	7.0E-10	4.7E-10	6.9E-10	9.7E-10	1.3E-09	1.0E-09	1.1E-09	1.4E-09	9.8E-10	9.3E-10	1.1E-09	1.6E-09	2.0E-09	3.1E-09	3.7E-09
1.3E-09	5.1E-10	3.8E-10	5.6E-10	7.1E-10	7.7E-10	6.9E-10	7.7E-10	9.9E-10	7.4E-10	4.6E-10	5.6E-10	1.1E-09	9.9E-10	1.6E-09	2.5E-09
4.1E-12	1.4E-12	8.6E-13	1.2E-12	1.6E-12	2.6E-12	2.8E-12	2.6E-12	3.0E-12	1.5E-12	1.4E-12	1.6E-12	2.3E-12	2.3E-12	4.4E-12	8.0E-12
1.5E-09	6.2E-10	4.5E-10	6.7E-10	9.4E-10	1.1E-09	9.4E-10	9.8E-10	1.2E-09	8.6E-10	8.2E-10	1.0E-09	1.5E-09	1.8E-09	2.8E-09	3.4E-09
1.6E-09	7.0E-10	4.7E-10	6.9E-10	9.7E-10	1.3E-09	1.0E-09	1.1E-09	1.4E-09	9.8E-10	9.3E-10	1.1E-09	1.6E-09	2.0E-09	3.1E-09	3.7E-09
9.4E-10	4.6E-10	3.0E-10	4.2E-10	5.6E-10	6.9E-10	5.7E-10	5.9E-10	7.7E-10	6.1E-10	3.7E-10	4.6E-10	8.1E-10	1.3E-09	2.0E-09	2.6E-09
1.3E-09	5.1E-10	3.8E-10	5.6E-10	7.1E-10	7.7E-10	6.9E-10	7.7E-10	9.9E-10	7.4E-10	4.6E-10	5.6E-10	1.1E-09	9.9E-10	1.6E-09	2.5E-09
80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000	80000

TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 10.00 CALMS LOWER LEV - 1.10
 KEY ENTRY 1 RELATIVE CONCENTRATION - 100 (S/M**3) ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)
 ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2) ENTRY 4 DECAYED 100 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 5 DECAYED 100 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 6 DEC+DPL 100 (S/M**3) - HALF LIFE 2.26 DAYS
 ENTRY 7 DEC+DPL 100 (S/M**3) - HALF LIFE 8.00 DAYS ENTRY 8 - DISTANCE IN METERS

WCCS-ER(OLS)

TABLE 5.2-1 (continued)

Sheet 8 of 8

AVERAGE METEOROLOGICAL RELATIVE CONCENTRATION ANALYSIS
DATA PERIOD : 06/01/73 TO 03/04/80ANNUAL AVERAGE (MIXED MODE)
SPECIAL PTS. - T/R CORRECTED
ON-SITE METEOROLOGY - 3 YEARS
DATE 8-AUG-82 TIME 17:45:10WOLF CREEK GENERATING STATION
KANSAS GAS AND ELECTRIC CO.
BURLINGTON, KANSAS
DAMES AND MOORE JOB 7699-064-07

AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
EXCLUSION BOUNDARY															
5 1E-07	2 1E-07	1 3E-07	1 7E-07	2 4E-07	3 4E-07	3 1E-07	3 4E-07	3 1E-07	2 0E-07	2 4E-07	2 9E-07	2 9E-07	4 1E-07	6 4E-07	9 2E-07
4 4E-07	1 9E-07	1 1E-07	1 5E-07	2 2E-07	3 1E-07	2 8E-07	3 1E-07	2 8E-07	1 8E-07	2 4E-07	2 4E-07	2 5E-07	3 4E-07	3 9E-07	8 3E-07
7 9E-09	3 0E-09	1 1E-09	1 7E-09	2 3E-09	4 0E-09	4 3E-09	4 3E-09	3 5E-09	1 8E-09	2 4E-09	2 3E-09	2 3E-09	2 7E-09	4 7E-09	1 1E-08
5 1E-07	2 1E-07	1 3E-07	1 7E-07	2 4E-07	3 4E-07	3 1E-07	3 4E-07	3 1E-07	2 0E-07	2 4E-07	2 9E-07	2 9E-07	4 1E-07	6 4E-07	9 2E-07
5 1E-07	2 1E-07	1 3E-07	1 7E-07	2 4E-07	3 4E-07	3 1E-07	3 4E-07	3 1E-07	2 0E-07	2 4E-07	2 9E-07	2 9E-07	4 1E-07	6 4E-07	9 2E-07
4 4E-07	1 9E-07	1 1E-07	1 5E-07	2 2E-07	3 1E-07	2 8E-07	3 1E-07	2 8E-07	1 8E-07	2 4E-07	2 4E-07	2 5E-07	3 4E-07	3 9E-07	8 3E-07
4 4E-07	1 9E-07	1 1E-07	1 5E-07	2 2E-07	3 1E-07	2 8E-07	3 1E-07	2 8E-07	1 8E-07	2 4E-07	2 4E-07	2 5E-07	3 4E-07	3 9E-07	8 3E-07
1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
LOW POPULATION ZONE															
1 0E-07	4 0E-08	2 4E-08	4 9E-08	3 1E-08	6 1E-08	6 4E-08	7 1E-08	7 0E-08	4 9E-08	3 3E-08	3 9E-08	3 4E-08	8 1E-08	1 4E-07	1 9E-07
8 4E-08	3 5E-08	2 2E-08	4 1E-08	4 3E-08	5 1E-08	5 5E-08	6 0E-08	5 9E-08	4 2E-08	4 5E-08	3 0E-08	4 7E-08	6 8E-08	1 1E-07	1 6E-07
1 0E-09	3 4E-10	1 4E-10	3 4E-10	3 5E-10	5 2E-10	6 8E-10	6 4E-10	5 9E-10	3 1E-10	3 4E-10	3 4E-10	3 4E-10	4 0E-10	7 2E-10	1 6E-09
9 9E-07	4 0E-08	2 4E-08	4 9E-08	3 1E-08	6 1E-08	6 4E-08	7 1E-08	7 0E-08	4 9E-08	3 3E-08	3 9E-08	3 4E-08	8 1E-08	1 4E-07	1 9E-07
1 0E-07	4 0E-08	2 4E-08	4 9E-08	3 1E-08	6 1E-08	6 4E-08	7 1E-08	7 0E-08	4 9E-08	3 3E-08	3 9E-08	3 4E-08	8 1E-08	1 4E-07	1 9E-07
8 4E-08	3 5E-08	2 2E-08	4 1E-08	4 3E-08	5 1E-08	5 5E-08	6 0E-08	5 9E-08	4 2E-08	4 5E-08	3 0E-08	4 7E-08	6 8E-08	1 1E-07	1 6E-07
8 4E-08	3 5E-08	2 2E-08	4 1E-08	4 3E-08	5 1E-08	5 5E-08	6 0E-08	5 9E-08	4 2E-08	4 5E-08	3 0E-08	4 7E-08	6 8E-08	1 1E-07	1 6E-07
4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023	4023
NEAREST RESIDENT															
7 7E-08	7 1E-08	3 7E-08	6 4E-08	8 7E-08	1 4E-07	5 2E-08	4 6E-08	7 0E-08	5 9E-08	4 8E-08	7 0E-08	4 7E-08	1 8E-07	1 7E-07	4 2E-07
6 4E-08	6 2E-08	3 2E-08	5 5E-08	7 5E-08	1 2E-07	4 3E-08	3 7E-08	5 9E-08	5 1E-08	4 1E-08	5 9E-08	3 9E-08	1 4E-07	1 4E-07	3 7E-07
7 4E-10	7 7E-10	2 4E-10	5 2E-10	6 8E-10	1 4E-09	5 0E-10	3 7E-10	5 9E-10	4 0E-10	3 0E-10	4 2E-10	2 7E-10	1 1E-09	9 1E-10	4 5E-09
7 4E-10	7 7E-10	2 4E-10	5 2E-10	6 8E-10	1 4E-09	5 0E-10	3 7E-10	5 9E-10	4 0E-10	3 0E-10	4 2E-10	2 7E-10	1 1E-09	9 1E-10	4 5E-09
7 4E-10	7 7E-10	2 4E-10	5 2E-10	6 8E-10	1 4E-09	5 0E-10	3 7E-10	5 9E-10	4 0E-10	3 0E-10	4 2E-10	2 7E-10	1 1E-09	9 1E-10	4 5E-09
7 4E-10	7 7E-10	2 4E-10	5 2E-10	6 8E-10	1 4E-09	5 0E-10	3 7E-10	5 9E-10	4 0E-10	3 0E-10	4 2E-10	2 7E-10	1 1E-09	9 1E-10	4 5E-09
6 3E-08	6 1E-08	3 2E-08	5 5E-08	7 5E-08	1 2E-07	4 3E-08	3 7E-08	5 9E-08	5 1E-08	4 1E-08	5 9E-08	3 9E-08	1 4E-07	1 4E-07	3 7E-07
6 3E-08	6 1E-08	3 2E-08	5 5E-08	7 5E-08	1 2E-07	4 3E-08	3 7E-08	5 9E-08	5 1E-08	4 1E-08	5 9E-08	3 9E-08	1 4E-07	1 4E-07	3 7E-07
4988	2816	3138	2816	2735	2333	4827	5632	4023	3379	4344	3540	4666	2092	3540	2172
NEAREST VEGETABLE															
6 3E-08	5 3E-08	3 0E-08	4 4E-08	8 7E-08	1 4E-07	4 8E-08	4 6E-08	2 9E-08	4 1E-08	4 8E-08	7 0E-08	4 7E-08	1 4E-07	1 6E-07	4 2E-07
5 2E-08	4 6E-08	2 4E-08	5 5E-08	7 5E-08	1 2E-07	4 3E-08	3 7E-08	2 4E-08	3 5E-08	4 1E-08	5 9E-08	3 9E-08	1 4E-07	1 3E-07	3 7E-07
5 4E-10	3 4E-10	2 0E-10	3 2E-10	6 8E-10	1 4E-09	4 6E-10	3 7E-10	1 9E-10	2 4E-10	3 0E-10	4 2E-10	2 7E-10	9 8E-10	8 6E-10	4 5E-09
6 2E-08	5 3E-08	3 0E-08	4 4E-08	8 7E-08	1 4E-07	4 8E-08	4 6E-08	2 9E-08	4 1E-08	4 8E-08	7 0E-08	4 7E-08	1 4E-07	1 6E-07	4 2E-07
6 2E-08	5 3E-08	3 0E-08	4 4E-08	8 7E-08	1 4E-07	4 8E-08	4 6E-08	2 9E-08	4 1E-08	4 8E-08	7 0E-08	4 7E-08	1 4E-07	1 6E-07	4 2E-07
5 2E-08	4 6E-08	2 4E-08	5 5E-08	7 5E-08	1 2E-07	4 3E-08	3 7E-08	2 4E-08	3 5E-08	4 1E-08	5 9E-08	3 9E-08	1 4E-07	1 3E-07	3 7E-07
5 2E-08	4 6E-08	2 4E-08	5 5E-08	7 5E-08	1 2E-07	4 3E-08	3 7E-08	2 4E-08	3 5E-08	4 1E-08	5 9E-08	3 9E-08	1 4E-07	1 3E-07	3 7E-07
7792	3379	3540	2816	2735	2333	5149	5632	7401	4827	4344	3540	4666	2253	3620	2172
TOTAL OBS - 26304 TOTAL INV OBS - 1747 CALMS UPPER LEVEL - 10.00 CALMS LOWER LEV - 1.10															
KEY ENTRY 1 RELATIVE CONCENTRATION - 100 (S/M**3)								ENTRY 2 DEPLETED RELATIVE CONCENTRATION (S/M**3)							
ENTRY 3 RELATIVE DEPOSITION RATE (1/M**2)								ENTRY 4 DECAYED 100 (S/M**3) - HALF LIFE 2.26 DAYS							
ENTRY 5 DECAYED 100 (S/M**3) - HALF LIFE 8.00 DAYS								ENTRY 6 DECAYED 100 (S/M**3) - HALF LIFE 2.26 DAYS							
ENTRY 7 DECAYED 100 (S/M**3) - HALF LIFE 8.00 DAYS								ENTRY 8 - DISTANCE IN METERS							
AFFECTED SECTORS															
NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
NEAREST BEAT ANIMAL															
4 5E-07	2 1E-07	1 2E-07	9 3E-08	1 3E-07	1 7E-07	4 8E-08	5 0E-08	4 7E-08	8 1E-08	9 5E-08	9 8E-08	4 5E-08	8 9E-08	1 8E-07	5 4E-07
4 0E-07	1 9E-07	1 1E-07	8 2E-08	1 1E-07	1 5E-07	4 0E-08	4 1E-08	3 9E-08	7 1E-08	8 3E-08	8 4E-08	3 7E-08	7 4E-08	1 5E-07	4 9E-07
7 0E-09	3 0E-09	1 1E-09	8 6E-10	1 1E-09	1 8E-09	4 6E-10	4 1E-10	3 5E-10	6 1E-10	7 4E-10	6 4E-10	2 5E-10	4 5E-10	1 0E-09	6 4E-09
4 5E-07	2 0E-07	1 2E-07	9 3E-08	1 3E-07	1 7E-07	4 8E-08	5 0E-08	4 7E-08	8 1E-08	9 5E-08	9 8E-08	4 5E-08	8 9E-08	1 8E-07	5 4E-07
4 5E-07	2 0E-07	1 2E-07	9 3E-08	1 3E-07	1 7E-07	4 8E-08	5 0E-08	4 7E-08	8 1E-08	9 5E-08	9 8E-08	4 5E-08	8 9E-08	1 8E-07	5 4E-07
4 0E-07	1 9E-07	1 1E-07	8 2E-08	1 1E-07	1 5E-07	4 0E-08	4 1E-08	3 9E-08	7 1E-08	8 3E-08	8 4E-08	3 7E-08	7 4E-08	1 5E-07	4 9E-07
4 0E-07	1 9E-07	1 1E-07	8 2E-08	1 1E-07	1 5E-07	4 0E-08	4 1E-08	3 9E-08	7 1E-08	8 3E-08	8 4E-08	3 7E-08	7 4E-08	1 5E-07	4 9E-07
1287	1207	1207	1931	2011	1931	5149	5310	5310	2574	2414	2735	4827	3701	3218	1770
NEAREST DAIRY COW															
4 4E-08	3 2E-08		4 4E-08	1 3E-07	1 7E-07	3 6E-08				2 7E-08			6 0E-08	1 8E-07	
3 9E-08	2 7E-08		5 5E-08	1 1E-07	1 5E-07	2 9E-08				2 2E-08			4 8E-08	1 5E-07	
3 7E-10	2 6E-10	NONE	5 2E-10	1 1E-09	1 8E-09	3 1E-10	NONE	NONE	NONE	1 3E-10	NONE	NONE	2 5E-10	1 0E-09	NONE
4 4E-08	3 2E-08	IN	4 4E-08	1 3E-07	1 7E-07	3 6E-08	IN	IN	IN	2 7E-08	IN	IN	5 9E-08	1 8E-07	IN
4 4E-08	3 2E-08	SECTOR	5 5E-08	1 1E-07	1 5E-07	2 9E-08	THIS	THIS	THIS	2 7E-08	THIS	THIS	6 0E-08	1 8E-07	THIS
3 9E-08	2 7E-08		5 5E-08	1 1E-07	1 5E-07	2 9E-08	SECTOR	SECTOR	SECTOR	2 2E-08	SECTOR	SECTOR	4 8E-08	1 5E-07	SECTOR
7592	4027		2816	2011	1931	6436				2562			5632	3218	
NEAREST PLANT BOUNDARY															
2 9E-07	1 1E-07	5 4E-08	9 3E-08	1 3E-07	1 9E-07	5 2E-08	5 0E-08	1 0E-07	8 2E-08	9 5E-08	9 8E-08	4 5E-08	8 9E-08	2 7E-07	5 7E-07
2 4E-07	9 4E-08	4 9E-08	8 2E-08	1 2E-07	1 6E-07	4 3E-08	4 1E-08	3 0E-08	7 5E-08	8 3E-08	7 9E-08	3 8E-08	6 5E-08	2 3E-07	5 0E-07
4 2E-09	1 3E-09	4 3E-10	8 6E-10	1 1E-09	2 0E-09	3 0E-10	4 1E-10	1 0E-09	6 2E-10	7 4E-10	6 4E-10	2 5E-10	4 5E-10	1 7E-09	6 2E-09
2 9E-07	1 1E-07	5 4E-08	9 3E-08	1 3E-07	1 9E-07	5 2E-08	5 0E-08	1 0E-07	8 2E-08	9 5E-08	9 8E-08	4 5E-08	8 9E-08	2 7E-07	5 7E-07
2 9E-07	1 1E-07	5 4E-08	9 3E-08	1 3E-07	1 9E-07	5 2E-08	5 0E-08	1 0E-07	8 2E-08	9 5E-08	9 8E-08	4 5E-08	8 9E-08	2 7E-07	5 7E-07
2 4E-07	9 4E-08	4 9E-08	8 2E-08	1 2E-07	1 6E-07	4 3E-08	4 1E-08	3 0E-08	7 5E-08	8 3E-08	7 9E-08	3 8E-08	6 5E-08	2 3E-07	5 0E-07
2 4E-07	9 4E-08	4 9E-08	8 2E-08	1 2E-07	1 6E-07	4 3E-08	4 1E-08	3 0E-08	7 5E-08	8 3E-08	7 9E-08	3 8E-08	6 5E-08	2 3E-07	5 0E-07
1754	2075	2025	1731	1931	1856	4827	5310	2767	2478	2478	2414	2880	3279	4183	2349

TABLE 5.2-2

CALCULATED LIQUID EFFLUENT
DISCHARGE CONCENTRATIONS
FROM ROUTINE OPERATION

Isotope		Release Ci/yr	pCi/l		
			Circulating Water ^b	Cooling Lake ^c	LeRoy ^d
1H	3	4.10+002	2.38+004	2.34+004	7.38E+002
24CR	51	9.00-005	1.62-004	7.83-005	2.47E-006
25MN	54	1.20-004	1.22-003	1.11-003	3.50E-005
26FE	55	9.00-005	2.39-003	2.30-003	7.26E-005
26FE	59	5.00-005	1.17-004	7.02-005	2.22E-006
27CO	58	1.30-003	4.09-003	2.88-003	9.09E-005
27CO	60	9.80-004	4.07-002	3.98-002	1.26E-003
35BR	83	3.00-005	2.79-005	9.40-008	2.97E-009
42MO	99	1.80-003	1.84-003	1.67-004	5.27E-006
43TC	99M	1.70-003	1.60-003	1.33-005	4.20E-007
52TE	129M	7.00-005	1.39-004	7.42-005	2.34E-006
53I	131	9.50-002	1.12-001	2.40-002	7.57E-004
52TE	132	6.10-004	6.30-004	6.19-005	1.95E-006
53I	132	1.70-003	1.58-003	5.11-006	1.61E-007
53I	133	3.00-002	2.87-002	8.23-004	2.60E-005
55CS	134	8.10-003	1.79-001	1.71-001	5.40E-003
53I	135	5.20-003	4.89-003	4.55-005	1.44E-006
55CS	136	2.10-003	2.81-003	8.54-004	2.70E-005
55CS	137	7.30-003	5.03-001	4.96-001	1.57E-002
40ZR	95	1.40-004	4.14-004	2.84-004	8.96E-006
41NB	95	2.00-004	4.06-004	2.20-004	6.94E-006
37RB	86	2.00-005	3.03-005	1.17-005	3.69E-007
44RU	103	2.00-005	4.35-005	2.49-005	7.86E-007
44RU	106	2.40-004	2.90-003	2.68-003	8.46E-005
47AG	110M	4.00-005	3.46-004	3.09-004	9.75E-006
58CE	144	5.20-004	4.98-003	4.50-003	1.42E-004
38SR	89	2.00-005	5.12-005	3.26-005	1.03E-006
52TE	127M	1.00-005	4.32-005	3.39-005	1.07E-006
52TE	127	2.00-005	1.88-005	2.46-007	7.76E-009
52TE	129	5.00-005	4.65-005	7.49-008	2.36E-009
53I	130	1.00-004	9.49-005	1.63-006	5.14E-008
52TE	131M	3.00-005	2.90-005	1.18-006	3.72E-008
93NP	239	2.00-005	2.01-005	1.47-006	4.64E-008

^aM = metastable

^bBased solely on dilution by the circulating water discharge and buildup of radionuclides over 40 year plant life.

^cBased on dilution by the circulating water discharge and buildup of radionuclides in the cooling lake over 40 year plant life.

^dConcentration of radionuclides at the LeRoy water works intake. Based on dilution by circulating water discharge and build-up of radionuclides in the cooling lake over 40 year plant life and additional dilution in the Neosho River.

WCGS-ER(OLS)

TABLE 5.2-7

ESTIMATED DOSE FROM LIQUID EFFLUENTS
TO POPULATION OF LEROY

	POPULATION DOSE (person-rem/yr)							
	<u>SKIN</u>	<u>BONE</u>	<u>LIVER</u>	<u>TOTAL BODY</u>	<u>THYROID</u>	<u>KIDNEY</u>	<u>LUNG</u>	<u>GI-LLI</u>
<u>INGESTION</u>								
Fish		2.60E-003	3.88E-003	2.28E-003	5.84E-005	1.32E-003	4.85E-004	1.15E-004
Invertebrate		1.95E-005	3.68E-005	2.38E-005	7.71E-006	1.84E-005	1.03E-005	1.70E-005
Drinking Water		4.85E-004	1.91E-002	1.88E-002	1.88E-002	1.87E-002	1.85E-002	1.85E-002
<u>EXTERNAL EXPOSURE</u>								
Shoreline	5.40E-005	4.62E-005	4.62E-005	4.62E-005	4.62E-005	4.62E-005	4.62E-005	4.62E-005
Swimming		1.59E-007	1.59E-007	1.59E-007	1.59E-007	1.59E-007	1.59E-007	1.59E-007
Boating		3.18E-007	3.18E-007	3.18E-007	3.18E-007	3.18E-007	3.18E-007	3.18E-007
Totals	5.40E-005	3.15E-003	2.31E-002	2.12E-002	1.89E-002	2.01E-002	1.90E-002	1.87E-002

TABLE 5.2-8a

CALCULATED POPULATION DOSE RATES
POPULATION IN YEAR 2000: 184,410
50-MILE RADIUS

TOTAL ANNUAL POPULATION DOSE: PARTICULATES, IODINES AND
NOBLE GASES

50-MILE ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

<u>PATHWAY</u>	<u>TOTAL BODY</u>	<u>BONE</u>	<u>THYROID</u>	<u>SKIN</u>
PLUME	1.05-002	1.05-002	1.05-002	4.39-002
GROUND	1.55-003	1.55-003	1.55-003	1.82-003
INHAL	2.80-002	7.09-005	4.62-002	2.80-002
VEGET	6.86-002	2.16-001	2.22-001	6.79-002
COW MILK	2.80-002	9.53-002	1.30-001	2.76-002
MEAT	2.71-002	1.07-001	3.31-002	2.71-002
TOTAL	1.64-001	4.30-001	4.43-001	1.96-001

WCGS-ER(OLS)

TABLE 5.2-8b

CALCULATED POPULATION DOSE RATES
U.S. TOTAL

TOTAL ANNUAL POPULATION DOSE: PARTICULATES, IODINES AND
NOBLE GASES

TOTAL U.S. ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

<u>PATHWAY</u>	<u>TOTAL BODY</u>	<u>BONE</u>	<u>THYROID</u>	<u>SKIN</u>
PLUME	3.42-001	3.42-001	3.42-001	2.25+000
GROUND	1.55-003	1.55-003	1.55-003	1.82-003
INHAL	1.46+000	7.09-005	1.48+000	1.46+000
VEGET	1.77+001	6.41+001	1.96+001	1.77+001
COW MILK	6.99+000	2.13+001	7.43+000	6.99+000
MEAT	1.23+001	4.95+001	1.23+001	1.23+001
TOTAL	3.88+001	1.35+002	4.12+001	4.07+001

TABLE 5.2-9a
CALCULATED RADIOACTIVE IODINE AND PARTICULATE GASEOUS
PATHWAY DOSES (Hypothetical Worst Case)^{1, 2, 3}

Location	Age Group	Pathway	Critical Organ Dose Contributions (mRem/yr)			
	Adult		Skin	Thyroid	Bone	Total Body
Controlling Sector Exclusion-Restricted Area Boundary .75 miles North Sector		Ground Contamination	1.26 E-02*	1.08 E-02	1.08 E-02	1.08 E-02
		Air Inhalation	3.69 E-02	6.14 E-02*	9.63 E-05	3.69 E-02
		Vegetable Ingestion	8.92 E-02	3.97 E-01*	1.78 E-01	9.35 E-02
		Cow Milk Ingestion				
		Goat Milk Ingestion	5.35 E-02	8.68 E-01*	7.98 E-02	6.13 E-02
		Meat Ingestion	2.15 E-02	4.60 E-02	6.69 E-02*	2.18 E-02
		Total Dose (mRem/yr)	2.14 E-01	1.38 E+00	3.36 E-01	2.24 E-01
	Teen		Skin	Thyroid	Bone	Total Body
		Ground Contamination	1.26 E-02*	1.08 E-02	1.08 E-02	1.08 E-02
		Air Inhalation	3.71 E-02	6.76 E-02*	1.29 E-04	3.71 E-02
		Vegetable Ingestion	1.20 E-01	3.78 E-01*	2.92 E-01	1.24 E-01
		Cow Milk Ingestion				
		Goat Milk Ingestion	7.76 E-02	1.37 E+00*	1.47 E-01	8.60 E-02
		Meat Ingestion	1.61 E-02	3.38 E-02	5.65 E-02*	1.63 E-02
		Total Dose (mRem/yr)	2.63 E-01	1.86 E+00	5.06 E-01	2.74 E-01
	Child		Skin	Thyroid	Bone	Total Body
		Ground Contamination	1.26 E-02*	1.08 E-02	1.08 E-02	1.08 E-02
		Air Inhalation	7.28 E-02	6.75 E-02*	1.65 E-04	3.29 E-02
		Vegetable Ingestion	2.37 E-01	6.30 E-01	7.05 E-01*	2.40 E-01
		Cow Milk Ingestion				
		Goat Milk Ingestion	1.46 E-01	2.69 E+00*	3.60 E-01	1.55 E-01
		Meat Ingestion	2.70 E-02	5.38 E-02	1.06 E-01*	2.71 E-02
		Total Dose (mRem/yr)	4.55 E-01	3.45 E+00	1.18 E+00	4.66 E-01
	Infant		Skin	Thyroid	Bone	Total Body
		Ground Contamination	1.26 E-02*	1.08 E-02	1.08 E-02	1.08 E-02
		Air Inhalation	1.89 E-02	5.06 E-02*	1.16 E-04	1.89 E-02
		Vegetable Ingestion				
		Cow Milk Ingestion				
		Goat Milk Ingestion	2.60 E-01	6.45 E+00*	6.98 E-01	2.72 E-01
		Meat Ingestion				
		Total Dose (mRem/yr)	2.92 E-01	6.51 E+00	7.09 E-01	3.02 E-01
		Appendix I Limit (mRem/yr)	15.00 E+00	15.00 E+00	15.00 E+00	15.00 E+00

Note: (1) Assumes members of each age group are present and all pathways are present at the Controlling Exclusion-Restricted Area Boundary.

(2) Assumes members of each age group ingest goat milk rather than cow milk to consider the worst case milk ingestion pathway.

(3) Assumes no vegetable or meat ingestion by infants.

* Identifies the critical organ dose for each given pathway.

TABLE 5.2-9b
CALCULATED RADIOACTIVE IODINE AND PARTICULATE GASEOUS
PATHWAY DOSES (Controlling Existing Resident)^{1, 2}

Location	Age Group	Pathway	Critical Organ Dose Contributions (mRem/yr)			
			Skin	Thyroid	Bone	Total Body
Adult						
1.4 miles N		Ground Contamination	4.97 E-03*	4.24 E-03	4.24 E-03	4.24 E-03
1.4 miles N		Air Inhalation	1.68 E-02	2.76 E-02*	4.19 E-05	1.68 E-02
1.4 miles N		Vegetable Ingestion	3.92 E-02	1.63 E-01*	7.35 E-02	4.10 E-02
1.1 miles N		Cow Milk Ingestion	1.94 E-02	4.06 E-01*	4.04 E-02	2.12 E-02
1.1 miles N		Meat Ingestion	1.20 E-02	2.60 E-02	3.55 E-02*	1.22 E-02
		Total Dose (mRem/yr)	9.24 E-02	6.27 E-01	1.54 E-01	9.54 E-02
Teen						
1.4 miles N		Ground Contamination	4.97 E-03*	4.24 E-03	4.24 E-03	4.24 E-03
1.4 miles N		Air Inhalation	1.69 E-02	3.04 E-02*	5.59 E-05	1.70 E-02
1.4 miles N		Vegetable Ingestion	5.25 E-02	1.57 E-01*	1.20 E-01	5.41 E-02
1.1 miles N		Cow Milk Ingestion	2.94 E-02	6.41 E-01*	7.45 E-02	3.17 E-02
1.1 miles N		Meat Ingestion	8.03 E-03	1.90 E-02	3.00 E-02*	9.03 E-03
		Total Dose (mRem/yr)	1.13 E-01	8.52 E-01	2.29 E-01	1.16 E-01
Child						
1.4 miles N		Ground Contamination	4.97 E-03*	4.24 E-03	4.24 E-03	4.24 E-03
1.4 miles N		Air Inhalation	1.50 E-02	3.02 E-02*	7.16 E-05	1.50 E-02
1.4 miles N		Vegetable Ingestion	1.02 E-01	2.61 E-01	2.91 E-01*	1.04 E-01
1.1 miles N		Cow Milk Ingestion	5.89 E-02	1.27 E+00*	1.83 E-01	6.18 E-02
1.1 miles N		Meat Ingestion	1.48 E-02	3.00 E-02	5.64 E-02*	1.49 E-02
		Total Dose (mRem/yr)	1.96 E-01	1.50 E+00	5.35 E-01	2.00 E-01
Infant						
1.4 miles N		Ground Contamination	4.97 E-03*	4.24 E-03	4.24 E-03	4.24 E-03
1.4 miles N		Air Inhalation	8.61 E-03	2.25 E-02*	5.06 E-05	8.63 E-03
1.4 miles N		Vegetable Ingestion	1.02 E-01	2.61 E-01	2.91 E-01*	1.04 E-01
1.1 miles N		Cow Milk Ingestion	5.89 E-02	1.27 E+00*	1.83 E-01	6.18 E-02
1.1 miles N		Meat Ingestion	1.48 E-02	3.00 E-02	5.64 E-02*	1.49 E-02
		Total Dose (mRem/yr)	1.24 E-01	3.08 E+00	3.61 E-01	1.27 E-01
		Appendix I Limit (mRem/yr)	15.00 E+00	15.00 E+00	15.00 E+00	15.00 E+00

- Note: (1) All pathways actually exist for this resident except the cow milk ingestion pathway which is assumed.
- (2) Assumes members of each age group are present and that there is no vegetable or meat ingestion by infants.
- * Identifies the critical organ dose for each given pathway.

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TABLE 5.2-10
ANNUAL DOSE FROM NOBLE GASES

Sector	Exclusion- Restricted Area Boundary (miles)	Cloud Submersion		Air Dose	
		Total Body (mrem/yr)	Skin (mrem/yr)	Gamma (mrad/yr)	Beta (mrad/yr)
NNE	.75	1.20 E-02	3.94 E-02	1.96 E-02	5.46 E-02
NE	.75	5.11 E-03	1.75 E-02	8.28 E-03	2.43 E-02
ENE	.75	3.44 E-03	1.34 E-02	5.54 E-03	1.84 E-02
E	.75	4.60 E-03	1.86 E-02	7.41 E-03	2.55 E-02
ESE	.75	6.06 E-03	2.21 E-02	9.79 E-03	3.05 E-02
SE	.75	8.25 E-03	2.83 E-02	1.33 E-02	3.90 E-02
SSE	.75	7.55 E-03	2.59 E-02	1.22 E-02	3.58 E-02
S	.75	8.30 E-03	2.87 E-02	1.34 E-02	3.95 E-02
SSW	.75	7.72 E-03	2.76 E-02	1.25 E-02	3.80 E-02
SW	.75	5.28 E-03	2.06 E-02	8.52 E-03	2.83 E-02
WSW	.75	6.56 E-03	2.39 E-02	1.06 E-02	3.30 E-02
W	.75	7.49 E-03	2.84 E-02	1.21 E-02	3.90 E-02
WNW	.75	6.98 E-03	2.49 E-02	1.13 E-02	3.44 E-02
NW	.75	1.04 E-02	3.85 E-02	1.68 E-02	5.30 E-02
NNW	.75	1.63 E-02	5.79 E-02	2.64 E-02	8.06 E-02
N	.75	2.20 E-02	7.24 E-02	3.55 E-02	1.00 E-01
Appendix I Limit		5.00 E+0	15.00 E+0	10.00 E+0	20.00 E+0

TABLE 5.2-11

SUMMARY OF CALCULATED TOTAL-BODY AND THYROID
DOSE RATES FROM LIQUID AND GASEOUS EFFLUENTS

Pathway	Dose Rate	
	Total Body	Thyroid
<u>Maximum Individual Exposures:</u>		
<u>Liquid effluents^a</u>		
Ingestion		
fish	2.46E+000 mrem/yr	1.12E-001 mrem/yr
invertebrate	4.12E-002 mrem/yr	1.71E-002 mrem/yr
drinking water	0.0 mrem/yr	0.0 mrem/yr
External exposure		
shoreline	1.88E-002 mrem/yr	1.88E-002 mrem/yr
swimming	6.06E-005 mrem/yr	6.36E-005 mrem/yr
boating	3.50E-005 mrem/yr	3.50E-005 mrem/yr
Subtotal	2.52E+000 mrem/yr	1.48E-001 mrem/yr
<u>Gaseous effluents^b</u>		
noble gas submersion	2.28E-002 mrem/yr	—
particulate and iodine gases	4.66E-001 mrem/yr*	6.51E+000 mrem/yr**
Subtotal	4.88E-001 mrem/yr	6.51E+000 mrem/yr
	* child	** infant
<u>Population Exposures:</u>		
<u>Liquid effluents^c</u>		
Ingestion		
fish	2.28E-003 person-rem/yr	5.84E-005 person-rem/yr
invertebrate	2.38E-005 person-rem/yr	7.71E-006 person-rem/yr
drinking water	1.88E-002 person-rem/yr	1.88E-002 person-rem/yr
External exposure		
shoreline	4.62E-005 person-rem/yr	4.62E-005 person-rem/yr
swimming	1.59E-007 person-rem/yr	1.59E-007 person-rem/yr
boating	3.18E-007 person-rem/yr	3.18E-007 person-rem/yr
Subtotal	2.12E-002 person-rem/yr	1.89E-002 person-rem/yr
<u>Gaseous effluents^d</u>		
Immersion	1.20E-002 person-rem/yr	1.20E-002 person-rem/yr
Inhalation	2.80E-002 person-rem/yr	4.62E-003 person-rem/yr
Ingestion	1.24E-001 person-rem/yr	3.85E-001 person-rem/yr
Subtotal	1.64E-001 person-rem/yr	4.43E-001 person-rem/yr

^aDoses were calculated at the circulating water discharge for maximum individual exposures.

^bDoses were calculated at a point .75 miles from the vent in the maximally exposed sector.

^cTo the population in the town of Le Roy.

^dTo the population within a 50 mile radius.

TABLE 5.2-12

APPENDIX I CONFORMANCE SUMMARY TABLE FOR LIQUID AND GASEOUS EFFLUENTS

Type of Dose	Design Objective ^a	Calculated Dose ^b	Point of Dose Evaluation
<u>Liquid Effluents</u>			
Dose to total body from all pathways	3 mrem/yr per site	2.51 mrem/yr ^b	Point of Discharge Cooling Lake
Dose to any organ from all pathways	10 mrem/yr per site	3.63 mrem/yr ^c	Same as above
<u>Gaseous Effluents</u>			
Dose to total body of an individual	5 mrem/yr per site	0.0220 mrem/yr	.75 mi N of stack vent ^d
Dose to skin of an individual	15 mrem/yr per site	0.0724 mrem/yr	.75 mi N of stack vent
<u>Radioiodine and Particulates</u>			
Dose to any organ from all pathways	15 mrem/yr per site	3.08 mrem/yr ^e	Residence, 1.4 mi. N of stack vent. Milk cow 1.1 mi. N of stack.
I-131 releases	1 Ci/yr per unit Total	0.0577 Ci/yr 0.0950 Ci/yr 0.1527 Ci/yr	gaseous liquid

^a Appendix I design objectives from Sections II.A, II.B, II.C, and II.D (By Annex, RM50-2) of Appendix I, 10 CFR Part 50; considers doses to maximum individual.

^b Maximum dose to an individual from all liquid pathways.

^c Maximum dose to a teen liver from all liquid pathways.

^d Maximally exposed sector.

^e Dose to an infant thyroid.

APPENDIX 5A

DOSE CALCULATION MODELS AND ASSUMPTIONS

All dose calculations have been revised by means of the NRC computer codes GASPAP and LADTAP II. Computer programs ARRRG, CRITR, CRONK, and FOOD developed at the Pacific Northwest Laboratory of Battelle Memorial Institute are no longer being used. The models and assumptions used in LADTAP II and GASPAP are identical or similar to those suggested in NRC Regulatory Guide 1.109. A list of assumptions and parameters used for the Wolf Creek site are presented in Table 5A-1 for liquid effluents and Table 5A-2 for gaseous effluents.

5A.1 INTERNAL DOSES TO AQUATIC ORGANISMS

Doses to aquatic and terrestrial organisms other than man were calculated using NUREG/CR-1276 LADTAP II - "A Computer Program for Calculating Radiation Exposure to Man from Routine Release of Nuclear Reactor Liquid Effluents." The models used by this program are taken from Regulatory Guide 1.113, 1.109 and USAEC publication, WASH-1258.

5A.2 DOSE TO HUMANS

Doses to man from liquid effluents were calculated using NUREG/CR-1276 LADTAP II computer program. The models used by this program are taken from Regulatory Guide 1.113 and 1.109. Doses to man from gaseous effluents were calculated using NUREG-0597 GASPAP - "A Computer Program for the Evaluation of Radiological Impacts Due to the Release of Radioactive Material to the Atmosphere During Normal Operation of Light Water Reactors." The models used by this program are taken from Regulatory Guide 1.111 and 1.109.

5A.3 RECONCENTRATION FORMULA USED TO CALCULATE RECONCENTRATION FACTORS FOR LIQUID EFFLUENTS ACCUMULATING IN A REACTOR COOLING LAKE

Reconcentration models were based on Reg. Guide 1.113 and USEPA EPA-520 - "Radionuclide Accumulation in a Reactor Cooling Lake." Calculated reconcentration factors for the lake and at the circulating water discharge are presented in Table 5A-3. Reconcentration was determined as follows:

$$C = \frac{W}{V_T \lambda_{eff}} (1 - e^{-\lambda_{eff} t}) + C_0 e^{-\lambda_{eff} t} \quad \text{Lake Concentration}$$

C = concentration of radionuclide in the lake at the end of the period

C₀ = concentration in the lake at the beginning of time period t

W = Ci/yr rate radioactivity is added to the lake

V_T = lake volume ft³

$$\lambda_{eff} = \lambda + \frac{Q_b}{V_T}$$

λ = the radionuclide decay constant $\frac{.693}{T_{1/2}}$

T_{1/2} = radiological half life

Q_b = lake blowdown rate

t = time

Q_p = plant pumping rate

R = reconcentration of radionuclide in the lake at the end of the period

R₀ = reconcentration in the lake at the beginning of time period t

$$R = \frac{C Q_p}{W} \quad C = \frac{W R}{Q_p} \quad \text{therefore}$$

$$R = \frac{Q_p}{V_T \lambda_{eff}} (1 - e^{-\lambda_{eff} t}) + R_0 e^{-\lambda_{eff} t} \quad \text{Lake Reconcentration}$$

C_{cw} = concentration at circulating water discharge point

$$C_{cw} = C + \frac{W}{Q_p} \quad \text{and} \quad C = \frac{RW}{Q_p}$$

$$\text{therefore } (R + 1) \frac{W}{Q_p} = C_{cw} \quad \text{Circulating Water Discharge Concentration}$$

R + 1 = reconcentration of radionuclide at the circulating water discharge

TABLE 5A-2

The following assumptions and parameters were used in GASPAR for estimating doses at the Wolf Creek Generating Station site from gaseous effluents:

<u>PARAMETER</u>	<u>VALUE ASSIGNED</u>	<u>REFERENCE</u>
Distance from facility to the NE corner of the US (Maine) in miles	1546 miles	Map measurement
Fraction of year leafy vegetables are grown	.75	K-State Extension Service
Fraction of crop from garden	Default value .76	Reg. Guide 1.109-7
Fraction of year cows are on pasture	.5	K-State Extension Service
Fraction of daily intake of cows derived from pasture while on pasture	Default value 1.00	Reg. Guide 1.109-28
Fraction of year goats are on pasture	.5	K-State Extension Service
Fraction of daily intake of goat from pasture while on pasture	Default value 1.00	Reg. Guide 1.109
Fraction of year beef cattle are on pasture	.5	K-State Extension Service
Fraction of daily intake of beef cattle derived from pasture while on pasture	Default value 1.00	Reg. Guide 1.109
Absolute humidity over growing season	63.2%	Table 2.3-3 WCGS-ER(OLS)
Average temperature over growing season	64.4°F	Table 2.3-1 WCGS-ER(OLS)
Total annual release time of intermittent purge operation	1925 hrs/yr	Bechtel letter to SNUPPS BLSE-6610 Oct. 31, 1978
Annual gaseous release source terms	Table 3.5-3	WCGS-ER(OLS)
Average meteorological relative concentrations (X/Qs)	Table 5.2-1 WCGS-ER(OLS)	Dames & Moore X/Q Report 7699-064-07

WCGS-ER(OLS)

TABLE 5A-3

40 YR. RECONCENTRATION FACTORS

NUCLIDE	RECONCENTRATION IN LAKE	RECONCENTRATION AT CWD
H-3	6.13E+001	6.23E+001
Cr-51	9.35E-001	1.94E+000
Mn-54	9.90E+000	1.09E+001
Fe-55	2.75E+001	2.85E+001
Fe-59	1.51E+000	2.51E+000
Co-58	2.35E+000	3.38E+000
Co-60	4.37E+001	4.47E+001
Br-83	3.37E-003	1.00E+000
Mo-99	1.00E-001	1.10E+000
Tc-99M	8.42E-003	1.01E+000
Te-129M	1.14E+000	2.14E+000
I-131	2.72E-001	1.27E+000
Te-132	1.09E-001	1.11E+000
I-132	3.23E-003	1.00E+000
I-133	2.95E-002	1.03E+000
Cs-134	2.27E+001	2.37E+001
I-135	9.40E-003	1.01E+000
Cs-136	4.37E-001	1.44E+000
Cs-137	7.30E+001	7.40E+001
Zr-95	2.18E+000	3.18E+000
Nb-95	1.16E+000	2.18E+000
Rb-86	6.29E-001	1.63E+000
Ru-103	1.34E+000	2.34E+000
Ru-106	1.20E+001	1.30E+001
Ag-110M	8.31E+000	9.31E+000
Ce-144	9.30E+000	1.03E+001
Sr-89	1.75E+000	2.75E+000
Te-127M	3.64E+000	4.64E+000
Te-127	1.32E-002	1.01E+000
Te-129	1.61E-003	1.00E+000
I-130	1.75E-002	1.02E+000
Te-131M	4.22E-002	1.04E+000
Np-239	7.91E-002	1.08E+000

(1) 40 yrs of reconcentration based on:

	Years	Blowdown	+	Seepage	Lake Level
Normal-post drought	31.59	40	cfs	3.5 cfs	4.847E+009 ft ³
Pre-drought	3.58	3.5	cfs	3.5 cfs	4.650E+009 ft ³
Drought	4.83	0	cfs	3.5 cfs	4.451E+009 ft ³

(2) Drought occurs at the end of the 40 yr period.

the cognizant engineer was notified and corrective action taken. This ensures detection of instrument failure before extended periods of data are lost.

An inventory of spare parts is kept on hand to back up critical instruments and equipment if they should fail completely.

6.1.3.1.5.3 Data Recovery

Data recovery for each individual sensor in Phase 1 and Phase 2 is provided in Table 6.1-14. The dewpoint sensor was not rendered operational until March 22, 1979.

The concurrent data recovery for Phase 1 after including data from secondary sensors as described in Section 6.1.3.1.7.1 was 96.7 percent for temperature difference between 32 and 196 feet and wind speed and direction measured at 10 meters. Phase 1 concurrent data recovery was 93.2 percent for winds measured at 60 meters.

Concurrent data recovery for the entire 3-year period for the parameters critical for diffusion analyses (wind direction, wind speed, and temperature difference) equaled or exceeded 90 percent for all levels at which these parameters were measured. Using 10-meter winds, the 3-year concurrent data recovery was 92.9 percent, and using 60-meter winds it was 90.0 percent.

6.1.3.1.6 Data Recording Systems

6.1.3.1.6.1 Phase 1 Preoperational Monitoring Program

Analog output from the sensors was transmitted to strip chart recorders via a Climet translator (Model 060-020). Each level of wind data was recorded on a two-channel Esterline-Angus recorder (Model E1102R). The temperature data were recorded on a six-channel multi-point Esterline-Angus recorder (Model E1124E). The solar radiation data were recorded on a two-channel Esterline-Angus recorder (Model E1102R). These recorders were housed in the instrument shed.

The digital system consisted of a Hewlett-Packard (HP) 3485A scanning digital voltmeter with an HP 9600A computer system for sampling and storing all meteorological parameters once every minute. Using an HP 2100A mini-computer and a Data Acquisition and Control Executive (DACE) operating

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system together with a supplied program, hourly values for each parameter were computed and stored in memory. These values were printed and punched on paper tape every 24 hours at the site on an ASR33 teletype unit.

6.1.3.1.6.2 Phase 2 and Operational Monitoring Programs

Analog output signals from the wind speed, wind direction, and precipitation monitors are recorded on Esterline-Angus recorders (Model Ell02R) as in Phase 1. Wind sigma values for each monitored level are recorded on Esterline-Angus mini-servo recorders (Model M 01C). Temperature difference across three height ranges for Phase 2 and one height range for the operational phase are recorded along with the 32-foot reference temperature using a Leeds & Northrup multi-point chart recorder (Model 251). All recorders are located in the instrument shed.

6.1.3.1.7 Data Analysis

6.1.3.1.7.1 Phase 1 Preoperational Data Recording

The analog chart records were removed every 28 days for inspection and analysis. Each chart was removed separately, stamped and identified by job number, date, instrument, and level. The charts were inspected for breaks in record, time errors, and power failures and then stored. The information gained from their inspection was used to update and verify the digital data on which the analysis was made. The analog recording system provided a back-up in case of digital system failure, so that a high percentage data recovery rate could be maintained. As an additional check on the system's reliability, the results from the analog recordings were compared with those obtained from the digital recordings.

For each 28-day period, a total of 48 hours of digital and analog data were selected for comparison; one 24-hour continuous sample, and four 6-hour continuous samples. At least one 6-hour sample was taken from each week of data and one week of data was sampled for both the 6-hour and the 24-hour period. The 24-hour sample provided a check on the diurnal trend of the meteorological parameters, whereas each 6-hour sample provided a check on the values of the parameters for 6 consecutive hours. The frequency of sampling of the 6-hour period was to examine data representativeness.

The rationale for this comparison procedure was to provide adequate assurance that the digital and analog recording systems indicate the same values for the meteorological parameters. The procedure also permitted the detection of any small systematic differences between the two sets of data which would not be detected by comparing isolated values. Hence, the reliability of the digital master file data used in safety analysis was established.

Each analog record, also, was scanned in its entirety to detect data inconsistencies and/or malfunctioning of the

- c. The average wind direction is found by converting the average components into a vector direction; i.e.:

$$\begin{aligned}\bar{U} > 0 \text{ and } \bar{V} > 0: \quad \bar{\theta} &= \tan^{-1} (\bar{U}/\bar{V}) + 180^\circ \\ \bar{U} > 0 \text{ and } \bar{V} \leq 0: \quad \bar{\theta} &= \tan^{-1} (\bar{U}/\bar{V}) + 360^\circ \\ \bar{U} \leq 0 \text{ and } \bar{V} > 0: \quad \bar{\theta} &= \tan^{-1} (\bar{U}/\bar{V}) + 180^\circ \\ \bar{U} \leq 0 \text{ and } \bar{V} \leq 0: \quad \bar{\theta} &= \tan^{-1} (\bar{U}/\bar{V})\end{aligned}\quad [6.1.3-5]$$

where:

$\bar{\theta}$ = the average vector wind direction during the hour.

(Note that $\tan^{-1} \bar{U}/\bar{V}$ is always in the range -90° to $+90^\circ$.)

Regulatory Guide 1.23 suggests that data be averaged over a period of at least 15 minutes once each hour. In the averaging techniques described above, a minimum of 20 digital observations for each hour was therefore chosen to constitute a representative observation set for determining hourly averages. In general these 20 values will be consecutive.

To verify the effect of using significantly less than 60 observations per hour, a test comparison was performed by taking a week's digital data (162 hourly observations) and obtaining averages using 60, 40, and 20 minutes of data within each hour. The hourly mean values obtained from the digital data were compared with the values read from the analog record to check the correspondence of the two sets of data. The difference between the averages using 60- and 20-minute digital values is within the tolerance limits specified in Regulatory Guide 1.23 for more than 90 percent of the comparisons of temperature, dewpoint, ΔT , and wind speed. The difference between the averages using 60 and 40 observations are insignificant except for the wind variability at 10 meters, for which the difference is within the tolerance limit for 85 percent of the observations. This is not considered crucial inasmuch as wind variability is not being used to determine atmospheric stability.

The diffusion climatology of the site is defined by three variables. These, together with the primary and secondary (back-up) measurements for each, are as follows:

- a. Horizontal wind speed - primary 32- and 196-foot wind speed
- secondary 116-foot wind speed

- b. Horizontal wind direction
 - primary 32- and 196-foot wind direction
 - secondary 116-foot wind direction
- c. Temperature difference (ΔT)
 - primary ΔT from 32 to 196 feet
 - secondary ΔT from 32 to 277 feet

The secondary measurement is necessary only during periods of outage of the primary system, and is reduced to the appropriate level as follows:

- a. Wind speed at 116 feet is converted to wind speed at 32 feet using the power law:

$$V_{32} = V_{116} \left[\frac{32}{116} \right]^s \quad [6.1.3-6]$$

where:

V_{32} = the wind speed at 32 feet;

V_{116} = the wind speed at 116 feet;

s = 0.25 for Pasquill Classes A, B, C, and D and 0.50 for Classes E, F, and G.

- b. Wind direction at 116 feet is directly substituted for wind direction at 32 feet;
- c. ΔT between 32 and 196 feet is obtained by proportional extrapolation of the ΔT between 32 and 196 feet.

$$\Delta T_{196-32} = \Delta T_{277-32} \left[\frac{164}{245} \right] \quad [6.1.3-7]$$

where:

ΔT_{277-32} = Temperature difference between 277 and 32 feet.

ΔT_{196-32} = Temperature difference between 196 and 32 feet.

It has not been necessary to substitute the 116-foot level wind direction for the 32-foot level wind direction.

TABLE 6.1-14

DATA RECOVERY
 PHASE 1 (JUNE 1973 - MAY 1975) AND
 PHASE 2 (MARCH 5, 1979 - MARCH 4, 1980)

Parameter	Height (feet)	Percent Recovery Phase 1	Percent Recovery Phase 2
Temperature	32	99.6	96.3
Temperature Difference	116-32	88.5	92.9
Temperature Difference	196-32	94.3	86.4
Temperature Difference	277-32	96.5	79.4
Dewpoint	32	97.3	88.4
Wind Speed	32	97.1	98.8
Wind Direction	32	99.2	99.7
Wind Deviation	32	94.7	99.5
Wind Speed	116	95.6	97.9
Wind Direction	116	97.3	97.7
Wind Deviation	116	92.9	98.9
Wind Speed	196	94.0	96.9
Wind Direction	196	98.1	99.3
Wind Deviation	196	93.6	97.6
Precipitation	6	N.A.	99.9

TABLE 6.1-15

PLANT PARAMETERS USED IN
DISPERSION MODELS

1. Reactor Building

- | | | |
|----|---------------------------|---------------------------|
| a) | Rectangular base - height | 135'0" |
| | - width | 147'8" |
| | Cross-sectional area | 19,935.45 ft ² |
| b) | Hemispheric dome - radius | 72'10" |
| | Cross-sectional area | 8,331.85 ft ² |

Combined cross-sectional area of a) and b)

is 28,267.3 ft² or 2,626 m², rounded
off to 2,650 m² for determination of the
building wake dilution factor.

(Differences in calculated ground concen-
tration using 2,650 m² rather than 2,626 m²
are less than 1 percent).

2. Unit Vent

- | | |
|----|---|
| a) | Location - top of reactor building |
| b) | Rectangular outlet dimensions - 7'6" x 5'0" |
| c) | Flow rate - range 66,000-82,000 cfm |
| d) | Temperature - 120 F (max.) |
| e) | Velocity - range 1800-2200 fpm (range 9.14-11.2 m sec ⁻¹) |

WCGS-ER(OLS)

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CHAPTER 8.0

ECONOMIC AND SOCIAL EFFECTS OF STATION OPERATION

8.1.2 INDIRECT BENEFITS

8.1.2.1 Employment and Payroll

The operating staff of WCGS is estimated to be 325 persons, 52 of whom will be security guards. Annual payroll in 1985, the first full calendar year of operation, will be about \$6.8 million.

Almost half of the operating force is projected to live in Coffey County and all others in the intermediate impact area as defined in Section 8.1.2.1 of the Environmental Report - Construction Permit Stage (ER(CPS)). Emporia has attracted about one-third of the initial contingent and is expected to be the location of about 30 percent of the permanent staff. It is estimated that about 125 of the operating staff will be "new" to the area.

8.1.2.2 Induced Employment

Additional employment and income will be stimulated in the local areas through the operation of the multiplier effect, an economic phenomenon that was described in Sections 8.1.2.2.2 and Appendix 8A of the ER(CPS). In the ER(CPS) a multiplier factor of 2.0 was used to estimate the local impacts arising from the presence of new working residents on the operating staff in a rural area. However, it is believed that a lower multiplier of 1.6 better describes the nature of the impact because of the undeveloped economy of this rather sparsely settled rural area. On this basis it has been estimated that the operating staff will "support" about 80 induced service jobs in the local area.

8.1.2.3 Taxes

Coffey County and other local counties will derive substantial ad valorem tax revenues from WCGS and its associated transmission. As shown in Table 8.1-1, Coffey County will be the beneficiary of most of the taxes collected, but other counties will receive revenues based on the new transmission lines built to serve WCGS. Ad valorem taxes in 1987 are expected to be \$13 million. In 1987 the states of Kansas and Missouri will receive an estimated \$37 million from sales, income and franchise taxes on WCGS Revenues, and the Federal Government will receive about \$104 million from income taxes on net profits.

8.1.2.4 Fuel Diversification

There are important benefits in the diversification of fuel sources provided by WCGS. Without a nuclear facility there would be greater dependence on oil and gas. Yet, under the National Energy Policy the continued use of large quantities of gas for boiler fuel is not encouraged. Government policies on the use of oil have not been consistent, but it is clear that continued use of large quantities of oil will also be discouraged because of cost, domestic shortages and international problems. Coal prices are increasing, and new assured coal supplies are uncertain. Moreover, there may well be disruptions due to strikes by miners or by rail employees for coal supplied from sources in the West. Nuclear fuel in place and in inventory will provide for long term operation, unaffected by labor or international turbulence.

8.1.2.5 Other Benefits

No plans exist to develop the cooling lake or any other WCGS site areas for recreational use. However, a center is planned which will provide educational benefits for tourists and organized groups. The training simulator is to be located at the Education Center.

Long-term economic growth may be stimulated in Coffey County through the reduced property tax rates, although there is little in the way of an economic base upon which to develop. Certainly, though, the increased tax revenues will permit Coffey County to make improvements that will make the County a better place in which to live.

WCGS-ER(OLS)

TABLE 8.1-1

WCGS

ESTIMATED PROPERTY TAXES IN 1984 AND 1987^{*}
BY COUNTY

County and Taxed Property	Taxes	
	1984	1987
<u>Coffey County</u>		
Nuclear Station & Simulator	\$10,321,800	\$12,396,800
Nuclear Fuel	350,500	420,800
Substation	69,500	82,100
Transmission	70,100	72,100
Subtotal	\$10,811,900	\$12,971,800
<u>Transmission by County</u>		
Anderson	\$ 25,000	\$ 25,800
Butler	62,000	63,900
Franklin	85,800	88,300
Greenwood	66,600	68,600
Johnson	12,500	12,900
Miami	35,900	36,800
Subtotal	\$ 287,700	\$ 296,300
Total WCGS Property Taxes	\$11,099,600	\$13,268,100

^{*} 1987 is representative of property taxes to be paid. Based on depreciation and inflation it is projected that these taxes will increase about 1 percent per year over the life of the plant.

CHAPTER 9.0

ALTERNATIVE ENERGY SOURCES AND SITES

The Nuclear Regulatory Commission has amended 10 CFR 51, "Licensing and Regulatory Policy and Procedures for Environmental Protection," effective April 26, 1982, to provide that need for power and alternative energy source issues will not be considered in ongoing and future operating license proceedings for nuclear power plants unless a showing of "special circumstances" is made under 10 CFR 2.758 or the NRC otherwise so requires (47 FR 12940, March 26, 1982). These issues need not be addressed by operating applicants in environmental reports to the NRC, nor by the staff in environmental impact statements in operating license proceedings. (See 10 CFR 51.21, 51.23(e) and 51.53(c).)

Accordingly, this Chapter's information is no longer required and is deleted.

CHAPTER 11.0

SUMMARY COST - BENEFIT ANALYSIS

The Nuclear Regulatory Commission has amended 10 CFR Part 2, Rules of Practice for Domestic Licensing Proceedings and 10 CFR Part 50, Domestic Licensing of Production and Utilization Facilities, effective March 31, 1982, to eliminate entirely requirements for financial qualifications review and findings for electric utilities that are applying for construction permits or operating licenses for production or utilization facilities (47 FR 13750, March 31, 1982).

Accordingly, this Chapter's information is no longer required and is deleted.



- Q240.16 a) Section 2.4.1.2.2, p. 2.4-8 states that there are 34 water right permits granted for irrigation use along the Neosho River from the mouth of Wolf Creek to Oklahoma. However, Table 2.1-19 lists only 30 of these permits. Please update Table 2.1-19 to include the additional 4 irrigation permits.
- b) The maximum rate of appropriated surface water from the John Redmond spillway location to the Oklahoma state line is stated in Section 2.4.1.2.2, p. 2.4-8 to be 239,404 gpm. Table 2.1-19 indicates that the authorized maximum diversion rate from the Neosho River downstream of the confluence of Wolf Creek is 115,469 gpm. Please explain the discrepancy in these values. If the discrepancy is the result of diversions between the John Redmond Reservoir and Wolf Creek please furnish the appropriate information as given in Table 2.1-19.
- c) The maximum annual quantity of water authorized to be diverted from the Neosho River as stated in Section 2.4.1.2.2, p. 2.4-8 (117,065 acre-feet) is four times larger than the total quantity indicated in Table 2.1-19 (29,989 acre feet). Please explain the discrepancy as in b) above.
- R240.16 a) The 34 water right permits granted for irrigation represent the number of permits along the Neosho River from the Oklahoma state line to John Redmond Dam, not to the mouth of Wolf Creek. The discussion in Section 2.4.1.2.2 has been corrected to reflect this fact and the irrigation permits not listed in Table 2.1-19 are shown on new Table 2.1-19(a). The information presented in Table 2.1-19(a) was originally provided in Wolf Creek Final Safety Analysis Report (FSAR) Table 2.4-4.
- b) and c) The value for the authorized maximum diversion rate (115,469 gpm), and that for the authorized maximum annual quantity (29,989 acre feet) indicated in Table 2.1-19 represents authorized diversions from the Neosho River from the mouth of Wolf Creek to the Oklahoma state line. Authorized diversions between Wolf Creek and John Redmond Dam are shown in new Table 2.1-19(a). The totals indicated in Section 2.4.1.2.2 have been corrected to reflect the data presented in Tables 2.1-19 and 2.1-19(a).

Q240.17 Table 240.14/240.15-1 gives the 100-year peak flood flow for Wolf Creek below the cooling lake dam under natural conditions as 8363 cfs. How does this value compare with the peak flood flow used to arrive at the flood prone area due to the 100-year flood found in Flood Hazard Boundary Maps for Coffey County?

R240.17 According to References 1 and 2, the 100-year peak flood discharge used to delineate the flood prone area in the Flood Hazard Boundary Maps of Coffey County is 13,900 cfs at the confluence of Wolf Creek with the Neosho River. This flow was based on a regression equation developed by the Kansas Water Resources Board for estimating 100-year flood peaks for ungaged streams in the State of Kansas. (Ref. 3).

The peak 100-year flow under natural conditions at the location of the cooling lake dam as given in Table 240.14/240.15-1 is 8,363 cfs. This flow was estimated by developing a unit hydrograph for the Wolf Creek drainage area and applying the 100-year rainfall distribution as discussed in Section 2.4 of the FSAR Addendum. The corresponding discharge at the confluence of Wolf Creek with the Neosho River, estimated in proportion to the drainage areas is 10,680 cfs as compared to 13,900 cfs used in the Flood Hazard Boundary Maps of Coffey County.

Though there is a difference in the peak flood flow under natural conditions (without the existence of the cooling lake dam), estimated by the two different methods, the conclusion demonstrated in the response to Q. 240.14/240.15, that the flooding of areas below Wolf Creek dam due to Wolf Creek flood flows is much reduced after the construction of the cooling lake dam, remains unchanged.

References:

1. Mr. R. G. Chappel, Chief, Engineering Branch, Federal Emergency Management Agency, Washington, D.C. undated letter to G. V. Komanduri, Sargent & Lundy, (Received October 26, 1981).
2. Mr. Werrerr Miller, Michael Baker Inc., Harrisburg, Pennsylvania, telephone conversation with Mr. G. V. Komanduri, Sargent & Lundy, October 27, 1981.
3. Kansas Water Resources Board, "Magnitude and Frequency of Floods in Kansas, Unregulated Streams," Technical Report November 11, 1975.

Q240.18 In Section 2.4.2.1.1 influent conditions on the Neosho River are purported to result in horizontal migration into the alluvium of 100 to 200 feet. Please provide the data to support this estimate, and what method(s) and parameter values were used.

R240.18 Section 2.4.1.2.2 provides data regarding the flow characteristics of the Neosho River. Low flow for the river (base flow) represents flow which is sustained primarily by ground water. As stated in Section 2.4.1.2.2, the mean daily discharge during a representative low flow period (November 1950) was 200 cfs at New Strawn and 224₆ cfs₃ at Iola. The increase of 24 cfs (2.07×10^6 ft³/day) is assumed to be the ground water contribution between the two stations. The distance between the two stations is approximately 48 miles or 2.53×10^5 feet. Assuming that half the river flow contribution comes from each side of the river, the inflow for one bank would be 1.04×10^6 ft³/day.

From Figure 2.4-6 a reasonable estimate of the average hydraulic gradient is about 0.004 toward the Neosho River. For some areas it is less and for others it is greater. Section 2.4.2.1.1 indicates that the Neosho River alluvium has a maximum thickness of 20 feet. Assume that the average saturated thickness is about 18 feet.

From Darcy's law $Q = Kia$, or $K = Q/ia$, the average permeability can be estimated for the alluvium along the river.

$$K = 1.04 \times 10^6 / (0.004) (18) 2.53 \times 10^5 = 57 \text{ ft/day} \\ \text{or } 2.0 \times 10^{-2} \text{ cm/sec.}$$

This value of permeability is within the expected range of permeabilities for clean sand as indicated by Freeze and Cherry (1979 p. 29).

During the rising part of the flood hydrograph, water from the stream enters bank storage (Freeze and Cherry, 1979, p. 225). Likewise, during the recession part of the flood hydrograph ground water leaves bank storage and enters the stream. As the stream level rises and water starts to enter bank storage, the hydraulic gradient driving the water into the bank storage is initially relatively high but very quickly decreases as the water enters bank storage.

Assume that for a given flood the average hydraulic gradient is 0.5 for the duration of the rising part of the flood hydrograph. From Darcy's law,

R240.18 (continued)

and using an effective porosity of 0.25, the average linear velocity of water entering bank storage would be:

$$v = \frac{Ki}{n} = \frac{(57)(.5)}{.25} = 114 \text{ ft/day}$$

Figure 2.4-11 of the Wolf Creek Final Safety Analysis Report (FSAR) illustrates the hydrograph of the July 1951 flood of the Neosho River. This is one of the largest floods on record which occurred prior to construction of the John Redmond Dam. Because of the regulatory effect of the dam, most subsequent floods are expected to be much smaller than this one. Reference to this extreme flood of July 1951 is made only for the purpose of estimating an approximate maximum value for the duration of the rising part of the flood hydrographs which may be expected on the Neosho River. It should be emphasized that extreme floods on the Neosho River, especially if unregulated, overflow the river banks and cause flooding of the entire floodplain of the Neosho River which is in excess of a mile wide in many areas. During periods of overbank flooding when the entire floodplain is inundated, vertical downward infiltration of water will occur over the entire floodplain for distances up to a mile or more from the normal river channel. Under such circumstances estimations of horizontal migration of water into bank storage from the main stream channel are meaningless for all practical purposes.

The July 1951 flood has three peaks. The rise time for the first peak was half a day. The total rise time for the three peaks can be estimated to be about one day. Thus, for about one day stream water would be entering bank storage. From the average estimated seepage velocity of 114 feet per day, the average distance penetrated into the river banks would be about 114 feet during the storm runoff period. For most floods the average penetration distance can be expected to be less. Thus, the statement that the horizontal migration distance of river water back into the alluvium is "on the order of up to 100 to 200 feet" is a reasonable estimate for high-water conditions of the Neosho River.

Reference

Freeze and Cherry, 1979, Ground Water, Prentice-Hall, Inc.

Q240.19 In the first sentence of the last paragraph on Page 2.4-12 is written, "where it is saturated, the weathered bedrock (except limestone) has a greater permeability than the overlying soil zone". Please provide data to support this statement because comparable values for soil and bedrock are not presented in Table 2.4-7 nor anywhere else in relevant position of the text. Also, it is inferred (in the same sentence) that weathered limestone members probably do not exhibit permeability greater than or equal to the soil or bedrock shale members. Yet the latter are often confining units of the limestone aquifers. Furthermore, data presented in Table 2.4-7 show that the Plattsmouth Limestone has permeabilities approximately one to two orders of magnitude greater than some weathered shale members. Please explain these contradictions.

R240.19 Laboratory permeability tests were conducted on samples of the soils overlying the Heumader Shale and the Plattsmouth Limestone members. The results of these tests are presented in Wolf Creek Final Safety Analysis Report (FSAR) Table 2.5-35. In this table the soil samples obtained from Boring HS-6 overlie the Heumader Shale. All other soil samples were obtained from locations where the soil overlies the Plattsmouth Limestone. As described below, the test data confirm that the weathered bedrock has a greater permeability than these overlying soils.

The laboratory permeability test data indicate a permeability of 5.6×10^{-8} cm/sec for soil over Heumader Shale and lower in the case of a test which had no flow in two days. Table 2.4-7 of the ER(OLS) indicates a value of permeability of 6×10^{-6} cm/sec for the weathered zone (0-20 feet depth) of the Heumader Shale. This indicates that the permeability is significantly greater for the weathered shale zone than for the overlying soil.

Laboratory test data indicate values of permeability for soils overlying the Plattsmouth Limestone ranging from 5.6×10^{-9} to 1.1×10^{-7} cm/sec. Table 2.4-7 of the ER(OLS) indicates the average permeability of the Plattsmouth Limestone as 2×10^{-5} cm/sec for the depth interval 0-20 feet. Here again the data indicate that overlying soil is significantly less permeable than the underlying bedrock.

Regarding the relationship between the permeability of saturated weathered bedrock and overlying

2240.19 (continued)

unsaturated soil, the moisture content θ and the permeability K of unsaturated soils are functions of the soil moisture pressure head Ψ which is negative for unsaturated soils. Because $K = K(\Psi)$ and $\theta = \theta(\Psi)$, it follows that $K = K(\theta)$. Thus, the permeability of the unsaturated soil increases with increasing moisture content and reaches a maximum value when the soil is completely saturated. Dry soils at the land surface characteristically have a relatively low permeability because of their low moisture content. In the case of soils which contain swelling and shrinking clays, however, the average infiltration rate for the soil may be greater (because of the presence of desiccation cracks at the land surface) than the permeability of individual soil samples which are not cracked. Rainfall can thus penetrate the soil surface rapidly at first by way of desiccation cracks. However, the penetration rate is reduced when the bottoms of the cracks are reached and when the soil swells and closes the cracks.

The statement "where it is saturated, the weathered bedrock (except limestone) has a greater permeability than the overlying soil zone," is not intended to infer that weathered limestone members probably do not exhibit permeability greater than or equal to soil or bedrock shale members. Limestone was being excluded from the general discussion of weathered bedrock because the Plattsmouth Limestone was not weathered in the plant site.

Q240.20 A water level recorder chart is shown on Figure 2.4-13 for a monitor well. Please provide a map showing the wells exact location. What depth and stratigraphic interval does the data represent?

R240.20 The location of the well is shown on Figure 2.1-27. The depth of the well is 35 feet. Based on a map showing the geology of the area (Figure 2.5-6), the dug well extends into the sandstone unit of the Jackson Park Shale Member.

- Q240.21 Please provide data to support the effective porosity values used to determine average linear velocities in the Plattsmouth Limestone and Shale members. Based on attached references the reported values are unreasonably high.
- R240.21 The porosity values of 0.05 for the Plattsmouth Limestone and 0.20 for the Jackson Park and Heumader Shale members were estimated on the basis of examination of drill cores. It should be emphasized here that porosity refers to fracture porosity and not to unconnected interstitial pores. As reported in Section 2.4.13.3.3 of the Wolf Creek Final Safety Analysis Report (FSAR), the total porosity of nine Heumader shale samples was also measured on the basis of bulk density and found to be 0.15. The effective porosity was estimated to be 80 percent of the total porosity or 0.12 on the basis of Routson and Serne (1972).

If one uses an effective porosity of 0.12 for the shale members rather than 0.20, the average linear velocity would be 13.5 feet per year and the travel time for ground water to travel from the cooling lake to the outcrop would be about 60 years rather than 100 years. Likewise, if one uses an effective porosity of 0.01 rather than 0.05 for the Plattsmouth Limestone, the travel time for ground water to travel from the cooling lake to the outcrop would be 480 years rather than 2400 years. A significant point to emphasize here is that even if lower estimated effective porosities are assumed, the average permeabilities of the members are still very low and ground water travel times are extremely long.

Reference

Routson, R. C., and Serne, R. J., 1972, Experimental support studies for the percol and transport models: Battelle Pacific Northwest Laboratories, Richland, Washington, BNWL-1719.



- Q240.22 Is the Heumader Shale Member considered to be an aquifer or aquitard or both within and proximal to the cooling lake area? Please support your position with data from tables and/or references.
- R240.22 The terms aquifer and aquitard are generally relative terms. For two saturated geologic formations which are in direct contact with each other, the one with the higher permeability could be considered to be an aquifer and the one with the lower permeability could be considered to be an aquitard. Also, a formation with a certain permeability in one region might be considered to be an aquifer, whereas a formation having the same permeability in a different region might not be considered an aquifer. The term aquifer also involves economic factors. An aquifer can be defined as a water bearing geologic formation which is capable of yielding water to wells in economic quantities. In Table 2.4-6 the Heumader Shale Member is indicated as having a permeability of about 3.0×10^{-6} cm/sec and is indicated as yielding less than three gallons per minute to wells. If this limited quantity would be sufficient to supply the water needs of a particular user, then that user might consider the Heumader Shale to be an aquifer. However, if one compares the permeability of the Heumader Shale (3.0×10^{-6} cm/sec in Table 2.4-6) with the permeability of the overlying Jackson Park Shale (4.4×10^{-5} cm/sec and 1.9×10^{-5} cm/sec in Table 2.4-6), the Heumader Shale could be considered to be an aquitard.

However, from Table 2.4-7 which gives ranges of permeability for the members of

Jackson Park Shale: 5×10^{-7} to 5×10^{-5} cm/sec

Heumader Shale: 3×10^{-7} to 3×10^{-5} cm/sec

it appears that on the average there is not any significant difference between these two members.

Q240.23 You state that in-situ permeability tests were performed using falling head methods. These methods however, are subject to numerous problems ranging from construction of the infiltration sump to chemical incompatibility of the water used in the test. To assess the validity of the tests run, please provide a detailed description of the methods, techniques, and an analysis of these tests, including construction, completion and development of test wells.

R240.23 The in-situ permeability tests were conducted in the piezometers installed in boreholes at the Wolf Creek site. The piezometer installations and the methods used for conducting the falling head permeability tests are described in Wolf Creek Final Safety Analysis Report (FSAR) Sections 2.5.4.3.2.2 and 2.5.4.3.2.3.

Boreholes were drilled in rock utilizing NX-wireline core barrels. After completion of drilling operations the water was blown out of the boreholes prior to the installation of piezometers. The piezometers consisted of 0.75-inch I.D. PVC pipe, perforated throughout the length of the zone being monitored.

Gravel was placed around the piezometers in the monitored zones, and the zones were sealed above and below with bentonite pellets or cement grout. The remainder of the borehole was filled with cement grout or gravel. When more than one piezometer was installed in a boring, this procedure was repeated for each piezometer. The top of the borehole was sealed with cement to prevent entry of surface runoff and to provide protection for the piezometer pipes.

The in-situ falling head permeability tests were conducted in the piezometers using the following procedure:

1. Initial water level readings were recorded to determine the static water level before testing;
2. The piezometer was rapidly filled to the top with water obtained from the New Strawn, Kansas water system. The volumes of water used and time for filling were recorded;
3. Over a period of 20 to 50 minutes, the rate that the water level dropped in the piezometer was recorded by determining the water level readings at even-minute intervals; and

R240.23 (continued)

4. Water levels in other piezometers within the boring were rechecked to determine if the piezometers were properly sealed.

The field observations permitted calculation of the permeabilities of the zones monitored by each piezometer. The field data were reduced and analyzed to obtain values of transmissivity (T) and permeability (K) using the methods of Ferris et al (1962), and Cedergren (1967).

The Ferris (1962) method used a plot of (s) versus (1/t) on arithmetic graph paper to determine the transmissivity (T) by the equation

$$T = \frac{114.6 \, q \, \frac{1}{t_m}}{s} \quad \text{where } s = \text{residual head and } t_m = \text{measurement time}$$

The permeability K was determined by the equation $K = \frac{T}{m}$ where m is the saturated thickness tested.

The Cedergren (1967) method employed the basic time lag Tlag from a semi-log plot of h/ho. The shape factor F was determined by:

$$F = \frac{2\pi L}{\ln \left(\frac{L}{R} \right)} \quad \text{where } L = \text{slotted interval and } R = \text{radius}$$

The permeability K was determined by

$$K = \frac{A}{F \, T_{\text{lag}}} \quad \text{where } A = 0.00306$$

References

Ferris, J. G., D. B. Knowles, R. H. Browne, and R. W. Stallman. 1962. Theory of aquifer tests: U.S. Geol. Surv. Water-Supply Paper 1536-E.

Cedergren, H. R. 1967. Seepage, Drainage and Flow Nets. John Wiley & Sons, New York.



Q240.24 In Section 2.4.2.4.2 you state that seepage rates from the cooling lake will not increase due to quarrying of Plattsmouth and Toronto Limestones prior to filling. As most of the restriction to flow is reportedly caused by the overburden materials which will be removed during quarrying, your conclusion about the seepage rates appears to be unsupported. Please provide the rationale for this statement.

R240.24 The statement in Section 2.4.2.4.2 is that quarrying of portions of the Plattsmouth and Toronto Limestones during construction will not "significantly" increase the rate of seepage after the filling of the cooling lake.

In Section 2.4.2.4.2 the seepage rates Q were estimated by use of the Darcy equation $Q = k i a$ where (k) is the permeability of the medium transmitting the water flow, (i) is the hydraulic gradient and (a) is the area of the aquifer in a plane normal to the direction of ground water flow. The permeability values listed in Table 2.4-10 are conservative in that the values used in the calculations are those of the bedrock units and are not permeability values of the overburden.

Section 2.4.2.4.2 does not state that most of the restrictions to flow is caused by the overburden materials, and the effect of overburden materials was not included in the seepage calculations. If the flow restrictions caused by overburden materials were to be taken into account, the calculated seepage rates would be less than those reported in Section 2.4.2.4.2 and Table 2.4-10.

The quarries are located primarily in Sector 4 of Figure 2.4-17. From Table 2.4-10 the estimated seepage through Sector 4 for the Plattsmouth Limestone is .00269 ft³/min. For the Toronto Limestone the estimated seepage is .0011 ft³/min. The total estimated seepage for these two members in Sector 4 is, thus, .00379 ft³/min. The total estimated seepage from the cooling lake is 0.82 ft³/min. Thus, the estimated seepage from these two formations in the area of the quarries is approximately 0.46 percent of the total estimated seepage from the cooling lake.

It is assumed that quarrying of the two limestone members has reduced the pathway length by one-half for water to travel from the cooling lake to the formation discharge points in the west slope of the hill, then the hydraulic gradient

R240.24 (continued)

would be doubled for these two members in Sector 4. By doubling the hydraulic gradient, the seepage rate would be doubled, according to the Darcy equation, thereby increasing the estimated seepage flow rate from 0.00379 to .00758 ft³/min. This would increase the total estimated seepage rate from the cooling lake from 0.82 to 0.82379 ft³/min. This represents an estimated increase in flow rate of about 0.46 percent which is not a significant increase in the estimated seepage flow rate from the cooling lake.