Site Insolation and Wind Power Characteristics

Technical Report Midwest Region

Published August 1980

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U.S. Department of Energy
Assistant Secretary for Conservation & Solar Energy
Office of Solar Applications for Buildings
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Prepared for:

U.S. Department of Energy
Assistant Secretary for Conservation & Solar Energy
Office of Solar Applications for Buildings
Washington, D.C. 20545

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FOREWORD

This technical report presents work performed by Northrop Services, Inc., Huntsville, Alabama, while under contract (EG-77-C-01-4016) to the United States Department of Energy (DOE). The DOE Project Manager for the study was Dr. Morton B. Prince, Division of Photovoltaic Energy Systems. Technical coordination was provided by the Solar Energy Research Institute (SERI) Renewable Resource Assessment Branch.

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Roger E. Bray
Principal Investigator

ABSTRACT

This phase of the Site Insolation and Wind Power Characteristics Study was performed to provide statistical information on the expected future availability of solar and wind power at various sites in the Midwest Region of the U.S. Historic data (SOLMET), at 22 National Weather Service stations with hourly solar insolation and collateral meteorological information, were interrogated to provide an estimate of future trends. Solar data are global radiation incident on a horizontal surface, and wind data represent wind power normal to the air flow. Selected insolation and wind power conditions were investigated for their occurrence and persistence, for defined periods of time, on a monthly basis. Global horizontal insolation are related to inclined surfaces at each site. Ratios are provided, monthly, for multiplying global insolation to obtain insolation estimates on south-facing surfaces inclined at different angles with respect to the horizontal. Also, joint probability distribution tables are constructed showing the number of occurrences, out of a finite sample size, of daily average solar and wind power within selected intervals, by month. Information of this nature are intended as an aid to preliminary planning activities for the design and operation of solar and wind energy utilization and conversion systems.

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Section I

INTRODUCTION

Past occurrences of specific weather phenomena provide a reasonable inference of the chance of similar conditions occurring at any given time in the future. Preliminary planning data leading to the design and operation of solar and wind energy utilization and conversion systems should include knowledge of expected solar insolation and wind power trends. Thus, this study phase was performed to provide historic statistical information on solar and wind power availability in the Midwest Region of the United States. A total of 22 NOAA SOLMET stations were selected to represent this region. Statistical information on the occurrence and persistence of selected solar and wind conditions are derived for these sites.

The Midwest Region for this study was defined to conform to the responsible area of the DOE Midwest Regional Solar Energy Center. The states located in this area, and the stations selected for this study from among the states, are shown in Figure 1-1. The stations with asterisks are rehabilitated SOLMET data stations, while the others are derived SOLMET data stations. The historic data at these sites cover time periods of nearly 25 years and are quality controlled hourly solar insolation and collateral surface meteorological data.

Global solar radiation and wind speed data taken from the SOLMET tapes are used to derive daily average insolation and daily average wind power. Empirical probabilities are constructed from these historic data for:

- average daily insolation and average daily wind power, independently, equaling or exceeding (as well as being below) five thresholds, on a monthly basis, for successive occurrences of up to one week,
- persistence, for up to one week, of insolation and wind power, independently, at or above (as well as below) five thresholds, on a monthly basis, and
- the (successive) occurrence and persistence of joint combinations of insolation and wind power equaling or exceeding (as well as being below) all permutations of three thresholds each, also for periods of up to one week.

- DERIVED DATA STATION
- * REHABILITATED DATA STATION

Figure 1-1. SOLMET STATIONS — MIDWEST REGION

Diurnal wind power variations are also considered. Empirical probabilities are constructed for daytime wind power (wind-day) and for nighttime wind power (wind-night), in addition to the daily average wind power (wind-total). All wind power and insolation data are averaged on a 24 hour basis.

Global horizontal insolation (as recorded historically) are related to inclined surfaces at each site using the Becker and Boyd method (ref. 2). Ratios are provided by month for multiplying global insolation to obtain insolation estimates on south-facing surfaces inclined at five different angles with respect to the horizontal. These ratios are based on data for the 21st of each month.

Joint probability distribution tables are constructed showing the number of occurrences, out of a finite sample size, of daily average solar and wind power within selected intervals, by month. Joint distributions were obtained for insolation and wind-day, and for insolation and wind-total. Insolation was divided into seven intervals and wind power was divided into eight intervals.

Presented in Section II is the technical approach followed in accomplishing the study. This section includes study methodology, data requirements and statistical techniques. The statistical results for the occurrence and persistence of selected solar and wind events are presented in Section III. Summary results of the study are included with results presented in Volume I showing monthly, seasonal and annual values of daily average insolation and wind power for sites in all regions.

Section II

TECHNICAL APPROACH

The following subsections comprise the basic technical discussion leading to presentation of the study results. The objectives of the study (discussed in the previous section) and how to accomplish them are presented in a study methodology overview. A discussion of the data requirements encompasses collection and preparation of the SOLMET data for statistical processing. Finally, the statistical techniques are presented which were used in obtaining the empirical probabilities derived for the occurrence and persistence of selected solar and wind events.

2.1 METHODOLOGY

An overview of the logic flow used in accomplishing the study is, presented in Figure 2-1. Hourly climatological data, as discussed in the following subsection, are input for a particular weather station. Daily average values of solar insolation and wind power (which is constructed from wind speed data as will be discussed later) are obtained. These data are assigned, using character codes, to within small intervals of an overall power range for each variable. The coded values are stored, by month, on magnetic tape. Thresholds of insolation and wind power are selected for use in deriving statistical information. Insolation and wind events (including diurnal effects) are set up both independently and combined. An event is defined as a meteorological variable (e.g., insolation) being greater than or equal to, or less than, one of the power thresholds previously selected. Counts are obtained for the number of occurrences of each event, on a monthly basis, for one through 14 successive days. Using these counts, empirical probabilities are constructed for 1,..., or 14 successive days, by month, where each event is satisfied. Probabilities for persistence of the events for 2,..., and 14 days are also constructed.

Statistical results (Section III) are presented for events persisting for only up to one week. Analyses indicated few occurrences result past one weeks duration. Greater detail, as well as user information, on each program shown in Figure 2-1 is found in Appendix B in Volume I.

Figure 2-1. STUDY METHODOLOGY OVERVIEW

2.2 DATA REQUIREMENTS

Historic data at the 22 NOAA SOLMET stations selected in the Midwest region (Figure 1-1) are archived by NOAA and were provided on magnetic tape. Most of the tapes have 25 years of quality controlled hourly solar insolation and collateral surface meteorological data.

The specific data from the tapes required for this study are solar insolation and surface wind speed. Insolation data used were from the Standard Year Corrected field on the tapes, which are originally observed data corrected via a standard year irradiance model (ref. 13). Wind speed observations are recorded as observed; however, after the data are read, corrections are made to adjust the wind speed data to a common 10 meter height. This adjustment is made using a one-seventh power law, which is reasonable for the usual airport environment of the SOLMET stations.

The basic unit of energy used for this study is power, in watts/m². The basic period of time is the day. Thus, by simple calculations, solar and wind energy can be compared in the same units.

The insolation data taken from the tapes are global radiation data incident on a horizontal surface, based on a solar constant of 1377 Joules/(m²·s); that is, total direct and diffuse radiation. Hourly insolation data are summed for the day, converted to watts/m² and divided by 24 (or by 8 if data has been recorded every third hour) to obtain a daily average value of insolation. This procedure is consistent with climatic chart summaries published in atlases by the National Climatic Center.

Wind speed data from the tapes can be used in expressing wind energy in terms of power. The amount of wind power contained in the wind is calculated by one-half the air density times the cube of the wind speed. (Windmill theory, ref. 1, shows that a maximum of 59.3% of the power contained in the wind can be extracted as useful kinetic energy.) Atmospheric pressure and dry bulb temperature data are also taken from the tapes for use in calculating density. Thus, wind power is computed at each observation in watts/m², summed for the day, and, analogous to insolation, divided by the total number of observations in

the day to obtain a daily average value of wind power. Diurnal wind power data are obtained in the same way. Note that wind speed data, before computing power, are limited to what is defined a useful wind speed range. Wind speeds below 1.6 m/s (about 3.5 mph) are considered to produce no wind power. In addition, literature and private communications have shown that most wind energy conversion systems discussed reach rated output at wind speeds lower than 14.2 m/s (about 32 mph). Thus, for this study, wind speeds above 14.2 m/s were set to 14.2 m/s to eliminate biasing daily average values of wind power due to unusually high or gusty winds.

The daily average values of insolation and wind power are assigned to character coded small power intervals. For example, the code ED (as seen in Figure 2-2) refers to a daily average insolation of between 40 and 49 watts/m² and a daily average wind power of between 60 and 79 watts/m². This coding process is, basically, to aid in defining, or selecting, solar and wind power levels, or thresholds, for use in the statistical portion of the study. The intervals for insolation (Figure 2-2) are coded in increments of 10 watts/m² until insolation reaches 300 watts/m², then increments of 20 watts/m² until insolation reaches 400 watts/m². The last interval is insolation from 400 watts/m². Intervals for wind power are in increments of 20 watts/m² until daily average wind power reaches 700 watts/m². The last interval is wind power from 700 watts/m². The coding matrix contains 37 rows and 37 columns. The first interval in each row and column was coded blank to handle any days where data is missing.

Generation of diurnal wind power statistics requires knowledge of sunrise/sunset time. For this purpose, each day's hourly observations from the SOLMET tapes were classified in day-night cycles. This was accomplished by externally computing sunrise and sunset at each station on the 15th of each month. It was assumed that this definition would be adequate for the entire month. These data, which were adjusted to the nearest solar hour providing meaningful observational data, were input to the study program.

INSOLATION (WATTS/M ²)	WIND POWER (WATTS/M ²)																																							
	BAD DATA	0-19	20-39	40-59	60-79	80-99	100-119	120-139	140-159	160-179	180-199	200-219	220-239	240-259	260-279	280-299	300-319	320-339	340-359	360-379	380-399	400-419	420-439	440-459	460-479	480-499	500-519	520-539	540-559	560-579	580-599	600-619	620-639	640-659	660-679	680-699	700			
BAD DATA	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	0	1	2	3	4	5	6	7	8	9				
0-9	A	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	AO	A1	A2	A3	A4	A5	A6	A7	A8	A9			
10-19	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	BO	B1	B2	B3	B4	B5	B6	B7	B8	B9			
20-29	C	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	CO	C1	C2	C3	C4	C5	C6	C7	C8	C9			
30-39	D	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	DO	D1	D2	D3	D4	D5	D6	D7	D8	D9			
40-49	E	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	EO	E1	E2	E3	E4	E5	E6	E7	E8	E9			
50-59	F	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	FO	F1	F2	F3	F4	F5	F6	F7	F8	F9			
60-69	G	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	GO	G1	G2	G3	G4	G5	G6	G7	G8	G9			
70-79	H	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	HO	H1	H2	H3	H4	H5	H6	H7	H8	H9			
80-89	I	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	IO	I1	I2	I3	I4	I5	I6	I7	I8	I9			
90-99	J	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	QJ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	JO	J1	J2	J3	J4	J5	J6	J7	J8	J9			
100-109	K	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	KO	K1	K2	K3	K4	K5	K6	K7	K8	K9			
110-119	L	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	LO	L1	L2	L3	L4	L5	L6	L7	L8	L9			
120-129	M	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	MO	M1	M2	M3	M4	M5	M6	M7	M8	M9			
130-139	N	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	NO	N1	N2	N3	N4	N5	N6	N7	N8	N9			
140-149	O	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	OO	O1	O2	O3	O4	O5	O6	O7	O8	O9			
150-159	P	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	PO	P1	P2	P3	P4	P5	P6	P7	P8	P9			
160-169	Q	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	QO	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9			
170-179	R	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	RO	R1	R2	R3	R4	R5	R6	R7	R8	R9			
180-189	S	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	SO	S1	S2	S3	S4	S5	S6	S7	S8	S9			
190-199	T	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	TO	T1	T2	T3	T4	T5	T6	T7	T8	T9			
200-209	U	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	UO	U1	U2	U3	U4	U5	U6	U7	U8	U9			
210-219	V	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	VO	V1	V2	V3	V4	V5	V6	V7	V8	V9			
220-229	W	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	WO	W1	W2	W3	W4	W5	W6	W7	W8	W9			
230-239	X	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	XO	X1	X2	X3	X4	X5	X6	X7	X8	X9			
240-249	Y	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	YO	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9			
250-259	Z	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	ZO	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9			
260-269	0	0A	0B	0C	0D	0E	0F	0G	0H	0I	0J	0K	0L	0M	0N	0O	0P	0Q	0R	0S	0T	0U	0V	0W	0X	0Y	0Z	0O	01	02	03	04	05	06	07	08	09			
270-279	1	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1O	11	12	13	14	15	16	17	18	19			
280-289	2	2A	2B	2C	2D	2E	2F	2G	2H	2I	2J	2K	2L	2M	2N	2O	2P	2Q	2R	2S	2T	2U	2V	2W	2X	2Y	2Z	2O	21	22	23	24	25	26	27	28	29			
290-299	3	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	3M	3N	3O	3P	3Q	3R	3S	3T	3U	3V	3W	3X	3Y	3Z	3O	31	32	33	34	35	36	37	38	39			
300-319	4	4A	4B	4C	4D	4E	4F	4G	4H	4I	4J	4K	4L	4M	4N	4O	4P	4Q	4R	4S	4T	4U	4V	4W	4X	4Y	4Z	4O	41	42	43	44	45	46	47	48	49			
320-339	5	5A	5B	5C	5D	5E	5F	5G	5H	5I	5J	5K	5L	5M	5N	5O	5P	5Q	5R	5S	5T	5U	5V	5W	5X	5Y	5Z	5O	51	52	53	54	55	56	57	58	59			
340-359	6	6A	6B	6C	6D	6E	6F	6G	6H	6I	6J	6K	6L	6M	6N	6O	6P	6Q	6R	6S	6T	6U	6V	6W	6X	6Y	6Z	6O	61	62	63	64	65	66	67	68	69			
360-379	7	7A	7B	7C	7D	7E	7F	7G	7H	7I	7J	7K	7L	7M	7N	7O	7P	7Q	7R	7S	7T	7U	7V	7W	7X	7Y	7Z	7O	71	72	73	74	75	76	77	78	79			
380-399	8	8A	8B	8C	8D	8E	8F	8G	8H	8I	8J	8K	8L	8M	8N	8O	8P	8Q	8R	8S	8T	8U	8V	8W	8X	8Y	8Z	8O	81	82	83	84	85	86	87	88	89			
400	9	9A	9B	9C	9D	9E	9F	9G	9H	9I	9J	9K	9L	9M	9N	9O	9P	9Q	9R	9S	9T	9U	9V	9W	9X	9Y	9Z	9O	91	92	93	94	95	96	97	98	99			

Figure 2-2. CODING MATRIX FOR INSOLATION AND WIND POWER INTERVALS

2.3 STATISTICAL TECHNIQUES

Statistical information are derived for the occurrence and persistence of insolation and wind power at or above specific levels, or thresholds. Statistical data are also derived for solar and wind power below the same selected thresholds. These data are in the form of empirical probabilities formed from the number of times a specific event occurs in a period of time.

Counts are obtained for the number of occurrences of an event during a given month. Unconditional probabilities are formed by dividing the number of occurrences by the sample size, which is the number of days in the month. Similar probabilities can be obtained for an event occurring for any number of successive days, short of the sample size. For this study, unconditional probabilities were generated for events occurring for 1 through 14 successive days. Note that possibilities of occurrence were investigated into the following month for N-1 successive days to eliminate end-point problems and keep the sample size the same for each successive day string being considered. Probabilities of this nature are then used in determining empirical probabilities for events persisting for periods of time once they have occurred.

The probability of persistence is defined as the probability that an event will continue to occur once it has occurred. The calculation of the probability that insolation or wind power will remain at or above a given value for a specified period of time, knowing that the event occurred initially, is based on the definition of conditional probability. For example, let A and B be two events. Suppose that one is interested in knowing the probability that A will occur subject to the restriction that B has occurred. Since B has occurred, the sample space consists of only those points lying within event B. From the definition of conditional probability,

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

where	$P(A B)$	= probability of event A given that event B has occurred
	$P(A \cap B)$	= joint probability of event A and event B
	$P(B)$	= unconditional probability of event B.

Conditional probabilities used to establish probabilities of persistence are applied in this study as follows. Let $\{I_1\}$ be the first day that the insolation equals or exceeds some given value. Let $\{I_1 I_2 I_3\}$ be a sequence of three consecutive days of insolation being at or above the same value. Finally, let $\{I_2 I_3 | I_1\}$ denote the event that, given that the insolation equals or exceeds a specified value in day 1 (therefore, I_1), insolation remains at or above that value for two immediately following days. Therefore,

$$P(I_2 I_3 | I_1) = \frac{P(I_1 I_2 I_3)}{P(I_1)}$$

Note that event A was the event that the insolation remained at or above a specified value for the next two days, that is $I_2 I_3$. By definition the event $I_2 I_3$ is not valid unless I_1 has occurred; therefore, their intersection is the event $I_1 I_2 I_3$. Also, note that the sample spaces of the above three probabilities are not the same. The sample spaces for the two probabilities on the right-hand side of the expression are identical and consist of the total number of observations made. The sample space for the left-hand side of the expression consists of the number of "successes" of I_1 . Utilizing the relative frequency concept of probability, if 25 observations are taken resulting in 10 "successes" for $\{I_1\}$ and 3 "successes" for $\{I_1 I_2 I_3\}$, then the sample space for $\{I_2 I_3 | I_1\}$ is 10 and the probability of the event can be said to be

$$P(I_2 I_3 | I_1) = \frac{3/25}{10/25} = \frac{3}{10}$$

The definition of the sample space and the method of counting successes are very important in any statistical study. In this study, observations are considered to be made each day. A "success" for a simple event, such as an insolation value, consists of that value satisfying a specific threshold requirement. When the persistence of that event over N days is considered, a "success" consists of any one occurrence of the event followed immediately by (N-1) consecutive days the event continues to be satisfied. In both cases, the sample size remains the number of observations made. To further illustrate this point, suppose that the insolation remains at or above a given value for six consecutive days. There are six successes for the simple event. If the

persistence of that event over three-day periods is a primary concern, four successes would be counted (that is, each of the first four observations is immediately followed by two consecutive days above the given range). Assuming that the six days are the only successes of a sample space of one month, 30 days, then the unconditional probability of the simple event occurring is 20% and the unconditional probability of successes for three-day periods is 13.3%. One can readily see, however, that the chance (conditional probability) for a success for two additional days once a success occurs (defined here as three-day persistence) becomes $4/6$, or 66.7%.

Empirical probabilities as discussed above (both unconditional and conditional) were derived, by month, for successive day occurrences and persistences of up to two weeks. These were obtained, at each of the Midwest region SOLMET stations selected, for selected levels of insolation and wind power (including diurnal effects), and are presented in the following section.

Section III

INSOLATION AND WIND POWER STATISTICS

One of the objectives of this study was to provide probability estimates of daily averages of insolation and wind power occurring and persisting at or above specified thresholds for up to one week. Probabilities of this nature provide an inference of the chance of having certain levels of insolation, or wind power as contained in the wind, being available for any day, or a period of days, in each month. Insolation and wind power (including diurnal wind effects) are considered both independently and in combination. Joint probability distribution tables were also developed to show the proportion of days that have wind power and insolation within defined intervals. These statistical data were constructed on a monthly basis at each selected SOLMET station reporting hourly solar and surface meteorological data in the Midwest region (Figure 1-1). These type data will be of specific interest to solar and wind power generation planning activities.

The following subsections present the statistical results of the study. Wind power among stations varies considerably. Thus, each station is placed in one of three defined wind power categories for assigning thresholds that provide meaningful statistical data. Insolation is not as variable, so only one set of thresholds is assigned. The categories (as shown in Table 3-1) are identified as high wind, moderate wind or low wind areas, where the stations are listed alphabetically. Different wind power thresholds are selected for each of the three wind areas. The wind power thresholds selected were: high wind areas - 80, 140, 200, 260 and 320 watts/m²; moderate wind areas - 60, 100, 140, 180 and 220 watts/m²; and low wind areas - 40, 80, 120, 160, and 200 watts/m². Insolation thresholds for all stations were 60, 120, 180, 240 and 300 watts/m².

Empirical probabilities are presented for daily average insolation and daily average wind data. Wind data are presented on a daytime, nighttime and total day basis. An estimate of the daily average wind speed that would correspond, or relate, to the wind power ranges presented, has also been provided. Daily average wind speed associated with the average wind power

Table 3-1. STATIONS CLASSIFIED BY WIND CHARACTERISTICS
- MIDWEST REGION

HIGH WINDS	MODERATE WINDS	LOW WINDS
Bismarck, ND Dodge City, KS Fargo, ND Goodland, KS Grand Island, NB Minot, ND Rapid City, SD Sioux Falls, SD Springfield, IL Wichita, KS	Chicago, IL Cleveland, OH Columbia, MO Dayton, OH Des Moines, IA Fort Wayne, IN Green Bay, WI Madison, WI North Omaha, NB Springfield, MO	Grand Rapids, MI Minneapolis, MN

calculation for the same day was recorded over the 20 years, or so, of data at several stations. By taking the mean of the distribution of daily average wind speeds at several power levels, one can come up with a wind speed vs wind power relationship (as shown in Figure 3-1) that can be used as a first order representation.

Results of the study are discussed in the following subsections, with the data being presented in tabular formats in the appendices. Sample plots are also shown as a suggestion of one possible user approach to visualizing monthly variability of the statistics developed. Empirical probabilities are presented in Appendix A for the occurrence and persistence of selected solar and wind events for each station. Data to estimate solar radiation on various inclined surfaces at each site are shown in Appendix B. The joint solar and wind power probability distribution tables are shown in Appendix C. An example of one method of looking at the month to month variation in empirical probabilities is presented in sample plots shown in Appendix D.

3.1 EMPIRICAL PROBABILITIES

3.1.1 Successive Day Probabilities

Probabilities were generated, by month, for daily average insolation, wind (day), wind (night) and wind (total day) each, independently, equaling or exceeding 5 thresholds. Similar probabilities were also generated for solar and wind power below the same thresholds. These probabilities were constructed for the chance of the events occurring for 1, 3, 5 and 7 successive days at any time during each month. Insolation thresholds remain at 60, 120, 180, 240 and 300 watts/m² for each station. Wind power thresholds of 80, 140, 200, 260 and 320 watts/m² were selected for high wind areas; 60, 100, 140, 180 and 220 watts/m² for moderate wind areas; and 40, 80, 120, 160 and 200 watts/m² for low wind areas.

3.1.2 Probabilities of Persistence

Probabilities were generated, by month, for the insolation and wind variables each, independently, persisting for 2, 3, 5 and 7 days at or above each of five thresholds. Persistence probabilities for up to one week for

Figure 3-1. DAILY AVERAGE WIND POWER VS. DAILY AVERAGE WIND SPEED

events less than the thresholds were also generated. These are the N-day persistence probabilities for the chance, that once an event has occurred, during a month, it will continue to occur for N-1 additional days. The same power thresholds are used as discussed previously.

3.1.3 Joint Probabilities

Probabilities were also derived for the simultaneous occurrence of insolation and wind power events at or above (and below) specific thresholds. Combinations of insolation and wind (day), and insolation and wind (total) were considered for three thresholds of each. Probabilities were obtained for all permutations of the three thresholds each for 1, 2 and 3 successive days only, since preliminary studies showed there were not many occurrences past 3 days for the joint probabilities. The three thresholds selected for insolation were 50, 150 and 250 watts/m². For wind power, the thresholds selected were: 100, 200 and 300 watts/m² for high wind areas; 60, 120 and 180 watts/m² for moderate wind areas; and 40, 80 and 120 watts/m² for the low wind areas.

3.1.4 Tabular Data

The probabilities generated, as discussed in the preceeding subsections, were put into a tabular format for all of the events, thresholds, and successive days, or days of persistence, described. Similar tabular data were generated for all the Midwest region SOLMET stations, and these data are presented in Appendix A for each station, alphabetically. There are 12 total tables per station: 6 for probabilities of successive days, and 6 for probabilities of persistence. Each set of 6 tables presents probabilities for the events insolation, wind (day), wind (night), wind (total), combination insolation-wind (total). The thresholds are those defined previously.

Each table presents probabilities for up to one week, by month. The months, as seen in Table A-1 for Bismarck, are arranged in a calendar type format. The left-most column presents the interval, or threshold, of insolation for the corresponding row of probabilities. For example, the probability of insolation equal to or greater than 120 watts/m², for any successive three-day period in February at Bismarck can be seen, in Table A-1, to be 7%. The same successive day probability can be seen to be 80% in August.

Similar data are presented for Bismarck in Tables A-2 through A-6 for different events. Note that, for the joint probabilities (see Table A-5), the threshold values are presented for insolation first, and then wind. For example, in Table A-5, the probability, at Bismarck, for any three-day period in April, of insolation at or above 150 watts/m^2 when wind (day) is at or above 100 watts/m^2 , is 40%. Probabilities for persistence are shown in Tables A-7 through A-12 for Bismarck. Similar tabular data generated for the other Midwest SOLMET stations are presented in the remainder of Appendix A.

3.2 INSOLATION ON INCLINED SURFACES

Global horizontal insolation (as recorded historically) were related to inclined surfaces at each site using the Becker and Boyd daily average data method (ref. 2). Ratios are provided for each month, based on the 21st day, for multiplying global insolation to obtain insolation estimates on south-facing surfaces inclined at five different angles with respect to the horizontal. The tilt angles chosen were 10, 30, 50, 70 and 90 degrees (vertical). The tilt ratios are presented in Appendix B for each station, alphabetically. The tables are self-explanatory. One can find ratios for different days or other angles using linear interpolation.

3.3 JOINT PROBABILITY DISTRIBUTION TABLES

Joint probability distributions were derived to show the proportion of days that have wind power and insolation within defined intervals. Two-dimensional cells were defined for storing the total number of joint occurrences of insolation and wind power. Cell boundaries are defined by seven intervals of insolation and eight intervals of wind power, making a total of 56 cells. The number of times were recorded that each daily average insolation and wind power value (jointly) fell within one of the cells. These data were constructed by month, where the sample size for each month was the total number of observations (or days) over the total historic record. Of course, days with either solar or wind missing could not be used in obtaining the counts. The total number of observations for each month reflect any missing days. To the best of our knowledge, missing SOLMET tape data are random due to equipment failure, relocations, etc. and are not a function of climatology (high winds, etc.). Thus, missing data do not bias or affect counts or probabilities constructed.

The seven intervals chosen for insolation were 0-60, 60-120, 120-180, 180-240, 240-300, 300-360, and values greater than 360 watts/m². For wind power the intervals were 0-100, 100-200, 200-300, 300-400, 400-500, 500-600, 600-700, and values greater than 700 watts/m². Joint probability distribution data are shown in Appendix C for insolation and wind-day, and for insolation and wind-total. The number of days of joint solar and wind occurrences, out of the total number of observations for each month, are shown in each cell, by month. Tables C-1 and C-2 present joint distribution data for Bismarck. One can see, from Table C-1, that there were 10 days out of a total of 711 January days (nearly 23 years of data) where insolation was between 60 and 120 watts/m² while wind power-day was between 200 and 300 watts/m². Similar data are presented for the other Midwest region stations in Tables C-3 through C-16.

3.4 SAMPLE GRAPHIC DATA

Sample plots were generated, as shown in Appendix D, to illustrate one possible user approach to visualizing monthly variability of the empirical statistics developed in subsection 3.1. The example graphic data presented in Figures D-1 through D-5 are computer generated plots showing one successive day (single occurrence) probabilities, by month, at or above defined thresholds. The data plotted are from the tables previously presented in Appendix A for Boston for the parameters insolation, wind-day, wind-night, wind-total and the combination insolation and wind-total. Roman numeral I on the plots is January, etc. If 2 or more characters are at the same point on the plot, then the total number of points is shown and not the characters, which define thresholds as identified in the figure title. Otherwise, the figures are self-explanatory.

3.5 SUMMARY

Examination of the data presented shows generally expected trends. Insolation is highest in the summer months and lowest in the winter. Wind power is usually highest in spring, and lower in summer than it is in the fall or winter. The diurnal variations of wind power show that at the majority of the stations day wind power is greater than nighttime wind power in all but the winter months. One can also see from the results that insolation has better persistence characteristics than does wind power.

Summary results of monthly average values of daily average insolation and wind power are presented in Volume I. These data were formed from the data presented here as an overview of the historic solar and wind conditions at the various SOLMET stations. These data are presented on a monthly, seasonal and annual basis by the use of tables, plots and maps.

Section IV

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Appendix A

TABLES - SUCCESSIVE DAY AND PERSISTENCE PROBABILITIES

Presented in this appendix are the study results in tabular format. Sample plots generated in subsection 3.4 were constructed from these tabular data. A total of 12 tables per station are presented: 6 for probabilities of successive days, and 6 for probabilities of persistence. Each set of 6 tables presents empirical probabilities for the events: insolation, wind (day), wind (night), wind (total), combination insolation-wind (day), and combination insolation-wind (total). The tables are presented for each station, alphabetically, as seen in the following table of contents.

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TABLE A- 1. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	50	18	9	5	50	16	4	1	83	66	53	43	17	3	1	0
120	0	0	0	0	100	100	100	100	22	7	2	0	78	57	45	35
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
240	0	0	0	0	100	100	100	100	0	0	0	0	100	98	94	90
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	94	85	77	71	6	0	0	0	98	94	91	88	2	0	0	0
120	84	65	51	42	16	2	0	0	90	75	62	54	10	0	0	0
180	75	51	37	27	25	5	1	0	80	56	39	29	20	2	1	0
240	61	32	18	11	39	12	4	1	70	41	24	15	30	7	3	1
300	35	9	2	1	65	34	17	8	50	18	6	2	50	18	8	3
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	93	83	74	66	7	1	0	0	83	61	45	34	17	2	0	0
120	81	59	45	34	19	3	1	0	56	26	13	7	45	21	14	11
180	58	28	14	8	42	16	8	6	2	0	0	0	98	97	97	97
240	12	1	0	0	88	80	77	76	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 2. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	22	2	0	0	78	51	33	21	23	2	0	0	77	47	27	13
140	10	0	0	0	90	74	61	50	10	0	0	0	90	72	57	45
200	5	0	0	0	95	86	78	69	6	0	0	0	94	83	73	63
260	2	0	0	0	98	92	87	81	3	0	0	0	97	91	85	79
320	1	0	0	0	99	96	93	90	2	0	0	0	98	94	90	86
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	61	24	10	4	39	8	2	1	45	12	3	0	55	21	9	5
140	39	8	2	0	61	27	13	6	23	3	0	0	78	52	36	25
200	24	3	0	0	76	50	35	25	11	0	0	0	89	74	62	52
260	13	1	0	0	87	67	53	43	6	0	0	0	94	83	75	68
320	8	0	0	0	92	79	69	61	3	0	0	0	97	91	85	81
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	41	8	1	0	59	22	7	2	35	5	0	0	65	29	13	7
140	24	2	0	0	76	46	26	15	20	1	0	0	80	53	36	24
200	12	1	0	0	88	70	55	44	11	0	0	0	89	70	55	43
260	6	0	0	0	94	83	73	66	7	0	0	0	93	81	72	64
320	3	0	0	0	97	90	84	78	4	0	0	0	96	88	82	76

TABLE A- 3. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	40	10	3	1	61	28	13	6	35	7	1	0	65	35	19	9
140	23	3	1	0	77	51	33	22	17	2	0	0	83	61	46	34
200	13	1	0	0	87	70	58	47	11	1	0	0	89	73	62	52
260	9	1	0	0	91	79	70	63	7	0	0	0	93	81	72	65
320	5	0	0	0	95	86	79	74	6	0	0	0	94	85	77	70
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	23	5	1	0	77	56	43	34	13	1	0	0	87	69	53	41
140	9	1	0	0	91	79	70	63	4	0	0	0	96	91	86	81
200	3	0	0	0	97	93	89	86	1	0	0	0	99	97	95	93
260	2	0	0	0	98	95	93	91	0	0	0	0	100	99	99	98
320	0	0	0	0	100	99	99	98	0	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	17	1	0	0	83	62	46	34	25	2	1	0	75	47	29	19
140	6	0	0	0	94	84	75	66	11	0	0	0	89	72	58	47
200	2	0	0	0	98	95	90	86	7	0	0	0	93	81	71	63
260	1	0	0	0	99	98	96	93	3	0	0	0	97	89	83	76
320	1	0	0	0	99	98	96	95	2	0	0	0	98	93	88	83

TABLE A- 4. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	52	19	7	2	48	16	4	1	53	19	6	1	47	15	5	2
140	34	8	2	1	66	33	16	8	32	6	1	0	68	38	21	11
200	25	3	0	0	75	47	29	18	22	3	0	0	78	53	35	23
260	17	2	0	0	83	61	46	34	16	1	0	0	84	63	48	37
320	13	1	0	0	88	70	58	48	11	1	0	0	89	71	56	45
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	71	39	20	10	29	4	1	1	57	22	9	3	43	11	3	1
140	52	19	7	2	48	17	5	2	34	8	2	0	67	35	17	8
200	36	9	3	1	64	34	18	10	20	2	0	0	80	57	39	28
260	25	4	0	0	75	48	32	22	12	1	0	0	88	72	58	49
320	17	1	0	0	83	62	49	38	8	0	0	0	92	81	71	63
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	56	21	7	2	44	13	4	1	56	22	9	3	44	12	4	1
140	35	6	1	0	65	30	13	5	34	6	1	0	66	33	17	8
200	23	2	0	0	77	49	30	18	23	1	0	0	77	47	29	18
260	14	1	0	0	86	65	49	36	17	1	0	0	83	58	41	29
320	9	0	0	0	91	76	64	54	13	0	0	0	87	68	53	42

TABLE A- 5. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - BISMARCK, NORTH DAKOTA

	JANUARY								FEBRUARY								MARCH								APRIL							
THRESHOLD	.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH			
	DAYS				DAYS				DAYS				DAYS				DAYS				DAYS				DAYS				DAYS			
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7				
50/100	11	0	0	0	27	4	1	0	16	1	0	0	8	1	0	0	34	7	2	1	2	0	0	0	46	12	4	1				
50/200	2	0	0	0	30	5	1	0	5	0	0	0	9	1	0	0	14	1	0	0	4	0	0	0	24	2	0	0				
50/300	0	0	0	0	32	5	1	0	2	0	0	0	10	1	0	0	6	0	0	0	4	0	0	0	10	0	0	0				
150/100	0	0	0	0	84	62	46	35	0	0	0	0	82	58	40	27	18	1	0	0	29	4	0	0	32	4	1	0				
150/200	0	0	0	0	95	86	78	69	0	0	0	0	94	82	70	58	7	0	0	0	40	10	1	0	17	1	0	0				
150/300	0	0	0	0	99	96	93	89	0	0	0	0	98	91	83	74	4	0	0	0	44	12	2	0	7	0	0	0				
250/100	0	0	0	0	84	62	46	35	0	0	0	0	82	58	41	28	0	0	0	0	63	28	13	6	12	0	0	0				
250/200	0	0	0	0	95	86	78	69	0	0	0	0	94	83	73	63	0	0	0	0	85	64	46	32	5	0	0	0				
250/300	0	0	0	0	99	96	93	89	0	0	0	0	98	93	88	83	0	0	0	0	93	81	69	58	2	0	0	0				
	MAY								JUNE								JULY								AUGUST							
THRESHOLD	.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH			
	DAYS				DAYS				DAYS				DAYS				DAYS				DAYS				DAYS				DAYS			
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7				
50/100	49	14	4	1	1	0	0	0	34	8	2	0	0	0	0	0	27	2	0	0	0	0	0	0	27	3	0	0				
50/200	22	3	0	0	3	0	0	0	11	0	0	0	1	0	0	0	8	0	0	0	0	0	0	0	7	0	0	0				
50/300	9	1	0	0	4	0	0	0	4	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0				
150/100	40	9	2	0	8	0	0	0	30	6	1	0	9	1	0	0	26	2	0	0	5	0	0	0	23	2	0	0				
150/200	18	2	0	0	15	1	0	0	10	0	0	0	13	1	0	0	7	0	0	0	6	0	0	0	7	0	0	0				
150/300	8	0	0	0	19	2	0	0	4	0	0	0	14	2	1	0	1	0	0	0	6	0	0	0	1	0	0	0				
250/100	27	3	1	0	17	2	1	0	22	3	1	0	20	2	0	0	21	1	0	0	18	1	0	0	14	1	0	0				
250/200	12	0	0	0	31	6	1	0	8	0	0	0	30	7	2	1	6	0	0	0	23	3	0	0	4	0	0	0				
250/300	5	0	0	0	38	11	3	1	3	0	0	0	32	8	3	1	1	0	0	0	24	3	0	0	1	0	0	0				
	SEPTEMBER								OCTOBER								NOVEMBER								DECEMBER							
THRESHOLD	.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH			
	DAYS				DAYS				DAYS				DAYS				DAYS				DAYS				DAYS				DAYS			
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7				
50/100	34	5	1	0	4	0	0	0	24	2	0	0	8	0	0	0	14	0	0	0	23	4	1	0	7	0	0	0				
50/200	12	1	0	0	5	0	0	0	10	0	0	0	10	1	0	0	5	0	0	0	29	6	1	0	1	0	0	0				
50/300	4	0	0	0	5	0	0	0	4	0	0	0	11	1	0	0	3	0	0	0	32	7	2	1	1	0	0	0				
150/100	25	3	1	0	18	2	0	0	7	0	0	0	54	27	14	8	0	0	0	0	76	49	32	21	0	0	0	0				
150/200	8	0	0	0	25	5	2	0	2	0	0	0	66	44	32	24	0	0	0	0	91	77	67	58	0	0	0	0				
150/300	2	0	0	0	28	6	3	1	1	0	0	0	71	55	47	43	0	0	0	0	96	89	83	78	0	0	0	0				
250/100	1	0	0	0	60	25	10	4	0	0	0	0	72	40	22	13	0	0	0	0	76	49	32	21	0	0	0	0				
250/200	0	0	0	0	83	64	49	39	0	0	0	0	89	70	55	43	0	0	0	0	91	77	67	58	0	0	0	0				
250/300	0	0	0	0	90	81	73	67	0	0	0	0	95	87	80	74	0	0	0	0	96	89	83	78	0	0	0	0				

TABLE A- 6. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - BISMARCK, NORTH DAKOTA

	JANUARY							FEBRUARY							MARCH							APRIL						
THRESHOLD	.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH			
I / W	DAYS			DAYS				DAYS			DAYS				DAYS			DAYS				DAYS			DAYS			
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	27	4	1	0	14	1	0	0	39	7	1	0	5	1	0	0	52	16	5	1	1	0	0	0	61	26	10	4
50/200	15	1	0	0	23	2	0	0	20	1	0	0	7	1	0	0	26	4	1	0	2	0	0	0	37	9	3	1
50/300	8	0	0	0	27	3	1	0	11	0	0	0	8	1	0	0	15	1	0	0	3	0	0	0	21	3	0	0
150/100	0	0	0	0	54	20	7	2	0	0	0	0	55	21	8	3	26	3	1	0	19	2	0	0	42	11	2	1
150/200	0	0	0	0	75	47	29	18	0	0	0	0	78	52	34	21	13	0	0	0	32	7	1	0	25	3	1	0
150/300	0	0	0	0	86	67	54	45	0	0	0	0	87	66	50	37	7	0	0	0	38	9	1	0	14	1	0	0
250/100	0	0	0	0	54	20	7	2	0	0	0	0	55	21	8	3	0	0	0	0	44	12	3	1	16	1	0	0
250/200	0	0	0	0	75	47	29	18	0	0	0	0	78	53	35	23	0	0	0	0	71	41	23	11	8	0	0	0
250/300	0	0	0	0	86	67	54	45	0	0	0	0	87	68	53	41	0	0	0	0	84	61	42	28	4	0	0	0
	MAY							JUNE							JULY							AUGUST						
THRESHOLD	.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH			
I / W	DAYS			DAYS				DAYS			DAYS				DAYS			DAYS				DAYS			DAYS			
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	61	24	8	3	1	0	0	0	49	15	5	1	0	0	0	0	39	6	1	0	0	0	0	0	39	9	2	1
50/200	33	7	2	0	2	0	0	0	19	2	0	0	1	0	0	0	12	0	0	0	0	0	0	0	15	1	0	0
50/300	18	2	0	0	3	0	0	0	9	1	0	0	1	0	0	0	4	0	0	0	0	0	0	0	5	0	0	0
150/100	49	15	4	1	5	0	0	0	42	10	3	1	6	0	0	0	36	4	0	0	3	0	0	0	34	6	1	0
150/200	26	4	1	0	11	0	0	0	17	2	0	0	11	1	0	0	11	0	0	0	6	0	0	0	13	1	0	0
150/300	14	1	0	0	15	1	0	0	8	0	0	0	13	1	0	0	4	0	0	0	6	0	0	0	5	0	0	0
250/100	34	6	1	0	12	2	0	0	32	6	2	0	15	1	0	0	28	2	0	0	13	0	0	0	22	2	0	0
250/200	18	1	0	0	25	4	1	0	12	1	0	0	26	4	1	1	10	0	0	0	22	2	0	0	8	0	0	0
250/300	9	0	0	0	32	7	2	0	6	0	0	0	30	6	2	1	3	0	0	0	23	3	0	0	3	0	0	0
	SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
THRESHOLD	.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH				.GE. THRESH			.LT. THRESH			
I / W	DAYS			DAYS				DAYS			DAYS				DAYS			DAYS				DAYS			DAYS			
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	44	10	3	1	3	0	0	0	40	8	2	0	5	0	0	0	26	3	0	0	16	3	0	0	17	0	0	0
50/200	21	2	0	0	4	0	0	0	19	1	0	0	7	0	0	0	14	1	0	0	22	4	1	0	10	0	0	0
50/300	10	0	0	0	5	0	0	0	11	1	0	0	9	0	0	0	9	0	0	0	26	4	1	0	5	0	0	0
150/100	32	5	1	1	14	1	0	0	11	1	0	0	38	11	4	2	0	0	0	0	57	27	14	7	0	0	0	0
150/200	15	1	0	0	21	3	0	0	3	0	0	0	55	28	16	9	0	0	0	0	76	52	37	25	0	0	0	0
150/300	7	0	0	0	25	5	2	0	3	0	0	0	63	40	28	22	0	0	0	0	85	64	51	40	0	0	0	0
250/100	2	0	0	0	50	16	6	3	0	0	0	0	53	18	7	3	0	0	0	0	57	27	14	7	0	0	0	0
250/200	1	0	0	0	73	45	27	15	0	0	0	0	77	47	29	18	0	0	0	0	76	52	37	25	0	0	0	0
250/300	0	0	0	0	84	66	53	42	0	0	0	0	86	65	50	38	0	0	0	0	85	64	51	40	0	0	0	0

TABLE A- 7. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	57	35	16	9	53	30	8	2	87	78	62	49	27	11	2	1
120	0	0	0	0	100	100	100	100	46	24	6	2	84	73	57	45
180	0	0	0	0	100	100	100	100	0	0	0	0	53	27	9	3
240	0	0	0	0	100	100	100	100	0	0	0	0	77	60	39	26
300	0	0	0	0	100	100	100	100	0	0	0	0	99	98	95	90
	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	12	6	2	0	91	83	69	57	18	6	0	0	81	65	43	29
	36	17	1	0	81	65	43	29	51	28	6	1	66	43	18	8
	69	47	19	7	99	98	95	90	97	95	89	82	97	95	89	82
	97	95	89	82	97	95	89	82	97	95	89	82	97	95	89	82
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	95	90	82	75	12	3	0	0	98	96	93	89	2	0	0	0
120	87	76	59	49	28	9	1	0	90	82	68	58	14	3	0	0
180	81	66	47	34	39	19	4	0	83	68	48	35	27	6	2	0
240	69	49	27	16	51	29	8	1	76	57	33	20	41	18	6	2
300	47	22	5	2	71	50	24	10	57	32	10	3	57	33	13	5
	99	99	98	96	0	0	0	0	99	99	98	96	0	0	0	0
	99	99	98	96	0	0	0	0	99	99	98	96	0	0	0	0
	93	86	72	59	11	2	0	0	93	86	72	59	11	2	0	0
	86	73	52	36	22	9	2	1	86	73	52	36	22	9	2	1
	72	53	28	14	47	27	6	1	72	53	28	14	47	27	6	1
	31	11	3	1	91	86	81	78	31	11	3	1	91	86	81	78
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	94	88	78	69	8	3	0	0	84	71	52	39	28	7	1	0
120	84	72	54	41	35	11	2	0	65	44	21	10	60	44	28	24
180	67	46	22	12	59	35	17	12	9	1	0	0	99	99	99	99
240	32	7	1	0	93	90	87	86	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	35	15	4	1	73	54	30	16	65	42	16	5	52	29	8	3
	73	54	30	16	65	42	16	5	52	29	8	3	73	54	30	16
	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 8. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	26	8	0	0	79	64	40	25	29	6	0	0	78	60	35	17
140	15	2	0	0	90	81	66	54	17	3	0	0	89	79	63	49
200	6	0	0	0	95	90	81	72	13	3	0	0	94	89	78	67
260	0	0	0	0	97	94	89	83	0	0	0	0	97	94	87	81
320	0	0	0	0	99	97	94	91	0	0	0	0	98	95	91	87
	48	25	6	3	58	32	10	3	48	25	6	3	58	32	10	3
	57	35	15	7	37	11	2	0	57	35	15	7	37	11	2	0
	37	11	2	0	62	39	16	7	31	9	1	0	77	58	34	19
	38	17	4	1	62	39	16	7	17	4	0	0	86	74	53	37
	28	7	1	0	76	58	36	23	16	3	0	0	91	83	68	54
	16	3	0	0	85	72	53	40	9	1	0	0	94	89	79	69
	13	1	0	0	91	84	71	58	13	1	0	0	91	84	71	58
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	62	37	14	5	44	20	4	2	47	23	5	0	57	34	14	7
140	42	19	3	0	64	43	19	9	28	10	1	0	81	66	44	30
200	30	10	0	0	79	64	43	31	18	3	0	0	90	82	68	58
260	18	4	0	0	88	77	61	49	4	1	0	0	94	89	80	72
320	11	1	0	0	92	85	74	65	2	1	0	0	97	94	88	83
	37	11	1	0	65	42	19	9	37	12	1	0	74	56	34	20
	26	6	0	0	84	71	53	38	15	2	0	0	86	73	53	40
	22	8	0	0	84	71	53	38	15	2	0	0	86	73	53	40
	6	0	0	0	92	85	73	64	9	1	0	0	92	84	72	62
	9	0	0	0	97	94	89	84	3	0	0	0	95	90	82	75
	1	0	0	0	99	98	96	94	0	0	0	0	99	98	96	94
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	40	16	1	0	59	35	10	4	37	13	1	0	65	42	19	9
140	28	6	0	0	78	60	33	19	19	3	0	0	80	64	42	28
200	13	3	0	0	89	78	61	49	11	1	0	0	89	79	62	48
260	5	0	0	0	94	88	78	69	6	0	0	0	93	87	77	67
320	3	0	0	0	97	93	87	81	5	0	0	0	96	92	85	79
	74	56	34	20	65	42	19	9	37	12	1	0	74	56	34	20
	26	6	0	0	82	66	43	28	15	2	0	0	84	71	53	38
	13	1	0	0	91	82	67	54	9	1	0	0	92	84	72	62
	9	0	0	0	96	92	85	79	3	0	0	0	97	94	87	82
	2	0	0	0	98	95	91	87	0	0	0	0	98	95	91	87
	1	0	0	0	99	97	95	92	0	0	0	0	99	97	95	92

TABLE A- 9. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	49	24	6	1	66	44	19	8	45	18	2	0	72	52	27	12
140	28	11	2	0	80	64	41	26	32	8	1	0	85	73	54	40
200	20	5	1	0	89	80	65	52	18	3	0	0	90	82	68	57
260	15	4	0	0	93	86	76	67	14	1	0	0	93	87	77	68
320	7	3	0	0	95	90	83	77	12	0	0	0	95	89	81	73
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	38	15	1	0	82	70	53	42	18	3	0	0	89	78	60	46
140	16	3	0	0	92	86	76	68	7	1	0	0	99	97	95	92
200	9	2	0	0	98	96	92	88	3	0	0	0	100	99	98	97
260	3	0	0	0	99	97	94	92	2	0	0	0	100	99	99	99
320	1	0	0	0	100	99	99	99	0	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	26	4	0	0	86	73	53	38	32	8	2	0	77	60	37	23
140	8	1	0	0	94	89	78	69	19	3	0	0	89	80	64	51
200	4	0	0	0	98	96	91	87	11	0	0	0	93	87	76	66
260	2	0	0	0	99	98	96	94	5	0	0	0	96	92	85	78
320	2	0	0	0	99	99	97	95	1	0	0	0	97	95	89	84

TABLE A- 10. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - BISMARCK, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	57	34	12	4	53	29	6	1	59	35	11	2	53	29	10	3
140	40	17	5	1	69	49	22	11	43	17	1	0	72	54	28	14
200	27	10	1	0	76	60	36	21	37	11	0	0	81	66	43	28
260	24	7	1	0	85	73	54	40	29	5	0	0	86	74	55	42
320	15	3	0	0	89	79	64	53	20	4	0	0	89	79	63	49
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	74	54	27	13	37	13	3	2	59	36	14	5	47	22	6	2
140	58	34	11	3	57	34	10	3	41	21	5	1	71	51	24	10
200	44	22	6	2	70	52	27	14	26	8	1	0	83	70	47	33
260	33	13	1	0	78	63	41	26	14	3	0	0	89	81	65	54
320	22	5	0	0	84	73	57	45	12	1	0	0	93	87	77	68
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	61	36	11	3	50	27	7	2	60	36	14	5	47	25	7	2
140	38	14	1	0	67	44	19	7	40	16	3	1	68	48	23	10
200	24	6	1	0	80	62	37	21	27	6	1	0	77	59	36	22
260	18	4	0	0	88	75	56	41	21	4	0	0	83	70	48	33
320	9	0	0	0	92	83	70	56	19	2	0	0	88	77	60	46

TABLE A- 11. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - BISMARCK, NORTH DAKOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	8	1	0	0	30	10	2	0	25	5	0	0	44	22	6	2
50/200	1	0	0	0	32	12	2	0	12	3	0	0	23	6	1	0
50/300	0	0	0	0	33	13	3	0	0	0	0	0	8	1	0	0
150/100	0	0	0	0	85	72	53	40	0	0	0	0	35	10	1	0
150/200	0	0	0	0	95	90	81	72	0	0	0	0	17	3	0	0
150/300	0	0	0	0	99	97	94	90	0	0	0	0	3	0	0	0
250/100	0	0	0	0	85	72	53	40	0	0	0	0	16	3	0	0
250/200	0	0	0	0	95	90	81	72	0	0	0	0	6	1	0	0
250/300	0	0	0	0	99	97	94	90	0	0	0	0	2	0	0	0
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	52	26	6	2	41	20	4	0	26	5	0	0	29	10	1	0
50/200	29	10	0	0	18	3	0	0	5	0	0	0	6	0	0	0
50/300	14	2	0	0	4	1	0	0	0	0	0	0	1	0	0	0
150/100	43	19	5	1	37	16	3	0	26	5	0	0	23	7	0	0
150/200	24	7	0	0	17	3	0	0	5	0	0	0	5	0	0	0
150/300	10	2	0	0	4	1	0	0	0	0	0	0	1	0	0	0
250/100	28	10	2	0	30	10	2	0	23	3	0	0	18	3	0	0
250/200	15	2	0	0	10	1	0	0	4	0	0	0	2	0	0	0
250/300	6	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	35	12	1	0	27	8	0	0	14	2	0	0	5	0	0	0
50/200	12	3	0	0	9	1	0	0	3	0	0	0	0	0	0	0
50/300	2	0	0	0	4	0	0	0	2	0	0	0	0	0	0	0
150/100	26	8	1	0	16	1	0	0	0	0	0	0	0	0	0	0
150/200	7	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0
150/300	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
250/100	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A- 12. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - BISMARCK, NORTH DAKOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	29	11	2	0	41	15	2	0	54	29	8	1	63	40	15	6
50/200	12	2	0	0	28	5	0	0	37	12	1	0	41	20	5	1
50/300	6	0	0	0	19	1	0	0	18	3	0	0	24	8	1	0
150/100	0	0	0	0	0	0	0	0	31	9	2	0	50	23	4	1
150/200	0	0	0	0	0	0	0	0	14	1	0	0	30	9	1	0
150/300	0	0	0	0	0	0	0	0	5	0	0	0	17	4	0	0
250/100	0	0	0	0	0	0	0	0	0	0	0	0	19	3	0	0
250/200	0	0	0	0	0	0	0	0	0	0	0	0	17	6	0	0
250/300	0	0	0	0	0	0	0	0	0	0	0	0	9	3	0	0
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	63	38	12	4	52	29	8	2	43	15	2	0	44	19	4	1
50/200	40	18	4	1	26	8	1	0	18	1	0	0	25	7	1	0
50/300	23	8	0	0	12	2	0	0	6	0	0	0	7	1	0	0
150/100	54	28	6	1	45	21	6	2	39	11	1	0	40	16	3	0
150/200	33	13	3	1	23	7	1	0	18	1	0	0	20	4	0	0
150/300	20	4	0	0	10	2	0	0	6	0	0	0	4	1	0	0
250/100	38	16	2	1	36	16	4	1	29	5	0	0	28	8	0	0
250/200	23	6	1	0	16	3	1	0	12	0	0	0	14	1	0	0
250/300	13	1	0	0	3	0	0	0	2	0	0	0	5	0	0	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	47	21	5	1	43	18	3	0	32	11	1	0	14	2	1	1
50/200	25	7	1	0	20	4	0	0	22	4	0	0	8	1	0	0
50/300	12	2	0	0	15	3	0	0	9	0	0	0	4	0	0	0
150/100	35	13	3	1	18	3	0	0	3	0	0	0	0	0	0	0
150/200	15	4	0	0	9	1	0	0	0	0	0	0	0	0	0	0
150/300	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/100	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/200	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A- 13. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CHICAGO, ILLINOIS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	54	19	7	2	46	14	5	1	70	38	21	12	30	4	1	0
120	2	1	1	0	98	94	89	83	39	11	5	2	61	26	12	4
180	0	0	0	0	100	100	100	100	4	0	0	0	96	89	82	74
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	98	97	96	1	0	0	0	100	100	100	100	0	0	0	0
120	85	63	49	39	15	1	0	0	94	85	77	69	6	0	0	0
180	68	38	23	13	32	7	1	0	84	65	51	41	16	1	0	0
240	55	26	12	6	45	16	7	2	69	39	22	13	31	6	1	0
300	33	9	3	1	67	38	22	14	45	16	6	2	55	22	9	3
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	97	91	85	78	3	0	0	0	85	64	48	36	15	2	0	0
120	79	54	37	25	21	3	0	0	61	32	17	10	39	16	7	4
180	58	26	11	4	42	14	4	2	7	1	0	0	93	88	87	86
240	10	2	0	0	90	83	79	77	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 14. PROBABILITY(X), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CHICAGO, ILLINOIS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	36	9	3	1	64	32	18	10	47	13	4	1	53	19	8	4
100	19	2	0	0	81	58	43	32	27	4	0	0	73	42	25	16
140	10	1	0	0	90	73	61	51	18	1	0	0	82	58	40	28
180	6	0	0	0	94	83	73	64	11	1	0	0	89	74	60	49
220	4	0	0	0	96	88	81	74	6	0	0	0	94	83	72	63
	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	48	16	7	3	52	22	9	3	40	11	4	1	60	30	18	11
100	28	4	1	0	72	43	28	18	19	2	0	0	81	59	45	35
140	18	1	0	0	82	61	47	37	11	1	0	0	89	75	66	58
180	10	0	0	0	90	78	67	60	5	0	0	0	95	87	79	73
220	6	0	0	0	94	86	79	73	3	0	0	0	97	92	87	83
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	29	4	1	1	71	40	24	15	33	7	2	1	67	36	22	15
100	13	0	0	0	87	68	55	44	16	1	0	0	84	64	51	41
140	6	0	0	0	94	85	75	67	8	0	0	0	92	79	68	59
180	3	0	0	0	97	92	87	82	4	0	0	0	96	88	80	73
220	1	0	0	0	99	96	93	90	2	0	0	0	98	93	89	85

TABLE A- 15. PROBABILITY(X), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CHICAGO, ILLINOIS

		JANUARY				FEBRUARY				MARCH				APRIL																		
THRESHOLD	.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH																		
	DAYS	: DAYS			DAYS	: DAYS			DAYS	: DAYS			DAYS	: DAYS																		
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7																	
60	54	26	14	8	46	20	11	7	49	21	8	4	52	26	14	8	50	22	7	2	50	23	11	6	37	8	2	0	63	34	21	14
100	35	9	2	1	65	38	24	15	29	7	1	0	71	46	31	22	31	6	1	0	69	42	25	14	20	2	0	0	80	58	46	37
140	23	4	1	0	77	54	39	26	18	2	0	0	82	62	48	39	18	2	0	0	82	61	45	32	11	1	0	0	89	75	64	56
180	15	2	0	0	85	68	55	45	11	1	0	0	89	74	62	52	11	1	0	0	89	73	61	50	6	0	0	0	94	84	76	69
220	9	1	0	0	91	78	69	60	6	0	0	0	94	85	75	67	8	0	0	0	92	80	69	60	4	0	0	0	96	90	85	81
		MAY				JUNE				JULY				AUGUST																		
THRESHOLD	.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH																		
	DAYS	: DAYS			DAYS	: DAYS			DAYS	: DAYS			DAYS	: DAYS																		
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7																	
60	19	3	0	0	81	63	51	43	6	0	0	0	94	85	78	72	4	0	0	0	96	90	85	81	5	0	0	0	95	87	79	72
100	8	1	0	0	92	82	73	66	2	0	0	0	98	96	94	92	1	0	0	0	99	98	97	95	1	0	0	0	99	98	96	95
140	3	0	0	0	97	92	87	83	1	0	0	0	99	98	97	96	0	0	0	0	100	99	99	98	0	0	0	0	100	99	98	97
180	1	0	0	0	99	98	97	96	0	0	0	0	100	98	98	97	0	0	0	0	100	100	99	99	0	0	0	0	100	100	100	100
220	0	0	0	0	100	100	99	99	0	0	0	0	100	99	99	98	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
		SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER																		
THRESHOLD	.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH			.GE. THRESH	: .LT. THRESH																		
	DAYS	: DAYS			DAYS	: DAYS			DAYS	: DAYS			DAYS	: DAYS																		
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7																	
60	13	2	0	0	87	69	55	44	31	6	1	0	69	42	26	17	45	15	4	1	55	25	11	6	55	24	10	5	45	15	5	2
100	6	0	0	0	94	86	77	69	15	2	0	0	85	66	51	39	27	4	0	0	73	45	27	16	32	7	1	0	68	39	23	14
140	2	0	0	0	98	94	90	86	7	0	0	0	93	81	71	63	17	2	0	0	83	63	47	34	19	2	0	0	81	60	43	34
180	1	0	0	0	99	96	94	91	4	0	0	0	96	89	82	76	12	1	0	0	88	74	59	47	12	1	0	0	86	73	61	52
220	0	0	0	0	100	98	97	96	2	0	0	0	98	94	90	86	10	0	0	0	90	77	65	53	8	1	0	0	92	82	73	68

TABLE A- 16. PROBABILITY(X), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CHICAGO, ILLINOIS

		JANUARY				FEBRUARY				MARCH				APRIL																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
60		71	45	31	23	29	8	3	2	73	44	28	19	27	5	1	0	75	51	36	26	25	6	1	0	74	47	30	20	26	4	2	1
100		53	25	13	7	47	18	9	5	56	23	11	6	44	15	5	2	60	30	15	7	40	13	5	1	57	24	10	4	43	14	6	3
140		41	13	5	2	59	28	17	11	43	14	4	1	57	27	13	7	46	17	5	1	54	26	13	8	42	11	2	1	58	25	12	7
180		32	8	2	0	68	40	26	16	31	7	1	0	69	40	24	17	34	7	1	0	66	36	21	11	33	7	1	0	67	37	22	14
220		24	5	1	0	76	52	37	26	24	4	1	0	76	51	35	25	26	3	0	0	74	46	29	16	26	4	1	0	74	46	31	22
		MAY				JUNE				JULY				AUGUST																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
60		65	33	17	10	35	9	2	0	54	25	13	7	46	19	11	6	37	9	1	0	63	33	20	14	37	10	4	2	63	32	16	9
100		44	14	5	2	56	25	12	6	30	6	2	0	70	43	31	22	19	2	0	0	81	60	49	41	17	2	0	0	83	62	46	35
140		29	6	2	1	71	43	27	18	18	2	0	0	82	60	48	39	9	1	0	0	91	79	70	63	8	0	0	0	92	79	67	57
180		21	3	0	0	79	56	42	33	12	1	0	0	88	73	61	52	5	0	0	0	95	88	83	77	4	0	0	0	96	87	80	73
220		14	1	0	0	86	69	58	50	7	0	0	0	93	83	75	68	2	0	0	0	98	94	90	87	2	0	0	0	98	94	91	88
		SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
60		49	18	8	4	51	19	9	4	59	29	13	7	41	15	8	5	70	38	21	11	30	6	2	0	71	42	24	14	29	5	1	0
100		27	5	2	1	73	43	26	16	39	10	3	1	61	30	17	11	51	18	6	2	49	18	6	2	54	21	7	3	46	16	6	3
140		16	1	0	0	84	63	48	38	26	4	0	0	74	47	31	21	37	9	2	1	63	31	15	8	32	8	2	0	62	32	17	10
180		10	0	0	0	90	74	61	52	18	2	0	0	82	60	46	35	28	4	0	0	72	44	27	16	28	3	0	0	72	43	27	19
220		6	0	0	0	94	85	76	68	11	1	0	0	89	73	61	50	22	2	0	0	78	53	36	23	19	2	0	0	81	56	42	33

TABLE A- 17. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CHICAGO, ILLINOIS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	22	2	1	0	27	4	1	0	39	8	2	1	10	0	0	0
50/120	8	0	0	0	35	8	2	1	18	1	0	0	21	2	0	0
50/180	3	0	0	0	38	9	2	1	9	0	0	0	12	0	0	0
150/ 60	0	0	0	0	64	32	18	10	9	1	0	0	43	13	5	3
150/120	0	0	0	0	87	68	54	43	5	0	0	0	65	35	19	11
150/180	0	0	0	0	94	83	73	64	3	0	0	0	73	46	29	20
250/ 60	0	0	0	0	64	32	18	10	0	0	0	0	53	19	8	4
250/120	0	0	0	0	87	68	54	43	0	0	0	0	79	53	35	23
250/180	0	0	0	0	94	83	73	64	0	0	0	0	89	74	60	49
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	48	18	7	3	0	0	0	0	40	11	4	1	0	0	0	0
50/120	22	2	0	0	0	0	0	0	15	1	0	0	0	0	0	0
50/180	10	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
150/ 60	37	9	3	1	13	1	0	0	35	8	2	0	6	0	0	0
150/120	17	1	0	0	18	2	0	0	13	0	0	0	9	0	0	0
150/180	7	0	0	0	21	2	0	0	5	0	0	0	11	1	0	0
250/ 60	24	3	0	0	23	5	1	1	25	3	1	0	19	2	0	0
250/120	10	0	0	0	36	10	3	1	9	0	0	0	29	5	0	0
250/180	4	0	0	0	42	14	5	1	4	0	0	0	32	6	1	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	28	3	1	1	1	0	0	0	30	6	2	1	5	0	0	0
50/120	7	0	0	0	1	0	0	0	9	0	0	0	7	0	0	0
50/180	2	0	0	0	1	0	0	0	4	0	0	0	8	0	0	0
150/ 60	19	1	0	0	20	3	1	0	11	2	0	0	41	15	7	5
150/120	5	0	0	0	27	5	1	0	3	0	0	0	56	31	19	13
150/180	1	0	0	0	29	5	1	0	1	0	0	0	59	39	29	24
250/ 60	1	0	0	0	69	38	22	14	0	0	0	0	67	36	22	15
250/120	0	0	0	0	89	75	64	56	0	0	0	0	90	74	62	52
250/180	0	0	0	0	94	87	81	77	0	0	0	0	96	88	80	73

TABLE A- 18. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CHICAGO, ILLINOIS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	43	13	5	2	12	0	0	0	59	25	12	6	4	0	0	0
50/120	28	5	2	1	22	3	1	0	40	12	4	2	9	0	0	0
50/180	19	3	0	0	28	5	1	0	26	4	0	0	13	0	0	0
150/ 60	0	0	0	0	29	8	3	2	13	2	0	0	20	4	1	0
150/120	0	0	0	0	53	22	12	7	9	2	0	0	41	13	5	3
150/180	0	0	0	0	68	40	26	16	7	0	0	0	57	26	14	8
250/ 60	0	0	0	0	29	8	3	2	0	0	0	0	21	5	1	0
250/120	0	0	0	0	53	22	12	7	0	0	0	0	57	20	9	4
250/180	0	0	0	0	68	40	26	16	0	0	0	0	69	40	24	17
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	65	33	17	10	0	0	0	0	54	25	13	7	0	0	0	0
50/120	36	9	2	1	0	0	0	0	24	3	1	0	0	0	0	0
50/180	21	3	0	0	0	0	0	0	12	1	0	0	0	0	0	0
150/ 60	49	16	6	3	8	1	0	0	47	18	7	3	4	0	0	0
150/120	27	4	1	0	14	1	0	0	20	2	0	0	8	0	0	0
150/180	16	1	0	0	18	2	0	0	10	0	0	0	9	0	0	0
250/ 60	33	7	1	0	16	3	1	0	34	6	1	0	14	1	0	0
250/120	17	2	0	0	28	6	2	1	14	1	0	0	24	3	0	0
250/180	10	0	0	0	36	10	3	1	7	0	0	0	30	4	0	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	48	17	7	4	0	0	0	0	53	21	8	4	2	0	0	0
50/120	20	2	0	0	1	0	0	0	29	5	1	0	5	0	0	0
50/180	9	0	0	0	1	0	0	0	16	1	0	0	6	0	0	0
150/ 60	32	6	1	0	13	1	0	0	18	3	1	1	22	5	2	1
150/120	12	0	0	0	22	3	1	0	10	1	0	0	41	15	7	4
150/180	5	0	0	0	26	4	1	0	5	0	0	0	49	23	12	8
250/ 60	1	0	0	0	49	18	9	4	0	0	0	0	41	15	8	5
250/120	0	0	0	0	77	50	34	25	0	0	0	0	68	39	24	16
250/180	0	0	0	0	87	70	57	48	0	0	0	0	82	60	46	35

TABLE A- 19. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - CHICAGO, ILLINOIS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	59	35	13	3	53	28	9	2	72	54	30	17	32	13	3	0
120	16	8	4	3	98	96	91	85	49	25	10	4	65	42	19	7
180	0	0	0	0	100	100	100	100	14	7	0	0	96	93	85	77
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	99	97	96	0	0	0	0	100	100	100	100	0	0	0	0
120	85	74	57	45	20	6	0	0	95	91	82	73	7	2	0	0
180	73	55	32	19	42	19	3	0	87	76	59	47	23	5	0	0
240	64	45	20	10	58	35	13	4	74	54	30	18	36	15	1	0
300	44	22	7	2	73	55	31	19	56	34	12	5	62	38	15	6
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	97	93	87	80	2	0	0	0	86	75	54	41	25	11	2	0
120	81	67	45	30	30	11	0	0	69	50	26	14	58	37	15	9
180	66	44	18	7	56	32	10	6	29	5	0	0	97	95	94	93
240	29	9	1	0	95	92	87	85	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 20. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - CHICAGO, ILLINOIS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	43	22	5	1	65	46	25	13	48	24	7	2	53	30	11	5
100	24	7	1	0	82	69	50	36	32	11	1	0	73	55	30	18
140	16	4	0	0	90	81	66	54	19	6	0	0	82	67	45	30
180	13	2	0	0	94	88	77	67	15	3	0	0	90	81	65	53
220	4	1	0	0	96	91	84	76	4	0	0	0	94	88	76	66
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	58	35	13	5	62	39	16	5	47	22	7	2	65	46	25	16
100	33	12	2	0	76	57	36	23	23	5	0	0	82	70	53	40
140	24	5	0	0	85	73	55	44	16	3	0	0	91	82	69	57
180	17	2	0	0	92	86	74	65	9	1	0	0	95	91	82	75
220	10	0	0	0	95	91	83	76	7	1	0	0	97	94	89	84
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	32	9	3	2	72	53	30	18	38	15	4	1	69	50	28	19
100	13	1	0	0	87	77	60	48	21	4	0	0	86	75	57	46
140	5	0	0	0	95	89	79	70	12	0	0	0	92	85	73	63
180	0	0	0	0	97	94	89	84	4	0	0	0	96	91	83	75
220	0	0	0	0	98	97	94	91	2	0	0	0	98	95	91	86

TABLE A- 21. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - CHICAGO, ILLINOIS

[illegible]

TABLE A- 22. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - CHICAGO, ILLINOIS

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	76	60	46	28	35	18	6	3	76	57	35	23	32	12	2	0
100	62	41	15	10	52	31	15	7	60	36	16	9	51	28	8	3
140	52	30	10	3	63	42	23	14	49	26	7	2	61	41	18	9
180	43	19	4	1	73	56	35	21	37	17	2	0	70	53	30	20
220	34	13	3	1	80	65	45	30	32	10	1	0	79	64	41	29
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	69	48	24	13	45	22	5	1	62	40	18	10	58	34	17	9
100	53	28	9	3	66	43	20	9	36	14	3	1	74	57	39	27
140	37	15	4	2	77	59	36	23	25	5	1	0	83	71	54	44
180	30	9	1	0	83	69	51	39	18	2	0	0	90	81	67	57
220	24	7	0	0	89	79	65	56	8	1	0	0	94	89	79	71
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	54	29	12	6	57	34	14	5	68	45	19	9	51	30	14	8
100	31	11	4	2	74	56	32	19	46	21	6	1	65	45	23	15
140	20	5	0	0	85	72	54	42	33	10	0	0	76	60	38	25
180	12	2	0	0	90	82	66	55	29	7	0	0	84	72	53	40
220	12	1	0	0	95	90	80	72	19	4	0	0	90	81	66	54

TABLE A- 25. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CLEVELAND, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	34	4	0	0	66	28	11	5	56	22	9	4	44	11	3	1
120	0	0	0	0	100	100	98	95	20	3	0	0	80	52	34	22
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	99	98
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	96	93	90	1	0	0	0	100	99	99	98	0	0	0	0
120	83	61	47	36	17	1	0	0	92	81	72	64	8	0	0	0
180	67	35	19	10	33	7	2	0	76	51	33	22	24	3	0	0
240	48	16	6	2	52	19	7	2	59	28	15	7	41	11	2	0
300	19	2	0	0	81	58	40	27	31	7	1	0	69	40	22	12
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	94	84	75	65	6	0	0	0	82	58	41	30	18	2	0	0
120	73	44	27	16	27	5	1	0	52	22	11	5	48	21	12	8
180	48	17	6	2	52	21	11	7	16	1	0	0	94	89	88	87
240	2	0	0	0	98	95	94	94	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 26. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CLEVELAND, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	48	15	5	1	52	18	7	3	47	16	5	2	53	21	9	4
100	30	4	0	0	70	40	24	14	29	5	1	0	71	42	26	17
140	19	1	0	0	81	58	42	32	17	2	0	0	83	61	46	36
180	12	0	0	0	88	69	55	45	10	0	0	0	90	75	63	53
220	7	0	0	0	93	81	70	61	6	0	0	0	94	83	73	64
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	46	14	4	1	54	21	9	4	36	8	1	0	64	31	16	8
100	26	4	0	0	74	48	32	23	16	2	0	0	84	64	48	38
140	16	1	0	0	84	62	47	38	9	0	0	0	91	77	65	56
180	9	0	0	0	91	77	67	58	5	0	0	0	95	87	79	71
220	6	0	0	0	94	85	77	71	2	0	0	0	98	94	90	86
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	25	3	0	0	75	47	29	16	32	6	1	0	68	37	22	14
100	9	0	0	0	91	78	65	54	17	1	0	0	83	60	44	33
140	3	0	0	0	97	91	86	81	6	0	0	0	94	82	72	63
180	1	0	0	0	99	96	94	91	3	0	0	0	97	91	85	79
220	0	0	0	0	100	99	99	98	1	0	0	0	99	95	92	89

TABLE A- 27. PROBABILITY(X), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CLEVELAND, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7
60	58	24 10 4	42	11 3 1	56	28 14 7	44	18 7 4	46	15 5 2	54	24 10 4	30	6 1 0	70	44 30 21
100	37	10 3 1	63	32 16 9	38	13 3 1	62	34 20 12	27	5 0 0	73	46 29 20	15	1 0 0	85	69 57 48
140	24	3 1 0	76	48 30 19	23	3 0 0	77	51 36 26	18	2 0 0	82	62 48 38	8	0 0 0	92	82 74 69
180	16	1 0 0	84	64 48 34	14	0 0 0	86	67 52 42	11	0 0 0	89	73 62 54	5	0 0 0	95	89 84 90
220	10	0 0 0	90	75 62 52	9	0 0 0	91	77 65 55	7	0 0 0	93	82 73 66	2	0 0 0	98	93 90 87
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7
60	10	1 0 0	90	79 71 65	4	0 0 0	96	89 83 76	2	0 0 0	98	93 89 86	1	0 0 0	99	96 93 90
100	4	0 0 0	96	91 88 85	1	0 0 0	99	98 96 95	0	0 0 0	100	98 97 96	0	0 0 0	100	99 99 98
140	1	0 0 0	99	97 95 93	0	0 0 0	100	99 99 98	0	0 0 0	100	100 99 99	0	0 0 0	100	100 99 99
180	0	0 0 0	100	99 98 97	0	0 0 0	100	99 99 98	0	0 0 0	100	100 99 99	0	0 0 0	100	100 99 99
220	0	0 0 0	100	100 99 99	0	0 0 0	100	100 99 99	0	0 0 0	100	100 100 100	0	0 0 0	100	100 99 99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7
60	10	0 0 0	90	75 61 49	24	4 1 1	76	49 32 22	47	17 5 2	53	23 11 6	58	28 13 6	42	13 4 1
100	4	0 0 0	96	88 81 74	9	0 0 0	91	75 62 50	29	6 1 0	71	43 26 17	37	10 3 1	63	32 16 8
140	1	0 0 0	99	96 93 90	3	0 0 0	97	91 85 78	19	2 0 0	81	57 38 26	24	3 1 0	76	52 35 26
180	0	0 0 0	100	99 98 97	1	0 0 0	99	95 92 88	12	1 0 0	88	72 58 45	16	2 0 0	84	65 51 41
220	0	0 0 0	100	100 99 99	1	0 0 0	99	97 94 91	8	1 0 0	92	79 68 58	11	1 0 0	89	74 63 54

TABLE A- 28. PROBABILITY(1), PY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CLEVELAND, OHIO

		JANUARY				FEBRUARY				MARCH				APRIL																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	DAYS	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
	1 3 5 7	1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7																	
60		77	51	34	23	23	3	1	0	72	46	29	19	28	8	3	1	73	45	27	17	27	5	2	0	72	42	25	16	28	6	1	0
100		61	28	13	7	39	9	2	1	58	29	14	8	42	14	6	3	57	23	9	3	43	13	4	1	52	19	7	3	48	18	8	4
140		48	16	6	2	52	19	7	2	48	20	7	3	52	23	11	5	46	13	3	1	54	21	8	3	39	10	3	1	61	31	17	10
180		39	10	3	0	61	29	15	6	39	12	3	1	61	33	19	10	36	7	1	0	64	33	18	10	29	5	1	0	71	43	27	19
220		30	5	1	0	70	40	24	15	29	5	0	0	71	42	24	14	27	4	0	0	73	43	26	16	22	3	0	0	78	52	36	26
		MAY				JUNE				JULY				AUGUST																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	DAYS	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
	1 3 5 7	1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7																	
60		59	26	13	7	41	12	3	1	49	16	4	1	51	21	9	5	35	5	0	0	65	33	17	9	31	4	0	0	69	36	18	10
100		38	11	3	1	62	33	18	11	26	5	1	0	74	47	30	21	18	1	0	0	82	60	45	34	13	0	0	0	87	67	52	40
140		26	5	1	0	74	48	34	25	15	1	0	0	85	67	53	43	9	0	0	0	91	77	67	58	6	0	0	0	94	84	75	67
180		17	1	0	0	83	62	49	39	8	0	0	0	92	80	69	60	4	0	0	0	96	89	83	77	2	0	0	0	98	93	87	82
220		11	0	0	0	89	75	64	56	5	0	0	0	95	87	79	72	2	0	0	0	98	95	92	89	1	0	0	0	99	97	95	92
		SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	DAYS	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
	1 3 5 7	1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7		1 3 5 7																	
60		41	11	3	1	59	26	11	3	55	25	10	4	45	16	5	2	68	39	20	11	32	8	2	1	75	47	29	17	25	6	1	0
100		21	2	0	0	79	52	36	23	37	9	2	0	63	33	20	12	53	22	8	2	47	17	7	3	59	27	11	5	41	12	3	1
140		11	0	0	0	89	72	58	46	23	4	0	0	77	51	34	22	41	11	2	0	59	26	14	8	45	14	4	2	55	22	8	3
180		7	0	0	0	93	81	71	61	15	1	0	0	85	65	49	38	31	7	1	0	69	39	22	14	34	8	2	0	66	34	18	9
220		5	0	0	0	95	87	79	73	9	0	0	0	91	76	62	51	23	3	1	0	77	51	31	20	27	5	1	0	73	44	26	16

TABLE A- 29. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CLEVELAND, OHIO

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	18	2	0	0	30	6	2	0	30	5	1	0	43	10	2	0
50/120	9	0	0	0	45	13	4	2	14	1	0	0	23	1	0	0
50/180	5	0	0	0	53	17	6	2	6	0	0	0	13	0	0	0
150/ 60	0	0	0	0	52	18	7	3	2	0	0	0	15	1	0	0
150/120	0	0	0	0	77	50	34	24	1	0	0	0	8	0	0	0
150/180	0	0	0	0	68	69	55	45	1	0	0	0	5	0	0	0
250/ 60	0	0	0	0	52	18	7	3	0	0	0	0	48	15	5	2
250/120	0	0	0	0	77	50	34	24	0	0	0	0	72	39	22	12
250/180	0	0	0	0	68	69	55	45	0	0	0	0	83	58	41	29
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	46	14	4	1	0	0	0	0	26	2	0	0	21	1	0	0
50/120	21	2	0	0	0	0	0	0	8	0	0	0	4	0	0	0
50/180	9	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
150/ 60	34	6	1	0	13	1	0	0	23	2	0	0	15	0	0	0
150/120	16	1	0	0	20	2	0	0	7	0	0	0	3	0	0	0
150/180	7	0	0	0	22	3	0	0	1	0	0	0	1	0	0	0
250/ 60	19	1	0	0	27	5	0	0	11	0	0	0	4	0	0	0
250/120	7	0	0	0	41	11	3	0	3	0	0	0	1	0	0	0
250/180	4	0	0	0	50	17	6	2	0	0	0	0	0	0	0	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	24	2	0	0	2	0	0	0	20	2	0	0	13	0	0	0
50/120	5	0	0	0	3	0	0	0	8	0	0	0	5	0	0	0
50/180	1	0	0	0	3	0	0	0	3	0	0	0	2	0	0	0
150/ 60	14	0	0	0	26	5	1	0	0	0	0	0	0	0	0	0
150/120	3	0	0	0	35	8	2	1	0	0	0	0	0	0	0	0
150/180	1	0	0	0	37	9	3	1	0	0	0	0	0	0	0	0
250/ 60	0	0	0	0	75	47	29	16	0	0	0	0	0	0	0	0
250/120	0	0	0	0	95	86	77	70	0	0	0	0	0	0	0	0
250/180	0	0	0	0	99	96	94	91	0	0	0	0	0	0	0	0

TABLE A- 30. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - CLEVELAND, OHIO

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	30	4	0	0	12	1	0	0	62	30	16	8	70	39	22	15
50/120	20	2	0	0	25	3	1	0	42	10	2	0	43	12	4	2
50/180	13	1	0	0	34	7	2	1	29	4	1	0	28	5	1	0
150/ 60	0	0	0	0	23	3	1	0	22	1	0	0	37	7	1	1
150/120	0	0	0	0	46	14	4	1	14	1	0	0	20	1	0	0
150/180	0	0	0	0	61	29	15	8	10	1	0	0	12	0	0	0
250/ 60	0	0	0	0	23	3	1	0	0	0	0	0	12	0	0	0
250/120	0	0	0	0	46	14	4	1	0	0	0	0	5	0	0	0
250/180	0	0	0	0	61	29	15	8	0	0	0	0	0	0	0	0
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	59	26	13	7	0	0	0	0	35	5	0	0	31	4	0	0
50/120	31	7	2	0	0	0	0	0	13	1	0	0	9	0	0	0
50/180	17	1	0	0	0	0	0	0	4	0	0	0	2	0	0	0
150/ 60	43	12	4	1	9	1	0	0	30	3	0	0	22	1	0	0
150/120	22	3	0	0	15	1	0	0	11	1	0	0	6	0	0	0
150/180	12	1	0	0	19	2	0	0	3	0	0	0	2	0	0	0
250/ 60	23	3	0	0	20	3	0	0	15	0	0	0	5	0	0	0
250/120	10	0	0	0	34	8	2	0	4	0	0	0	2	0	0	0
250/180	6	0	0	0	44	13	3	0	1	0	0	0	0	0	0	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	39	9	2	0	2	0	0	0	31	5	0	0	22	2	0	0
50/120	14	1	0	0	2	0	0	0	21	1	0	0	15	1	0	0
50/180	6	0	0	0	3	0	0	0	13	1	0	0	10	0	0	0
150/ 60	21	1	0	0	18	2	0	0	0	0	0	0	0	0	0	0
150/120	7	0	0	0	29	5	1	0	0	0	0	0	0	0	0	0
150/180	3	0	0	0	33	7	1	1	0	0	0	0	0	0	0	0
250/ 60	0	0	0	0	59	26	11	3	0	0	0	0	0	0	0	0
250/120	0	0	0	0	84	62	46	34	0	0	0	0	0	0	0	0
250/180	0	0	0	0	93	81	71	61	0	0	0	0	0	0	0	0

TABLE A- 31. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLD, FOR UP TO ONE WEEK - CLEVELAND, OHIO

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	34	10	1	0	66	41	16	7	61	37	14	6	45	23	5	1
120	0	0	0	0	100	100	98	95	29	10	0	0	80	64	41	26
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	99	98
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	97	94	92	5	0	0	0	100	99	99	99	0	0	0	0
120	85	73	54	41	21	5	1	0	93	87	76	67	11	2	1	0
180	72	51	27	14	40	18	4	0	82	66	43	27	36	11	1	0
240	55	31	10	4	60	37	13	4	67	45	23	11	51	25	4	1
300	25	7	1	0	64	70	48	32	43	19	3	0	76	58	32	17
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	94	89	78	68	8	1	0	0	84	71	49	35	32	10	1	0
120	77	59	36	21	38	16	3	1	64	40	17	8	65	43	23	15
180	56	33	12	4	61	38	19	12	21	6	0	0	97	95	94	93
240	6	1	0	0	98	98	96	96	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 32. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - CLEVELAND, OHIO

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	52	30	9	3	56	32	12	5	54	32	9	4	59	36	14	5
100	35	12	3	1	73	55	31	18	39	13	2	0	74	55	34	21
140	25	5	0	0	83	70	51	37	23	6	0	0	85	72	54	42
180	12	2	0	0	89	78	62	50	8	1	0	0	91	82	68	57
220	8	1	0	0	93	86	75	64	6	1	0	0	94	88	77	67
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	51	26	6	2	58	36	14	7	46	20	3	0	69	47	22	11
100	37	11	1	0	78	63	41	25	26	7	0	0	86	74	55	43
140	23	5	0	0	86	74	55	44	11	0	0	0	92	85	71	60
180	15	1	0	0	92	84	73	63	3	0	0	0	96	91	83	74
220	10	1	0	0	94	90	82	75	3	0	0	0	99	96	92	88
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	29	10	1	0	78	61	37	20	37	15	2	0	70	51	30	18
100	14	2	1	0	92	84	70	58	20	3	0	0	84	71	51	37
140	6	0	0	0	97	94	89	83	9	0	0	0	94	87	76	66
180	3	0	0	0	99	98	95	92	3	0	0	0	97	94	87	81
220	0	0	0	0	100	99	99	98	0	0	0	0	99	97	93	90

TABLE A- 33. PROBABILITY(X), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - CLEVELAND, OHIO

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	63	39	15	6	49	24	6	1	68	45	22	10	57	34	15	5
100	50	25	7	2	70	49	24	13	52	28	6	1	70	51	28	15
140	35	9	2	0	79	62	38	23	35	10	0	0	80	64	43	30
160	25	5	1	0	87	75	55	39	21	2	0	0	87	76	59	47
220	13	2	0	0	91	83	68	56	15	1	0	0	92	84	70	59
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	23	5	1	0	93	87	78	71	9	0	0	0	96	93	86	79
100	8	1	0	0	97	95	91	87	2	0	0	0	99	99	97	96
140	0	0	0	0	99	98	96	94	2	0	0	0	100	99	99	98
160	0	0	0	0	100	99	98	96	0	0	0	0	100	99	99	98
220	0	0	0	0	100	100	99	99	0	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	22	1	0	0	92	83	67	53	36	13	3	1	79	63	40	26
100	3	0	0	0	96	92	84	76	13	2	0	0	91	82	67	54
140	1	0	0	0	99	97	94	91	4	0	0	0	97	94	87	80
160	0	0	0	0	100	99	98	96	4	0	0	0	99	97	93	89
220	0	0	0	0	100	100	99	99	4	0	0	0	99	98	95	92

TABLE A- 34. PROBABILITY(X), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - CLEVELAND, OHIO

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	80	64	42	27	27	9	2	0	78	61	38	23	41	21	6	2
100	66	43	19	10	45	20	5	1	67	44	20	11	51	28	10	4
140	56	31	10	4	59	33	12	4	58	36	11	4	61	38	16	7
160	47	23	6	1	67	46	22	11	52	26	5	2	69	50	26	14
220	40	14	3	1	74	55	32	20	37	11	1	0	74	55	31	17
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	61	37	17	9	46	25	6	2	58	30	8	2	58	37	15	6
100	49	23	5	2	70	49	25	15	37	14	2	0	79	61	37	26
140	40	15	3	1	80	63	43	31	23	6	1	0	88	77	60	49
160	30	8	0	0	86	75	58	46	10	1	0	0	93	87	75	64
220	17	1	0	0	91	83	71	62	5	0	0	0	96	91	83	74
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	48	24	6	1	65	42	17	5	64	42	17	7	55	33	10	4
100	27	6	1	0	80	65	43	28	49	22	6	1	69	50	27	16
140	20	1	0	0	90	81	64	51	35	13	1	0	81	65	42	27
160	12	0	0	0	94	87	75	64	23	6	0	0	87	76	56	43
220	9	0	0	0	95	91	83	75	13	1	0	0	92	83	67	55

TABLE A- 37. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - COLUMBIA, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	64	32	15	7	36	8	1	0	74	48	32	22	26	4	1	0
120	15	1	0	0	85	64	51	42	51	21	9	4	49	17	6	2
180	0	0	0	0	100	100	100	100	10	1	0	0	90	77	68	59
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	97	93	89	85	3	0	0	0	99	97	95	93	1	0	0	0
120	87	70	57	48	13	1	0	0	95	88	82	77	5	0	0	0
180	75	48	32	21	25	3	0	0	85	68	57	49	15	2	0	0
240	59	25	12	5	41	11	2	1	72	44	28	17	28	4	1	0
300	38	11	4	1	62	32	15	5	50	20	9	3	50	19	7	3
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	94	84	74	63	6	0	0	0	86	65	49	38	14	1	0	0
120	80	57	42	31	20	2	0	0	71	43	26	16	29	8	3	1
180	64	35	21	12	36	10	2	1	32	13	5	1	68	50	43	40
240	21	7	3	1	79	65	59	55	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 38. PROBABILITY(X), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - COLUMBIA, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	22	4	1	0	72	42	26	16	37	7	2	0	63	30	14	7
100	13	2	0	0	67	67	52	41	19	2	1	0	81	57	39	27
140	5	0	0	0	94	82	73	65	10	0	0	0	91	76	64	53
180	3	0	0	0	97	89	82	76	5	0	0	0	95	85	78	71
220	2	0	0	0	98	94	89	85	3	0	0	0	98	92	88	82
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	33	7	1	0	70	42	27	17	24	5	2	0	77	53	38	30
100	14	1	0	0	69	72	59	50	8	1	0	0	92	80	71	63
140	6	1	0	0	97	89	81	74	3	0	0	0	97	91	86	82
180	3	0	0	0	100	95	90	86	1	0	0	0	100	97	96	94
220	1	0	0	0	102	99	96	93	1	0	0	0	100	99	97	96
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	13	1	0	0	88	69	55	43	22	2	0	0	78	50	33	21
100	4	0	0	0	97	90	84	78	8	0	0	0	92	78	67	57
140	0	0	0	0	100	99	98	96	4	0	0	0	96	88	81	75
180	0	0	0	0	100	100	99	98	2	0	0	0	99	95	91	87
220	0	0	0	0	100	100	100	99	1	0	0	0	99	97	95	92

TABLE A- 39. PROBABILITY(1), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - COLUMBIA, MISSOURI

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	38	10	2	0	62	32	17	11	39	11	4	2	61	29	14	7
100	19	2	0	0	81	58	41	30	21	3	0	0	79	56	39	27
140	10	0	0	0	90	73	59	48	11	0	0	0	90	73	61	51
180	6	0	0	0	94	82	72	62	6	0	0	0	95	86	79	73
220	3	0	0	0	97	89	82	76	3	0	0	0	97	92	88	83
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	9	0	0	0	94	82	73	66	2	0	0	0	99	93	90	86
100	2	0	0	0	102	99	97	95	0	0	0	0	100	97	96	94
140	1	0	0	0	102	100	98	97	0	0	0	0	100	99	98	97
180	0	0	0	0	103	102	101	100	0	0	0	0	100	99	98	97
220	0	0	0	0	103	102	101	101	0	0	0	0	100	99	98	97
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	7	0	0	0	93	82	72	63	15	2	0	0	86	66	51	39
100	2	0	0	0	98	94	90	87	5	0	0	0	96	86	78	70
140	1	0	0	0	100	98	96	94	2	0	0	0	98	94	89	85
180	0	0	0	0	100	99	98	97	1	0	0	0	100	98	96	95
220	0	0	0	0	100	99	98	97	1	0	0	0	100	98	96	95

TABLE A- 40. PROBABILITY(2), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - COLUMBIA, MISSOURI

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	62	31	16	10	38	9	3	1	67	33	18	11	34	6	1	0
100	40	11	3	1	60	29	15	9	46	11	4	1	54	20	7	3
140	28	5	1	0	72	43	28	19	33	6	2	0	67	35	17	9
180	19	2	0	0	81	58	42	30	24	4	1	0	76	49	30	20
220	12	0	0	0	88	69	54	43	16	1	0	0	84	62	46	36
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	52	17	7	3	52	20	8	4	34	10	4	2	66	40	24	14
100	29	6	2	0	74	49	34	25	14	2	0	0	86	70	58	49
140	15	1	0	0	88	70	57	48	6	0	0	0	94	85	77	71
180	9	0	0	0	94	83	73	66	2	0	0	0	98	92	87	82
220	4	0	0	0	99	93	88	83	1	0	0	0	100	97	95	93
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	33	9	4	2	68	39	23	15	45	15	5	2	55	23	10	5
100	14	1	1	0	86	68	53	41	23	3	0	0	77	50	33	22
140	6	0	0	0	94	85	75	66	14	1	0	0	86	65	49	37
180	3	0	0	0	98	93	89	84	7	0	0	0	93	79	67	57
220	1	0	0	0	99	97	95	93	4	0	0	0	96	88	81	75

BEING ABOVE, AND BELOW, SELECTED THRESHOLDS

		J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L																										
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																								
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																								
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																							
50/ 60	:	19	2	0	0	:	21	3	0	0	:	30	3	0	0	:	42	10	3	1	:	6	0	0	0	:	51	16	5	1	:	1	0	0	0					
50/120	:	7	0	0	0	:	27	6	1	0	:	11	0	0	0	:	19	2	0	0	:	10	1	0	0	:	24	3	0	0	:	4	0	0	0					
50/180	:	2	0	0	0	:	29	6	1	0	:	5	0	0	0	:	21	3	0	0	:	7	0	0	0	:	11	0	0	0	:	5	0	0	0					
150/ 60	:	0	0	0	0	:	71	41	25	15	:	14	1	0	0	:	42	14	5	2	:	25	4	1	0	:	21	3	1	0	:	37	6	2	0	:	12	0	0	0
150/120	:	0	0	0	0	:	91	75	63	52	:	5	0	0	0	:	58	26	12	6	:	11	1	0	0	:	16	1	0	0	:	21	1	0	0					
150/180	:	0	0	0	0	:	96	88	80	72	:	3	0	0	0	:	63	32	17	9	:	4	0	0	0	:	40	11	3	1	:	6	0	0	0					
250/ 60	:	0	0	0	0	:	72	42	26	16	:	0	0	0	0	:	63	30	14	7	:	2	0	0	0	:	49	14	4	1	:	22	2	0	0					
250/120	:	0	0	0	0	:	91	76	65	55	:	0	0	0	0	:	87	68	53	41	:	1	0	0	0	:	75	42	24	14	:	9	0	0	0					
250/180	:	0	0	0	0	:	97	89	82	76	:	0	0	0	0	:	95	85	78	71	:	0	0	0	0	:	87	66	51	40	:	4	0	0	0					
		M A Y				J U N E				J U L Y				A U G U S T																										
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																								
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																								
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																							
50/ 60	:	32	7	1	0	:	1	0	0	0	:	23	5	2	0	:	1	0	0	0	:	10	1	0	0	:	0	0	0	0	:	8	0	0	0	:	0	0	0	0
50/120	:	9	1	0	0	:	2	0	0	0	:	5	0	0	0	:	1	0	0	0	:	2	0	0	0	:	0	0	0	0	:	1	0	0	0	:	0	0	0	0
50/180	:	3	0	0	0	:	2	0	0	0	:	1	0	0	0	:	1	0	0	0	:	0	0	0	0	:	0	0	0	0	:	0	0	0	0	:	0	0	0	0
150/ 60	:	27	4	0	0	:	12	1	0	0	:	20	4	1	0	:	7	0	0	0	:	10	1	0	0	:	7	0	0	0	:	8	0	0	0	:	10	1	0	0
150/120	:	8	1	0	0	:	17	2	0	0	:	4	0	0	0	:	9	0	0	0	:	2	0	0	0	:	7	1	0	0	:	1	0	0	0	:	11	1	0	0
150/180	:	3	0	0	0	:	13	2	0	0	:	1	0	0	0	:	10	1	0	0	:	0	0	0	0	:	7	1	0	0	:	0	0	0	0	:	11	1	0	0
250/ 60	:	16	1	0	0	:	29	4	1	0	:	16	2	1	0	:	23	2	0	0	:	8	1	0	0	:	25	3	0	0	:	6	0	0	0	:	36	9	2	0
250/120	:	6	0	0	0	:	42	9	1	0	:	3	0	0	0	:	29	3	0	0	:	1	0	0	0	:	27	4	0	0	:	1	0	0	0	:	39	10	3	1
250/180	:	1	0	0	0	:	43	10	2	0	:	1	0	0	0	:	30	4	1	0	:	0	0	0	0	:	27	4	0	0	:	0	0	0	0	:	39	10	3	1
		S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R																										
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																								
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																								
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																							
50/ 60	:	12	1	0	0	:	4	0	0	0	:	19	1	0	0	:	9	0	0	0	:	22	3	0	0	:	20	3	0	0	:	17	0	0	0	:	25	4	1	0
50/120	:	2	0	0	0	:	4	0	0	0	:	5	0	0	0	:	11	1	0	0	:	7	0	0	0	:	23	4	1	0	:	5	0	0	0	:	33	9	3	1
50/180	:	0	0	0	0	:	4	0	0	0	:	1	0	0	0	:	12	1	0	0	:	3	0	0	0	:	25	5	1	0	:	2	0	0	0	:	35	10	3	1
150/ 60	:	10	0	0	0	:	24	4	0	0	:	11	0	0	0	:	30	9	4	2	:	1	0	0	0	:	70	40	23	14	:	0	0	0	0	:	72	40	22	13
150/120	:	1	0	0	0	:	27	4	0	0	:	3	0	0	0	:	38	15	7	5	:	0	0	0	0	:	87	70	56	45	:	0	0	0	0	:	92	78	67	60
150/180	:	0	0	0	0	:	27	4	0	0	:	1	0	0	0	:	40	17	9	7	:	0	0	0	0	:	94	84	75	67	:	0	0	0	0	:	97	90	85	81
250/ 60	:	2	0	0	0	:	76	54	39	29	:	0	0	0	0	:	78	50	33	21	:	0	0	0	0	:	72	42	24	15	:	0	0	0	0	:	72	40	22	13
250/120	:	5	0	0	0	:	85	74	66	61	:	0	0	0	0	:	95	83	73	65	:	0	0	0	0	:	89	73	59	48	:	0	0	0	0	:	92	78	67	60
250/180	:	0	0	0	0	:	87	78	72	69	:	0	0	0	0	:	99	95	91	87	:	0	0	0	0	:	86	87	79	71	:	0	0	0	0	:	97	90	85	81

BEING ABOVE, AND BELOW, SELECTED THRESHOLDS

		JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60		43	13	5	2	10	1	0	0	52	17	6	3	7	0	0	0
50/120		22	3	0	0	18	3	0	0	29	3	1	0	11	1	0	0
50/180		12	1	0	0	23	5	1	0	18	1	0	0	16	1	0	0
150/ 60		0	0	0	0	68	9	3	1	23	4	1	0	21	4	1	0
150/120		0	0	0	0	36	6	22	15	12	1	0	0	40	11	3	2
150/180		0	0	0	0	81	57	41	26	8	0	0	0	50	19	7	4
250/ 60		0	0	0	0	38	9	3	1	0	0	0	0	34	6	1	0
250/120		0	0	0	0	66	36	23	15	0	0	0	0	62	28	11	4
250/180		0	0	0	0	81	58	42	30	0	0	0	0	76	49	30	20
		MAY				JUNE				JULY				AUGUST			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60		50	16	6	3	0	0	0	0	34	9	4	2	0	0	0	0
50/120		21	3	1	0	1	0	0	0	10	1	0	0	1	0	0	0
50/180		9	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
150/ 60		41	8	2	0	7	0	0	0	28	7	3	1	4	0	0	0
150/120		16	2	0	0	13	1	0	0	8	1	0	0	8	0	0	0
150/180		7	0	0	0	16	1	0	0	2	0	0	0	10	1	0	0
250/ 60		24	2	0	0	18	1	0	0	22	4	1	0	15	1	0	0
250/120		10	0	0	0	34	6	1	0	6	0	0	0	27	2	0	0
250/180		4	0	0	0	41	8	1	0	2	0	0	0	30	4	1	0
		SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60		30	7	3	2	2	0	0	0	38	8	1	0	4	0	0	0
50/120		8	0	0	0	3	0	0	0	14	1	0	0	9	0	0	0
50/180		2	0	0	0	4	0	0	0	7	0	0	0	11	0	0	0
150/ 60		23	3	0	0	17	1	0	0	23	2	0	0	19	3	1	0
150/120		6	0	0	0	25	4	0	0	7	0	0	0	31	8	3	1
150/180		2	0	0	0	26	4	0	0	3	0	0	0	36	13	5	3
250/ 60		4	0	0	0	58	29	15	10	0	0	0	0	55	23	10	5
250/120		1	0	0	0	79	59	47	39	0	0	0	0	83	61	44	32
250/180		0	0	0	0	85	72	64	58	0	0	0	0	93	79	67	57

TABLE A- 43. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - COLUMBIA, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	70	47	21	10	46	20	3	0	79	63	42	28	35	14	3	1
120	28	8	0	0	86	75	59	49	63	39	16	7	56	33	12	4
180	0	0	0	0	100	100	100	100	25	10	0	0	92	85	75	65
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	98	95	91	87	4	0	0	0	99	98	96	94	0	0	0	0
120	89	79	64	53	20	6	1	0	96	92	86	81	11	3	0	0
180	78	63	41	26	35	11	0	0	88	79	66	56	27	9	0	0
240	63	42	19	8	47	24	4	1	77	59	38	23	36	14	2	0
300	49	26	9	3	69	49	22	8	61	39	17	5	62	37	12	5
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	95	89	78	66	6	0	0	0	67	75	55	42	22	6	0	0
120	83	69	49	35	28	7	1	0	76	58	33	20	46	23	8	2
180	71	52	29	16	46	23	5	1	57	35	13	3	84	73	63	60
240	48	21	7	1	90	82	74	70	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 44. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - COLUMBIA, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	35	12	1	0	74	57	35	20	44	17	3	1	66	45	20	9
100	14	2	0	0	87	75	58	45	23	6	2	0	83	68	46	31
140	7	1	0	0	94	87	77	68	11	2	0	0	90	83	69	56
180	2	0	0	0	96	92	85	78	6	1	0	0	94	89	81	73
220	0	0	0	0	98	95	91	86	2	0	0	0	97	94	89	83
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	48	19	3	0	75	58	36	23	33	14	4	1	81	65	46	35
100	22	6	1	0	89	80	66	56	15	2	0	0	93	84	75	67
140	13	3	1	0	96	91	83	77	1	0	0	0	97	94	89	84
180	5	0	0	0	97	95	90	86	0	0	0	0	98	97	94	92
220	1	0	0	0	99	97	95	92	0	0	0	0	99	99	98	96
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	15	3	0	0	88	78	61	47	23	6	0	0	79	62	41	26
100	5	0	0	0	97	93	87	80	12	1	0	0	92	84	72	61
140	0	0	0	0	100	99	98	96	7	0	0	0	96	91	84	77
180	0	0	0	0	100	99	99	98	1	0	0	0	98	96	92	88
220	0	0	0	0	100	100	99	99	0	0	0	0	99	97	95	93

TABLE A- 45. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - COLUMBIA, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL				
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		
	DAYS				DAYS				DAYS				DAYS				
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	
60	52	25	5	1	69	48	23	14	44	21	7	2	64	42	19	10	
100	36	10	0	0	84	71	49	35	32	10	1	0	82	67	46	31	
140	17	1	0	0	90	81	65	52	12	3	0	0	89	80	66	54	
180	6	0	0	0	94	86	75	65	8	0	0	0	95	90	82	75	
220	1	0	0	0	96	92	85	78	3	0	0	0	97	94	89	84	
	5	0	0	0	6	4	3	18	6	40	12	1	0	76	60	39	27
	19	2	0	0	79	64	40	25	19	2	0	0	90	80	65	54	
	10	0	0	0	87	76	58	44	10	0	0	0	94	88	79	70	
	4	0	0	0	94	87	77	69	4	0	0	0	97	94	89	84	
	1	0	0	0	96	92	84	78	1	0	0	0	98	96	93	90	
	19	2	0	0	93	86	76	68	4	0	0	0	98	95	91	87	
	4	0	0	0	99	97	95	94	0	0	0	0	99	98	96	94	
	4	0	0	0	99	98	96	95	0	0	0	0	99	99	98	97	
	0	0	0	0	99	99	98	97	0	0	0	0	99	99	98	97	
	0	0	0	0	100	99	99	98	0	0	0	0	99	99	98	97	
	9	1	0	0	63	87	76	66	34	9	0	0	88	76	57	44	
	2	0	0	0	98	96	92	88	7	0	0	0	95	90	81	73	
	0	0	0	0	99	98	97	94	3	0	0	0	98	95	91	86	
	0	0	0	0	100	99	98	97	4	0	0	0	99	98	97	95	
	0	0	0	0	100	99	98	97	2	0	0	0	99	98	97	95	
	48	18	1	0	75	57	30	16	45	18	4	2	66	45	18	8	
	28	3	0	0	85	71	51	38	12	0	0	0	93	85	72	62	
	5	0	0	0	96	92	84	76	5	0	0	0	97	95	90	85	
	5	0	0	0	96	93	87	81	5	0	0	0	97	95	90	85	

TABLE A- 46. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - COLUMBIA, MISSOURI

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	67	46	23	13	43	19	5	1	68	46	23	13	36	14	3	0
100	51	25	5	2	65	46	23	13	49	20	6	2	56	32	11	4
140	38	15	2	1	74	58	36	24	38	14	3	0	71	50	22	11
180	30	8	1	0	83	70	50	35	28	10	2	0	79	61	36	23
220	15	2	0	0	88	77	61	47	15	3	0	0	84	71	51	39
	78	59	34	19	28	11	2	0	77	59	30	15	33	16	4	1
	65	42	18	8	49	26	6	2	59	32	9	2	57	30	13	6
	54	27	6	2	65	43	18	7	44	17	2	0	60	47	27	16
	41	15	3	0	71	52	27	14	30	6	0	0	75	57	35	23
	26	5	0	0	80	64	42	29	24	3	0	0	84	71	54	43
	58	31	11	5	58	35	14	6	44	22	7	3	72	54	32	19
	41	15	4	1	79	64	44	31	25	6	1	0	89	80	66	55
	27	5	1	0	89	79	64	54	9	1	0	0	95	90	81	74
	19	1	0	0	94	87	77	69	3	0	0	0	98	96	92	88
	11	0	0	0	97	94	89	84	0	0	0	0	99	97	95	92
	0	0	0	0	99	97	95	92	0	0	0	0	99	98	97	95
	0	0	0	0	99	98	97	95	0	0	0	0	99	98	97	95
	45	19	9	4	73	53	30	19	52	28	8	3	62	39	16	7
	19	4	2	0	88	77	59	45	33	10	1	0	79	63	40	26
	6	0	0	0	94	89	78	69	22	5	0	0	87	75	56	41
	3	0	0	0	98	95	91	86	12	1	0	0	92	85	72	61
	2	0	0	0	99	98	96	94	12	1	0	0	96	91	84	77
	67	46	20	8	48	27	8	3	65	42	17	7	41	18	3	0
	42	17	2	0	62	41	16	7	33	8	0	0	74	55	30	19
	23	5	0	0	84	70	47	34	23	6	1	0	84	71	50	35
	12	1	0	0	89	79	60	46	20	3	0	0	89	79	60	46
	12	1	0	0	89	78	62	51	20	3	0	0	89	78	62	51

TABLE A- 49. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DAYTON, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	50	15	4	1	50	17	6	2	68	37	20	11	32	5	2	0
120	2	0	0	0	98	93	86	80	35	7	1	0	65	31	16	9
180	0	0	0	0	100	100	100	100	0	0	0	0	100	99	96	91
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	96	94	92	1	0	0	0	100	99	99	99	0	0	0	0
120	86	68	54	45	14	2	0	0	94	85	77	69	6	0	0	0
180	67	39	23	15	33	8	2	1	79	56	41	30	21	3	1	0
240	50	20	8	3	50	21	8	3	60	29	15	7	40	11	4	1
300	19	3	0	0	81	61	45	33	28	6	2	0	72	45	27	16
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	97	90	84	77	3	0	0	0	86	67	52	41	14	1	0	0
120	77	50	33	22	23	4	1	0	61	32	16	9	39	15	7	4
180	56	24	9	3	44	15	6	3	14	2	1	0	86	76	72	71
240	6	1	0	0	94	88	86	84	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 50. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DAYTON, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	39	8	2	0	61	28	15	9	43	10	3	0	57	23	11	5
100	22	2	0	0	78	51	34	23	26	3	0	0	68	34	18	10
140	13	0	0	0	87	68	52	41	15	2	1	0	80	53	37	26
180	7	0	0	0	93	81	71	61	9	0	0	0	91	76	64	53
220	3	0	0	0	97	91	86	80	6	0	0	0	94	82	71	62
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	40	11	3	0	60	29	15	9	29	7	2	0	71	44	29	20
100	21	3	0	0	79	54	38	29	14	1	0	0	86	69	56	46
140	12	1	0	0	88	71	59	49	7	0	0	0	93	82	73	65
180	6	0	0	0	94	83	74	67	3	0	0	0	97	90	85	81
220	4	0	0	0	96	89	83	78	1	0	0	0	99	95	92	89
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	16	1	0	0	84	62	46	33	23	3	0	0	77	51	35	25
100	5	0	0	0	95	85	76	69	9	0	0	0	91	75	62	51
140	2	0	0	0	98	94	90	87	4	0	0	0	96	86	77	69
180	0	0	0	0	100	98	97	96	2	0	0	0	98	93	89	85
220	0	0	0	0	100	98	97	96	1	0	0	0	99	97	95	93

TABLE A- 51. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DAYTON, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	46	15	7	4	54	25	13	7	46	15	4	2	54	24	11	6
100	27	5	1	0	73	46	28	20	28	4	0	0	72	43	27	17
140	16	1	0	0	84	63	48	36	17	1	0	0	83	62	46	34
180	10	1	0	0	90	76	65	57	10	0	0	0	90	76	64	54
220	6	0	0	0	94	84	76	68	6	0	0	0	94	83	74	66
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	6	0	0	0	94	84	75	68	3	0	0	0	97	91	85	80
100	1	0	0	0	99	96	94	91	0	0	0	0	100	99	98	94
140	0	0	0	0	100	98	97	95	0	0	0	0	100	99	98	97
180	0	0	0	0	100	99	98	97	0	0	0	0	100	99	98	97
220	0	0	0	0	100	99	98	97	0	0	0	0	100	99	98	97
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	5	0	0	0	95	85	76	67	12	1	0	0	88	72	59	47
100	1	0	0	0	99	95	93	90	3	0	0	0	97	90	82	75
140	0	0	0	0	100	99	97	96	1	0	0	0	99	97	94	90
180	0	0	0	0	100	99	99	96	0	0	0	0	100	98	96	94
220	0	0	0	0	100	100	99	99	0	0	0	0	100	99	98	97

TABLE A- 52. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DAYTON, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	67	37	22	13	33	8	3	1	69	39	21	12	31	7	2	1
100	50	17	8	4	50	18	9	6	53	19	5	1	47	16	7	3
140	38	9	2	0	62	30	16	9	40	9	2	0	60	28	14	8
180	29	4	0	0	71	41	25	16	30	5	1	0	70	40	24	16
220	21	2	0	0	79	53	37	27	23	3	0	0	77	51	34	23
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	51	18	6	1	49	18	9	5	38	12	4	2	62	34	19	11
100	32	6	1	0	69	39	24	16	21	4	1	0	79	56	42	31
140	20	3	1	0	80	56	43	33	11	1	0	0	89	76	65	55
180	13	1	0	0	88	71	59	51	6	0	0	0	94	84	75	68
220	7	0	0	0	93	81	72	65	3	0	0	0	97	89	83	78
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	28	5	0	0	72	44	26	16	39	12	4	1	61	31	17	10
100	13	1	0	0	87	66	50	38	23	4	0	0	77	52	37	25
140	7	0	0	0	93	82	71	62	12	1	0	0	88	69	55	44
180	3	0	0	0	97	90	83	77	7	0	0	0	93	80	69	58
220	2	0	0	0	98	95	91	88	4	0	0	0	96	86	78	70

TABLE A- 55. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DAYTON, OHIO

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	55	29	5	1	56	31	10	3	74	53	29	15	37	15	4	1
120	8	0	0	0	98	95	88	81	44	18	2	1	67	45	21	12
180	0	0	0	0	100	100	100	100	4	0	0	0	100	99	96	91
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	97	95	93	0	0	0	0	100	99	99	99	0	0	0	0
120	69	79	62	51	26	10	1	0	95	90	81	72	5	0	0	0
180	75	56	33	20	45	23	6	1	83	70	51	36	32	14	2	1
240	60	37	14	6	61	40	15	4	68	47	23	11	50	25	9	2
300	35	12	1	0	86	74	55	39	44	21	5	0	78	62	36	21
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	96	93	87	79	3	0	0	0	88	77	59	46	23	5	0	0
120	61	64	41	27	32	12	2	1	70	50	25	13	55	34	14	7
180	62	39	14	5	52	31	14	7	37	11	3	0	93	88	84	82
240	22	6	1	0	97	94	91	90	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 56. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DAYTON, OHIO

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	44	19	4	1	64	42	22	12	47	22	5	1	59	37	17	8
100	25	6	0	0	79	63	41	28	34	16	1	0	75	58	37	23
140	11	0	0	0	87	77	59	45	24	4	0	0	85	73	54	39
180	6	0	0	0	93	87	75	64	17	3	0	0	91	83	69	57
220	1	0	0	0	97	94	88	82	12	1	0	0	94	87	75	65
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	52	24	5	1	66	44	22	13	41	17	3	0	76	59	37	24
100	33	11	1	0	81	67	47	35	22	5	1	0	89	79	64	51
140	18	6	1	0	89	80	66	55	9	3	0	0	93	87	77	69
180	7	1	0	0	93	88	79	71	0	0	0	0	96	93	87	82
220	6	0	0	0	96	92	86	81	0	0	0	0	98	96	93	90
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	17	5	0	0	85	73	53	37	35	13	1	1	80	65	44	31
100	7	0	0	0	95	90	80	72	14	0	0	0	91	82	68	55
140	4	0	0	0	93	96	92	88	4	0	0	0	95	90	81	72
180	0	0	0	0	99	99	97	96	0	0	0	0	98	95	90	86
220	0	0	0	0	99	99	97	96	0	0	0	0	99	98	96	93

TABLE A- 57. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DAYTON, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	56	29	13	7	64	42	21	12	58	30	7	3	62	40	17	8
100	37	15	2	0	78	61	36	25	39	13	1	0	76	57	34	21
140	23	5	0	0	66	74	55	43	24	4	0	0	84	72	53	38
180	15	3	0	0	91	84	71	61	15	1	0	0	91	82	68	57
220	8	1	0	0	95	89	80	71	7	1	0	0	94	88	78	69
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	10	1	0	0	94	89	80	72	6	0	0	0	99	97	94	92
100	2	0	0	0	99	97	94	92	0	0	0	0	100	99	98	98
140	0	0	0	0	99	99	97	95	0	0	0	0	100	99	98	97
180	0	0	0	0	99	99	98	97	0	0	0	0	100	99	99	99
220	0	0	0	0	99	99	98	97	0	0	0	0	100	99	99	98
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	2	1	0	0	95	90	80	70	24	6	1	0	90	81	66	52
100	0	0	0	0	98	97	94	91	7	4	0	0	96	92	84	77
140	0	0	0	0	99	99	98	97	0	0	0	0	99	97	94	91
180	0	0	0	0	100	99	99	98	0	0	0	0	99	98	97	95
220	0	0	0	0	100	100	99	99	0	0	0	0	100	99	98	97

TABLE A- 58. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DAYTON, OHIO

	J A N U A R Y				F F B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	71	53	30	17	41	19	7	2	73	54	30	17	37	17	4	1
100	56	31	13	6	54	32	16	9	59	34	9	2	53	30	11	4
140	44	20	4	0	67	45	22	13	48	21	4	1	65	43	21	11
180	36	11	1	0	74	56	32	20	41	15	1	0	73	53	31	20
220	27	6	1	0	81	66	45	32	35	10	1	0	80	64	42	28
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	61	34	10	2	56	33	14	8	53	27	7	3	71	51	28	14
100	45	18	3	0	73	54	32	23	34	12	2	0	83	69	50	37
140	35	13	1	0	83	71	52	39	20	3	0	0	91	84	71	60
180	24	6	0	0	89	81	67	57	6	1	0	0	94	88	79	71
220	8	1	0	0	93	87	77	69	0	0	0	0	96	92	85	80
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	39	13	1	0	76	59	34	20	53	27	7	3	68	49	24	13
100	17	3	0	0	88	76	57	42	37	14	0	0	80	67	46	31
140	11	1	0	0	94	87	76	65	20	7	1	0	88	78	62	48
180	6	1	0	0	97	93	86	79	11	0	0	0	93	85	73	62
220	1	0	0	0	98	96	93	89	4	0	0	0	95	90	81	72

TABLE A- 59. PROBABILITY(X), BY MONTH, OF COMB. INSOL-WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DAYTON, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7
50/ 60	30	10	0	0	37	14	1	0	39	16	3	0	48	22	5	0
50/120	9	1	0	0	43	19	4	1	24	6	1	0	32	8	0	0
50/180	2	0	0	0	49	24	6	1	17	1	0	0	19	2	0	0
150/ 60	0	0	0	0	64	42	22	12	12	0	0	0	30	9	1	0
150/120	0	0	0	0	82	68	46	32	8	0	0	0	14	1	0	0
150/180	0	0	0	0	93	87	75	64	5	0	0	0	8	0	0	0
250/ 60	0	0	0	0	64	42	22	12	0	0	0	0	11	1	1	0
250/120	0	0	0	0	82	68	46	32	0	0	0	0	2	0	0	0
250/180	0	0	0	0	93	87	75	64	0	0	0	0	0	0	0	0
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7
50/ 60	52	24	5	1	0	0	0	0	29	8	0	0	22	4	0	0
50/120	29	8	0	0	0	0	0	0	3	0	0	0	5	1	0	0
50/180	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150/ 60	39	14	1	0	19	4	0	0	23	7	0	0	16	1	0	0
150/120	16	2	0	0	31	11	1	0	1	0	0	0	1	0	0	0
150/180	5	0	0	0	36	15	2	1	0	0	0	0	0	0	0	0
250/ 60	22	5	0	0	36	18	3	0	8	0	0	0	3	1	0	0
250/120	6	0	0	0	52	31	9	1	0	0	0	0	0	0	0	0
250/180	0	0	0	0	58	38	14	4	0	0	0	0	0	0	0	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7
50/ 60	15	3	0	0	0	0	0	0	28	8	0	0	19	3	0	0
50/120	3	0	0	0	2	0	0	0	11	0	0	0	6	0	0	0
50/180	0	0	0	0	2	0	0	0	3	0	0	0	2	0	0	0
150/ 60	7	1	0	0	31	13	2	1	0	0	0	0	0	0	0	0
150/120	1	0	0	0	41	21	7	3	0	0	0	0	0	0	0	0
150/180	0	0	0	0	43	23	7	3	0	0	0	0	0	0	0	0
250/ 60	0	0	0	0	85	73	52	37	0	0	0	0	0	0	0	0
250/120	0	0	0	0	97	93	87	81	0	0	0	0	0	0	0	0
250/180	0	0	0	0	99	99	97	96	0	0	0	0	0	0	0	0

TABLE A- 60. PROBABILITY(X), BY MONTH, OF COMB. INSOL-WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DAYTON, OHIO

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7
50/ 60	44	19	2	0	22	8	0	0	57	35	14	7	70	48	21	9
50/120	31	10	0	0	30	12	1	0	43	16	3	0	48	21	3	1
50/180	21	6	0	0	40	18	4	1	32	11	1	0	35	8	0	0
150/ 60	0	0	0	0	41	19	7	2	18	1	0	0	32	16	1	0
150/120	0	0	0	0	61	39	19	11	12	0	0	0	20	5	0	0
150/180	0	0	0	0	74	56	32	20	12	0	0	0	13	1	0	0
250/ 60	0	0	0	0	41	19	7	2	0	0	0	0	19	6	1	0
250/120	0	0	0	0	61	39	19	11	0	0	0	0	4	0	0	0
250/180	0	0	0	0	74	56	32	20	0	0	0	0	0	0	0	0
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7
50/ 60	61	34	10	2	0	0	0	0	37	14	2	0	29	8	0	0
50/120	39	15	2	0	0	0	0	0	10	1	0	0	10	1	0	0
50/180	24	6	0	0	0	0	0	0	3	0	0	0	3	1	0	0
150/ 60	47	20	4	1	18	3	0	0	28	10	1	0	23	4	0	0
150/120	24	6	0	0	26	9	0	0	6	1	0	0	3	0	0	0
150/180	14	1	0	0	33	12	0	0	1	0	0	0	0	0	0	0
250/ 60	31	8	1	0	30	12	2	0	11	1	0	0	5	1	0	0
250/120	11	2	0	0	47	26	6	1	1	0	0	0	2	0	0	0
250/180	5	0	0	0	54	33	11	3	0	0	0	0	0	0	0	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7	DAYS	2 3 5 7
50/ 60	38	12	1	0	0	0	0	0	40	19	4	1	35	12	1	0
50/120	14	1	0	0	0	0	0	0	26	6	0	0	26	7	0	0
50/180	6	1	0	0	2	0	0	0	13	0	0	0	17	4	0	0
150/ 60	22	4	0	0	23	7	1	0	0	0	0	0	0	0	0	0
150/120	6	0	0	0	36	17	5	2	0	0	0	0	0	0	0	0
150/180	1	0	0	0	42	21	6	3	0	0	0	0	0	0	0	0
250/ 60	0	0	0	0	76	59	34	20	0	0	0	0	0	0	0	0
250/120	0	0	0	0	90	81	66	52	0	0	0	0	0	0	0	0
250/180	0	0	0	0	96	93	86	79	0	0	0	0	0	0	0	0

TABLE A- 61. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	63	30	16	8	37	9	3	0	75	49	34	24	25	4	0	0
120	5	1	1	0	95	86	79	71	52	21	9	3	48	16	6	2
180	0	0	0	0	100	100	100	100	1	0	0	0	99	95	89	83
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	97	95	93	1	0	0	0	100	99	99	98	0	0	0	0
120	91	76	65	55	9	0	0	0	95	86	79	73	5	0	0	0
180	73	47	31	21	27	5	0	0	85	67	52	42	15	1	0	0
240	58	28	15	6	42	13	4	1	73	43	26	16	27	5	1	0
300	40	12	4	1	60	29	13	5	56	24	10	5	44	12	3	1
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	97	90	84	77	3	0	0	0	90	76	64	55	10	1	0	0
120	78	56	40	29	22	4	1	0	69	41	25	16	31	9	3	0
180	64	34	18	10	36	12	4	2	24	9	4	2	76	65	63	62
240	27	8	3	1	73	60	56	54	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 62. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	36	8	1	0	64	31	17	10	44	13	4	2	57	21	9	4
100	22	2	0	0	78	51	35	25	27	3	0	0	73	41	25	14
140	12	0	0	0	68	68	54	44	14	1	0	0	86	66	49	37
180	7	0	0	0	91	76	64	53	10	1	0	0	90	74	61	49
220	6	0	0	0	94	83	75	66	6	0	0	0	95	84	73	64
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	60	27	13	6	40	10	2	0	49	17	5	2	52	23	13	7
100	40	10	3	1	60	29	16	9	27	6	1	0	73	48	35	27
140	26	3	1	0	74	50	36	27	14	1	0	0	86	67	55	45
180	17	1	0	0	83	65	52	43	7	0	0	0	93	82	74	66
220	12	1	0	0	88	75	65	58	4	0	0	0	97	90	84	79
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	34	6	1	0	66	34	22	15	41	10	2	0	59	26	13	7
100	14	1	0	0	86	67	53	42	22	2	0	0	78	50	32	21
140	8	0	0	0	92	80	71	62	12	0	0	0	88	69	55	44
180	3	0	0	0	97	91	86	81	7	0	0	0	93	79	69	59
220	2	0	0	0	98	95	91	87	5	0	0	0	95	85	76	68

TABLE A- 63. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DES MOINES, IOWA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	49	20	8	3	51	21	9	4	48	16	6	1	52	22	8	4
100	29	4	1	0	71	42	27	16	27	3	0	0	73	44	25	14
140	19	1	0	0	81	58	42	31	16	1	0	0	84	65	49	37
180	13	0	0	0	87	68	55	44	10	1	0	0	90	77	65	55
220	10	0	0	0	90	76	66	56	7	0	0	0	94	85	78	72
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	15	2	0	0	85	68	57	49	7	1	0	0	93	84	75	68
100	6	0	0	0	94	87	82	77	2	0	0	0	98	95	92	89
140	3	0	0	0	97	93	90	87	1	0	0	0	99	97	95	93
180	1	0	0	0	99	97	95	94	0	0	0	0	100	99	99	98
220	1	0	0	0	99	98	98	97	0	0	0	0	100	100	99	99
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	9	0	0	0	91	78	67	56	22	3	0	0	78	51	37	26
100	1	0	0	0	99	96	93	89	10	1	0	0	90	74	62	52
140	0	0	0	0	100	99	99	98	4	0	0	0	96	85	76	67
180	0	0	0	0	100	100	99	99	2	0	0	0	98	91	85	78
220	0	0	0	0	100	100	99	99	1	0	0	0	99	93	88	81

TABLE A- 64. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DES MOINES, IOWA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	70	44	29	21	30	7	3	1	71	43	26	16	29	6	1	0
100	52	21	8	3	48	19	10	5	54	21	10	5	46	15	5	2
140	38	9	1	0	62	31	19	11	40	9	3	1	60	27	13	7
180	27	4	0	0	73	44	30	20	31	4	1	0	69	38	21	12
220	21	2	0	0	79	54	38	26	24	3	1	0	76	48	29	17
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	71	40	23	14	29	6	1	0	61	31	15	6	39	12	5	3
100	52	19	8	3	48	19	8	3	37	12	4	1	63	36	23	15
140	37	9	3	1	63	34	21	14	23	4	1	0	77	55	41	31
180	26	4	1	0	74	51	38	29	14	1	0	0	86	70	58	49
220	18	2	0	0	82	62	49	40	8	1	0	0	92	80	70	62
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	50	17	6	2	50	18	9	5	59	23	9	4	41	10	4	1
100	27	4	1	0	73	45	30	20	39	10	2	0	61	27	14	9
140	14	1	0	0	86	66	53	44	26	3	0	0	74	44	28	19
180	8	1	0	0	92	79	69	60	18	2	0	0	82	57	40	29
220	5	0	0	0	95	87	79	72	13	1	0	0	87	68	53	40

TABLE A- 65. PROBABILITY(X), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	26	4	0	0	22	3	0	0	37	8	3	2	9	0	0	0
50/120	12	0	0	0	28	5	1	0	16	1	0	0	13	1	0	0
50/180	6	0	0	0	29	5	1	0	8	0	0	0	14	1	0	0
150/ 60	0	0	0	0	64	31	17	10	12	2	0	0	42	14	5	3
150/120	0	0	0	0	84	60	46	35	5	0	0	0	60	29	17	11
150/180	0	0	0	0	91	76	64	53	2	0	0	0	67	39	25	17
250/ 60	0	0	0	0	64	31	17	10	0	0	0	0	57	21	9	4
250/120	0	0	0	0	84	60	46	35	0	0	0	0	82	57	39	27
250/180	0	0	0	0	91	76	64	53	0	0	0	0	90	74	61	49
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	60	27	13	6	0	0	0	0	49	17	5	2	0	0	0	0
50/120	32	7	2	0	0	0	0	0	19	2	0	0	0	0	0	0
50/180	17	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0
150/ 60	49	18	7	2	9	0	0	0	44	14	4	1	6	0	0	0
150/120	26	4	1	0	14	2	0	0	17	2	0	0	9	0	0	0
150/180	14	1	0	0	19	3	0	0	7	0	0	0	10	0	0	0
250/ 60	33	7	2	1	17	1	0	0	35	7	1	0	15	2	0	0
250/120	18	2	0	0	30	6	1	0	13	1	0	0	23	3	0	0
250/180	10	0	0	0	38	11	2	0	5	0	0	0	27	4	1	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	33	6	1	0	1	0	0	0	39	8	2	0	4	0	0	0
50/120	10	0	0	0	1	0	0	0	16	1	0	0	5	0	0	0
50/180	3	0	0	0	1	0	0	0	7	0	0	0	5	0	0	0
150/ 60	25	3	0	0	20	3	1	0	24	3	1	0	27	5	2	1
150/120	8	0	0	0	27	6	1	0	10	0	0	0	37	16	8	5
150/180	2	0	0	0	28	6	1	0	3	0	0	0	41	17	5	2
250/ 60	5	0	0	0	54	22	13	9	0	0	0	0	59	26	13	7
250/120	2	0	0	0	75	54	44	35	0	0	0	0	83	59	42	30
250/180	0	0	0	0	80	64	58	53	0	0	0	0	93	79	69	59

TABLE A- 66. PROBABILITY(X), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	50	19	8	4	12	1	0	0	59	25	11	6	3	0	0	0
50/120	29	6	1	1	18	2	0	0	39	8	3	1	7	0	0	0
50/180	19	2	0	0	23	4	1	0	26	3	0	0	10	0	0	0
150/ 60	0	0	0	0	30	7	3	1	18	3	1	0	20	4	1	0
150/120	0	0	0	0	57	25	13	7	11	1	0	0	38	11	5	3
150/180	0	0	0	0	73	44	30	20	7	0	0	0	50	19	9	5
250/ 60	0	0	0	0	30	7	3	1	0	0	0	0	29	6	1	0
250/120	0	0	0	0	57	25	13	7	0	0	0	0	53	20	9	5
250/180	0	0	0	0	73	44	30	20	0	0	0	0	69	38	21	12
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	71	40	23	14	0	0	0	0	61	31	15	6	0	0	0	0
50/120	43	12	4	1	0	0	0	0	30	6	1	0	0	0	0	0
50/180	26	4	1	0	0	0	0	0	14	1	0	0	0	0	0	0
150/ 60	55	22	9	4	5	0	0	0	55	22	9	4	4	0	0	0
150/120	34	8	2	0	12	1	0	0	26	6	1	0	8	0	0	0
150/180	21	2	0	0	15	2	0	0	13	1	0	0	9	0	0	0
250/ 60	36	9	3	1	10	0	0	0	44	12	3	1	11	1	0	0
250/120	22	3	0	0	24	3	0	0	20	2	0	0	9	0	0	0
250/180	14	1	0	0	33	7	1	0	10	0	0	0	24	3	1	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	49	16	6	2	1	0	0	0	56	19	6	2	2	0	0	0
50/120	19	1	0	0	1	0	0	0	31	5	1	0	3	0	0	0
50/180	8	1	0	0	1	0	0	0	17	1	0	0	4	0	0	0
150/ 60	36	8	2	1	14	1	0	0	32	6	1	0	17	2	0	0
150/120	14	1	0	0	23	5	1	0	17	1	0	0	29	6	2	1
150/180	6	0	0	0	26	5	1	0	9	0	0	0	35	10	5	3
250/ 60	8	1	0	0	40	12	6	3	0	0	0	0	41	10	4	1
250/120	2	0	0	0	66	39	27	22	0	0	0	0	67	36	21	13
250/180	1	0	0	0	75	55	45	38	0	0	0	0	82	57	40	29

TABLE A- 67. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1	0
120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10	3
180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91	84
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12	6	4	95	91	83	75	60	40	16	6	55	31	10
	180	0	0	0	0	100	100	100	100	16	6	0	0	98	96	91
	240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100
	60	67	46	25	12	42	20	6	1	80	64	44	30	35	13	1
	120	23	12													

TABLE A- 68. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	42	18	2	0	65	45	24	13	46	24	7	4	58	34	12	5
100	27	7	0	0	78	63	43	29	29	8	1	0	73	54	31	18
140	10	2	0	0	87	76	60	48	16	4	0	0	87	75	55	40
180	5	1	0	0	91	82	69	56	10	3	0	0	90	81	66	53
220	3	0	0	0	94	88	79	71	7	2	0	0	94	88	77	67
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	64	42	20	10	45	23	4	0	59	33	9	3	59	40	20	10
100	49	23	7	2	68	47	24	14	37	17	3	0	78	63	45	33
140	38	11	1	0	80	65	46	34	18	2	0	0	87	76	62	50
160	29	5	1	0	87	76	60	49	7	1	0	0	94	88	78	69
220	25	4	1	0	91	84	72	64	2	0	0	0	97	93	87	81
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	36	14	3	0	67	48	29	19	47	20	4	1	63	39	19	10
100	15	3	0	0	86	76	60	47	27	10	0	0	79	63	39	25
140	8	2	0	0	93	86	76	65	16	2	0	0	88	77	61	48
180	0	0	0	0	97	94	88	83	11	1	0	0	92	85	73	62
220	0	0	0	0	98	96	92	88	10	0	0	0	95	89	79	70

TABLE A- 69. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	62	37	14	5	59	37	15	7	56	28	10	2	61	38	13	5
100	44	13	2	0	75	56	35	20	34	10	1	0	78	59	32	17
140	29	5	0	0	83	70	50	36	28	4	0	0	88	76	56	42
180	21	1	0	0	87	78	62	50	22	3	0	0	93	85	71	60
220	13	0	0	0	91	83	72	61	21	2	0	0	95	90	82	76
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	29	6	1	0	89	79	66	56	13	4	0	0	95	89	79	72
100	14	2	0	0	96	92	87	81	6	0	0	0	98	97	94	91
140	11	0	0	0	98	96	92	89	3	0	0	0	99	98	96	94
180	6	0	0	0	99	98	97	95	0	0	0	0	100	99	98	97
220	0	0	0	0	100	99	98	98	0	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	12	1	0	0	91	84	71	61	38	9	0	0	79	63	44	31
100	4	0	0	0	98	97	94	89	23	5	0	0	91	82	67	56
140	0	0	0	0	100	99	99	98	10	1	0	0	94	89	79	69
180	0	0	0	0	100	100	99	99	7	0	0	0	96	93	86	79
220	0	0	0	0	100	100	99	99	4	0	0	0	97	94	89	82

TABLE A- 70. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	76	59	37	26	39	18	6	2	75	56	32	19	37	14	2	1
100	61	37	13	5	56	34	16	8	59	35	14	6	52	28	9	3
140	49	22	2	0	66	47	27	15	44	18	5	1	63	41	19	10
180	39	12	1	0	75	58	38	26	37	10	2	0	72	52	28	16
220	33	6	1	0	81	67	46	33	32	7	1	0	79	61	35	20
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	74	55	31	18	35	14	2	0	68	46	21	9	46	25	9	5
100	59	33	13	5	58	36	14	6	48	26	9	3	70	53	32	21
140	48	21	5	2	71	52	30	20	34	14	1	0	82	69	49	36
180	39	11	1	0	80	66	48	36	23	5	0	0	89	80	66	55
220	33	5	1	0	86	74	58	46	12	4	0	0	93	87	75	66
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	53	30	11	4	52	30	14	8	63	37	13	5	44	20	7	3
100	31	9	2	0	75	58	37	24	47	22	5	0	63	41	20	12
140	20	3	0	0	87	76	60	48	37	11	1	0	76	57	35	22
180	11	3	0	0	92	85	74	64	28	6	0	0	82	68	47	33
220	4	0	0	0	95	91	83	74	22	4	0	0	88	77	59	44

TABLE A- 71. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/ 60	32	13	1	0	23	8	1	0	36	16	6	4	11	2	0	0
50/120	12	1	0	0	31	13	2	0	20	4	0	0	15	3	0	0
50/180	3	0	0	0	33	13	2	0	11	3	0	0	16	3	0	0
150/ 60	0	0	0	0	65	45	24	13	19	7	2	0	49	27	9	4
150/120	0	0	0	0	83	70	53	39	9	1	0	0	66	46	26	16
150/180	0	0	0	0	91	82	69	56	2	0	0	0	74	57	36	24
250/ 60	0	0	0	0	65	45	24	13	0	0	0	0	58	34	12	5
250/120	0	0	0	0	83	70	53	39	0	0	0	0	83	68	46	31
250/180	0	0	0	0	91	82	69	56	0	0	0	0	90	81	66	53
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/ 60	64	42	20	10	0	0	0	0	59	33	9	3	0	0	0	0
50/120	46	18	4	1	0	0	0	0	27	7	0	0	0	0	0	0
50/180	29	5	1	0	0	0	0	0	7	1	0	0	0	0	0	0
150/ 60	57	33	12	4	13	2	0	0	54	29	7	2	6	1	0	0
150/120	36	11	2	0	30	10	0	0	24	6	0	0	13	1	0	0
150/180	24	2	0	0	36	16	0	0	7	1	0	0	15	1	0	0
250/ 60	42	19	5	1	22	5	1	0	45	18	2	0	23	8	0	0
250/120	31	8	0	0	42	18	3	0	18	4	0	0	30	8	1	0
250/180	20	0	0	0	50	26	4	1	3	0	0	0	33	12	2	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/ 60	36	13	2	0	0	0	0	0	44	17	4	1	2	0	0	0
50/120	12	2	0	0	0	0	0	0	16	3	0	0	4	0	0	0
50/180	0	0	0	0	0	0	0	0	11	1	0	0	4	0	0	0
150/ 60	28	9	1	0	32	11	2	0	32	12	2	0	38	15	7	3
150/120	9	1	0	0	37	16	2	0	9	0	0	0	52	22	19	12
150/180	0	0	0	0	36	17	2	0	6	0	0	0	59	42	31	25
250/ 60	9	3	0	0	60	39	21	14	0	0	0	0	63	39	19	10
250/120	2	0	0	0	83	72	58	47	0	0	0	0	83	69	48	33
250/180	0	0	0	0	88	81	73	67	0	0	0	0	92	85	73	62

TABLE A- 72. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DES MOINES, IOWA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/ 60	60	36	14	7	15	5	1	0	60	38	16	9	5	1	0	0
50/120	37	18	4	2	22	8	1	0	39	15	4	2	12	2	0	0
50/180	24	7	0	0	25	10	2	0	31	8	1	0	13	2	0	0
150/ 60	0	0	0	0	39	18	6	2	27	10	2	0	31	11	2	0
150/120	0	0	0	0	61	41	20	11	18	6	1	0	46	24	8	4
150/180	0	0	0	0	75	58	38	26	11	2	0	0	58	35	15	7
250/ 60	0	0	0	0	39	18	6	2	0	0	0	0	37	14	2	1
250/120	0	0	0	0	61	41	20	11	0	0	0	0	57	33	13	7
250/180	0	0	0	0	75	58	38	26	0	0	0	0	72	52	28	16
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/ 60	74	55	31	18	0	0	0	0	68	46	21	9	0	0	0	0
50/120	51	24	7	2	0	0	0	0	39	21	3	0	0	0	0	0
50/180	39	11	1	0	0	0	0	0	23	5	0	0	0	0	0	0
150/ 60	61	37	14	5	10	0	0	0	60	37	14	5	3	1	0	0
150/120	44	19	3	0	21	5	0	0	34	17	2	0	8	1	0	0
150/180	32	7	0	0	29	10	0	0	20	4	0	0	3	0	0	0
250/ 60	43	20	6	2	14	1	0	0	51	25	6	1	18	6	0	0
250/120	33	11	1	0	35	12	1	0	24	8	1	0	26	7	1	0
250/180	27	6	0	0	42	19	3	1	12	1	0	0	31	10	1	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/ 60	52	28	10	3	0	0	0	0	58	32	9	3	0	0	0	0
50/120	24	4	1	0	0	0	0	0	38	13	3	0	0	0	0	0
50/180	11	3	0	0	0	0	0	0	21	5	0	0	0	0	0	0
150/ 60	40	19	5	2	18	4	0	0	39	15	3	1	25	7	0	0
150/120	17	3	0	0	36	17	1	0	26	5	0	0	42	16	5	2
150/180	10	2	0	0	36	16	2	0	11	1	0	0	49	26	13	8
250/ 60	14	3	0	0	48	25	11	6	0	0	0	0	44	20	7	3
250/120	2	0	0	0	73	57	39	30	0	0	0	0	70	49	27	16
250/180	0	0	0	0	83	73	60	50	0	0	0	0	82	68	47	33

TABLE A- 73. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DODGE CITY, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	86	67	54	43	14	2	1	0	90	77	66	55	10	2	0	0
120	34	11	5	2	66	38	23	16	74	48	32	21	26	5	1	0
180	0	0	0	0	100	100	100	100	24	8	2	1	76	55	43	35
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	99	99	97
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	97	93	89	86	3	0	0	0	99	99	98	98	1	0	0	0
120	90	77	67	59	10	1	0	0	97	94	90	87	3	0	0	0
180	83	63	48	37	17	2	0	0	92	83	74	67	8	1	0	0
240	72	46	31	20	28	7	2	0	85	69	57	47	15	2	0	0
300	56	28	15	6	44	17	7	2	69	41	26	16	31	8	3	1
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	95	86	77	70	5	0	0	0	91	79	68	58	9	1	0	0
120	88	73	61	52	12	1	0	0	81	61	48	38	19	5	2	1
180	77	54	41	31	23	4	1	0	52	29	17	11	48	31	27	26
240	55	27	13	6	45	22	14	10	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 74. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DODGE CITY, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	35	5	1	0	65	29	13	6	46	11	3	1	54	17	6	2
140	19	1	0	0	81	53	33	20	28	3	1	0	72	40	23	13
200	9	0	0	0	91	74	60	48	16	1	0	0	84	60	44	33
260	5	0	0	0	94	83	73	65	10	0	0	0	90	72	58	48
320	3	0	0	0	97	90	84	78	7	0	0	0	93	81	71	64
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	64	26	10	4	36	5	1	0	62	30	14	7	38	9	3	1
140	43	11	3	0	57	22	10	5	40	12	3	1	60	30	17	11
200	25	4	0	0	75	49	35	25	24	4	1	0	76	51	35	25
260	17	1	0	0	83	63	49	39	14	2	0	0	86	69	56	45
320	11	1	0	0	89	75	64	55	9	1	0	0	91	78	69	61
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	53	17	7	3	47	13	4	2	45	12	3	1	55	20	7	3
140	30	5	1	0	70	40	23	13	25	3	0	0	75	44	25	14
200	16	1	0	0	84	64	50	40	13	1	0	0	87	67	51	39
260	8	0	0	0	92	79	69	60	7	0	0	0	93	81	71	62
320	4	0	0	0	96	88	81	76	4	0	0	0	96	89	83	77

TABLE A- 75. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DODGE CITY, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	53	18	6	2	47	14	5	2	49	15	5	2	51	18	8	3
140	29	5	0	0	71	40	22	13	25	4	1	0	75	50	33	22
200	15	1	0	0	85	63	48	38	15	2	0	0	85	67	52	41
260	10	0	0	0	90	75	64	55	9	1	0	0	91	79	69	59
320	7	0	0	0	93	82	73	65	7	1	0	0	93	84	75	67
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	41	14	4	1	59	30	16	10	38	12	4	2	62	32	17	10
140	19	2	0	0	81	59	44	34	14	2	0	0	86	70	59	50
200	7	0	0	0	93	84	76	71	5	0	0	0	95	87	79	72
260	3	0	0	0	97	92	88	85	3	0	0	0	97	93	89	85
320	2	0	0	0	98	95	93	91	1	0	0	0	99	97	96	94
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	35	11	4	1	65	37	22	13	43	15	5	1	57	29	15	8
140	12	1	0	0	88	73	60	50	20	3	0	0	81	59	43	31
200	4	0	0	0	96	89	83	77	10	0	0	0	91	77	66	58
260	2	0	0	0	98	95	91	87	4	0	0	0	96	89	82	76
320	1	0	0	0	99	97	96	94	2	0	0	0	98	93	89	85

TABLE A- 76. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - DODGE CITY, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	76	45	28	17	24	3	1	0	78	53	38	27	22	3	0	0
140	51	17	5	1	49	14	4	1	55	19	8	2	45	11	2	0
200	36	7	1	0	64	29	14	7	40	8	2	0	60	27	12	6
260	25	3	0	0	75	45	27	17	30	5	0	0	70	40	24	15
320	18	2	0	0	82	57	40	28	21	3	0	0	79	54	37	25
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	83	59	43	30	17	1	0	0	81	59	42	30	19	3	0	0
140	62	26	10	3	38	8	2	1	62	32	16	8	38	11	4	1
200	49	15	4	0	51	19	8	4	45	15	5	3	55	24	12	6
260	34	6	1	0	66	36	22	14	32	9	3	2	68	41	27	18
320	26	4	0	0	74	48	33	22	21	3	0	0	79	57	42	32
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	71	41	22	13	29	6	1	0	71	40	23	13	29	4	0	0
140	52	19	7	2	48	16	6	2	52	19	7	3	48	15	5	2
200	37	8	2	0	63	32	18	9	36	8	1	0	64	30	15	7
260	25	4	1	0	75	50	33	21	26	3	0	0	74	45	28	17
320	17	1	0	0	83	63	48	36	17	1	0	0	83	60	43	32

TABLE A- 81. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DODGE CITY, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	59	32	11	4	51	26	8	3	54	28	10	4	56	33	13	3
140	37	13	1	0	74	54	30	17	37	12	2	0	82	66	42	28
200	22	3	1	0	85	73	55	43	22	8	0	0	88	77	60	46
260	17	2	1	0	91	82	70	59	17	4	0	0	93	86	74	63
320	8	1	0	0	94	87	78	69	16	5	0	0	95	89	79	71
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	57	32	8	1	70	49	25	14	48	25	8	3	71	49	25	14
140	30	10	1	0	85	72	53	40	19	5	1	0	88	79	66	56
200	14	1	0	0	94	89	81	75	8	0	0	0	95	91	83	76
260	9	0	0	0	97	95	91	87	4	0	0	0	97	95	91	87
320	2	0	0	0	98	97	94	92	0	0	0	0	99	98	96	94
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	48	26	9	2	72	54	31	17	56	30	9	2	68	48	24	12
140	20	6	1	0	90	81	67	55	32	11	1	0	85	71	50	36
200	12	0	0	0	96	93	86	79	15	2	0	0	92	84	71	61
260	1	0	0	0	98	96	92	88	9	1	0	0	96	92	85	78
320	0	0	0	0	99	98	96	94	5	0	0	0	98	96	91	86

TABLE A- 82. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - DODGE CITY, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	77	58	35	22	24	10	3	1	81	67	47	34	31	11	1	0
140	56	31	9	3	52	26	6	2	57	33	12	4	48	22	4	0
200	44	17	1	0	66	43	19	10	45	19	5	1	65	42	19	9
260	35	11	0	0	77	59	35	20	37	13	1	0	75	55	32	19
320	23	6	1	0	83	68	46	32	26	10	0	0	82	67	46	31
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	84	71	51	35	21	3	0	0	83	70	48	34	25	9	1	0
140	64	40	15	4	43	17	4	2	70	47	22	11	47	23	7	3
200	54	29	8	1	57	33	13	6	54	29	9	5	62	40	18	9
260	40	17	3	0	70	51	30	19	45	20	6	4	75	57	35	23
320	36	12	1	0	78	63	43	28	33	11	1	0	83	69	50	37
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	76	56	30	17	39	17	3	0	73	54	30	18	33	10	1	0
140	58	32	11	3	54	30	11	3	55	29	9	3	57	32	10	4
200	44	20	5	1	69	49	26	12	42	18	3	1	68	46	23	10
260	34	12	3	0	80	65	42	27	33	10	1	0	77	59	35	22
320	25	4	0	0	85	74	56	41	24	6	0	0	85	71	51	36

TABLE A- 85. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FARGO, NORTH DAKOTA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	45	13	4	2	55	20	7	2	72	45	30	21	28	4	1	0
120	0	0	0	0	100	100	100	100	27	6	3	1	73	50	37	27
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	100	99	95	90	0	0	0	0	100	100	100	100	0	0	0	0
120	89	74	63	54	11	1	0	0	94	83	74	66	6	0	0	0
180	71	45	29	20	29	7	2	1	79	54	39	29	21	3	1	0
240	58	30	16	6	42	16	6	3	65	32	18	9	35	7	2	1
300	38	13	4	1	62	34	20	12	45	12	3	0	55	21	9	4
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	96	89	83	75	4	0	0	0	85	67	53	42	15	4	1	1
120	76	51	34	23	24	5	1	0	52	24	10	5	48	26	17	13
180	54	21	9	3	46	17	8	6	3	1	0	0	97	95	95	95
240	6	1	0	0	94	89	86	85	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 86. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FARGO, NORTH DAKOTA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	31	5	0	0	69	36	18	6	38	7	1	1	62	25	10	5
140	18	1	0	0	82	57	37	24	23	2	0	0	77	47	29	16
200	8	0	0	0	92	77	64	54	13	1	0	0	87	67	51	38
260	5	0	0	0	95	84	74	66	9	0	0	0	91	75	62	50
320	4	0	0	0	96	89	82	76	6	0	0	0	94	82	71	61
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	59	24	10	4	41	10	3	1	45	14	4	1	52	18	8	4
140	41	9	2	1	59	24	9	3	30	5	1	0	70	40	25	17
200	28	3	0	0	72	42	24	14	19	2	0	0	81	58	44	35
260	18	1	0	0	82	58	41	29	11	1	0	0	89	72	60	50
320	11	0	0	0	89	72	59	46	6	0	0	0	94	82	74	66
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	48	11	3	1	52	14	4	1	46	12	3	1	54	16	5	3
140	29	3	0	0	72	41	23	14	27	2	0	0	73	41	23	14
200	15	0	0	0	85	62	45	34	18	0	0	0	82	57	41	31
260	8	0	0	0	92	80	69	61	10	0	0	0	90	73	61	52
320	5	0	0	0	95	86	79	73	7	0	0	0	93	80	70	62

TABLE A- 87. PROBABILITY(X), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FARGO, NORTH DAKOTA

		JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80		56	24	10	5	44	14	3	1	50	16	4	2	50	19	8	4
140		39	10	3	1	61	31	16	0	30	5	0	0	70	40	24	17
200		26	5	0	0	74	47	30	20	19	2	0	0	81	58	41	30
260		17	2	0	0	83	63	50	41	12	1	0	0	88	70	56	44
320		12	1	0	0	88	73	62	53	8	0	0	0	92	79	68	59
		MAY				JUNE				JULY				AUGUST			
THRESHOLD		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80		20	2	0	0	80	59	44	34	11	1	0	0	89	74	63	54
140		8	0	0	0	92	82	74	67	2	0	0	0	98	93	89	85
200		3	0	0	0	97	93	90	87	1	0	0	0	99	92	97	95
260		2	0	0	0	98	96	94	92	0	0	0	0	100	100	99	99
320		0	0	0	0	100	99	99	99	0	0	0	0	100	100	99	99
		SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH		GE. THRESH		LT. THRESH	
	DAYS	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80		29	5	1	0	71	43	26	16	41	11	3	1	59	27	13	7
140		13	1	0	0	87	71	57	45	22	2	0	0	78	52	34	21
200		4	0	0	0	96	99	82	76	12	0	0	0	88	72	59	47
260		1	0	0	0	99	95	90	86	7	0	0	0	93	81	70	60
320		0	0	0	0	100	100	99	98	4	0	0	0	96	88	81	74
80		50	17	5	2	50	19	7	3	55	21	7	2	45	15	7	4
140		30	6	1	1	70	43	26	17	35	8	2	0	65	36	22	14
200		18	2	0	0	82	63	47	36	23	3	0	0	77	51	37	28
260		12	1	0	0	88	74	60	49	16	1	0	0	84	63	51	41
320		8	0	0	0	92	80	68	58	11	0	0	0	89	72	61	51

TABLE A- 96. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FARGO, NORTH DAKOTA

	JANUARY	FEBRUARY	MARCH	APRIL
THRESHOLD	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :
80	: 70 40 22 13 :	: 67 35 19 10 :	: 71 39 23 14 :	: 77 49 29 17 :
140	: 53 26 8 4 :	: 50 17 4 1 :	: 54 19 7 3 :	: 60 24 10 4 :
200	: 40 11 2 0 :	: 37 8 1 0 :	: 41 10 2 0 :	: 46 14 4 1 :
260	: 31 6 1 0 :	: 28 4 0 0 :	: 31 5 0 0 :	: 37 9 2 0 :
320	: 23 3 0 0 :	: 21 2 0 0 :	: 23 3 0 0 :	: 29 5 0 0 :
	MAY	JUNE	JULY	AUGUST
THRESHOLD	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :
80	: 72 39 22 12 :	: 60 25 11 5 :	: 50 16 4 1 :	: 57 21 10 6 :
140	: 52 19 7 2 :	: 39 10 3 1 :	: 29 4 0 0 :	: 33 5 0 0 :
200	: 39 9 2 1 :	: 26 5 1 0 :	: 16 1 0 0 :	: 19 2 0 0 :
260	: 28 4 0 0 :	: 18 1 0 0 :	: 8 0 0 0 :	: 11 1 0 0 :
320	: 20 1 0 0 :	: 12 1 0 0 :	: 5 0 0 0 :	: 8 0 0 0 :
	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
THRESHOLD	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :	.GE. THRESH : .LT. THRESH : DAYS : 1 3 5 7 :
80	: 67 33 16 9 :	: 71 40 21 10 :	: 73 44 27 19 :	: 69 38 22 13 :
140	: 45 11 2 0 :	: 51 16 4 1 :	: 53 19 6 1 :	: 51 16 4 1 :
200	: 32 4 0 0 :	: 38 7 1 0 :	: 40 10 2 0 :	: 36 7 1 0 :
260	: 21 2 0 0 :	: 27 3 0 0 :	: 29 5 1 0 :	: 27 4 1 0 :
320	: 14 1 0 0 :	: 20 1 0 0 :	: 22 2 0 0 :	: 21 2 0 0 :

TABLE A- 91. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FARGO, NORTH DAKOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	50	27	8	3	58	35	12	3	77	61	41	28	92	84	70	58
120	0	0	0	0	100	100	100	100	49	26	8	2	80	67	50	37
180	0	0	0	0	100	100	100	100	0	0	0	0	52	25	9	3
240	0	0	0	0	100	100	100	100	0	0	0	0	6	0	0	0
300	0	0	0	0	100	100	100	100	0	0	0	0	99	98	94	88
	0	0	0	0	100	100	100	100	0	0	0	0	50	25	7	2
	0	0	0	0	100	100	100	100	0	0	0	0	16	3	2	1
	0	0	0	0	100	100	100	100	0	0	0	0	98	95	89	83
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	100	99	99	98	0	0	0	0	100	100	100	100	0	0	0	0
120	91	83	69	59	21	6	1	0	94	89	78	70	5	0	0	0
180	79	62	39	26	43	21	5	2	81	67	48	35	26	9	2	1
240	68	49	26	12	53	32	11	4	68	46	25	13	38	19	5	1
300	53	30	8	1	69	49	26	14	48	23	6	0	58	35	15	7
	56	31	10	4	52	29	13	7	26	8	2	0	94	91	87	86
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	96	92	86	80	1	0	0	0	88	78	60	47	35	20	5	2
120	60	66	43	29	35	15	2	0	64	43	17	8	67	51	33	26
180	58	37	15	6	57	35	15	11	13	5	0	0	99	98	98	96
240	21	5	1	0	97	95	92	91	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 92. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FARGO, NORTH DAKOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	38	14	1	0	71	51	25	11	41	16	3	1	61	38	14	6
140	20	5	0	0	83	69	45	29	29	8	0	0	77	59	35	21
200	7	3	0	0	92	84	69	56	19	3	0	0	87	76	57	43
260	5	1	0	0	94	89	78	69	11	1	0	0	91	83	68	55
320	4	0	0	0	96	93	85	76	8	0	0	0	93	87	75	64
	9	1	0	0	92	84	70	58	18	4	0	0	86	74	55	41
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	61	38	16	4	46	22	7	2	50	25	6	1	53	31	12	5
140	46	21	4	1	63	40	14	5	32	11	2	1	71	53	32	21
200	32	8	0	0	74	56	32	18	22	5	0	0	82	69	52	40
260	21	3	0	0	84	70	49	35	14	3	0	0	89	80	66	55
320	10	0	0	0	89	80	66	54	6	0	0	0	94	88	78	69
	0	0	0	0	98	95	92	88	4	0	0	0	97	94	88	82
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	46	22	5	2	52	25	7	2	47	23	5	1	53	28	8	4
140	32	9	0	0	75	56	31	18	29	8	1	0	73	54	29	17
200	15	0	0	0	85	72	52	39	21	2	0	0	82	68	48	35
260	8	0	0	0	92	85	74	64	9	0	0	0	90	80	66	56
320	2	0	0	0	95	90	82	75	4	0	0	0	93	86	75	66
	7	0	0	0	98	95	90	84	7	0	0	0	96	92	85	78

TABLE A- 93. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FARGO, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	65	42	16	7	54	29	6	1	56	29	7	2	57	34	13	7
140	50	23	5	1	69	48	23	12	44	13	0	0	75	55	32	22
200	38	15	1	0	78	62	39	25	30	8	0	0	84	70	49	36
260	28	9	1	0	86	74	58	47	19	4	0	0	89	79	63	49
320	20	6	0	0	90	82	68	58	12	0	0	0	92	86	74	63
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	31	9	0	0	85	72	54	41	25	6	0	0	91	83	70	60
140	14	3	0	0	94	89	80	72	3	0	0	0	98	95	91	86
200	3	0	0	0	98	96	92	90	2	0	0	0	100	99	97	95
260	3	0	0	0	99	97	95	93	0	0	0	0	100	100	100	100
320	0	0	0	0	100	99	99	99	0	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	40	13	3	1	75	57	34	21	50	22	5	1	63	42	18	8
140	23	6	0	0	89	80	63	50	32	8	1	0	81	65	41	25
200	6	1	0	0	96	93	85	76	23	3	0	0	90	81	66	52
260	0	0	0	0	98	96	91	87	13	0	0	0	93	86	75	63
320	0	0	0	0	100	100	99	96	6	0	0	0	96	92	85	76

TABLE A- 94. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FARGO, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	75	55	29	17	38	16	2	0	69	48	25	13	36	15	2	0
140	59	35	13	5	53	30	6	1	56	30	7	2	54	31	10	4
200	49	24	5	1	66	44	20	11	45	18	3	1	64	44	21	13
260	40	17	1	0	73	55	30	16	35	10	0	0	73	55	30	18
320	33	12	0	0	60	64	41	26	31	7	0	0	81	65	43	30
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	73	53	29	16	35	11	1	0	63	38	16	8	43	21	7	2
140	59	34	11	4	55	36	12	4	46	20	5	2	66	46	24	13
200	46	21	4	1	68	47	21	9	36	13	2	0	76	59	38	25
260	37	11	1	0	77	60	35	22	24	5	0	0	84	73	54	43
320	26	5	0	0	83	69	48	34	19	3	0	0	89	81	67	57
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	70	47	23	13	37	14	3	1	74	55	29	13	32	13	2	0
140	49	22	3	1	57	34	11	3	54	29	6	1	49	25	6	3
200	35	16	1	0	70	49	24	12	42	16	3	0	62	40	16	8
260	25	7	0	0	81	65	41	26	31	9	1	0	74	55	30	16
320	21	4	0	0	87	76	58	43	28	5	0	0	82	69	48	33

TABLE A- 97. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FORT WAYNE, INDIANA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	46	13	2	0	54	21	9	4	67	37	22	13	33	6	1	0
120	0	0	0	0	100	99	97	94	30	5	1	0	70	37	19	10
160	0	0	0	0	100	100	100	100	0	0	0	0	100	99	97	94
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	59	96	93	91	1	0	0	0	100	100	100	100	0	0	0	0
120	86	66	52	41	14	1	0	0	94	85	77	69	6	0	0	0
160	66	39	23	13	34	11	2	1	77	55	39	28	23	3	1	0
240	49	19	8	3	51	22	9	3	58	29	12	4	42	12	4	1
300	17	2	0	0	83	62	48	37	21	4	1	0	79	54	36	25
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	97	90	84	77	3	0	0	0	85	64	47	36	15	2	0	0
120	75	47	25	16	25	4	1	0	56	27	13	6	44	20	10	6
160	50	19	8	3	50	19	8	3	4	0	0	0	96	92	92	92
240	3	0	0	0	97	93	92	91	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A- 98. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FORT WAYNE, INDIANA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	43	13	4	1	57	25	13	7	46	13	4	2	54	20	5	3
100	27	4	0	0	73	42	28	20	31	4	1	0	70	38	21	13
140	16	1	0	0	64	61	45	35	16	1	0	0	83	57	41	30
180	10	0	0	0	50	75	63	54	11	1	0	0	89	70	55	45
220	6	0	0	0	94	83	74	66	7	0	0	0	94	82	71	61
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	51	18	5	1	49	18	7	4	37	10	3	1	63	33	18	10
100	32	4	1	0	68	39	23	16	20	2	0	0	80	56	40	28
140	20	2	0	0	61	58	44	35	10	0	0	0	90	77	66	58
180	12	1	0	0	68	70	58	46	5	0	0	0	95	87	79	72
220	5	0	0	0	92	80	70	62	2	0	0	0	98	93	88	85
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	29	4	0	0	71	41	22	13	37	11	3	1	63	33	19	11
100	13	0	0	0	87	67	52	41	20	2	0	0	80	58	43	34
140	6	0	0	0	94	84	74	66	11	0	0	0	89	72	57	47
180	4	0	0	0	96	89	82	75	6	0	0	0	94	82	72	64
220	2	0	0	0	98	93	89	85	3	0	0	0	97	91	86	80

TABLE A-99. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FORT WAYNE, INDIANA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	52	22	10	5	48	20	9	5	50	20	7	3	50	21	9	4
100	34	9	2	0	66	37	24	16	34	9	3	1	66	40	24	14
140	23	3	1	0	77	52	38	27	21	2	0	0	79	56	40	31
180	14	1	0	0	86	68	54	43	14	1	0	0	86	67	54	46
220	10	0	0	0	90	77	66	56	9	0	0	0	92	78	67	58
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	18	2	0	0	83	62	48	37	10	1	0	0	90	76	65	56
100	7	0	0	0	93	84	77	71	2	0	0	0	98	94	91	88
140	3	0	0	0	98	93	90	88	1	0	0	0	100	98	96	94
180	1	0	0	0	99	98	97	95	0	0	0	0	100	99	98	97
220	0	0	0	0	100	99	98	97	0	0	0	0	100	99	99	98
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	8	0	0	0	92	79	67	56	17	2	0	0	83	62	45	33
100	2	0	0	0	98	93	89	85	6	0	0	0	94	84	74	64
140	1	0	0	0	99	97	95	93	3	0	0	0	97	92	86	80
180	0	0	0	0	100	99	98	97	1	0	0	0	99	96	95	92
220	0	0	0	0	100	99	98	97	0	0	0	0	100	99	98	97

TABLE A-100. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - FORT WAYNE, INDIANA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	71	45	30	19	29	6	2	1	72	42	25	17	29	5	2	1
100	56	25	11	5	44	15	6	2	56	23	10	4	44	14	5	2
140	43	14	5	2	57	27	15	10	45	14	5	3	55	25	11	5
180	36	8	2	0	64	34	21	13	35	7	2	0	65	35	20	10
220	28	4	1	0	72	44	29	20	28	5	1	0	72	44	27	17
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	66	33	15	7	34	8	2	1	50	20	8	3	50	20	9	5
100	47	14	3	0	53	24	13	7	32	8	1	1	68	40	24	16
140	33	7	1	0	69	38	24	17	19	3	1	0	81	60	46	36
180	23	3	1	0	77	54	40	31	11	1	0	0	89	74	63	55
220	16	1	0	0	84	65	51	42	7	0	0	0	94	83	75	67
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	42	11	1	0	59	24	11	5	51	20	9	5	49	19	8	4
100	23	3	0	0	77	48	29	16	34	8	1	0	66	37	21	13
140	13	1	0	0	87	67	51	39	23	3	0	0	77	52	36	26
180	8	0	0	0	92	78	66	56	14	1	0	0	86	66	50	38
220	4	0	0	0	96	88	80	73	9	0	0	0	91	75	63	53

TABLE A-103. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FORT WAYNE, INDIANA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	54	26	4	1	61	37	15	6	71	53	30	16	38	15	2	0
120	0	0	0	0	100	99	97	94	39	15	2	0	72	52	26	14
180	0	0	0	0	100	100	100	100	0	0	0	0	100	99	97	94
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	97	95	92	0	0	0	0	100	100	100	100	0	0	0	0
120	86	76	59	46	19	5	1	0	95	90	81	72	4	1	0	0
180	75	57	33	19	51	29	5	1	82	69	48	35	31	11	3	1
240	60	36	15	6	64	41	16	6	68	47	20	6	52	28	7	3
300	27	7	0	0	86	74	56	42	35	15	2	0	83	67	44	30
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	97	93	86	79	1	0	0	0	86	74	54	40	21	9	2	0
120	78	61	36	22	31	12	1	1	66	46	21	10	62	41	21	11
160	57	35	13	4	59	37	14	5	18	0	0	0	98	97	96	96
240	8	0	0	0	98	96	95	94	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-104. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FORT WAYNE, INDIANA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	47	26	8	2	58	39	18	9	51	25	7	3	58	34	12	5
100	23	11	0	0	72	54	34	23	34	9	1	0	71	51	28	16
140	19	4	0	0	84	70	50	38	20	3	0	0	82	67	47	34
160	12	2	0	0	91	82	68	57	10	3	0	0	83	78	61	49
220	4	0	0	0	94	88	78	69	8	1	0	0	93	87	74	64
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	58	33	9	2	55	33	12	6	52	25	6	2	70	50	26	14
100	38	10	1	0	72	54	32	21	32	9	1	0	83	69	48	33
140	28	6	0	0	83	70	53	41	19	1	0	0	91	84	72	62
160	22	4	0	0	89	79	65	54	4	0	0	0	95	91	82	75
220	12	3	0	0	93	86	75	66	1	0	0	0	97	95	90	86
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	35	11	1	0	74	56	29	16	47	24	5	1	68	49	27	15
100	15	2	0	0	88	76	58	45	29	9	0	0	83	70	50	39
140	7	0	0	0	94	89	78	69	15	0	0	0	89	79	63	51
160	3	0	0	0	96	92	84	77	5	0	0	0	94	87	76	67
220	2	0	0	0	97	95	91	86	1	0	0	0	97	94	88	82

TABLE A-105. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FORT WAYNE, INDIANA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	63	39	17	7	57	36	15	9	60	36	12	5	61	36	14	6
100	49	22	5	1	71	53	32	21	48	20	5	2	74	56	32	19
140	32	10	3	1	80	65	46	32	34	7	0	0	82	68	47	35
180	25	5	0	0	89	78	61	48	18	3	0	0	87	76	60	49
220	23	3	0	0	92	85	72	61	13	0	0	0	92	85	71	61
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	29	6	1	0	85	74	56	43	14	4	1	0	91	84	71	60
100	16	3	0	0	94	89	82	76	4	0	0	0	98	96	92	89
140	8	0	0	0	98	96	92	89	2	0	0	0	99	98	96	95
180	4	0	0	0	99	98	97	96	0	0	0	0	100	99	99	99
220	2	0	0	0	99	99	98	98	0	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	9	1	0	0	93	85	71	59	30	9	1	0	86	73	53	38
100	2	0	0	0	98	95	91	86	14	2	0	0	94	88	77	67
140	0	0	0	0	99	98	95	93	6	0	0	0	97	94	87	81
180	0	0	0	0	99	99	98	97	4	0	0	0	99	98	95	93
220	0	0	0	0	99	99	98	97	0	0	0	0	100	99	98	97

TABLE A-106. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - FORT WAYNE, INDIANA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	76	60	39	24	35	15	4	1	74	55	32	20	34	12	4	2
100	63	41	18	6	49	28	10	4	62	37	16	6	50	28	8	4
140	54	29	10	3	61	42	22	13	52	25	8	4	63	40	17	7
180	43	20	4	1	67	48	28	16	44	16	3	1	70	49	26	13
220	34	12	2	0	74	58	36	24	37	12	2	0	76	58	34	20
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	71	47	21	10	43	20	5	2	61	35	12	5	58	34	15	7
100	54	28	6	0	59	40	20	10	47	20	3	1	75	56	33	21
140	40	16	3	0	72	53	32	22	33	9	2	0	85	72	54	42
180	34	11	1	0	82	68	49	37	22	4	0	0	91	83	70	59
220	24	4	0	0	86	76	59	48	13	1	0	0	94	89	79	70
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	48	23	3	0	61	38	16	7	61	35	14	7	59	36	14	6
100	29	10	1	0	79	61	36	21	47	21	2	1	72	54	28	17
140	18	4	1	0	87	76	58	44	33	12	0	0	80	65	44	31
180	7	0	0	0	92	84	71	60	20	3	0	0	87	76	56	43
220	3	0	0	0	96	91	83	75	16	0	0	0	91	82	69	57

TABLE A-104. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GOODLAND, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7
60	85	66 53 43	15	1 0 0	66	69 55 43	14	1 0 0	91	77 67 59	9	0 0 0	97	91 85 80	3	0 0 0
120	34	13 7 4	66	40 27 16	71	41 23 12	29	5 1 0	78	54 38 28	22	3 1 0	87	69 56 47	13	1 0 0
180	0	0 0 0	100	100100100	22	7 2 0	78	59 48 39	63	34 18 11	37	9 3 1	77	52 36 25	23	3 0 0
240	0	0 0 0	100	100100100	0	0 0 0	100	100100100	24	7 2 1	76	52 38 29	64	32 17 9	36	8 2 0
300	0	0 0 0	100	100100100	0	0 0 0	100	100100100	0	0 0 0	100	100100100	26	7 2 1	74	48 33 21
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7
60	92	95 71 56	2	0 0 0	100	99 98 97	0	0 0 0	100	100100100	0	0 0 0	100	99 98 98	0	0 0 0
120	40	77 65 56	10	0 0 0	97	92 88 84	3	0 0 0	99	95 92 89	1	0 0 0	96	87 80 73	4	0 0 0
180	62	63 48 37	18	2 0 0	93	84 76 70	7	0 0 0	95	89 83 77	5	0 0 0	90	76 65 55	10	1 0 0
240	71	47 31 21	29	8 2 0	85	68 56 46	15	1 0 0	88	72 59 46	12	2 0 0	79	57 41 29	21	5 2 0
300	54	25 12 6	45	17 6 1	72	46 29 18	28	5 1 1	68	38 21 11	32	7 2 0	34	11 5 3	66	45 37 34
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7	1	3 5 7
60	96	90 86 81	4	0 0 0	94	84 75 66	6	0 0 0	86	69 56 45	14	3 1 0	81	58 41 29	19	2 0 0
120	66	70 58 46	14	2 0 0	82	62 47 36	18	4 2 1	55	23 11 5	45	20 14 12	0	0 0 0	100	100100100
180	77	54 39 26	23	5 1 0	41	23 13 8	59	46 43 42	0	0 0 0	100	100100100	0	0 0 0	100	100100100
240	45	22 12 7	55	37 30 25	0	0 0 0	100	100100100	0	0 0 0	100	100100100	0	0 0 0	100	100100100
300	2	0 0 0	100	100100100	0	0 0 0	100	100100100	0	0 0 0	100	100100100	0	0 0 0	100	100100100

TABLE A-110. PROBABILITY(2), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GOODLAND, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL																			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
80	36	6	1	0	64	30	15	9	42	12	4	1	58	23	10	5	54	20	8	3	46	14	6	3	62	27	11	5	38	8	2	1
140	17	1	0	0	83	59	42	31	23	3	0	0	77	42	31	21	33	5	1	0	67	35	20	11	42	6	1	0	58	24	11	5
200	19	2	0	0	90	72	59	49	15	1	0	0	85	65	50	41	22	1	0	0	78	51	32	20	30	4	0	0	70	59	23	14
260	7	0	0	0	93	81	71	62	9	1	0	0	91	79	69	62	14	1	0	0	86	65	48	34	20	1	0	0	80	35	40	29
320	4	0	0	0	96	88	81	75	6	1	0	0	94	85	78	72	11	0	0	0	89	72	57	44	15	1	0	0	85	65	52	41
	MAY				JUNE				JULY				AUGUST																			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
80	57	20	6	1	42	10	2	1	56	23	8	3	44	14	5	1	41	10	3	1	59	27	14	9	41	10	3	1	59	25	11	5
140	33	5	1	0	67	31	15	7	33	7	2	1	67	38	23	14	18	1	0	0	82	58	42	33	19	2	0	0	81	58	43	33
200	21	3	0	0	79	54	37	27	20	2	0	0	80	58	43	35	8	0	0	0	92	79	69	60	7	0	0	0	93	82	72	65
260	14	1	0	0	86	66	52	42	11	1	0	0	89	76	67	61	3	0	0	0	97	91	87	82	2	0	0	0	98	93	89	86
320	9	0	0	0	91	76	64	55	6	1	0	0	94	85	77	71	1	0	0	0	99	96	93	91	1	0	0	0	99	96	94	91
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER																			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
80	38	8	2	0	62	27	12	5	37	7	2	1	63	27	10	4	37	6	1	0	63	27	11	6	34	7	2	0	66	32	17	9
140	16	1	0	0	84	64	48	36	16	1	0	0	84	61	46	33	19	1	0	0	81	56	38	25	17	1	0	0	83	58	42	31
200	7	0	0	0	93	81	70	61	19	0	0	0	91	76	64	54	12	0	0	0	88	71	55	43	11	1	0	0	89	71	58	48
260	4	0	0	0	96	88	81	74	5	0	0	0	95	85	78	70	6	0	0	0	94	83	73	64	6	0	0	0	94	84	73	64
320	2	0	0	0	98	95	91	87	3	0	0	0	97	91	86	81	5	0	0	0	95	87	80	74	3	0	0	0	97	90	83	76

TABLE A-111. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GOODLAND, KANSAS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	36	9	2	0	64	34	20	13	36	9	2	1	64	36	19	10
140	17	2	0	0	83	64	49	39	15	2	0	0	85	66	51	38
200	8	1	0	0	92	81	72	66	9	1	0	0	91	79	68	58
260	5	0	0	0	95	86	80	75	6	0	0	0	94	85	77	70
320	4	0	0	0	96	89	84	80	4	0	0	0	96	90	84	79
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	37	10	2	1	63	33	18	11	26	6	1	0	74	48	32	22
140	14	1	0	0	86	68	54	44	9	1	0	0	91	77	66	58
200	6	0	0	0	94	84	75	69	5	0	0	0	95	87	81	76
260	2	0	0	0	98	93	89	86	1	0	0	0	99	96	95	93
320	2	0	0	0	98	95	92	89	1	0	0	0	99	98	97	96
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	33	7	2	0	67	40	24	15	28	6	1	0	72	45	28	17
140	16	2	0	0	84	67	54	44	13	1	0	0	87	69	55	45
200	7	0	0	0	93	84	75	67	6	0	0	0	94	83	72	63
260	2	0	0	0	98	95	92	90	3	0	0	0	97	90	83	76
320	0	0	0	0	100	99	98	97	2	0	0	0	98	94	90	85

TABLE A-112. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GOODLAND, KANSAS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	69	38	24	17	31	7	2	0	69	39	24	14	31	8	3	1
140	44	11	3	0	56	21	10	6	46	15	6	1	54	22	10	5
200	26	4	0	0	74	45	29	20	30	7	2	0	70	40	23	16
260	17	2	0	0	83	62	48	37	22	4	1	0	78	54	37	26
320	13	1	0	0	87	69	55	45	15	2	1	0	85	66	51	39
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	78	50	31	18	22	1	0	0	77	49	30	17	23	3	1	0
140	56	20	6	1	44	11	3	1	54	21	7	2	46	15	5	1
200	40	10	1	0	60	26	13	7	35	9	3	1	65	36	20	12
260	27	4	1	0	73	43	26	17	24	5	1	0	76	52	38	30
320	20	1	0	0	80	57	41	30	16	2	0	0	84	64	52	44
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	67	35	19	10	33	7	2	0	63	31	15	8	37	7	1	1
140	43	12	4	1	57	25	13	7	38	7	1	0	62	26	12	5
200	27	6	2	0	73	47	29	18	23	4	0	0	77	49	32	21
260	17	2	1	0	83	62	47	36	16	0	0	0	84	63	48	35
320	11	1	0	0	89	74	62	52	11	0	0	0	89	72	59	47

TABLE A-115. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GOODLAND, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	87	77	61	50	19	4	0	0	88	78	62	48	22	5	0	0
120	55	33	15	9	77	61	41	28	76	56	30	15	37	15	2	0
180	0	0	0	0	100	100	100	100	51	27	9	1	86	76	61	50
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	98	96	93	90	0	0	0	0	99	99	98	97	0	0	0	0
120	92	85	72	61	19	3	0	0	97	95	90	86	4	1	0	0
180	86	76	58	43	35	12	1	0	95	90	81	74	13	2	0	0
240	79	64	41	28	44	23	6	1	89	79	64	52	24	4	0	0
300	64	44	19	10	58	35	12	5	78	61	38	23	39	13	3	1
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	97	94	88	84	10	3	0	0	95	84	79	70	13	3	0	0
120	89	80	65	53	30	10	1	0	87	74	54	40	32	12	5	2
180	82	67	46	33	35	15	4	0	69	51	28	16	84	78	73	72
240	65	44	23	13	78	65	53	50	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-116. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GOODLAND, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	36	14	3	0	63	42	20	12	45	24	8	2	60	36	14	7
140	19	4	0	0	63	69	48	35	28	12	2	0	77	60	38	25
200	9	2	0	0	89	79	65	53	20	7	2	0	86	75	57	45
260	5	1	0	0	93	86	75	66	15	7	3	0	92	86	75	67
320	4	0	0	0	96	92	84	77	13	4	1	0	95	91	82	76
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	58	33	9	2	46	21	5	2	60	37	13	5	50	28	10	3
140	36	13	2	0	68	45	21	10	40	17	4	1	72	52	30	18
200	28	10	1	0	81	67	45	32	25	7	0	0	83	69	50	39
260	20	3	0	0	87	76	59	47	17	6	0	0	91	84	73	66
320	11	1	0	0	91	83	70	59	16	4	0	0	95	90	81	74
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	41	19	5	1	65	43	18	8	39	16	4	1	64	41	15	6
140	26	8	1	0	86	75	56	41	22	3	0	0	84	72	54	38
200	10	2	0	0	93	87	75	65	12	0	0	0	91	83	70	58
260	7	2	0	0	96	92	85	77	7	0	0	0	95	90	82	73
320	5	1	0	0	98	96	92	86	1	0	0	0	97	94	89	82

TABLE A-117. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GOODLAND, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	50	23	6	1	69	50	28	12	49	23	5	1	71	52	27	13
140	25	2	1	0	86	75	57	44	32	9	1	0	88	77	58	42
200	19	5	1	0	94	88	78	71	23	6	0	0	93	86	73	62
260	9	1	0	0	95	91	84	79	17	3	0	0	91	82	67	56
320	5	0	0	0	96	93	88	83	9	3	0	0	97	93	87	81
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	50	23	5	1	71	50	27	15	37	16	2	0	80	63	41	27
140	19	4	0	0	88	78	61	49	17	5	0	0	95	91	84	78
200	10	1	0	0	94	98	79	71	9	3	0	0	99	98	96	94
260	4	1	0	0	92	95	91	87	2	2	0	0	100	99	99	98
320	2	0	0	0	93	96	93	91	3	2	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	46	19	5	1	74	56	33	19	41	16	2	0	78	60	36	22
140	32	9	1	0	89	78	63	50	24	3	0	0	89	79	62	50
200	11	1	0	0	95	89	60	70	5	1	0	0	94	88	76	66
260	2	0	0	0	98	96	93	91	4	1	0	0	97	93	86	78
320	0	0	0	0	99	99	98	97	2	0	0	0	98	96	91	87

TABLE A-118. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GOODLAND, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	70	50	25	19	32	13	3	0	73	54	32	19	38	19	6	3
140	47	23	6	1	56	32	15	9	54	30	10	2	58	36	15	8
200	30	11	1	0	76	59	37	24	40	20	5	1	73	53	32	19
260	28	10	1	0	85	73	55	42	35	15	3	1	81	66	45	31
320	22	6	1	0	88	77	61	49	25	13	3	0	87	76	58	44
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	78	62	37	22	22	4	0	0	79	63	38	21	29	11	2	0
140	59	33	10	2	47	22	6	3	59	36	11	3	53	29	8	2
200	47	23	4	0	65	41	20	11	44	22	5	1	72	51	27	16
260	33	12	2	0	76	58	34	22	33	13	3	1	81	65	46	35
320	26	5	0	0	83	69	49	35	24	7	0	0	87	75	60	49
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	70	50	26	14	40	17	4	1	68	46	22	11	42	17	2	1
140	51	27	8	2	64	41	19	9	44	17	1	0	64	41	17	7
200	41	16	5	0	79	63	38	23	32	7	0	0	79	62	40	26
260	30	10	3	0	86	74	55	42	23	2	0	0	86	74	55	40
320	20	5	0	0	91	82	69	57	17	1	0	0	90	80	65	52

TABLE A-121. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND ISLAND, NEBRASKA.

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	74	46	28	18	26	4	1	0	80	56	42	31	20	3	0	0
120	12	2	0	0	88	74	64	56	58	25	10	4	42	12	6	3
160	0	0	0	0	100	100	100	100	5	1	0	0	95	88	82	75
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	98	96	94	92	2	0	0	0	100	99	99	98	0	0	0	0
120	90	77	67	58	10	1	0	0	96	90	84	79	4	0	0	0
160	77	54	39	28	23	4	1	0	89	75	64	55	11	0	0	0
240	65	38	22	14	35	10	3	1	80	58	43	32	20	3	1	0
300	48	19	8	2	52	22	8	3	64	34	18	11	36	9	3	1
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	96	90	84	78	4	0	0	0	92	82	72	63	8	1	0	0
120	82	63	50	39	18	3	0	0	74	51	37	27	26	8	3	1
160	69	44	29	21	31	8	2	1	32	17	11	6	68	57	54	53
240	29	10	3	0	71	57	54	52	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-122. PROBABILITY(X), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND ISLAND, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	33	5	0	0	67	35	20	12	38	7	1	0	63	26	11	5
140	16	1	0	0	84	61	45	35	19	2	0	0	81	56	38	26
200	8	0	0	0	92	77	66	56	9	0	0	0	91	74	59	47
260	4	0	0	0	96	87	80	73	5	0	0	0	95	85	75	66
320	3	0	0	0	97	91	86	80	3	0	0	0	97	91	84	78
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	50	22	7	2	41	9	2	0	55	23	10	4	46	17	8	5
140	36	5	1	0	65	30	15	8	31	7	2	0	70	42	28	19
200	20	1	0	0	80	53	35	25	17	2	0	0	83	63	49	40
260	12	0	0	0	89	70	56	46	8	0	0	0	93	81	73	66
320	5	0	0	0	94	83	75	69	5	0	0	0	95	88	81	75
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	39	9	2	0	61	30	14	8	37	8	1	0	63	31	18	10
140	17	1	0	0	83	60	44	33	18	1	0	0	82	58	43	34
200	7	0	0	0	93	81	72	64	10	1	0	0	90	75	63	52
260	3	0	0	0	97	91	87	83	5	0	0	0	95	87	80	74
320	1	0	0	0	99	95	93	90	2	0	0	0	98	94	91	87

TABLE A-123. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND ISLAND, NEBRASKA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	36	11	3	1	64	35	21	14	37	10	3	1	63	34	18	10
140	18	3	1	0	82	62	48	36	20	3	1	0	80	59	43	30
200	11	1	0	0	89	73	63	54	11	2	0	0	89	77	66	56
260	7	1	0	0	93	82	74	68	7	1	0	0	93	84	75	67
320	4	0	0	0	96	88	83	78	5	0	0	0	95	89	82	77
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	28	7	2	1	72	47	31	23	18	2	0	0	83	63	48	37
140	9	0	0	0	91	78	67	59	4	0	0	0	96	87	81	75
200	3	0	0	0	97	91	86	83	2	0	0	0	99	94	90	87
260	1	0	0	0	99	96	93	91	0	0	0	0	100	99	97	96
320	1	0	0	0	100	98	95	94	0	0	0	0	100	98	97	95
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	16	1	0	0	84	64	48	36	23	4	0	0	77	55	40	30
140	4	0	0	0	96	89	83	77	9	1	0	0	91	78	67	58
200	1	0	0	0	99	96	94	92	4	0	0	0	96	90	84	78
260	0	0	0	0	100	98	97	96	2	0	0	0	98	93	89	84
320	0	0	0	0	100	99	99	99	1	0	0	0	99	96	94	91

TABLE A-124. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND ISLAND, NEBRASKA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	64	33	17	9	36	11	5	2	64	33	19	12	36	9	3	1
140	40	12	3	1	60	29	16	11	43	12	3	1	57	25	11	6
200	27	5	1	0	73	45	30	22	31	6	1	0	69	41	25	17
260	17	2	0	0	83	60	46	35	21	3	0	0	80	56	38	27
320	12	1	0	0	88	70	56	45	14	1	0	0	86	67	51	39
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	73	41	23	13	27	3	1	0	68	39	23	13	32	7	2	1
140	55	19	6	1	45	13	4	1	44	16	6	2	56	26	14	9
200	39	9	3	1	62	29	14	8	29	6	2	0	72	46	31	22
260	24	2	0	0	76	48	30	22	18	3	0	0	82	63	50	42
320	16	1	0	0	84	62	47	37	12	1	0	0	88	72	62	53
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :		.GE. THRESH : .LT. THRESH :	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	56	22	8	2	44	14	4	1	58	26	11	5	42	13	4	1
140	34	7	1	0	66	36	20	13	36	9	2	0	64	34	21	13
200	19	1	0	0	81	55	38	26	23	4	0	0	77	51	36	27
260	11	0	0	0	89	74	61	51	15	1	0	0	85	64	51	40
320	6	0	0	0	94	84	76	68	9	1	0	0	91	77	65	55

TABLE A-127. PROBABILITY(%), BY MONTH, OF INSOLATION, PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND ISLAND, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	78	60	37	23	34	12	2	0	64	71	51	38	32	9	1	0
120	38	14	2	0	92	84	73	64	65	42	16	6	47	26	11	5
180	0	0	0	0	100	100	100	100	23	5	0	0	96	92	86	78
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	98	97	95	93	4	0	0	0	100	99	99	98	0	0	0	0
120	92	85	73	64	19	5	0	0	97	93	87	82	0	0	0	0
180	83	69	50	35	38	13	2	0	91	83	70	60	16	2	0	0
240	75	56	32	19	48	24	6	2	83	70	52	38	31	10	2	0
300	61	38	15	4	62	40	14	4	69	50	26	15	44	21	6	2
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	97	93	87	80	6	1	0	0	94	88	77	67	18	5	1	0
120	86	75	58	44	31	9	1	0	80	65	45	32	42	22	6	2
180	75	59	37	26	44	21	5	3	68	47	26	14	90	85	81	79
240	56	30	6	1	86	80	75	73	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-128. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND ISLAND, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	35	12	1	0	67	48	26	16	40	16	2	1	62	39	16	7
140	17	4	0	0	84	71	52	39	27	5	1	0	82	67	44	30
200	10	2	0	0	92	83	71	60	8	0	0	0	90	81	64	51
260	5	0	0	0	95	91	83	75	6	0	0	0	95	89	78	68
320	5	0	0	0	97	93	86	80	18	2	0	0	89	79	63	52
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	60	35	11	3	42	19	4	0	62	40	17	7	54	31	13	7
140	37	12	2	0	67	45	22	11	42	19	5	1	76	58	37	24
200	20	4	0	0	80	64	42	31	26	8	1	0	86	74	56	45
260	11	0	0	0	88	78	63	51	11	1	0	0	93	87	77	69
320	5	0	0	0	93	88	79	73	7	1	0	0	95	91	84	77
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	47	20	5	1	66	46	21	11	44	19	2	0	65	45	24	13
140	16	4	0	0	83	70	50	37	20	3	0	0	82	68	49	38
200	10	1	0	0	93	87	77	68	10	3	0	0	91	82	69	56
260	3	1	0	0	97	94	89	85	4	1	0	0	96	91	84	77
320	0	0	0	0	98	96	94	91	1	0	0	0	98	96	92	88

TABLE A-129. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND ISLAND, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	51	25	6	2	70	51	27	18	52	23	6	2	72	51	25	13
140	34	10	2	0	86	74	56	44	36	12	2	0	85	72	51	34
200	25	6	2	0	91	82	70	60	26	8	0	0	93	85	71	60
260	16	3	0	0	94	88	79	72	18	4	0	0	94	89	79	71
320	11	3	0	0	96	92	87	81	11	3	0	0	96	93	85	79
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	44	18	6	2	80	63	42	30	35	10	0	0	86	75	57	43
140	10	1	0	0	92	84	73	63	7	0	0	0	95	91	84	77
200	2	0	0	0	97	94	89	85	0	0	0	0	99	97	95	92
260	0	0	0	0	99	97	94	92	0	0	0	0	99	98	97	96
320	0	0	0	0	99	98	96	94	0	0	0	0	99	98	97	96
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	29	7	0	0	86	75	56	42	35	11	1	0	81	68	49	36
140	9	1	0	0	96	93	86	79	13	3	0	0	92	85	72	62
200	4	0	0	0	98	97	95	92	6	0	0	0	97	95	91	87
260	0	0	0	0	99	98	97	96	4	0	0	0	98	95	91	86
320	0	0	0	0	99	99	99	99	4	0	0	0	99	97	95	92

TABLE A-130. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND ISLAND, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	70	47	23	12	43	22	8	4	68	49	27	16	41	18	5	2
140	49	25	7	1	65	44	23	15	52	24	6	2	62	39	16	9
200	36	15	2	0	75	59	38	27	42	16	2	0	74	55	32	21
260	29	7	0	0	85	72	54	40	34	11	2	0	83	68	45	30
320	19	2	0	0	89	79	63	50	25	6	0	0	88	77	57	43
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	74	55	30	16	32	10	2	0	72	54	30	17	37	14	3	1
140	57	31	9	2	50	25	7	2	56	33	11	3	63	42	21	11
200	43	19	5	2	67	46	22	13	44	17	4	1	78	62	41	28
260	29	7	1	0	78	61	38	27	36	11	2	0	86	75	59	49
320	21	3	0	0	86	74	55	43	22	6	1	0	90	81	69	58
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	62	39	14	4	51	29	8	3	61	42	17	8	48	26	7	2
140	42	17	2	0	70	51	27	17	46	21	4	0	68	48	28	17
200	24	5	0	0	82	67	45	31	31	11	1	0	79	64	44	31
260	15	2	0	0	90	81	66	55	19	3	0	0	86	74	58	45
320	11	1	0	0	95	89	80	71	9	2	0	0	91	84	70	59

TABLE A-131. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND ISLAND, NEBRASKA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	14	3	0	0	20	2	1	0	24	6	1	0	46	22	6	2
50/200	2	0	0	0	25	7	0	0	4	0	0	0	28	7	0	0
50/300	2	0	0	0	28	7	0	0	1	0	0	0	15	2	0	0
150/100	0	0	0	0	73	55	32	21	10	5	1	0	30	10	3	0
150/200	0	0	0	0	92	83	71	60	1	0	0	0	25	5	0	0
150/300	0	0	0	0	97	93	87	81	0	0	0	0	13	3	0	0
250/100	0	0	0	0	73	55	32	21	0	0	0	0	10	1	0	0
250/200	0	0	0	0	92	83	71	60	0	0	0	0	36	14	3	1
250/300	0	0	0	0	97	93	87	81	0	0	0	0	6	0	0	0
50/100	53	25	6	1	0	0	0	0	54	31	10	3	35	9	1	0
50/200	20	4	0	0	0	0	0	0	26	8	1	0	9	1	0	0
50/300	6	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0
150/100	43	16	2	0	0	0	0	0	51	28	10	2	35	9	1	0
150/200	14	2	0	0	0	0	0	0	25	8	1	0	9	1	0	0
150/300	5	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0
250/100	35	13	2	0	0	0	0	0	44	23	8	1	33	8	1	0
250/200	13	2	0	0	0	0	0	0	22	8	0	0	9	1	0	0
250/300	4	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0
50/100	38	14	3	0	0	0	0	0	33	9	0	0	27	4	0	0
50/200	10	1	0	0	0	0	0	0	7	2	0	0	8	1	0	0
50/300	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0
150/100	32	11	1	0	0	0	0	0	26	5	0	0	0	0	0	0
150/200	7	1	0	0	0	0	0	0	4	1	0	0	0	0	0	0
150/300	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
250/100	12	1	0	0	0	0	0	0	73	55	34	22	0	0	0	0
250/200	0	0	0	0	0	0	0	0	86	77	67	60	0	0	0	0
250/300	0	0	0	0	0	0	0	0	90	83	77	73	0	0	0	0

TABLE A-132. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND ISLAND, NEBRASKA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	48	24	7	2	15	1	0	0	50	26	8	5	65	42	20	9
50/200	22	8	0	0	21	2	0	0	26	7	1	0	45	19	5	1
50/300	8	1	1	0	24	6	0	0	16	2	1	1	36	14	2	0
150/100	0	0	0	0	49	28	11	6	27	9	2	0	46	22	7	2
150/200	0	0	0	0	75	59	38	27	8	1	0	0	30	9	2	0
150/300	0	0	0	0	88	77	61	46	4	1	0	0	28	7	1	0
250/100	0	0	0	0	49	28	11	6	0	0	0	0	14	3	0	0
250/200	0	0	0	0	75	59	38	27	0	0	0	0	4	1	0	0
250/300	0	0	0	0	88	77	61	46	0	0	0	0	2	1	0	0
50/100	69	46	19	6	0	0	0	0	66	45	22	10	48	24	6	1
50/200	43	19	5	2	0	0	0	0	44	17	4	1	21	7	1	0
50/300	24	5	0	0	0	0	0	0	29	8	0	0	11	2	0	0
150/100	55	29	8	2	5	1	0	0	62	42	19	8	46	23	6	1
150/200	30	11	2	0	13	3	0	0	44	18	4	1	21	7	1	0
150/300	17	4	1	0	23	8	0	0	27	8	0	0	11	2	0	0
250/100	46	21	5	0	19	6	0	0	56	35	14	5	41	18	3	0
250/200	26	9	1	0	27	12	1	0	38	15	3	0	19	6	0	0
250/300	12	3	0	0	41	18	4	1	23	6	0	0	11	2	0	0
50/100	56	31	9	2	2	0	0	0	51	27	6	3	47	22	6	2
50/200	24	5	0	0	2	0	0	0	26	7	0	0	12	3	0	0
50/300	13	1	0	0	2	0	0	0	7	1	0	0	4	0	0	0
150/100	41	20	4	1	26	12	1	0	37	16	1	0	0	0	0	0
150/200	18	4	0	0	33	14	2	1	20	3	0	0	0	0	0	0
150/300	6	1	0	0	37	15	3	1	3	1	0	0	0	0	0	0
250/100	24	3	0	0	58	38	17	7	0	0	0	0	0	0	0	0
250/200	1	0	0	0	76	62	42	29	0	0	0	0	0	0	0	0
250/300	2	0	0	0	86	76	65	56	0	0	0	0	0	0	0	0

TABLE A-133. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND RAPIDS, MICHIGAN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	29	5	0	0	71	39	21	12	59	27	12	5	41	10	3	1
120	0	0	0	0	100	99	96	93	26	4	1	0	74	43	24	14
180	0	0	0	0	100	100	100	100	0	0	0	0	100	99	97	93
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	96	94	92	1	0	0	0	100	99	99	99	0	0	0	0
120	84	62	45	35	16	2	0	0	93	82	71	61	7	0	0	0
180	66	38	24	16	34	8	2	0	78	54	38	26	22	4	1	0
240	52	22	10	5	48	17	6	1	65	34	19	10	35	9	3	1
300	31	8	2	0	69	38	21	12	45	15	6	2	55	24	12	6
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	94	85	76	67	6	0	0	0	79	54	35	24	21	4	1	0
120	73	44	26	14	27	5	2	1	50	22	8	4	50	25	15	10
180	50	20	9	4	50	20	7	3	7	1	0	0	93	88	87	87
240	7	1	0	0	93	89	86	85	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-134. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND RAPIDS, MICHIGAN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	40	9	3	1	60	27	14	7	43	10	2	0	57	21	8	3
60	13	1	0	0	67	67	51	38	17	1	0	0	83	60	43	33
120	5	0	0	0	95	86	78	70	6	0	0	0	94	82	71	64
160	2	0	0	0	98	94	90	86	3	0	0	0	97	90	83	77
200	1	0	0	0	99	98	97	95	2	0	0	0	98	95	91	88
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	55	21	7	1	45	16	8	5	39	8	2	1	61	28	13	6
60	21	2	0	0	79	54	39	30	11	1	0	0	89	73	59	48
120	9	0	0	0	91	78	69	61	3	0	0	0	97	90	85	80
160	4	0	0	0	96	88	81	75	1	0	0	0	99	97	94	92
200	2	0	0	0	98	93	90	86	0	0	0	0	100	99	98	97
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	30	4	1	0	70	37	21	12	36	7	1	0	64	31	17	10
60	7	0	0	0	93	81	70	61	10	0	0	0	90	73	60	50
120	2	0	0	0	98	93	88	84	4	0	0	0	96	90	83	78
160	1	0	0	0	99	96	94	93	2	0	0	0	98	95	92	88
200	0	0	0	0	100	98	98	97	1	0	0	0	99	97	95	93

TABLE A-135. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND RAPIDS, MICHIGAN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	51	21	10	5	49	20	9	5	42	12	4	1	58	27	13	7
80	24	4	1	0	76	51	33	21	18	1	0	0	82	60	44	33
120	11	1	0	0	89	77	67	59	8	0	0	0	92	79	68	60
160	6	0	0	0	94	85	78	72	3	0	0	0	97	90	85	80
200	4	0	0	0	96	92	88	84	2	0	0	0	98	95	92	89
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	9	0	0	0	91	78	66	57	2	0	0	0	98	93	90	87
80	1	0	0	0	99	97	96	95	0	0	0	0	100	99	99	99
120	1	0	0	0	99	98	98	97	0	0	0	0	100	100	100	100
160	0	0	0	0	100	99	99	99	0	0	0	0	100	100	100	100
200	0	0	0	0	100	99	99	99	0	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	8	0	0	0	92	80	69	59	17	2	0	0	83	61	46	34
80	2	0	0	0	98	95	92	88	4	0	0	0	96	89	81	74
120	0	0	0	0	100	99	99	98	1	0	0	0	99	96	93	89
160	0	0	0	0	100	100	99	99	0	0	0	0	100	99	97	96
200	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	99

TABLE A-136. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GRAND RAPIDS, MICHIGAN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	70	39	23	15	30	4	1	0	70	38	21	11	30	5	1	0
80	45	13	4	1	55	23	10	5	42	10	2	0	58	24	9	3
120	30	6	2	0	70	41	25	16	27	4	0	0	73	43	26	16
160	19	2	0	0	81	59	43	30	15	1	0	0	85	64	49	38
200	13	1	0	0	87	73	60	50	10	0	0	0	90	74	62	53
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	66	33	17	8	34	9	4	3	48	15	4	1	52	21	10	5
80	32	7	1	0	68	40	25	18	16	1	0	0	84	63	47	37
120	16	2	0	0	84	65	51	41	6	0	0	0	94	84	75	67
160	9	0	0	0	91	80	70	63	2	0	0	0	98	94	90	86
200	5	0	0	0	95	87	81	75	1	0	0	0	100	98	96	95
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	46	12	3	0	54	19	7	2	54	22	9	5	46	16	6	3
80	17	1	0	0	83	59	43	33	24	4	1	0	76	48	32	22
120	6	0	0	0	94	83	73	65	12	1	0	0	88	70	55	45
160	3	0	0	0	97	91	86	80	6	0	0	0	94	83	75	67
200	1	0	0	0	99	96	93	91	3	0	0	0	97	91	85	80

TABLE A-139. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND RAPIDS, MICHIGAN

		J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
		2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60		39	15	1	0	74	53	28	15	65	43	18	7	47	22	5	1
120		0	0	0	0	100	99	96	93	35	13	2	1	76	57	31	17
180		0	0	0	0	100	100	100	100	0	0	0	0	100	99	97	93
240		0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300		0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
		M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
		2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60		99	98	95	93	0	0	0	0	100	99	99	98	0	0	0	0
120		85	73	52	40	23	7	1	0	94	88	76	65	9	1	0	0
180		72	53	32	21	45	19	4	0	83	68	47	32	31	13	2	0
240		61	39	17	8	59	33	10	2	72	50	27	14	42	21	7	2
300		42	21	5	1	74	54	29	16	56	30	12	4	63	41	19	9
		S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
		2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60		95	89	79	70	5	1	0	0	81	67	43	28	27	12	3	1
120		75	58	34	18	34	14	4	2	61	39	13	6	65	46	25	17
180		58	36	16	6	61	40	14	6	22	8	1	0	97	95	94	93
240		18	7	2	0	97	95	92	91	0	0	0	0	100	100	100	100
300		0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-140. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND RAPIDS, MICHIGAN

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	47	22	7	2	65	43	21	10	47	20	4	1	58	35	13	5
60	14	2	0	0	87	76	57	41	21	6	0	0	84	70	50	37
120	5	0	0	0	95	90	82	73	6	0	0	0	94	87	74	66
160	2	0	0	0	98	96	92	88	3	0	0	0	97	93	85	79
200	0	0	0	0	99	99	97	95	1	0	0	0	98	96	93	89
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	60	35	10	2	51	28	12	8	45	20	4	1	64	42	19	9
60	23	7	0	0	81	67	47	36	14	3	0	0	90	81	65	53
120	16	3	0	0	92	86	75	67	5	0	0	0	97	93	88	82
160	1	0	0	0	96	91	84	78	2	0	0	0	99	98	95	92
200	0	0	0	0	98	95	92	88	0	0	0	0	99	99	98	97
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	34	10	2	0	71	51	27	15	42	18	3	0	67	45	24	13
60	4	0	0	0	93	87	75	65	12	2	0	0	90	81	66	55
120	1	0	0	0	98	95	90	86	2	0	0	0	96	93	86	80
160	0	0	0	0	99	97	95	94	2	0	0	0	98	96	93	89
200	0	0	0	0	99	99	98	97	2	0	0	0	99	98	96	93

TABLE A-141. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND RAPIDS, MICHIGAN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	60	36	16	7	60	36	15	8	53	24	6	2	64	42	19	9
80	35	14	2	0	81	65	42	25	24	3	0	0	84	71	51	38
120	25	5	0	0	92	86	74	64	13	1	0	0	92	85	72	63
160	10	1	0	0	95	90	82	75	5	0	0	0	97	93	87	82
200	11	1	0	0	97	95	91	87	4	0	0	0	98	97	93	91
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	18	3	0	0	92	86	72	61	2	0	0	0	99	98	96	93
80	2	0	0	0	99	98	97	96	0	0	0	0	100	99	99	98
120	2	0	0	0	99	99	98	97	0	0	0	0	100	100	100	100
160	0	0	0	0	100	99	99	99	0	0	0	0	100	100	100	100
200	0	0	0	0	100	99	99	99	0	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	17	1	0	0	93	87	74	63	35	7	1	0	86	73	54	40
80	2	0	0	0	98	97	93	90	9	0	0	0	96	92	84	77
120	0	0	0	0	100	99	99	98	4	0	0	0	99	97	94	90
160	0	0	0	0	100	100	99	99	0	0	0	0	100	99	98	96
200	0	0	0	0	100	100	100	100	0	0	0	0	100	100	99	99

TABLE A-142. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GRAND RAPIDS, MICHIGAN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	72	53	30	19	33	12	2	0	73	53	29	15	33	15	2	0
80	53	27	8	2	62	39	16	7	46	19	3	1	61	41	16	4
120	43	16	4	1	75	57	33	20	35	10	0	0	76	56	32	19
160	29	9	1	0	85	72	51	34	22	4	0	0	86	74	55	43
200	25	7	0	0	91	82	68	55	15	1	0	0	90	82	67	57
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	69	47	22	10	37	19	7	5	56	29	7	1	59	37	16	7
80	41	16	3	0	74	56	35	24	26	3	0	0	86	74	55	43
120	20	6	0	0	86	76	59	47	5	0	0	0	94	89	79	70
160	17	3	0	0	93	87	76	68	3	0	0	0	98	96	92	87
200	5	0	0	0	95	91	84	76	0	0	0	0	99	98	97	95
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	52	24	6	1	57	33	11	3	62	38	15	7	57	31	11	4
80	22	5	0	0	84	70	50	37	32	10	3	1	79	62	41	27
120	6	0	0	0	94	88	78	69	20	4	0	0	89	79	62	50
160	1	0	0	0	97	94	88	82	11	0	0	0	94	88	79	70
200	1	0	0	0	98	97	94	92	1	0	0	0	97	93	87	81

TABLE A-145. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GREEN BAY, WISCONSIN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	50	17	5	2	50	16	5	1	69	38	21	12	31	4	0	0
120	0	0	0	0	100	100	99	95	38	12	4	1	62	27	10	3
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	99	95
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	98	95
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	97	96	94	1	0	0	0	100	99	99	99	0	0	0	0
120	63	63	48	37	17	1	0	0	92	81	72	63	8	0	0	0
180	67	37	22	12	33	5	1	0	75	49	34	26	25	4	1	0
240	49	16	7	3	51	18	6	2	62	30	15	7	38	10	2	0
300	26	4	2	1	74	43	24	14	38	11	3	1	62	31	15	8
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	95	84	75	60	5	0	0	0	77	52	36	24	23	5	2	1
120	71	41	24	14	29	7	2	1	45	14	5	1	55	28	18	15
180	45	14	5	2	55	26	15	11	1	0	0	0	99	99	99	99
240	4	1	0	0	96	92	91	91	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-146. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GREEN BAY, WISCONSIN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	39	9	3	1	61	29	15	8	39	10	4	2	61	26	10	4
100	22	3	1	0	78	53	36	25	25	3	1	0	75	47	30	20
140	12	0	0	0	88	70	56	45	15	1	0	0	85	62	45	34
180	7	0	0	0	93	81	71	62	10	0	0	0	91	76	64	54
220	3	0	0	0	97	91	85	80	6	0	0	0	94	83	73	64
	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	48	14	3	1	52	20	8	4	37	10	3	1	63	32	19	11
100	29	4	1	0	71	41	24	15	21	1	0	0	79	53	38	28
140	18	1	0	0	83	60	45	33	12	0	0	0	88	70	56	46
180	11	1	0	0	90	75	63	54	7	0	0	0	94	82	72	63
220	5	0	0	0	95	87	80	74	4	0	0	0	96	89	82	75
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	37	7	2	0	63	30	15	9	41	11	4	2	59	28	14	8
100	18	1	0	0	82	52	35	24	24	3	1	0	77	49	34	23
140	9	0	0	0	91	74	62	51	12	1	0	0	89	71	57	47
180	5	0	0	0	95	85	77	69	7	0	0	0	93	79	67	56
220	2	0	0	0	98	92	87	82	4	0	0	0	97	89	83	77

TABLE A-147. PROBABILITY(X), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GREEN BAY, WISCONSIN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	51	19	8	4	49	18	8	3	43	14	5	2	57	28	15	10
100	32	7	2	0	68	39	24	16	25	4	1	0	77	52	38	27
140	19	3	1	0	81	60	44	32	15	2	0	0	85	67	54	44
180	12	1	0	0	88	72	59	48	9	1	0	0	90	75	64	54
220	7	0	0	0	93	81	72	62	7	0	0	0	93	81	71	63
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	17	1	0	0	83	65	53	46	5	0	0	0	99	94	91	87
100	7	0	0	0	93	83	75	69	0	0	0	0	100	98	97	95
140	3	0	0	0	98	92	88	84	0	0	0	0	100	99	98	97
180	1	0	0	0	100	98	97	95	0	0	0	0	101	100	99	99
220	0	0	0	0	100	99	99	98	0	0	0	0	101	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	11	1	0	0	89	72	59	49	25	4	1	0	59	30	13	6
100	3	0	0	0	97	91	85	79	11	0	0	0	74	47	30	18
140	1	0	0	0	99	95	92	88	7	0	0	0	85	66	50	38
180	0	0	0	0	100	98	96	94	4	0	0	0	89	73	59	49
220	0	0	0	0	100	99	97	96	2	0	0	0	93	83	74	66

TABLE A-148. PROBABILITY(X), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - GREEN BAY, WISCONSIN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	70	42	27	16	30	6	2	0	64	35	20	14	36	9	2	0
100	54	22	10	4	46	15	6	2	49	17	8	4	51	19	8	4
140	42	11	4	2	58	25	13	6	38	9	3	1	63	31	16	10
180	30	7	2	1	70	41	25	17	28	5	1	0	72	43	28	19
220	23	4	1	0	77	52	36	26	22	3	0	0	78	52	36	25
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	65	31	15	7	36	10	3	1	46	16	5	2	54	25	13	7
100	43	12	3	1	57	27	14	6	29	4	1	1	72	43	28	18
140	30	4	1	0	70	43	27	17	17	1	0	0	83	61	46	36
180	20	1	0	0	80	57	42	32	11	0	0	0	90	75	63	54
220	13	1	0	0	87	71	58	49	7	0	0	0	94	85	78	71
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	51	17	6	2	49	17	7	3	59	27	14	7	42	14	7	4
100	30	4	1	0	70	37	20	12	41	12	5	2	60	29	15	8
140	18	2	0	0	82	58	43	32	29	6	1	0	71	43	27	17
180	11	0	0	0	89	70	58	47	20	2	0	0	81	57	40	29
220	6	0	0	0	94	81	71	63	13	0	0	0	88	68	54	43

TABLE A-151. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GREEN BAY, WISCONSIN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	56	32	9	3	55	32	10	3	73	54	29	17	37	12	1	0
120	0	0	0	0	100	100	99	95	48	27	8	2	65	43	15	4
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	99	95
240	0	0	0	0	100	100	100	100	0	0	0	0	100	98	95	90
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	98	97	95	0	0	0	0	100	99	99	99	0	0	0	0
120	86	75	57	43	23	5	1	0	93	87	76	67	14	1	0	0
180	71	53	30	16	39	14	2	0	79	63	43	32	32	12	2	0
240	55	32	12	5	56	32	11	3	68	47	22	10	47	23	5	1
300	30	12	4	2	76	57	31	18	48	24	7	2	68	47	23	11
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	94	89	79	69	3	2	0	0	80	66	44	29	34	15	6	2
120	75	56	32	19	38	18	4	1	54	30	9	2	66	47	29	24
180	54	28	9	4	64	46	26	18	0	0	0	0	100	99	99	99
240	12	3	1	0	98	96	95	94	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-152. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GREEN BAY, WISCONSIN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	41	18	5	2	54	42	21	10	39	19	7	3	61	38	13	6
100	27	9	3	1	80	65	44	29	29	10	2	1	76	60	37	24
140	13	2	0	0	68	76	62	49	14	3	0	0	84	72	51	38
180	9	2	0	0	93	87	76	66	7	2	0	0	91	83	69	58
220	8	1	0	0	97	94	88	82	4	0	0	0	94	88	77	68
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	53	27	6	1	57	35	13	6	49	22	6	2	69	48	27	15
100	35	11	1	0	74	55	32	20	29	3	0	0	80	66	45	33
140	19	6	0	0	84	71	53	39	18	0	0	0	89	79	62	50
180	16	4	0	0	91	83	70	60	8	0	0	0	93	87	76	66
220	11	3	0	0	95	91	84	77	5	0	0	0	96	92	85	78
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	39	15	4	1	65	44	20	11	45	23	8	3	63	43	21	11
100	15	3	0	0	79	63	41	26	24	9	1	0	77	62	41	28
140	7	0	0	0	90	81	67	55	12	2	0	0	89	79	62	51
180	2	0	0	0	95	89	80	72	3	0	0	0	92	84	71	60
220	0	0	0	0	97	94	88	83	2	0	0	0	96	92	85	79

TABLE A-153. PROBABILITY(1), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GREEN BAY, WISCONSIN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	58	34	13	6	56	33	13	5	50	27	9	4	64	43	21	12
100	44	20	4	1	75	56	32	20	33	11	2	0	80	65	44	30
140	30	8	2	1	86	73	53	37	26	7	1	0	87	77	61	49
180	18	3	0	0	90	81	65	52	17	4	0	0	92	85	73	63
220	14	2	0	0	94	87	76	66	17	1	0	0	94	90	81	74
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	29	6	0	0	87	77	62	53	9	2	0	0	95	91	83	76
100	11	1	0	0	94	89	80	73	0	0	0	0	99	98	96	94
140	1	0	0	0	97	94	90	86	0	0	0	0	99	99	97	96
180	0	0	0	0	99	98	97	95	0	0	0	0	100	99	98	97
220	0	0	0	0	100	99	99	98	0	0	0	0	100	99	99	98
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	15	2	0	0	89	80	64	53	39	14	2	0	79	64	40	25
100	2	0	0	0	96	93	87	81	16	1	0	0	90	81	65	51
140	0	0	0	0	98	96	92	89	12	1	0	0	94	88	77	67
180	0	0	0	0	99	99	97	95	6	0	0	0	96	92	84	76
220	0	0	0	0	99	99	98	96	2	0	0	0	98	96	92	88
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	73	56	34	23	36	14	4	0	67	43	26	17	41	18	3	0
100	58	36	14	6	51	27	10	4	52	29	12	6	55	31	11	5
140	49	24	9	3	63	40	18	9	40	19	6	2	65	44	21	12
180	40	19	5	1	74	55	33	21	32	12	1	0	73	57	34	22
220	28	12	2	1	61	66	44	30	26	9	1	0	78	64	42	29
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	69	46	21	10	46	24	6	3	54	30	9	2	63	42	21	10
100	54	25	6	1	66	45	22	12	37	11	3	1	76	57	36	22
140	39	11	2	0	76	59	37	24	24	3	0	0	85	72	53	41
180	24	5	0	0	83	70	51	39	17	0	0	0	90	81	66	55
220	21	4	0	0	90	81	66	55	10	0	0	0	93	87	76	66
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	56	30	11	4	53	30	10	5	65	44	21	11	48	26	12	7
100	30	9	1	0	70	50	27	15	48	26	12	7	72	51	25	12
140	24	6	2	0	63	69	50	36	34	14	2	0	59	36	13	5
180	9	0	0	0	88	77	63	51	26	8	0	0	66	46	22	11
220	3	0	0	0	93	86	75	66	12	1	0	0	74	57	33	19
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7

TABLE A-154. PROBABILITY(2), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - GREEN BAY, WISCONSIN

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	73	56	34	23	36	14	4	0	67	43	26	17	41	18	3	0
100	58	36	14	6	51	27	10	4	52	29	12	6	55	31	11	5
140	49	24	9	3	63	40	18	9	40	19	6	2	65	44	21	12
180	40	19	5	1	74	55	33	21	32	12	1	0	73	57	34	22
220	28	12	2	1	61	66	44	30	26	9	1	0	78	64	42	29
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	69	46	21	10	46	24	6	3	54	30	9	2	63	42	21	10
100	54	25	6	1	66	45	22	12	37	11	3	1	76	57	36	22
140	39	11	2	0	76	59	37	24	24	3	0	0	85	72	53	41
180	24	5	0	0	83	70	51	39	17	0	0	0	90	81	66	55
220	21	4	0	0	90	81	66	55	10	0	0	0	93	87	76	66
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	56	30	11	4	53	30	10	5	65	44	21	11	48	26	12	7
100	30	9	1	0	70	50	27	15	48	26	12	7	72	51	25	12
140	24	6	2	0	63	69	50	36	34	14	2	0	59	36	13	5
180	9	0	0	0	88	77	63	51	26	8	0	0	66	46	22	11
220	3	0	0	0	93	86	75	66	12	1	0	0	74	57	33	19
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7

TABLE A-157. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MADISON, WISCONSIN

	JANUARY		FEBRUARY		MARCH		APRIL	
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	60 27 13 7	40 10 2 0	79 54 35 24	21 2 0 0	86 68 53 41	14 2 0 0	90 75 65 56	10 0 0 0
120	0 0 0 0	100 98 93 88	44 13 5 2	56 21 7 3	64 32 16 9	36 8 3 0	71 40 24 15	29 4 0 0
180	0 0 0 0	100 100 100 100	0 0 0 0	100 97 93 87	41 12 4 2	59 27 14 7	52 19 7 3	48 15 3 1
240	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	3 0 0 0	97 92 87 81	37 11 3 1	63 30 13 5
300	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	4 0 0 0	96 88 80 72
	MAY		JUNE		JULY		AUGUST	
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	95 85 78 72	5 0 0 0	99 97 96 95	1 0 0 0	99 98 97 96	1 0 0 0	99 96 94 92	1 0 0 0
120	83 63 49 38	17 2 1 0	92 81 71 62	8 1 0 0	93 82 71 62	7 0 0 0	89 73 61 49	11 0 0 0
180	70 42 26 16	30 6 2 0	78 54 38 28	22 4 1 0	82 55 36 25	18 1 0 0	75 46 27 16	25 3 0 0
240	54 22 9 4	46 14 4 1	62 32 17 10	38 9 3 1	65 31 15 7	35 6 1 1	53 19 7 1	47 16 8 5
300	28 6 1 0	72 41 24 14	41 12 4 1	59 28 14 8	32 6 1 0	68 37 24 18	5 0 0 0	95 89 86 83
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	92 79 68 58	8 0 0 0	81 59 44 33	19 4 1 0	53 21 8 4	47 16 5 2	40 9 2 1	60 26 10 4
120	74 47 29 19	26 6 1 0	55 25 11 5	45 20 11 8	5 0 0 0	95 90 87 86	0 0 0 0	100 100 100 100
180	56 22 9 5	44 16 7 4	7 1 0 0	93 88 86 86	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100
240	10 1 0 0	90 80 75 72	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100
300	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100

TABLE A-158. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MADISON, WISCONSIN

	JANUARY		FEBRUARY		MARCH		APRIL	
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	30 5 1 1	70 38 22 13	38 7 1 0	62 27 12 5	45 12 3 1	55 21 9 3	60 27 11 5	40 10 2 1
100	14 0 0 0	86 64 47 33	22 2 0 0	78 49 30 18	26 2 0 0	74 42 25 14	40 10 2 0	60 27 12 6
140	7 0 0 0	93 79 66 56	11 0 0 0	89 71 56 44	15 0 0 0	85 63 46 33	26 4 1 0	74 46 30 20
180	4 0 0 0	97 88 81 74	6 0 0 0	94 82 72 63	9 0 0 0	91 75 60 48	17 1 0 0	83 60 45 34
220	2 0 0 0	99 94 91 87	4 0 0 0	96 88 80 73	6 0 0 0	94 82 71 60	11 0 0 0	89 69 55 43
	MAY		JUNE		JULY		AUGUST	
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	52 16 5 2	48 17 7 4	38 7 1 0	63 28 13 7	29 5 1 0	71 44 30 20	22 2 0 0	78 48 29 18
100	30 5 1 0	70 40 26 17	19 2 0 0	82 58 40 29	11 0 0 0	89 73 62 54	7 0 0 0	93 80 68 57
140	16 1 0 0	84 65 52 44	10 0 0 0	90 74 61 51	5 0 0 0	95 87 81 75	2 0 0 0	98 93 88 82
180	9 0 0 0	91 78 68 61	5 0 0 0	96 86 77 69	2 0 0 0	98 95 92 90	1 0 0 0	99 96 92 88
220	6 0 0 0	94 85 78 71	1 0 0 0	99 96 93 90	0 0 0 0	100 99 98 97	1 0 0 0	100 98 96 93
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	32 4 1 0	68 33 19 11	34 7 2 1	66 35 20 10	35 5 1 0	65 31 15 7	22 3 0 0	78 50 34 22
100	12 0 0 0	88 68 54 43	15 1 0 0	85 63 49 39	16 1 0 0	84 62 46 35	8 0 0 0	92 78 66 57
140	5 0 0 0	96 86 77 67	7 0 0 0	93 80 69 60	10 0 0 0	90 74 61 51	3 0 0 0	97 91 86 82
180	2 0 0 0	98 94 90 85	4 0 0 0	96 88 80 72	6 0 0 0	94 82 73 65	1 0 0 0	99 95 93 90
220	1 0 0 0	99 96 94 91	2 0 0 0	99 94 90 86	4 0 0 0	96 89 82 76	1 0 0 0	99 98 96 95

TABLE A-159. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MADISON, WISCONSIN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	41	11	4	1	59	29	16	9	37	9	2	0	63	33	17	9
100	21	2	0	0	79	53	36	24	23	3	1	0	77	52	34	22
140	13	1	0	0	87	67	51	38	13	1	0	0	87	69	55	44
180	8	0	0	0	92	77	65	54	8	1	0	0	92	80	70	61
220	4	0	0	0	96	87	79	72	3	0	0	0	97	91	85	80
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	17	2	0	0	83	67	56	48	3	0	0	0	98	95	91	88
100	5	0	0	0	95	87	81	76	1	0	0	0	100	99	98	97
140	2	0	0	0	98	95	92	89	0	0	0	0	100	99	99	98
180	1	0	0	0	99	97	95	94	0	0	0	0	100	100	99	98
220	1	0	0	0	99	98	97	96	0	0	0	0	100	100	99	98
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	8	1	0	0	93	81	70	61	24	5	1	0	76	52	36	26
100	2	0	0	0	98	93	88	84	10	1	0	0	90	75	62	52
140	1	0	0	0	99	96	93	90	5	0	0	0	86	87	79	71
180	0	0	0	0	100	99	97	96	2	0	0	0	98	92	86	80
220	0	0	0	0	100	99	98	97	1	0	0	0	99	96	93	89

TABLE A-160. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MADISON, WISCONSIN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	61	29	16	8	39	11	5	1	63	30	14	8	37	9	3	1
100	43	14	4	1	57	26	14	8	45	13	3	1	55	22	9	4
140	31	5	1	0	69	39	24	15	34	7	1	0	66	34	18	10
180	20	2	0	0	80	54	37	25	25	4	1	0	75	47	28	16
220	15	0	0	0	85	62	46	33	17	1	0	0	83	61	45	32
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	66	34	18	10	34	9	2	1	50	16	4	1	51	18	8	4
100	46	14	5	2	54	25	14	9	25	3	1	0	76	47	29	18
140	30	7	2	0	70	43	30	22	14	2	0	0	88	67	52	43
180	19	2	1	0	81	60	47	39	9	0	0	0	91	76	63	52
220	12	1	0	0	88	72	61	53	4	0	0	0	96	88	80	73
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	48	13	5	1	53	19	8	3	55	22	8	4	45	15	7	3
100	26	2	0	0	75	43	27	17	35	7	2	1	65	33	18	10
140	13	0	0	0	88	68	53	41	24	4	1	0	76	49	33	23
180	7	0	0	0	94	82	71	62	15	1	0	0	85	64	48	38
220	3	0	0	0	98	92	85	79	9	0	0	0	91	76	62	52

TABLE A-161. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MADISON, WISCONSIN

		JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	:	20	2	1	0	23	4	1	0	33	5	0	0	11	0	0	0
50/120	:	5	0	0	0	30	5	1	0	13	1	0	0	14	1	0	0
50/180	:	2	0	0	0	31	6	1	0	5	0	0	0	15	1	0	0
150/ 60	:	0	0	0	0	70	38	22	13	6	0	0	0	54	19	8	3
150/120	:	0	0	0	0	91	75	60	48	3	0	0	0	73	45	30	20
150/180	:	0	0	0	0	97	88	81	74	2	0	0	0	81	59	45	34
250/ 60	:	0	0	0	0	70	38	22	13	0	0	0	0	62	27	12	5
250/120	:	0	0	0	0	91	75	60	48	0	0	0	0	85	62	45	33
250/180	:	0	0	0	0	97	88	81	74	0	0	0	0	94	82	72	63
		MAY				JUNE				JULY				AUGUST			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	:	49	14	3	1	1	0	0	0	37	7	1	0	0	0	0	0
50/120	:	20	2	0	0	3	0	0	0	13	1	0	0	0	0	0	0
50/180	:	8	0	0	0	3	0	0	0	5	0	0	0	1	0	0	0
150/ 60	:	38	9	2	1	10	1	0	0	32	5	0	0	8	0	0	0
150/120	:	16	1	0	0	18	2	0	0	11	1	0	0	11	1	0	0
150/180	:	7	0	0	0	22	3	1	0	4	0	0	0	13	1	0	0
250/ 60	:	23	3	0	0	22	3	0	0	22	2	0	0	25	2	0	0
250/120	:	9	0	0	0	38	10	2	0	8	1	0	0	35	7	1	0
250/180	:	4	0	0	0	45	13	4	1	3	0	0	0	39	9	2	1
		SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
I / W		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/ 60	:	31	3	1	0	4	0	0	0	29	5	2	0	9	0	0	0
50/120	:	6	0	0	0	5	0	0	0	9	0	0	0	13	2	0	0
50/180	:	2	0	0	0	6	0	0	0	3	0	0	0	13	2	0	0
150/ 60	:	21	1	0	0	25	5	2	1	12	1	0	0	46	19	8	4
150/120	:	5	0	0	0	33	9	2	1	3	0	0	0	61	38	27	21
150/180	:	1	0	0	0	35	9	3	1	1	0	0	0	65	44	35	29
250/ 60	:	2	0	0	0	65	31	17	10	0	0	0	0	66	35	20	10
250/120	:	0	0	0	0	89	70	56	47	0	0	0	0	90	73	61	51
250/180	:	0	0	0	0	94	84	78	73	0	0	0	0	96	88	80	72

TABLE A-162. PROBABILITY(X), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MADISON, WISCONSIN

		JANUARY				FEBRUARY				MARCH				APRIL																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
I / W		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
50/ 60	:	40	9	3	1	: 13	1	0	0	: 53	17	6	3	: 6	0	0	0	: 58	24	9	2	: 3	1	0	0	: 65	33	18	12	: 1	0	0	0
50/120	:	23	4	1	1	: 20	3	1	0	: 31	6	1	0	: 9	0	0	0	: 36	7	1	0	: 5	1	0	0	: 44	12	3	1	: 2	0	0	0
50/180	:	12	1	0	0	: 25	4	1	0	: 20	3	0	0	: 11	0	0	0	: 22	2	0	0	: 7	1	0	0	: 28	4	0	0	: 4	0	0	0
150/ 60	:	0	0	0	0	: 39	11	5	1	: 10	1	0	0	: 32	7	3	1	: 31	5	1	0	: 12	2	0	0	: 39	10	3	1	: 7	0	0	0
150/120	:	0	0	0	0	: 65	34	20	12	: 5	0	0	0	: 52	20	8	3	: 19	1	0	0	: 24	3	0	0	: 25	3	0	0	: 15	1	0	0
150/180	:	0	0	0	0	: 80	54	37	25	: 4	0	0	0	: 64	33	16	8	: 12	0	0	0	: 32	6	1	0	: 15	1	0	0	: 23	3	0	0
250/ 60	:	0	0	0	0	: 39	11	5	1	: 0	0	0	0	: 37	9	3	1	: 0	0	0	0	: 34	9	3	1	: 21	4	0	0	: 16	1	0	0
250/120	:	0	0	0	0	: 65	34	20	12	: 0	0	0	0	: 61	28	13	6	: 0	0	0	0	: 58	26	11	4	: 14	1	0	0	: 31	6	1	0
250/180	:	0	0	0	0	: 80	54	37	25	: 0	0	0	0	: 75	47	28	16	: 0	0	0	0	: 73	42	24	13	: 7	0	0	0	: 43	14	5	2
		MAY				JUNE				JULY				AUGUST																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
I / W		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7				
50/ 60	:	62	29	13	6	: 1	0	0	0	: 49	16	4	1	: 0	0	0	0	: 37	9	3	1	: 0	0	0	0	: 33	5	1	0	: 0	0	0	0
50/120	:	34	8	2	0	: 2	0	0	0	: 19	2	1	0	: 0	0	0	0	: 12	0	0	0	: 0	0	0	0	: 9	0	0	0	: 0	0	0	0
50/180	:	18	2	0	0	: 3	0	0	0	: 8	0	0	0	: 0	0	0	0	: 4	0	0	0	: 0	0	0	0	: 3	0	0	0	: 1	0	0	0
150/ 60	:	49	15	5	2	: 6	0	0	0	: 42	11	2	0	: 6	0	0	0	: 32	7	1	0	: 7	0	0	0	: 27	3	0	0	: 10	1	0	0
150/120	:	26	4	1	0	: 14	1																										

TABLE A-163. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MADISON, WISCONSIN

	J A N U A R Y							F E B R U A R Y							M A R C H							A P R I L						
THRESHOLD	.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH				
	D A Y S		D A Y S					D A Y S		D A Y S					D A Y S		D A Y S					D A Y S		D A Y S				
	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7	2	3 5 7	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7		
60	64	42 20 9	44	21	5	0	81	67 43 29	27	8	3	1	89	79 61 48	28	7	1	0	91	84 71 61	15	1	0	0				
120	0	0 0 0	99	98	93	88	53	29 10 3	60	36	12	4	69	48 24 13	48	21	7	1	75	56 33 20	34	11	1	0				
180	0	0 0 0	100	100	100	100	0	0 0 0	99	97	93	88	49	25 9 4	65	43	22	10	61	35 12 5	55	29	6	1				
240	0	0 0 0	100	100	100	100	0	0 0 0	100	100	100	100	11	3	1	0	98	95	90	83	51	27	7	1				
300	0	0 0 0	100	100	100	100	0	0 0 0	100	100	100	100	0	0 0 0	100	100	100	100	11	0	0	0	96	92	82	74		
	M A Y							J U N E							J U L Y							A U G U S T						
THRESHOLD	.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH				
	D A Y S		D A Y S					D A Y S		D A Y S					D A Y S		D A Y S					D A Y S		D A Y S				
	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7				
60	95	90 82 75	4	1	0	0	99	99 97 96	5	1	0	0	99	98 97 97	0	0	0	0	99	97 95 92	0	0	0	0				
120	86	74 57 44	24	7	1	0	94	88 77 67	11	5	0	0	94	87 76 66	12	1	0	0	90	81 67 54	13	1	0	0				
180	75	59 35 21	41	18	4	1	82	68 47 34	30	13	3	1	82	66 43 29	21	5	0	0	77	60 35 20	27	9	1	0				
240	60	39 15 6	55	28	8	1	67	48 24 14	44	22	6	2	68	45 20 9	39	14	2	1	59	34 12 2	56	32	15	9				
300	42	17 4 1	76	56	31	18	48	26 8 2	66	45	23	12	40	16 2 1	72	52	33	23	10	1	0	0	96	94	90	87		
	S E P T E M B E R							O C T O B E R							N O V E M B E R							D E C E M B E R						
THRESHOLD	.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH					.GE. THRESH		.LT. THRESH				
	D A Y S		D A Y S					D A Y S		D A Y S					D A Y S		D A Y S					D A Y S		D A Y S				
	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7	2	3 5 7	2	3	5	7				
60	93	86 73 62	11	2	0	0	84	72 52 38	33	15	3	0	61	38 15 7	57	32	10	5	47	21 4 1	64	42	16	5				
120	78	62 36 23	38	16	2	0	66	44 19 8	61	40	22	14	12	1	0	0	97	95 92 90	0	0	0	100	100	100	100			
180	62	37 15 7	55	33	13	7	23	5 1 0	96	94	92	92	0	0	0	100	100	100	100	0	0	0	100	100	100	100		
240	24	5 1 0	94	89	83	80	0	0 0 0	100	100	100	100	0	0	0	100	100	100	100	0	0	0	100	100	100	100		
300	0	0 0 0	100	100	100	100	0	0 0 0	100	100	100	100	0	0	0	100	100	100	100	0	0	0	100	100	100	100		

TABLE A-164. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MADISON, WISCONSIN

		J A N U A R Y								F E B R U A R Y								M A R C H								A P R I L							
THRESHOLD		.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH			
		D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S			
		2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	:	35	12	2	1	71	53	29	16	38	15	3	1	62	40	16	7	49	24	6	1	58	37	14	4	65	43	17	7	45	21	4	1
100	:	12	1	0	0	85	73	52	37	26	8	1	0	79	62	37	22	30	7	1	0	74	56	32	17	47	22	4	0	65	42	19	9
140	:	5	1	0	0	92	84	71	59	13	2	0	0	88	79	62	48	17	1	0	0	86	73	52	37	34	15	2	0	78	61	38	25
180	:	2	0	0	0	96	91	84	76	4	0	0	0	93	87	76	66	12	0	0	0	91	82	65	52	21	3	0	0	84	71	53	40
220	:	0	0	0	0	98	96	92	88	2	0	0	0	95	91	83	75	5	0	0	0	94	87	75	63	8	0	0	0	88	77	61	47
		M A Y								J U N E								J U L Y								A U G U S T							
THRESHOLD		.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH			
		D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S			
		2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	:	56	29	8	3	53	32	12	6	43	17	2	0	65	44	20	10	36	12	1	0	75	59	39	26	29	6	0	0	79	61	36	22
100	:	37	15	2	0	74	56	35	23	28	6	1	0	84	70	48	34	11	1	0	0	90	81	68	59	5	0	0	0	92	85	72	60
140	:	24	6	0	0	87	77	62	51	14	2	0	0	90	81	66	55	7	0	0	0	95	91	84	78	1	0	0	0	97	95	89	83
180	:	15	2	0	0	93	85	74	66	6	0	0	0	95	90	80	71	4	0	0	0	98	97	94	91	0	0	0	0	98	97	93	89
220	:	9	0	0	0	95	90	82	75	0	0	0	0	98	97	93	90	0	0	0	0	99	99	98	97	0	0	0	0	99	98	96	93
		S E P T E M B E R								O C T O B E R								N O V E M B E R								D E C E M B E R							
THRESHOLD		.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH				.GE. THRESH				.LT. THRESH			
		D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S				D A Y S			
		2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	:	31	10	2	0	66	47	26	14	35	14	4	1	69	49	27	14	40	13	2	0	68	47	22	10	26	9	1	0	79	62	41	27
100	:	11	1	0	0	87	77	60	48	12	2	0	0	85	73	56	43	19	4	0	0	86	73	53	39	8	2	0	0	92	84	71	60
140	:	3	0	0	0	95	90	80	70	2	0	0	0	92	85	73	63	9	1	0	0	90	81	66	54	0	0	0	0	97	94	88	84
180	:	1	0	0	0	98	95	91	86	1	0	0	0	95	91	82	75	6	1	0	0	93	87	77	68	0	0	0	0	98	97	94	91
220	:	2	0	0	0	99	97	94	91	2	0	0	0	98	96	91	87	4	0	0	0	96	92	85	78	0	0	0	0	99	98	97	95

TABLE A-165. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MADISON, WISCONSIN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	49	23	7	2	66	46	24	14	51	23	6	1	70	50	25	12
100	25	8	1	0	81	66	43	28	37	11	2	0	82	66	42	27
140	17	2	0	0	87	77	58	43	23	5	0	0	89	79	62	49
180	8	0	0	0	92	83	70	58	16	4	0	0	93	87	75	65
220	2	0	0	0	95	90	82	74	12	3	0	0	97	94	88	82
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	35	11	2	0	89	79	66	57	2	0	0	0	98	96	93	89
100	12	2	0	0	96	92	85	80	0	0	0	0	100	99	98	97
140	4	0	0	0	98	96	93	91	0	0	0	0	100	99	99	98
180	4	0	0	0	99	98	96	94	0	0	0	0	100	99	99	98
220	2	0	0	0	99	99	98	97	0	0	0	0	100	99	99	98
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	14	3	2	0	93	86	73	63	42	16	3	1	82	67	45	32
100	0	0	0	0	98	95	90	85	20	5	0	0	91	82	67	56
140	0	0	0	0	98	97	94	91	10	0	0	0	96	91	82	74
180	0	0	0	0	99	98	97	96	1	0	0	0	97	94	88	81
220	0	0	0	0	99	99	97	96	1	0	0	0	98	97	93	90

TABLE A-166. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MADISON, WISCONSIN

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	66	46	24	12	47	23	10	2	66	44	21	11	44	20	5	1
100	52	28	8	2	65	42	20	11	52	26	7	2	60	37	14	6
140	35	12	2	1	71	54	32	19	41	18	4	0	69	48	24	13
180	22	6	0	0	80	65	45	29	36	14	3	0	78	61	35	20
220	13	1	0	0	84	72	52	38	28	6	0	0	85	73	53	37
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	70	50	25	13	42	21	6	3	57	31	8	1	57	34	14	7
100	56	27	9	4	63	43	25	15	35	9	2	0	78	61	38	23
140	44	21	5	1	77	61	41	31	27	7	2	0	88	77	59	48
180	29	9	2	0	85	74	57	47	11	2	0	0	92	83	68	56
220	22	4	0	0	90	82	68	60	6	0	0	0	96	91	83	75
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	53	25	9	1	56	34	13	4	62	36	13	6	51	27	11	5
100	26	5	1	0	74	56	34	21	42	17	4	1	70	49	25	13
140	15	2	1	0	87	76	58	45	32	12	2	0	80	63	41	28
180	8	0	0	0	94	87	75	65	20	5	1	0	86	74	56	43
220	1	0	0	0	97	94	87	81	8	1	0	0	90	82	67	55

TABLE A-169. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MINNEAPOLIS, MINNESOTA

	JANUARY		FEBRUARY		MARCH		APRIL	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	55 23 10 5	45 12 4 1	74 47 32 22	26 4 0 0	86 67 53 42	14 0 0 0	95 86 79 73	5 0 0 0
120	0 0 0 0	100 100 100 99	36 12 5 2	64 35 19 10	62 30 15 8	38 9 2 0	71 43 27 17	29 7 1 0
180	0 0 0 0	100 100 100 100	0 0 0 0	100 100 99 95	37 11 4 1	63 29 13 5	57 25 10 4	43 13 3 1
240	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 99 96 91	39 12 3 1	61 30 14 7
300	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	2 0 0 0	98 95 91 85
	MAY		JUNE		JULY		AUGUST	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	98 95 93 91	2 0 0 0	99 96 97 96	1 0 0 0	100 99 99 98	0 0 0 0	99 96 95 93	1 0 0 0
120	83 60 45 34	17 1 0 0	91 77 65 57	9 0 0 0	95 86 77 70	5 0 0 0	86 70 55 44	14 1 0 0
180	68 38 24 15	32 6 1 0	78 54 40 30	22 3 0 0	84 62 47 35	16 1 0 0	76 51 34 22	24 4 1 0
240	53 22 10 4	47 16 5 1	63 30 15 8	37 8 3 1	69 38 22 12	31 6 1 0	54 20 7 2	46 16 8 5
300	30 8 2 1	70 42 27 17	42 13 4 1	58 25 11 5	38 9 1 0	62 32 19 13	1 0 0 0	99 98 98 98
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	94 85 76 66	6 0 0 0	80 57 42 32	20 5 2 0	52 21 9 4	48 21 10 5	36 10 2 1	64 33 16 6
120	73 46 30 19	27 6 2 1	55 27 13 6	45 22 15 12	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100
180	53 21 9 3	47 16 9 6	3 0 0 0	97 96 96 96	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100
240	5 1 1 0	95 90 89 86	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100
300	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100

TABLE A-170. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MINNEAPOLIS, MINNESOTA

	JANUARY		FEBRUARY		MARCH		APRIL	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
40	25 2 0 0	72 38 22 12	33 5 1 0	67 33 16 6	42 11 3 1	58 24 11 5	61 27 13 6	39 9 2 1
60	10 0 0 0	90 72 59 47	14 1 0 0	86 66 50 38	19 1 0 0	81 55 38 28	35 7 1 0	65 34 21 12
120	3 0 0 0	67 46 31 17	7 0 0 0	93 80 69 60	8 0 0 0	92 76 64 54	21 3 0 0	79 56 41 30
160	1 0 0 0	99 94 91 86	4 0 0 0	96 89 82 75	5 0 0 0	95 85 75 66	13 1 0 0	87 70 59 50
200	0 0 0 0	100 97 96 94	2 0 0 0	98 95 92 89	2 0 0 0	98 93 87 81	8 0 0 0	92 80 70 63
	MAY		JUNE		JULY		AUGUST	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
40	59 24 10 4	41 9 2 1	47 11 2 1	53 16 6 2	38 6 1 0	62 29 16 9	32 6 1 0	68 35 20 12
60	32 7 2 0	68 40 24 14	20 1 0 0	80 53 34 24	11 0 0 0	89 71 58 48	10 1 0 0	90 75 62 52
120	12 3 1 0	82 64 51 43	8 0 0 0	92 80 70 63	3 0 0 0	97 93 89 86	2 0 0 0	98 93 89 84
160	11 1 0 0	69 75 65 56	3 0 0 0	97 91 86 83	1 0 0 0	99 98 98 97	0 0 0 0	100 99 98 96
200	7 1 0 0	93 85 78 72	1 0 0 0	99 96 93 91	0 0 0 0	100 99 99 99	0 0 0 0	100 100 99 99
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
40	41 9 2 1	60 28 14 8	39 7 0 0	61 26 13 8	35 5 1 0	65 32 14 5	25 2 0 0	75 46 30 21
60	13 1 0 0	89 70 57 49	15 1 0 0	85 61 44 31	13 0 0 0	87 67 52 40	7 0 0 0	93 82 73 66
120	4 0 0 0	97 89 83 78	6 0 0 0	94 82 72 61	6 0 0 0	94 82 71 62	3 0 0 0	97 91 86 82
160	2 0 0 0	100 96 93 90	4 0 0 0	96 86 78 70	4 0 0 0	96 89 83 77	1 0 0 0	99 98 97 95
200	1 0 0 0	101 99 98 96	1 0 0 0	99 93 88 83	2 0 0 0	98 95 92 89	1 0 0 0	100 98 97 96

TABLE A-171. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MINNEAPOLIS, MINNESOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	40	11	2	1	60	29	15	7	38	10	3	1	62	30	15	8
80	16	1	0	0	84	62	48	37	14	1	0	0	82	61	45	34
120	7	0	0	0	93	80	69	60	6	0	0	0	94	85	77	70
160	3	0	0	0	97	89	83	76	3	0	0	0	96	90	85	79
200	2	0	0	0	98	93	88	84	2	0	0	0	98	93	89	85
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	21	3	1	0	79	58	44	35	8	1	0	0	97	91	86	81
80	5	0	0	0	95	89	84	80	2	0	0	0	100	99	98	96
120	1	0	0	0	99	97	95	94	0	0	0	0	100	100	100	100
160	0	0	0	0	100	99	99	98	0	0	0	0	100	100	100	100
200	0	0	0	0	100	100	99	99	0	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	12	1	0	0	69	72	58	47	27	4	1	0	73	42	24	15
80	3	0	0	0	99	93	89	84	10	1	0	0	90	75	60	48
120	1	0	0	0	101	99	98	97	4	0	0	0	96	87	78	69
160	0	0	0	0	101	100	99	99	1	0	0	0	99	93	88	82
200	0	0	0	0	101	101	101	101	1	0	0	0	99	94	90	85

TABLE A-172. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MINNEAPOLIS, MINNESOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	60	26	10	3	40	9	2	1	61	26	14	7	39	11	4	2
80	36	7	1	0	64	32	17	9	35	7	2	0	65	32	15	9
120	21	1	0	0	79	51	36	25	21	2	0	0	79	54	35	25
160	13	1	0	0	87	67	53	42	15	1	0	0	85	66	50	39
200	8	0	0	0	92	78	66	56	9	0	0	0	91	77	64	54
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	70	38	21	12	30	4	1	0	61	28	12	5	39	10	3	1
80	46	15	6	2	54	25	13	7	30	4	1	0	79	38	21	13
120	29	6	1	0	71	44	28	19	15	1	0	0	85	66	50	40
160	18	2	0	0	82	64	53	46	8	0	0	0	92	79	68	60
200	12	1	0	0	88	74	64	56	4	0	0	0	96	90	85	80
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
40	57	22	9	4	45	15	6	2	59	25	10	5	41	11	4	2
80	26	3	1	0	76	50	34	24	34	6	1	0	66	32	17	11
120	12	1	0	0	90	72	59	50	19	2	0	0	81	55	38	26
160	5	1	0	0	96	87	80	74	12	1	0	0	88	69	54	41
200	3	0	0	0	99	93	89	85	7	0	0	0	93	79	66	55

TABLE A-175. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINNEAPOLIS, MINNESOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	61	38	15	7	49	24	7	2	78	62	41	29	33	11	1	0
120	0	0	0	0	100	100	100	99	52	31	13	4	71	54	29	15
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	99	95
240	0	0	0	0	100	100	100	100	0	0	0	0	100	99	96	91
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	98	97	94	92	0	0	0	0	99	99	98	97	2	0	0	0
120	85	72	53	40	23	4	0	0	91	84	70	61	7	1	0	0
180	72	54	33	20	41	19	3	1	82	68	49	37	33	12	1	0
240	61	38	16	6	55	32	9	2	67	47	23	13	42	20	7	3
300	41	20	5	2	74	57	35	21	52	28	9	2	65	42	17	7
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	95	90	80	71	7	1	0	0	63	70	50	37	38	20	6	2
120	77	61	39	24	39	17	4	2	66	46	21	2	64	46	30	24
180	60	38	14	4	58	35	16	11	9	4	0	0	99	99	99	99
240	18	7	2	1	97	96	94	93	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-176. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINNEAPOLIS, MINNESOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	30	7	0	0	71	52	28	15	38	12	2	0	68	47	21	10
80	9	2	0	0	89	79	65	52	18	3	0	0	87	75	56	42
120	2	0	0	0	96	91	83	75	4	0	0	0	93	86	73	63
160	2	0	0	0	98	96	92	84	4	0	0	0	96	92	85	78
200	0	0	0	0	99	98	96	94	0	0	0	0	98	95	89	82
	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	60	36	15	5	45	18	3	1	49	22	3	1	54	29	9	3
80	40	16	3	0	73	57	32	18	18	4	0	0	80	64	40	27
120	25	7	1	0	86	76	59	49	11	1	0	0	93	86	75	66
160	22	6	1	0	91	84	71	62	3	1	0	0	97	94	89	85
200	15	4	1	0	95	91	83	76	2	0	0	0	99	97	94	92
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	43	17	3	1	61	42	21	11	45	17	1	0	63	40	20	12
80	14	3	1	0	87	77	62	52	15	2	0	0	84	71	51	36
120	3	0	0	0	95	91	84	78	8	1	0	0	93	87	76	65
160	1	0	0	0	98	96	93	90	2	0	0	0	96	93	85	79
200	0	0	0	0	99	98	97	95	1	0	0	0	98	97	94	90

TABLE A-177. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINNEAPOLIS, MINNESOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	51	24	5	1	67	46	23	11	49	24	7	1	68	46	23	15
60	25	5	0	0	85	73	56	43	28	4	0	0	88	76	58	46
120	9	1	0	0	93	85	73	63	13	1	0	0	94	89	79	69
160	6	1	0	0	96	92	86	80	5	0	0	0	98	95	90	85
200	2	0	0	0	97	94	90	85	2	0	0	0	98	96	92	88
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	29	10	2	0	64	72	54	42	11	3	0	0	93	87	75	66
60	9	1	0	0	96	93	87	83	3	0	0	0	98	97	93	90
120	1	0	0	0	99	98	96	95	0	0	0	0	100	100	100	100
160	0	0	0	0	100	99	99	99	0	0	0	0	100	100	100	100
200	0	0	0	0	100	100	99	99	0	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	19	2	0	0	69	79	63	50	40	13	2	1	76	56	31	18
60	4	0	0	0	97	94	89	85	19	4	0	0	90	82	65	51
120	0	0	0	0	99	98	97	96	12	0	0	0	95	90	81	71
160	0	0	0	0	100	99	98	97	1	0	0	0	97	94	89	82
200	0	0	0	0	100	100	100	100	1	0	0	0	98	95	91	85

TABLE A-178. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINNEAPOLIS, MINNESOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	64	42	16	5	45	21	5	1	66	43	20	10	47	24	7	3
60	45	17	2	0	69	47	23	12	43	18	4	0	69	47	22	12
120	23	4	0	0	79	63	43	30	32	7	1	0	82	66	43	29
160	16	3	0	0	67	75	59	46	29	3	0	0	88	76	57	44
200	10	1	0	0	92	84	70	59	15	0	0	0	91	84	70	58
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	71	52	27	15	35	10	2	1	66	43	17	7	47	22	6	2
60	53	28	9	3	63	42	20	10	34	10	1	0	73	53	27	17
120	35	14	2	0	76	59	35	23	17	2	0	0	87	75	57	44
160	26	8	0	0	86	76	61	53	9	1	0	0	93	85	73	64
200	20	6	1	0	90	83	70	61	3	1	0	0	96	93	88	83
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
40	61	35	15	7	51	29	11	3	63	39	15	7	45	22	7	4
60	31	8	2	1	77	62	40	26	43	14	1	0	68	49	24	13
120	13	4	1	0	88	79	63	53	24	6	0	0	81	67	45	30
160	7	3	0	0	95	90	82	75	19	4	0	0	88	76	60	45
200	4	0	0	0	97	94	89	85	7	2	0	0	92	84	70	58

TABLE A-181. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MINOT, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	35	11	5	2	64	30	13	5	70	40	22	13	30	6	2	1
120	0	0	0	0	100	100	100	100	20	5	1	0	80	60	47	38
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
240	0	0	0	0	100	100	100	100	0	0	0	0	100	98	94	89
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	96	95	94	1	0	0	0	100	100	100	100	0	0	0	0
120	82	73	61	52	12	1	0	0	92	82	74	66	8	1	0	0
180	73	51	37	26	27	7	1	0	60	59	44	33	20	4	2	0
240	58	31	16	11	42	14	5	1	63	35	20	12	37	11	4	1
300	34	11	4	1	65	36	20	10	44	15	5	2	56	24	10	5
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	95	86	79	72	5	0	0	0	84	64	49	38	16	2	0	0
120	74	47	31	20	26	4	1	0	49	22	9	4	51	30	23	21
180	53	23	11	5	47	20	12	4	1	0	0	0	99	99	99	99
240	6	1	0	0	94	91	90	90	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-192. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - MINOT, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	39	16	3	2	61	27	12	4	46	12	3	1	54	19	7	3
140	21	3	0	0	79	52	33	20	27	3	1	0	73	39	22	12
200	6	1	0	0	92	76	66	56	15	1	1	0	85	64	49	36
260	4	0	0	0	96	89	81	74	8	0	0	0	92	76	63	53
320	2	0	0	0	98	93	87	82	5	0	0	0	95	84	75	67
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	63	27	11	4	37	8	1	0	56	20	7	2	44	10	3	1
140	44	11	3	0	57	24	10	6	34	5	1	0	66	32	17	10
200	29	4	0	0	72	42	27	16	21	3	0	0	79	56	39	27
260	18	1	0	0	83	58	42	31	12	1	0	0	88	71	58	47
320	10	0	0	0	90	75	63	54	7	0	0	0	93	80	70	61
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS		DAYS : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	53	17	5	1	47	12	3	0	49	13	4	1	51	16	5	3
140	31	4	0	0	69	34	17	9	29	4	0	0	71	40	23	14
200	19	2	0	0	81	55	37	26	16	1	0	0	84	62	48	37
260	9	0	0	0	91	75	62	52	8	0	0	0	92	79	69	61
320	6	0	0	0	94	84	74	65	5	0	0	0	95	86	79	72

TABLE A-183. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - PINOT, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	69	42	26	16	31	9	3	1	60	30	14	8	40	14	6	3
140	49	18	7	2	51	21	9	5	38	11	3	1	62	32	18	10
200	35	8	3	1	65	35	20	13	23	4	0	0	77	53	37	26
260	22	3	0	0	78	54	38	27	15	1	0	0	85	66	52	41
320	15	1	0	0	85	66	52	40	10	1	0	0	90	77	67	56
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	33	8	2	0	67	42	27	19	13	1	0	0	87	67	52	41
140	13	1	0	0	87	73	63	54	4	0	0	0	96	90	84	79
200	5	0	0	0	95	86	82	76	2	0	0	0	100	99	97	96
260	1	0	0	0	99	96	94	92	1	0	0	0	100	99	99	98
320	1	0	0	0	100	98	97	96	0	0	0	0	100	99	99	98
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	31	6	1	0	69	39	22	12	43	12	4	1	57	25	12	7
140	11	1	0	0	89	73	60	49	2	2	0	0	79	54	38	27
200	5	0	0	0	95	87	80	74	11	6	0	0	89	74	61	51
260	2	0	0	0	98	93	89	84	6	0	0	0	94	83	74	67
320	2	0	0	0	98	96	93	90	4	0	0	0	96	89	83	77

TABLE A-184. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - PINOT, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	78	55	39	26	22	4	0	0	76	49	32	21	24	4	1	0
140	63	33	17	8	37	10	4	1	60	28	12	5	40	12	4	1
200	50	18	8	3	50	18	8	4	46	15	4	1	54	22	10	4
260	41	11	4	1	59	26	13	7	35	8	2	0	65	34	19	10
320	31	6	2	0	69	39	21	13	26	4	1	0	74	45	28	19
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	76	47	28	17	24	2	0	0	68	35	18	9	32	4	1	0
140	56	23	8	2	42	13	5	2	46	13	4	1	54	19	7	3
200	44	11	2	0	57	25	11	7	28	4	1	0	72	43	25	15
260	32	6	1	0	68	39	24	16	19	3	0	0	81	59	42	30
320	25	3	0	0	76	49	33	24	12	1	0	0	88	71	58	47
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50	72	39	22	11	28	4	0	0	74	47	29	19	26	4	1	0
140	50	17	5	2	50	15	4	1	51	17	7	3	49	16	6	3
200	36	6	1	0	64	30	13	6	38	8	2	0	62	29	15	9
260	25	3	0	0	75	44	25	14	28	3	0	0	72	41	24	16
320	16	1	0	0	84	61	44	31	20	1	0	0	80	54	39	28

TABLE A-187. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINOT, NORTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	47	26	10	5	69	45	20	8	74	56	31	19	35	16	4	2
120	0	0	0	0	100	100	100	100	42	22	5	1	85	75	59	48
180	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	97	96	95	2	0	0	0	100	100	100	100	0	0	0	0
120	90	82	68	58	24	6	2	0	94	89	79	71	16	3	0	0
180	80	67	47	35	43	21	3	0	84	72	54	39	32	12	4	1
240	68	50	27	17	54	30	10	1	69	53	28	16	48	25	8	2
300	46	27	9	2	72	52	28	14	51	29	8	3	61	38	16	8
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	95	90	82	74	5	2	0	0	86	75	56	43	31	12	0	0
120	78	62	40	25	40	12	3	1	63	42	17	6	70	56	45	41
180	62	40	18	6	62	42	24	18	0	0	0	0	100	100	100	100
240	17	6	2	0	98	96	96	96	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-18B. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINOT, NORTH DAKOTA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L																			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	D A Y S				D A Y S				D A Y S				D A Y S				D A Y S															
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7																
50	41	19	6	3	62	41	17	6	49	25	5	1	54	32	10	4	56	33	13	6	43	17	3	0	68	48	22	10	31	11	1	0
140	23	9	2	0	80	65	41	25	29	7	2	0	72	51	28	15	39	15	4	2	62	39	15	6	50	26	7	1	53	31	10	4
200	10	3	0	0	92	84	71	60	20	4	1	0	86	74	56	42	24	7	0	0	77	58	34	20	40	12	1	0	70	51	28	16
260	9	1	0	0	96	92	81	67	7	3	0	0	91	82	68	57	12	3	0	0	86	72	54	39	28	7	0	0	80	66	45	30
320	5	2	0	0	98	95	89	84	7	0	0	0	94	88	79	70	10	2	0	0	92	83	69	55	17	2	0	0	87	77	60	47
	M A Y				J U N E				J U L Y				A U G U S T																			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	D A Y S				D A Y S				D A Y S				D A Y S				D A Y S															
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7																
80	65	42	16	5	43	19	2	0	56	34	11	3	46	21	5	1	51	22	4	1	52	30	10	4	47	20	5	1	51	28	9	2
140	50	23	5	0	62	41	16	9	38	13	2	0	68	46	24	13	27	8	1	0	75	57	34	19	26	7	0	0	75	55	26	12
200	35	11	1	0	74	57	36	24	31	9	1	0	82	69	47	32	10	1	0	0	86	75	58	45	12	2	0	0	87	76	55	40
260	20	4	0	0	83	70	50	36	16	4	0	0	89	80	64	52	4	0	0	0	92	85	75	66	4	0	0	0	94	88	76	65
320	16	1	0	0	90	82	69	56	10	1	0	0	93	86	75	65	2	0	0	0	96	93	86	80	5	0	0	0	97	93	87	81
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R																			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	D A Y S				D A Y S				D A Y S				D A Y S				D A Y S															
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7																
80	54	29	8	2	48	23	5	1	49	24	7	2	52	27	9	4	47	21	3	1	64	43	21	11	37	12	1	0	68	47	22	11
140	34	11	1	0	70	49	23	11	32	11	1	0	74	55	30	18	32	10	0	0	81	66	47	33	17	2	0	0	86	73	54	40
200	22	7	0	0	82	66	44	29	15	2	0	0	85	73	56	43	18	2	0	0	89	79	64	52	9	1	0	0	94	87	76	66
260	9	1	0	0	91	82	67	56	8	0	0	0	92	86	74	65	15	1	0	0	93	87	77	67	4	1	0	0	97	93	88	83
320	4	0	0	0	95	89	78	66	4	1	0	0	95	91	83	76	8	1	0	0	95	90	83	76	4	1	0	0	98	96	92	88

TABLE A-189. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINOT, NORTH DAKOTA

		JANUARY				FEBRUARY				MARCH				APRIL																		
THRESHOLD	.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH																		
	DAYS	DAYS			DAYS	DAYS			DAYS	DAYS			DAYS	DAYS																		
	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7																
80	74	55	32	19	38	18	7	2	68	46	20	10	51	28	11	5	57	32	11	4	61	38	15	6	54	28	6	1	68	48	23	10
140	57	32	11	3	60	36	14	7	49	24	5	1	70	49	26	14	34	12	1	0	80	63	40	27	34	4	0	0	86	74	54	39
200	42	17	5	2	71	51	27	16	36	10	0	0	81	66	45	32	24	4	0	0	90	81	65	53	21	2	0	0	91	84	70	57
260	30	8	1	0	81	67	46	31	25	6	0	0	88	77	59	47	16	1	0	0	94	88	77	68	13	3	0	0	95	91	83	75
320	25	5	1	0	87	76	58	45	19	2	0	0	92	84	73	63	16	0	0	0	97	94	89	84	6	1	0	0	97	95	90	85
		MAY				JUNE				JULY				AUGUST																		
THRESHOLD	.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH																		
	DAYS	DAYS			DAYS	DAYS			DAYS	DAYS			DAYS	DAYS																		
	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7																
80	46	20	4	1	75	58	37	25	20	4	0	0	87	77	60	46	7	1	0	0	93	86	74	64	26	6	0	0	83	68	46	33
140	21	7	1	0	90	82	69	60	8	0	0	0	96	93	87	81	0	0	0	0	99	98	95	92	13	0	0	0	95	90	80	72
200	10	0	0	0	96	92	85	78	3	0	0	0	98	97	94	92	0	0	0	0	100	99	98	96	3	0	0	0	98	96	91	86
260	2	0	0	0	99	97	95	93	3	0	0	0	99	98	97	96	0	0	0	0	100	99	99	98	0	0	0	0	99	98	95	93
320	0	0	0	0	100	99	98	96	0	0	0	0	99	99	98	97	0	0	0	0	100	99	99	98	0	0	0	0	99	99	97	95
		SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER																		
THRESHOLD	.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH			.GE. THRESH	.LT. THRESH																		
	DAYS	DAYS			DAYS	DAYS			DAYS	DAYS			DAYS	DAYS																		
	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7	2 3 5 7	2	3	5 7																
80	39	15	2	0	72	52	28	15	52	25	7	2	60	38	17	10	67	44	20	10	56	31	12	6	71	52	28	16	49	24	6	1
140	21	4	1	0	90	82	66	54	28	7	0	0	82	66	46	32	46	23	10	5	75	56	33	18	54	30	12	6	67	47	20	8
200	11	0	0	0	96	91	83	75	17	2	0	0	91	82	67	55	30	11	2	0	84	70	49	34	40	17	2	0	76	58	35	22
260	9	0	0	0	98	96	91	86	9	0	0	0	94	88	78	70	24	6	0	0	90	80	64	52	29	9	0	0	85	72	52	38
320	3	0	0	0	99	98	95	92	10	0	0	0	96	92	85	79	19	4	0	0	94	88	77	67	23	6	0	0	90	81	66	54

TABLE A-190. PROBABILITY(2), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - MINOT, NORTH DAKOTA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50	81	67	45	32	23	10	1	0	79	63	40	26	32	11	2	0
140	67	47	23	11	42	20	7	2	66	44	18	7	48	26	8	2
200	55	31	12	5	54	30	12	6	54	29	7	2	58	37	15	5
260	44	21	7	2	63	41	18	9	43	17	3	0	68	49	27	14
320	37	14	5	1	73	54	28	16	35	10	2	0	77	58	35	23
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	77	59	34	21	29	8	0	0	71	50	26	12	35	12	1	0
140	64	38	13	4	51	29	10	4	50	26	8	2	56	32	11	5
200	49	22	4	0	63	43	18	11	36	12	2	0	76	58	34	20
260	42	17	2	0	72	56	33	24	32	10	1	0	84	72	51	36
320	33	12	0	0	78	63	42	30	24	6	0	0	90	81	65	52
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S		D A Y S	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	73	53	28	14	29	10	0	0	78	61	37	23	33	11	1	0
140	54	31	8	3	54	29	7	1	54	30	12	5	51	28	9	5
200	40	15	2	1	65	44	18	8	42	18	4	0	64	42	19	12
260	29	9	1	0	75	57	32	17	31	10	1	0	74	54	31	19
320	20	5	1	0	85	72	50	35	24	6	0	0	81	67	47	33

TABLE A-193. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	71	44	27	18	29	8	3	1	81	61	45	34	20	3	0	0
120	1	0	0	0	99	95	90	84	54	23	8	3	46	15	6	2
180	0	0	0	0	100	100	100	100	5	1	0	0	95	87	80	71
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	95	86	78	72	5	0	0	0	99	97	95	94	1	0	0	0
120	86	68	55	44	14	1	0	0	95	88	82	76	5	0	0	0
180	76	50	33	21	24	4	1	0	85	66	51	40	15	1	0	0
240	60	30	17	9	40	11	2	0	72	45	28	17	28	5	1	0
300	37	12	5	1	63	32	15	6	52	22	11	5	48	16	6	3
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	90	76	65	54	10	0	0	0	85	66	52	41	15	2	0	0
120	74	49	32	19	26	6	1	0	68	40	25	16	32	10	4	2
180	59	26	12	6	41	12	5	3	27	11	5	2	73	61	58	55
240	22	5	1	0	78	62	57	55	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-194. PROBABILITY(X), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	29	4	0	0	71	38	19	10	42	8	2	1	58	21	8	3
100	15	1	0	0	85	62	42	29	25	2	0	0	75	43	25	16
140	8	0	0	0	92	76	62	49	15	0	0	0	86	62	42	31
180	6	0	0	0	94	82	73	64	9	0	0	0	92	77	62	51
220	5	0	0	0	95	86	79	72	6	0	0	0	94	84	73	65
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	57	20	8	4	43	12	4	1	43	14	4	2	57	25	12	5
100	36	7	2	1	64	32	17	10	24	4	1	1	76	51	35	23
140	22	2	0	0	78	52	37	27	13	1	0	0	87	70	57	46
180	15	1	0	0	85	66	53	43	6	0	0	0	94	83	73	63
220	9	1	0	0	91	77	68	61	3	0	0	0	97	91	85	80
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	32	4	1	0	68	36	19	10	38	7	2	1	62	29	16	8
100	15	1	0	0	85	63	48	39	21	1	0	0	79	54	38	27
140	6	0	0	0	94	83	74	66	10	0	0	0	90	74	61	49
180	3	0	0	0	97	92	86	81	5	0	0	0	95	85	77	68
220	1	0	0	0	99	96	92	90	3	0	0	0	97	90	84	77

TABLE A-195. PROBABILITY(X), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	45	14	4	1	55	22	9	4	43	11	3	1	58	27	10	3
100	32	5	0	0	68	37	21	12	26	4	0	0	74	47	29	16
140	23	3	0	0	77	53	37	26	17	2	0	0	83	63	48	36
180	16	1	0	0	84	62	48	36	12	1	0	0	88	73	61	51
220	11	1	0	0	89	73	60	49	8	0	0	0	92	81	71	61
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	26	4	1	0	74	51	39	30	16	1	0	0	84	65	51	41
100	9	0	0	0	91	78	69	62	5	0	0	0	95	87	79	72
140	4	0	0	0	96	91	86	82	1	0	0	0	99	96	93	90
180	3	0	0	0	97	93	90	87	1	0	0	0	99	97	96	94
220	1	0	0	0	99	97	96	94	1	0	0	0	99	98	96	95
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	13	1	0	0	87	71	57	46	23	5	0	0	77	53	37	26
100	4	0	0	0	96	89	83	77	11	1	0	0	89	74	59	48
140	1	0	0	0	99	98	95	93	6	0	0	0	94	84	74	64
180	0	0	0	0	100	99	99	99	3	0	0	0	97	91	85	79
220	0	0	0	0	100	100	100	100	2	0	0	0	98	95	91	87

TABLE A-196. PROBABILITY(X), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	62	27	11	5	38	7	1	0	67	36	20	11	33	7	2	1
100	45	13	3	1	55	20	7	2	50	16	5	2	50	18	5	1
140	35	5	0	0	65	32	17	9	40	9	2	0	60	26	10	3
180	28	3	0	0	72	41	24	12	29	4	1	0	72	40	20	11
220	22	1	0	0	78	50	33	20	22	2	1	0	78	50	30	19
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	68	36	18	9	32	8	2	1	54	23	9	2	46	16	7	2
100	55	21	10	4	45	14	5	2	37	11	3	1	63	34	19	11
140	39	10	3	0	61	33	20	13	26	5	1	1	74	49	33	22
180	27	4	1	0	73	49	35	26	16	2	0	0	84	65	52	41
220	20	2	0	0	80	57	43	32	9	0	0	0	91	76	64	53
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	47	14	3	0	53	22	10	4	56	21	8	3	44	13	4	1
100	29	4	1	0	71	43	27	17	38	8	2	1	62	29	14	6
140	16	1	0	0	84	63	47	36	26	3	0	0	74	45	28	16
180	8	0	0	0	92	78	67	58	18	1	0	0	82	59	44	32
220	5	0	0	0	95	84	76	68	13	0	0	0	87	69	54	41

TABLE A-199. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	78	61	37	24	42	21	6	1	86	75	55	41	35	17	1	0
120	14	6	6	3	98	96	91	85	64	41	14	5	54	30	11	3
180	0	0	0	0	100	100	100	100	25	8	0	0	96	92	83	75
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	96	91	82	76	11	1	0	0	99	98	96	94	5	0	0	0
120	88	79	62	50	23	4	1	0	96	93	86	80	7	1	0	0
180	80	65	43	27	36	13	2	0	87	76	58	45	20	6	1	0
240	68	48	26	15	52	25	4	0	77	60	37	22	39	15	1	0
300	48	28	10	3	71	50	23	9	59	37	18	8	56	31	10	5
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	91	83	71	58	12	1	0	0	87	77	59	46	27	9	2	0
120	80	64	41	24	40	18	3	1	74	56	33	20	43	25	9	3
180	66	43	20	10	50	27	8	5	59	36	13	5	89	84	80	77
240	44	18	3	0	87	80	73	71	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-200. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	35	11	0	0	72	53	26	14	45	18	5	1	60	34	12	4
100	16	4	0	0	85	72	49	33	27	6	1	0	75	55	31	19
140	5	0	0	0	91	82	67	53	12	1	0	0	85	71	47	34
180	5	0	0	0	94	87	77	67	5	0	0	0	91	82	65	54
220	6	0	0	0	95	90	82	75	3	0	0	0	94	88	76	67
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	58	31	11	5	47	24	7	2	54	29	7	3	65	41	19	7
100	38	16	4	1	67	47	25	14	37	13	2	1	82	66	45	29
140	23	7	1	0	80	65	45	33	18	4	0	0	89	79	64	50
180	20	5	1	0	87	76	60	49	4	0	0	0	94	88	77	67
220	10	3	0	0	92	85	73	66	2	0	0	0	97	94	88	82
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	35	10	3	0	69	51	27	14	43	17	3	1	64	44	23	12
100	13	3	0	0	85	73	55	43	22	4	0	0	80	66	46	32
140	1	0	0	0	94	88	77	69	10	0	0	0	90	82	67	53
180	0	0	0	0	97	94	88	83	6	0	0	0	95	89	80	70
220	0	0	0	0	98	97	94	91	3	0	0	0	97	93	87	79

TABLE A-201. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	55	28	7	2	61	38	15	6	54	25	5	2	68	45	16	5
100	45	14	1	0	72	54	30	16	38	12	1	1	79	63	37	20
140	37	9	1	0	81	67	46	32	32	10	1	1	87	75	56	42
180	27	4	0	0	86	74	57	43	27	5	1	1	91	82	68	55
220	18	3	0	0	90	82	68	55	16	1	0	0	93	87	75	65
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	36	12	2	0	81	66	49	37	34	5	0	0	88	77	60	48
100	16	3	0	0	93	86	76	68	12	2	0	0	96	91	83	75
140	6	0	0	0	97	94	88	84	2	0	0	0	99	97	94	91
180	7	0	0	0	98	96	92	89	2	0	0	0	100	100	100	99
220	3	0	0	0	99	98	97	95	2	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	23	3	0	0	89	80	63	51	36	14	1	0	80	66	45	31
100	4	0	0	0	96	92	85	79	21	4	0	0	84	69	47	32
140	0	0	0	0	99	98	96	94	17	3	0	0	88	78	59	45
180	0	0	0	0	100	100	99	99	10	0	0	0	92	84	70	58
220	0	0	0	0	100	100	100	100	8	0	0	0	98	97	93	88

TABLE A-202. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - NORTH OMAHA, NEBRASKA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	64	42	16	7	39	15	1	0	72	51	27	14	42	17	3	1
100	53	27	6	2	59	35	12	3	56	29	9	3	59	34	9	2
140	42	13	1	0	67	47	25	12	49	20	4	1	66	42	14	4
180	34	8	0	0	73	55	32	16	35	12	3	1	76	55	26	13
220	29	5	0	0	80	64	41	25	28	9	2	1	81	63	37	23
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	71	49	24	11	37	18	5	2	63	39	14	4	54	31	12	4
100	56	32	13	6	48	25	9	3	52	25	5	2	72	52	27	15
140	45	22	5	1	68	50	29	19	42	15	3	1	80	65	43	28
180	34	13	2	0	79	64	45	32	29	6	0	0	87	77	60	47
220	27	8	1	0	84	70	52	39	10	1	0	0	91	83	70	57
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	54	26	5	1	59	38	17	7	60	35	13	5	48	26	8	2
100	40	11	2	0	75	58	36	22	43	19	4	2	64	43	20	8
140	24	2	0	0	85	74	54	40	31	10	1	0	77	60	36	20
180	8	1	0	0	92	84	71	61	25	5	1	0	84	71	52	38
220	3	0	0	0	94	89	79	71	16	1	0	0	88	78	60	46

TABLE A-205. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - RAPID CITY, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	68	35	20	12	32	4	1	0	84	63	46	33	16	1	0	0
120	0	0	0	0	100	100	97	92	46	19	8	3	54	22	8	3
180	0	0	0	0	100	100	100	100	0	0	0	0	100	98	94	90
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	96	94	92	1	0	0	0	100	100	100	100	0	0	0	0
120	88	73	62	52	12	1	0	0	95	86	78	70	5	0	0	0
180	76	55	39	26	24	7	2	1	84	66	52	43	16	1	0	0
240	62	34	19	11	38	12	4	1	73	46	30	21	27	5	1	1
300	37	12	4	1	63	32	16	8	55	24	12	6	45	15	6	2
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	97	92	88	83	3	0	0	0	91	77	64	54	9	0	0	0
120	87	71	57	46	13	2	0	0	73	44	27	18	27	5	1	0
180	71	43	23	11	29	8	2	0	12	3	0	0	88	82	81	81
240	23	8	2	0	77	65	61	60	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-206. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - RAPID CITY, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	31	4	0	0	69	32	16	7	40	9	2	1	60	24	11	4
140	21	1	0	0	80	51	33	21	27	3	1	0	73	40	24	14
200	15	1	0	0	85	63	46	35	19	2	0	0	81	56	38	26
260	11	0	0	0	90	72	59	48	14	1	0	0	86	65	49	36
320	7	0	0	0	93	80	69	59	10	1	0	0	90	74	62	52
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	60	23	9	3	41	10	2	1	45	12	4	1	56	21	8	3
140	36	5	0	0	64	28	14	8	26	4	1	0	75	45	27	17
200	25	1	0	0	75	42	25	14	14	1	0	0	87	63	46	35
260	19	1	0	0	82	55	38	26	8	1	0	0	93	78	65	56
320	13	1	0	0	88	68	54	42	5	0	0	0	96	84	74	66
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	36	5	1	0	64	24	9	3	40	9	2	0	60	23	8	3
140	22	1	0	0	78	45	26	15	25	2	1	0	75	43	25	15
200	12	0	0	0	88	68	52	40	17	1	0	0	83	57	40	29
260	7	0	0	0	93	78	65	56	12	0	0	0	98	88	76	66
320	5	0	0	0	95	84	74	67	8	0	0	0	92	79	69	60

TABLE A-207. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - RAPID CITY, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	37	8	3	1	63	32	18	10	31	6	1	0	69	39	23	13
140	27	4	1	0	73	44	28	19	20	2	0	0	80	57	42	31
200	21	3	0	0	79	54	39	27	13	2	0	0	87	69	55	44
260	17	2	0	0	83	62	48	36	10	1	0	0	90	76	63	52
320	12	1	0	0	89	74	62	51	6	1	0	0	94	84	76	69
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	20	3	0	0	81	58	42	32	9	0	0	0	91	75	62	51
140	8	0	0	0	92	78	66	57	3	0	0	0	98	89	81	75
200	5	0	0	0	96	88	81	74	1	0	0	0	100	95	90	87
260	2	0	0	0	99	93	88	84	0	0	0	0	100	96	94	92
320	1	0	0	0	100	96	92	89	0	0	0	0	100	97	96	96
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	25	2	0	0	76	48	30	17	30	5	0	0	70	37	20	13
140	11	1	0	0	89	72	58	46	18	1	0	0	82	58	40	31
200	6	0	0	0	94	83	74	65	11	1	0	0	89	72	59	49
260	4	0	0	0	96	89	81	73	8	0	0	0	92	80	69	60
320	2	0	0	0	98	92	87	82	5	0	0	0	95	86	79	71

TABLE A-208. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - RAPID CITY, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	53	19	7	3	47	14	4	1	59	24	10	5	41	10	2	0
140	40	9	2	0	61	25	11	6	44	11	3	1	56	21	9	4
200	33	6	2	0	68	34	18	11	34	5	1	0	66	32	17	9
260	29	4	1	0	72	41	23	15	26	3	1	0	74	44	28	17
320	23	3	0	0	77	48	32	21	20	2	0	0	80	54	38	26
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	73	41	22	12	28	4	1	0	60	25	10	4	41	10	2	0
140	50	15	3	0	50	16	6	3	35	7	1	0	66	32	15	7
200	36	7	1	0	64	29	15	9	22	3	1	0	79	51	31	21
260	27	2	0	0	74	41	24	14	13	1	0	0	88	66	49	38
320	20	1	0	0	81	54	37	26	7	0	0	0	94	79	67	58
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	57	19	5	2	44	9	1	0	56	22	10	3	44	10	1	0
140	36	4	0	0	64	25	9	3	42	10	2	0	58	21	7	3
200	26	2	0	0	74	41	21	11	30	4	1	0	70	35	17	9
260	18	1	0	0	82	56	38	26	22	2	0	0	78	47	29	19
320	13	1	0	0	87	66	50	37	18	1	0	0	82	56	39	28

TABLE A-211. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - RAPID CITY, SOUTH DAKOTA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	69	50	27	15	33	12	1	0	86	74	54	38	24	6	0	0
120	0	0	0	0	100	100	97	92	59	38	16	6	62	39	13	5
180	0	0	0	0	100	100	100	100	4	0	0	0	99	98	95	90
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	97	96	94	2	0	0	0	100	100	100	100	0	0	0	0
120	91	82	69	56	27	7	1	0	95	90	82	74	6	0	0	0
180	84	71	51	34	47	24	4	1	87	77	60	49	22	5	0	0
240	71	52	29	15	55	31	9	2	78	61	38	26	34	14	3	1
300	50	29	9	3	70	49	23	11	63	41	19	10	53	31	10	3
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	97	95	90	85	10	1	0	0	92	84	70	58	14	3	0	0
120	89	80	64	51	25	8	0	0	76	58	35	22	37	15	2	0
180	78	59	31	15	43	22	5	1	39	18	2	0	95	93	92	92
240	53	28	7	1	90	84	79	78	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-212. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - RAPID CITY, SOUTH DAKOTA

	J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	30	12	1	0	68	46	22	10	42	21	5	2	60	37	16	6
140	21	6	0	0	80	63	40	25	29	10	2	0	72	52	30	17
200	16	3	0	0	85	73	53	40	21	6	1	0	81	66	45	29
260	13	2	0	0	90	80	64	53	14	5	1	0	86	74	56	41
320	6	0	0	0	92	86	73	63	12	4	0	0	90	82	68	56
	M A Y				J U N E				J U L Y				A U G U S T			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	61	37	13	4	45	20	4	1	46	22	6	2	57	34	12	5
140	35	11	0	0	64	42	20	11	31	11	2	0	76	58	32	20
200	23	4	0	0	74	55	32	18	15	3	0	0	85	72	52	39
260	20	3	0	0	81	67	45	31	7	3	0	0	91	83	69	60
320	14	2	0	0	88	77	60	47	6	0	0	0	94	88	77	69
	S E P T E M B E R				O C T O B E R				N O V E M B E R				D E C E M B E R			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S	D A Y S
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	33	11	1	0	61	36	13	4	42	19	4	1	61	36	13	4
140	17	3	0	0	76	57	33	16	25	7	2	0	75	56	31	19
200	7	1	0	0	88	76	58	44	17	3	0	0	82	67	46	33
260	2	1	0	0	91	83	70	59	10	1	0	0	88	77	60	47
320	3	1	0	0	93	88	78	70	7	0	0	0	92	85	73	64

TABLE A-213. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - RAPID CITY, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	45	19	5	1	68	47	25	14	42	15	3	1	73	55	32	18
140	37	13	3	1	76	57	36	23	37	7	1	0	83	69	50	37
200	33	9	1	0	82	67	47	32	28	7	2	0	89	79	62	49
260	28	8	0	0	85	73	55	42	20	5	0	0	92	83	68	57
320	23	5	0	0	91	82	68	56	15	6	0	0	95	89	80	72
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	29	9	1	0	64	70	51	36	16	4	0	0	91	83	67	56
140	10	1	0	0	92	84	72	61	3	0	0	0	96	92	83	76
200	10	1	0	0	95	91	84	77	0	0	0	0	98	95	91	87
260	3	0	0	0	97	95	90	85	0	0	0	0	98	96	93	91
320	4	0	0	0	98	96	93	89	0	0	0	0	99	97	94	93
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	34	7	1	0	78	61	37	21	38	14	1	0	72	51	27	17
140	19	2	0	0	89	80	64	50	22	4	0	0	83	69	47	36
200	15	3	0	0	94	89	79	68	18	3	0	0	90	80	64	53
260	6	1	0	0	96	92	84	76	13	1	0	0	93	86	73	63
320	5	0	0	0	97	95	89	83	9	0	0	0	95	90	82	74

TABLE A-214. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - RAPID CITY, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	57	33	11	4	51	26	7	2	62	40	15	7	44	22	5	1
140	45	21	5	1	63	39	17	8	46	21	6	2	56	34	13	5
200	38	16	4	1	70	49	25	14	39	13	2	0	65	45	23	11
260	35	12	2	0	74	55	30	19	29	10	2	0	73	56	35	21
320	28	9	1	0	78	61	40	26	25	7	1	0	80	65	45	31
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	75	55	29	16	36	13	2	0	62	40	15	6	46	21	5	1
140	54	28	6	0	53	29	10	5	40	16	3	1	69	46	20	9
200	37	16	2	0	65	42	21	12	26	10	2	0	79	63	38	25
260	27	7	0	0	73	54	31	18	13	3	0	0	87	75	55	42
320	19	5	0	0	81	66	46	31	6	2	0	0	92	84	71	61
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	57	32	9	3	42	18	2	0	60	37	15	5	48	22	3	0
140	34	9	1	0	62	38	14	4	45	22	5	0	59	34	10	4
200	27	7	0	0	74	54	27	14	30	10	1	0	70	48	23	12
260	18	3	0	0	82	68	45	31	24	7	1	0	77	59	35	22
320	14	2	0	0	87	75	56	41	19	4	0	0	82	67	45	32

TABLE A-217. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SIOUX FALLS, SOUTH DAKOTA

	JANUARY		FEBRUARY		MARCH		APRIL	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	63 30 14 7	37 8 2 1	76 52 35 25	24 3 0 0	88 72 60 51	12 1 0 0	96 88 82 78	4 0 0 0
120	0 0 0 0	100 98 94 89	45 15 4 1	55 22 11 6	64 31 16 8	36 7 1 0	76 50 35 25	24 3 0 0
180	0 0 0 0	100 100 100 100	0 0 0 0	100 98 94 89	42 11 3 1	58 24 8 3	60 30 15 8	40 11 3 1
240	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	4 1 0 0	96 88 81 74	46 15 5 1	54 21 9 3
300	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	5 1 0 0	95 86 78 70
	MAY		JUNE		JULY		AUGUST	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	98 96 94 91	2 0 0 0	100 99 99 99	0 0 0 0	100 100 99 99	0 0 0 0	100 98 97 96	0 0 0 0
120	89 74 61 51	11 0 0 0	95 88 81 76	5 0 0 0	97 92 87 82	3 0 0 0	92 79 68 58	8 0 0 0
180	73 49 35 25	27 5 0 0	84 66 51 42	16 3 0 0	90 76 64 55	10 1 0 0	82 58 40 29	18 2 0 0
240	63 34 19 12	37 11 3 1	71 45 30 19	29 7 1 0	80 55 36 24	20 2 0 0	65 33 17 9	35 9 2 0
300	43 14 5 2	57 26 14 7	52 21 9 3	48 17 6 3	55 21 6 2	45 13 4 1	11 1 0 0	89 79 76 74
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
60	95 87 80 73	5 0 0 0	88 73 61 53	12 2 1 0	68 39 22 12	32 9 3 1	51 16 4 1	49 15 5 2
120	79 55 39 28	21 3 1 0	66 39 23 15	34 12 5 3	8 2 0 0	92 87 86 86	0 0 0 0	100 100 100 100
180	63 35 19 9	37 12 5 2	16 5 2 0	84 77 74 74	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100
240	17 4 1 0	83 72 69 68	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100
300	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100	0 0 0 0	100 100 100 100

TABLE A-218. PROBABILITY(X), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SIOUX FALLS, SOUTH DAKOTA

	JANUARY		FEBRUARY		MARCH		APRIL	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
80	28 4 0 0	72 41 24 14	33 5 1 0	67 32 17 9	52 17 6 3	49 15 6 3	64 32 17 8	36 8 3 1
140	15 1 0 0	85 64 49 37	17 1 0 0	83 58 40 27	32 6 1 0	68 37 23 15	45 12 3 1	55 22 10 5
200	8 0 0 0	92 79 68 59	9 0 0 0	91 76 63 52	19 1 0 0	82 59 42 31	28 5 1 0	72 43 29 19
260	5 0 0 0	95 87 79 71	4 0 0 0	96 87 79 71	12 1 0 0	88 70 56 43	20 2 0 0	80 56 41 31
320	3 0 0 0	97 91 86 81	2 0 0 0	98 93 88 83	8 0 0 0	92 80 69 60	12 1 0 0	88 70 58 48
	MAY		JUNE		JULY		AUGUST	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
80	59 23 8 3	41 9 2 1	47 15 5 2	53 22 11 6	32 6 1 0	68 40 26 18	32 7 2 0	68 36 20 13
140	36 6 1 0	64 33 19 12	22 3 0 0	78 54 37 27	12 1 0 0	88 73 64 56	11 1 1 0	89 73 58 49
200	23 3 0 0	77 52 36 26	11 1 0 0	89 75 66 59	4 0 0 0	96 91 86 81	3 0 0 0	97 91 85 80
260	14 0 0 0	86 67 54 46	5 1 0 0	95 88 81 75	1 0 0 0	99 96 93 91	1 0 0 0	99 96 94 92
320	8 0 0 0	92 79 70 63	3 0 0 0	97 92 87 83	0 0 0 0	100 99 98 97	1 0 0 0	99 98 96 95
	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
THRESHOLD	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.	.GE. THRESH.	.LT. THRESH.
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
80	36 7 2 1	64 33 17 9	37 9 1 0	63 31 16 9	35 4 0 0	65 30 15 7	26 2 0 0	74 44 27 18
140	15 1 0 0	85 66 54 44	15 1 0 0	85 64 49 38	17 1 0 0	83 61 44 32	14 1 0 0	86 65 51 41
200	6 0 0 0	94 85 78 72	8 0 0 0	92 78 67 56	10 0 0 0	90 76 63 52	7 0 0 0	93 81 72 64
260	2 0 0 0	98 93 89 85	5 0 0 0	95 87 79 71	6 0 0 0	94 84 75 68	3 0 0 0	97 92 87 82
320	1 0 0 0	99 96 94 93	3 0 0 0	97 91 85 79	3 0 0 0	97 92 87 82	2 0 0 0	98 94 91 87

TABLE A-219. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	38	13	4	1	62	34	19	11	35	8	2	2	65	34	20	12
140	19	3	1	0	81	59	43	32	20	2	0	0	85	66	50	39
200	11	1	0	0	89	74	63	52	11	0	0	0	91	79	68	59
260	6	0	0	0	94	83	75	68	5	0	0	0	95	87	80	73
320	5	0	0	0	95	88	83	78	3	0	0	0	97	92	89	85
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	18	2	0	0	82	63	50	41	11	1	0	0	89	76	65	55
140	5	0	0	0	95	87	81	75	2	0	0	0	98	96	92	89
200	1	0	0	0	99	96	95	93	0	0	0	0	100	99	99	98
260	0	0	0	0	100	99	99	99	0	0	0	0	100	100	100	100
320	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	11	1	0	0	89	74	61	51	25	4	0	0	75	49	32	22
140	2	0	0	0	98	94	89	85	9	0	0	0	91	77	66	56
200	0	0	0	0	100	99	98	96	4	0	0	0	96	88	82	75
260	0	0	0	0	100	100	100	100	2	0	0	0	98	94	91	87
320	0	0	0	0	100	100	100	100	1	0	0	0	99	96	93	89

TABLE A-220. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	59	29	15	9	41	13	5	3	61	29	14	7	39	10	4	1
140	39	12	4	1	61	31	17	10	41	11	3	1	59	27	14	9
200	26	4	0	0	74	47	31	22	28	4	1	0	72	42	26	16
260	19	2	0	0	81	58	42	32	19	1	0	0	81	57	40	29
320	13	1	0	0	87	69	56	46	13	0	0	0	87	68	52	40
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	68	35	17	9	32	6	1	0	59	26	12	6	41	12	5	3
140	50	16	5	2	50	20	10	5	33	8	1	0	67	38	22	14
200	34	6	1	0	66	37	22	13	19	3	0	0	81	61	46	37
260	23	3	0	0	77	54	40	31	12	1	0	0	88	74	63	55
320	17	1	0	0	83	64	51	43	6	1	0	0	94	86	79	72
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	52	20	9	5	48	17	5	2	58	27	13	7	42	12	4	1
140	30	5	1	0	70	42	26	16	36	8	1	1	64	32	17	10
200	16	1	0	0	84	65	51	41	22	3	0	0	78	52	36	25
260	7	1	0	0	93	83	74	66	13	1	0	0	87	67	54	43
320	4	0	0	0	96	89	84	79	9	0	0	0	91	77	66	56

TABLE A-221. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SIOUX FALLS, SOUTH DAKOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	13	0	0	0	22	3	1	0	20	1	0	0	39	8	2	0
50/200	4	0	0	0	28	5	1	0	16	1	0	0	5	0	0	0
50/300	1	0	0	0	29	6	1	0	8	0	0	0	14	1	0	0
150/100	0	0	0	0	77	50	33	21	3	0	0	0	22	4	0	0
150/200	0	0	0	0	92	79	68	54	1	0	0	0	34	7	1	0
150/300	0	0	0	0	96	90	84	76	0	0	0	0	38	9	2	1
250/100	0	0	0	0	77	50	33	21	0	0	0	0	21	2	1	0
250/200	0	0	0	0	92	79	68	54	0	0	0	0	10	0	0	0
250/300	0	0	0	0	96	90	84	76	0	0	0	0	6	0	0	0
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	50	14	4	1	0	0	0	0	36	8	2	0	0	0	0	0
50/200	23	3	0	0	0	0	0	0	11	1	0	0	0	0	0	0
50/300	10	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
150/100	38	7	2	1	8	1	0	0	33	7	1	0	7	0	0	0
150/200	17	2	0	0	14	1	0	0	10	1	0	0	9	1	0	0
150/300	7	0	0	0	17	2	0	0	3	0	0	0	9	1	0	0
250/100	27	3	1	0	19	2	0	0	25	4	0	0	20	4	0	0
250/200	12	1	0	0	23	5	0	0	7	0	0	0	27	7	1	0
250/300	5	0	0	0	35	9	2	0	2	0	0	0	29	7	1	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	28	5	1	0	2	0	0	0	26	3	0	0	4	0	0	0
50/200	5	0	0	0	2	0	0	0	8	0	0	0	6	1	0	0
50/300	2	0	0	0	2	0	0	0	3	0	0	0	7	1	0	0
150/100	21	2	0	0	21	4	1	0	12	1	0	0	38	15	9	5
150/200	4	0	0	0	26	5	2	1	4	0	0	0	50	28	21	17
150/300	1	0	0	0	27	6	2	1	2	0	0	0	53	30	24	21
250/100	2	0	0	0	66	38	23	14	0	0	0	0	71	42	26	16
250/200	0	0	0	0	66	74	66	60	0	0	0	0	92	78	67	56
250/300	0	0	0	0	90	83	79	72	0	0	0	0	96	89	82	76

TABLE A-222. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SIOUX FALLS, SOUTH DAKOTA

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	33	8	2	1	14	1	1	0	41	11	3	2	6	0	0	0
50/200	15	1	0	0	20	2	1	0	21	2	0	0	11	0	0	0
50/300	7	0	0	0	24	3	1	0	11	0	0	0	14	0	0	0
150/100	0	0	0	0	49	19	9	5	7	0	0	0	35	8	3	1
150/200	0	0	0	0	74	47	31	22	4	0	0	0	57	27	14	7
150/300	0	0	0	0	65	66	52	41	2	0	0	0	69	40	26	17
250/100	0	0	0	0	49	19	9	5	0	0	0	0	47	16	7	4
250/200	0	0	0	0	74	47	31	22	0	0	0	0	72	42	26	16
250/300	0	0	0	0	85	66	52	41	0	0	0	0	85	64	47	35
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	62	27	11	6	0	0	0	0	48	15	5	1	0	0	0	0
50/200	34	6	1	0	0	0	0	0	19	3	0	0	0	0	0	0
50/300	18	1	0	0	0	0	0	0	8	1	0	0	0	0	0	0
150/100	47	13	3	1	5	0	0	0	43	13	3	1	6	0	0	0
150/200	24	3	1	0	10	1	0	0	17	2	0	0	8	1	0	0
150/300	12	0	0	0	14	2	0	0	7	1	0	0	9	1	0	0
250/100	33	7	1	0	12	1	0	0	33	7	1	0	17	3	0	0
250/200	19	1	0	0	24	4	0	0	13	1	0	0	25	6	1	0
250/300	9	0	0	0	31	7	1	0	5	0	0	0	28	7	1	0
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7	DAYS	1 3 5 7
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	42	12	4	2	1	0	0	0	46	15	4	1	2	0	0	0
50/200	16	1	0	0	2	0	0	0	20	2	0	0	4	0	0	0
50/300	5	0	0	0	2	0	0	0	9	0	0	0	5	0	0	0
150/100	30	5	1	1	16	2	0	0	20	3	0	0	25	7	3	2
150/200	11	1	0	0	23	4	1	0	9	0	0	0	42	18	11	6
150/300	4	0	0	0	26	6	2	1	4	0	0	0	49	26	19	15
250/100	3	0	0	0	53	24	12	6	0	0	0	0	46	12	3	0
250/200	1	0	0	0	77	56	43	33	0	0	0	0	78	52	36	25
250/300	0	0	0	0	87	75	68	62	0	0	0	0	90	74	62	52

TABLE A-223. PROBABILITY(%), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	68	46	22	12	45	20	5	1	61	66	43	30	31	10	0	0
120	0	0	0	0	100	98	94	89	55	32	7	2	59	37	17	8
180	0	0	0	0	100	100	100	100	0	0	0	0	99	98	94	89
240	0	0	0	0	100	100	100	100	23	10	0	0	96	92	85	77
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	97	95	92	2	0	0	0	100	99	99	99	0	0	0	0
120	91	83	68	56	18	2	0	0	96	92	65	79	5	0	0	0
180	80	65	45	32	43	19	1	0	88	78	60	48	27	12	0	0
240	71	52	28	16	52	27	6	2	78	61	39	24	39	19	3	1
300	53	30	10	3	65	43	20	9	61	37	15	6	56	33	11	5
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	95	91	83	75	6	0	0	0	90	82	68	57	25	11	2	0
120	81	67	47	33	26	8	2	0	72	54	31	19	50	31	15	9
180	72	52	28	13	52	28	10	4	49	24	7	1	93	91	89	86
240	39	18	4	0	91	86	83	82	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-224. PROBABILITY(%), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	30	12	1	0	72	54	31	10	37	12	2	1	68	45	22	12
140	17	3	0	0	85	74	55	42	21	4	0	0	83	69	46	31
200	8	1	0	0	92	85	73	62	11	0	0	0	91	83	68	55
260	5	1	0	0	95	91	82	74	4	1	0	0	95	91	82	74
320	3	0	0	0	97	94	89	83	2	0	0	0	98	95	90	84
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	60	37	12	5	42	19	5	1	47	26	8	2	54	34	16	9
140	44	15	2	0	67	48	27	16	27	9	1	0	81	66	44	31
200	31	9	1	0	80	66	45	31	11	2	0	0	90	83	71	63
260	15	1	0	0	87	77	61	51	11	3	0	0	96	93	85	78
320	6	1	0	0	92	86	75	67	7	2	0	0	97	95	90	85
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	40	17	3	1	69	49	24	12	46	21	2	0	67	46	23	13
140	17	5	1	0	87	76	61	49	20	4	0	0	86	74	57	44
200	7	0	0	0	94	89	82	75	9	0	0	0	92	85	72	60
260	1	0	0	0	97	95	91	87	4	0	0	0	95	91	83	74
320	1	0	0	0	99	97	95	93	2	0	0	0	97	93	87	81

TABLE A-225. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	53	27	8	2	71	52	28	16	45	19	4	3	69	49	26	15
140	31	9	1	0	84	71	51	36	32	8	0	0	88	77	58	45
200	17	3	0	0	90	82	69	57	22	1	0	0	93	86	74	64
260	11	1	0	0	94	89	80	71	14	0	0	0	96	92	84	77
320	10	1	0	0	96	92	86	81	7	0	0	0	97	94	88	82
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	29	9	1	0	87	76	58	47	18	4	0	0	96	92	87	83
140	4	1	0	0	96	92	84	78	1	0	0	0	99	98	97	95
200	3	0	0	0	99	98	96	95	0	0	0	0	100	99	99	99
260	0	0	0	0	100	100	99	99	0	0	0	0	100	100	100	100
320	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	19	3	0	0	90	82	67	55	36	11	1	0	79	63	40	26
140	1	0	0	0	98	95	91	86	16	2	0	0	92	84	71	60
200	0	0	0	0	100	99	98	97	8	2	0	0	96	92	85	78
260	0	0	0	0	100	100	100	100	5	0	0	0	98	96	93	88
320	0	0	0	0	100	100	100	100	1	0	0	0	99	97	94	90

TABLE A-226. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	67	45	20	10	47	26	9	4	65	44	20	10	45	21	6	2
140	49	25	7	2	66	46	24	14	50	22	5	2	64	41	19	11
200	35	11	1	0	76	60	39	27	36	13	1	0	74	55	32	19
260	23	7	0	0	83	69	49	36	29	6	1	0	83	68	47	33
320	13	4	0	0	87	77	62	50	18	2	0	0	88	76	58	44
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	70	49	22	12	37	15	2	0	62	40	18	9	44	23	9	4
140	56	29	8	2	56	35	16	6	42	19	3	0	72	53	29	18
200	40	16	3	0	70	52	30	17	25	9	1	0	85	73	53	42
260	33	6	1	0	81	68	49	37	17	5	0	0	90	82	69	59
320	25	4	0	0	86	76	60	50	13	3	0	0	95	91	84	76
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	59	35	16	9	56	33	10	3	64	43	19	10	48	23	7	2
140	36	14	1	0	75	58	35	20	44	17	3	1	67	47	24	13
200	22	3	0	0	85	75	59	45	28	10	0	0	80	65	43	30
260	10	3	0	0	94	88	79	69	20	4	0	0	88	76	60	47
320	5	0	0	0	96	93	87	81	17	3	0	0	92	84	72	60

TABLE A-227. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	10	2	0	0	26	10	2	1	24	5	0	0	38	15	3	1
50/200	1	0	0	0	35	13	2	0	8	1	0	0	19	3	0	0
50/300	0	0	0	0	38	15	3	1	2	0	0	0	5	0	0	0
150/100	0	0	0	0	78	62	40	25	4	0	0	0	64	42	19	8
150/200	0	0	0	0	92	85	73	62	0	0	0	0	78	64	45	32
150/300	0	0	0	0	97	93	87	80	0	0	0	0	83	73	59	48
250/100	0	0	0	0	78	62	40	25	0	0	0	0	75	54	30	17
250/200	0	0	0	0	92	85	73	62	0	0	0	0	91	83	68	55
250/300	0	0	0	0	97	93	87	80	0	0	0	0	97	94	88	81
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	52	25	6	2	0	0	0	0	39	17	3	0	0	0	0	0
50/200	31	9	1	0	0	0	0	0	11	2	0	0	0	0	0	0
50/300	12	1	0	0	0	0	0	0	8	2	0	0	0	0	0	0
150/100	39	14	3	1	12	5	1	0	38	16	2	0	14	3	0	0
150/200	20	6	1	0	20	6	1	0	9	2	0	0	22	5	0	0
150/300	5	1	0	0	24	7	0	0	8	2	0	0	22	5	0	0
250/100	30	9	2	1	24	8	1	0	32	12	1	0	29	11	1	0
250/200	15	3	0	0	41	15	1	0	7	1	0	0	36	17	3	1
250/300	5	1	0	0	48	22	3	0	8	1	0	0	36	17	3	1
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	31	13	1	0	4	0	0	0	33	11	1	0	18	4	0	0
50/200	7	0	0	0	4	0	0	0	10	0	0	0	32	10	3	2
50/300	1	0	0	0	4	0	0	0	2	0	0	0	35	14	3	1
150/100	23	9	0	0	30	13	3	0	17	3	0	0	0	0	0	0
150/200	5	0	0	0	37	16	5	2	4	0	0	0	69	53	40	33
150/300	0	0	0	0	37	16	5	2	2	0	0	0	70	57	46	40
250/100	2	0	0	0	74	55	33	19	0	0	0	0	76	58	33	19
250/200	0	0	0	0	91	85	76	69	0	0	0	0	91	83	68	56
250/300	0	0	0	0	95	91	87	84	0	0	0	0	96	92	85	78

TABLE A-228. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SIOUX FALLS, SOUTH DAKOTA

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	42	19	4	1	16	6	1	1	46	24	6	3	5	1	0	0
50/200	15	3	0	0	25	8	2	1	27	9	1	0	10	1	0	0
50/300	4	1	0	0	28	10	2	0	12	1	0	0	14	2	0	0
150/100	0	0	0	0	55	33	13	7	13	3	0	0	42	18	5	3
150/200	0	0	0	0	76	60	39	27	7	0	0	0	65	44	22	11
150/300	0	0	0	0	86	75	58	45	5	0	0	0	75	58	37	24
250/100	0	0	0	0	55	33	13	7	0	0	0	0	52	27	10	5
250/200	0	0	0	0	76	60	39	27	0	0	0	0	74	55	32	19
250/300	0	0	0	0	86	75	58	45	0	0	0	0	86	73	54	39
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	64	41	15	7	0	0	0	0	53	27	8	2	0	0	0	0
50/200	40	16	3	0	0	0	0	0	25	9	1	0	0	0	0	0
50/300	28	5	0	0	0	0	0	0	12	3	0	0	0	0	0	0
150/100	49	24	5	1	6	3	0	0	51	25	6	2	9	3	0	0
150/200	25	7	2	0	17	4	1	0	22	8	1	0	23	5	0	0
150/300	17	2	0	0	20	6	1	0	10	3	0	0	22	5	0	0
250/100	39	16	3	1	15	6	1	0	37	16	3	1	26	9	0	0
250/200	22	5	0	0	33	11	1	0	18	5	0	0	36	17	3	0
250/300	11	1	0	0	44	18	2	0	7	1	0	0	36	17	3	1
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
50/100	49	24	8	5	2	0	0	0	53	29	7	2	2	0	0	0
50/200	22	3	0	0	4	0	0	0	24	7	0	0	4	1	0	0
50/300	5	0	0	0	4	0	0	0	16	2	0	0	11	2	0	0
150/100	36	12	2	1	26	9	1	0	29	8	1	0	42	21	9	6
150/200	12	3	0	0	30	13	4	1	13	3	0	0	60	41	23	13
150/300	4	0	0	0	38	16	5	2	8	0	0	0	68	53	39	30
250/100	2	0	0	0	64	43	20	10	0	0	0	0	54	32	13	6
250/200	2	0	0	0	83	71	54	41	0	0	0	0	80	65	43	30
250/300	0	0	0	0	92	85	77	70	0	0	0	0	91	82	68	57

TABLE A-229. PROBABILITY(%), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, ILLINOIS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	61	26	12	5	39	10	3	1	75	49	34	23	25	4	0	0
120	10	1	0	0	90	78	68	60	53	22	10	4	47	14	4	1
180	0	0	0	0	100	100	100	100	9	1	0	0	91	77	67	59
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	96	93	90	1	0	0	0	100	99	99	99	0	0	0	0
120	87	69	55	43	13	1	0	0	95	89	84	78	5	0	0	0
180	74	47	31	21	26	5	1	0	86	71	58	47	14	2	0	0
240	59	30	16	8	41	13	5	1	72	46	28	17	28	7	2	1
300	38	12	3	1	62	31	15	7	51	22	10	3	49	21	10	5
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	96	91	84	77	4	0	0	0	88	69	54	43	12	2	0	0
120	82	59	44	32	18	2	0	0	68	40	22	14	32	10	4	1
180	65	35	20	11	35	9	2	1	27	10	3	1	73	61	57	55
240	21	6	2	0	79	66	61	59	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-230. PROBABILITY(%), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, ILLINOIS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	41	10	2	1	59	25	14	8	50	15	5	2	50	15	7	4
140	21	2	0	0	79	54	41	31	28	3	0	0	72	38	21	12
200	10	0	0	0	90	73	62	52	14	1	0	0	86	66	49	36
260	5	0	0	0	95	83	74	66	7	0	0	0	93	81	70	60
320	3	0	0	0	97	89	82	76	4	0	0	0	96	88	80	72
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	45	13	4	2	56	24	12	8	33	6	1	0	67	34	19	12
140	23	4	1	0	77	53	38	29	13	0	0	0	87	67	53	41
200	14	1	0	0	86	70	58	50	5	0	0	0	95	86	78	70
260	7	0	0	0	93	82	74	67	2	0	0	0	98	94	89	85
320	4	0	0	0	96	88	83	78	1	0	0	0	99	97	94	92
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	19	1	0	0	82	53	35	23	32	5	1	0	68	36	20	12
140	5	0	0	0	95	84	75	66	13	0	0	0	87	68	54	44
200	2	0	0	0	99	94	89	84	6	0	0	0	94	84	74	66
260	1	0	0	0	100	97	94	91	2	0	0	0	98	91	85	80
320	0	0	0	0	100	99	98	97	1	0	0	0	99	96	93	89

TABLE A-231. PROBABILITY(X), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, ILLINOIS

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	53	21	7	2	47	18	8	4	49	16	6	2	51	18	6	3
140	31	6	1	0	69	41	26	16	26	4	1	0	74	47	29	20
200	17	1	0	0	83	60	45	34	12	1	0	0	88	71	59	49
260	9	0	0	0	91	76	65	55	8	0	0	0	92	80	70	62
320	5	0	0	0	95	84	76	68	5	0	0	0	96	88	82	77
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0	0	98	93	89	85
	56	23	9	4	44	17	7	3	41	11	1	0	59	27	12	5
	32	7	2	1	68	40	22	12	19	2	0	0	81	60	46	37
	19	0	0	0	81	57	39	27	10	0	0	0	90	77	69	62
	11	0	0	0	89	71	56	45	5	0	0	0	95	87	81	76
	7	0	0	0	93	82	72	63	2	0	0	0	98	93	89	85
	41	11	1	0	59	27	12	5	32	7	2	1	68	40	22	12
	19	2	0	0	81	60	46	37	10	0	0	0	90	77	69	62
	5	0	0	0	95	87	81	76	2	0	0					

TABLE A-233. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, ILLINOIS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	22	1	0	0	23	4	1	0	35	5	1	0	45	13	4	1
50/200	6	0	0	0	31	7	2	0	12	1	0	0	20	2	0	0
50/300	3	0	0	0	32	8	2	0	4	0	0	0	9	0	0	0
150/100	0	0	0	0	67	36	23	15	14	1	0	0	23	2	0	0
150/200	0	0	0	0	90	73	62	52	4	0	0	0	39	10	3	0
150/300	0	0	0	0	96	86	77	70	2	0	0	0	43	12	3	0
250/100	0	0	0	0	67	36	23	15	0	0	0	0	51	16	5	1
250/200	0	0	0	0	90	73	62	52	0	0	0	0	77	48	32	21
250/300	0	0	0	0	96	86	77	70	0	0	0	0	88	67	50	37
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	36	8	2	0	25	3	0	0	10	0	0	0	5	0	0	0
50/200	14	1	0	0	5	0	0	0	1	0	0	0	0	0	0	0
50/300	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
150/100	29	6	1	0	22	3	0	0	9	0	0	0	4	0	0	0
150/200	12	1	0	0	5	0	0	0	1	0	0	0	0	0	0	0
150/300	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
250/100	20	2	0	0	16	1	0	0	7	0	0	0	3	0	0	0
250/200	7	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0
250/300	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	13	1	0	0	21	1	0	0	24	2	0	0	19	1	0	0
50/200	2	0	0	0	5	0	0	0	9	0	0	0	5	0	0	0
50/300	0	0	0	0	1	0	0	0	4	0	0	0	1	0	0	0
150/100	9	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0
150/200	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
150/300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/100	1	0	0	0	7	5	3	2	0	0	0	0	0	0	0	0
250/200	0	0	0	0	8	7	5	6	0	0	0	0	0	0	0	0
250/300	0	0	0	0	6	9	8	7	0	0	0	0	0	0	0	0

TABLE A-234. PROBABILITY(%), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, ILLINOIS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	44	13	5	1	57	25	11	6	68	37	21	12	70	37	19	10
50/200	26	3	0	0	35	6	1	0	45	14	4	2	43	13	2	0
50/300	13	0	0	0	18	1	0	0	28	5	1	0	25	3	0	0
150/100	0	0	0	0	22	4	1	0	35	6	1	0	45	12	3	1
150/200	0	0	0	0	15	1	0	0	23	2	0	0	23	4	1	0
150/300	0	0	0	0	8	0	0	0	14	0	0	0	15	1	0	0
250/100	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
250/200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	53	20	9	5	34	7	1	0	16	1	0	0	13	1	0	0
50/200	25	5	1	0	11	0	0	0	3	0	0	0	1	0	0	0
50/300	13	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0
150/100	42	12	4	2	29	5	1	0	14	0	0	0	12	1	0	0
150/200	21	3	0	0	9	0	0	0	3	0	0	0	1	0	0	0
150/300	11	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
250/100	28	4	0	0	21	2	0	0	10	0	0	0	6	0	0	0
250/200	13	1	0	0	5	0	0	0	2	0	0	0	1	0	0	0
250/300	7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
I / W	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
50/100	26	3	0	0	41	10	4	2	44	11	2	1	55	7	1	0
50/200	6	0	0	0	15	1	0	0	16	1	0	0	21	2	0	0
50/300	2	0	0	0	6	0	0	0	13	1	0	0	12	1	0	0
150/100	17	1	0	0	23	3	0	0	0	0	0	0	0	0	0	0
150/200	3	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
150/300	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
250/100	2	0	0	0	5	2	1	0	3	0	0	0	0	0	0	0
250/200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250/300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE A-237. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SPRINGFIELD, ILLINOIS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	63	38	12	5	54	33	13	6	55	28	9	3	67	40	13	6
140	45	17	2	0	74	57	36	22	38	11	1	0	76	58	31	15
200	21	5	1	0	64	71	52	39	17	5	0	0	84	70	46	31
260	10	1	0	0	91	83	70	59	14	0	0	0	90	80	63	49
320	6	0	0	0	95	89	80	71	4	0	0	0	94	88	76	66
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	38	14	3	1	66	73	56	45	6	1	0	0	98	96	93	90
140	21	6	1	0	94	90	81	74	0	0	0	0	99	98	96	94
200	2	0	0	0	98	96	93	90	0	0	0	0	99	98	97	95
260	0	0	0	0	99	99	97	96	0	0	0	0	99	98	97	95
320	0	0	0	0	99	99	98	97	0	0	0	0	99	98	97	95
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	16	1	0	0	94	87	76	64	36	11	1	0	85	73	52	37
140	3	0	0	0	98	96	92	87	14	1	0	0	84	70	47	30
200	0	0	0	0	99	98	97	95	3	0	0	0	90	81	66	52
260	0	0	0	0	99	99	97	96	0	0	0	0	93	87	74	63
320	0	0	0	0	99	99	97	96	0	0	0	0	96	92	83	74

TABLE A-238. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SPRINGFIELD, ILLINOIS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	77	60	38	24	31	12	1	0	78	63	42	28	26	9	3	1
140	61	39	13	4	49	28	10	4	60	34	13	5	46	23	7	3
200	49	23	4	0	64	45	24	14	49	24	5	2	59	35	13	7
260	40	15	1	0	74	56	36	24	40	13	2	0	72	52	29	17
320	25	4	0	0	81	67	49	36	25	5	0	0	82	67	43	29
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	68	46	24	14	50	29	11	6	56	30	8	2	65	44	22	13
140	52	24	7	3	69	47	27	14	35	11	1	0	82	69	49	36
200	38	15	2	0	81	65	45	34	18	1	0	0	89	81	67	54
260	34	12	2	0	88	77	60	49	5	1	0	0	95	91	82	74
320	28	9	2	0	92	85	71	61	4	0	0	0	98	95	90	85
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	46	19	2	0	67	47	23	11	60	36	14	7	59	36	12	6
140	20	6	0	0	84	70	50	35	42	15	2	1	74	56	33	20
200	9	3	0	0	94	88	78	66	28	10	1	0	85	72	53	41
260	4	1	0	0	96	92	84	77	14	1	0	0	90	81	68	57
320	0	0	0	0	98	96	91	87	10	1	0	0	94	88	77	69

TABLE A-241. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	67	37	20	12	33	9	3	1	79	56	40	29	21	1	0	0
120	31	6	2	1	69	37	21	12	54	22	7	2	46	15	4	0
180	0	0	0	0	100	100	100	100	16	3	0	0	84	64	50	40
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	99	97	96	94	1	0	0	0	100	99	98	96	0	0	0	0
120	88	72	59	49	12	1	0	0	95	89	83	78	5	0	0	0
180	74	48	30	20	26	4	1	0	85	67	54	46	15	2	0	0
240	60	27	12	6	40	11	2	0	72	45	30	22	28	5	2	0
300	38	11	4	1	62	32	16	7	50	19	7	3	50	19	7	2
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	96	91	85	78	4	0	0	0	91	73	59	48	9	0	0	0
120	82	59	45	34	18	3	1	0	72	44	26	16	28	6	2	0
180	67	38	23	14	33	8	2	1	40	18	9	5	60	41	34	33
240	28	11	4	1	72	56	49	45	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-242. PROBABILITY(X), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	43	11	3	0	57	25	13	7	50	16	6	3	50	16	5	1
100	24	2	0	0	76	47	30	19	29	4	1	0	71	41	25	16
140	14	0	0	0	86	65	49	37	17	2	0	0	84	61	45	35
180	8	0	0	0	92	78	66	55	10	0	0	0	90	75	62	52
220	4	0	0	0	96	87	79	71	7	0	0	0	94	82	72	63
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	47	14	5	2	54	23	13	9	40	11	4	1	60	31	19	12
100	27	5	1	0	74	49	35	27	18	4	1	0	82	62	48	38
140	16	2	0	0	84	66	55	47	10	1	0	0	91	78	69	61
180	10	1	0	0	91	79	71	65	5	0	0	0	96	89	83	78
220	6	0	0	0	95	86	80	74	3	0	0	0	97	93	90	87
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH	.GE. THRESH	.LT. THRESH
	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	27	6	1	0	73	49	34	21	35	8	1	0	65	33	17	8
100	13	1	0	0	88	71	60	50	17	1	0	0	83	59	42	29
140	5	0	0	0	95	88	81	75	7	0	0	0	93	77	65	54
180	3	0	0	0	97	93	89	85	3	0	0	0	97	87	78	69
220	2	0	0	0	99	96	93	90	2	0	0	0	98	90	83	77

TABLE A-243. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :	
	DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	48	17	5	2	52	22	9	5	48	14	4	1	51	21	9	4
100	31	5	0	0	69	39	23	14	30	5	1	0	74	46	29	19
140	18	1	0	0	82	59	44	33	17	2	0	0	85	64	49	38
180	10	0	0	0	90	74	62	51	11	1	0	0	92	79	68	59
220	5	0	0	0	95	85	76	67	5	0	0	0	95	87	80	73
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :	
	DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	18	3	1	0	63	64	53	45	5	1	0	0	97	93	89	87
100	7	0	0	0	93	84	76	70	1	0	0	0	100	99	99	98
140	2	0	0	0	98	95	92	89	0	0	0	0	100	100	99	99
180	1	0	0	0	100	98	97	96	0	0	0	0	100	100	99	99
220	0	0	0	0	101	100	100	100	0	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :	
	DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	10	1	0	0	91	78	67	57	22	6	2	1	78	56	41	29
100	2	0	0	0	98	93	89	85	10	1	0	0	90	74	61	50
140	1	0	0	0	100	98	97	96	4	0	0	0	96	84	74	65
180	0	0	0	0	100	100	99	98	1	0	0	0	99	93	87	81
220	0	0	0	0	100	100	99	98	1	0	0	0	99	94	89	84

TABLE A-244. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :	
	DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	74	43	26	16	26	3	0	0	76	46	30	19	24	3	0	0
100	55	21	7	2	45	15	6	3	59	21	8	2	41	10	1	0
140	40	9	2	0	60	28	16	9	45	12	4	1	55	21	8	4
180	30	5	1	0	70	41	26	17	34	7	2	0	67	36	20	12
220	24	2	0	0	77	51	34	24	25	4	1	0	75	49	31	21
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :	
	DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	62	31	15	8	38	12	5	2	50	20	9	4	50	20	10	5
100	43	14	5	2	58	30	19	13	29	8	2	1	71	47	32	23
140	29	7	1	0	72	49	36	28	16	3	1	0	85	67	55	47
180	19	4	1	0	81	63	51	43	9	1	0	0	91	79	69	62
220	13	2	0	0	87	73	63	56	5	0	0	0	96	89	83	78
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :		: .GE. THRESH : .LT. THRESH :	
	DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :		DAYS :	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	44	18	8	4	56	28	14	6	55	24	12	7	45	15	5	1
100	26	6	2	0	74	51	36	25	36	10	2	0	64	34	18	10
140	14	2	0	0	86	68	56	44	22	3	0	0	78	52	35	23
180	7	1	0	0	93	83	74	65	15	2	0	0	85	63	46	33
220	4	0	0	0	96	90	84	79	10	1	0	0	90	73	59	47

TABLE A-245. PROBABILITY(X), BY MONTH, OF COMB. INSOL-WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS
FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, MISSOURI

		J A N U A R Y				F E B R U A R Y				M A R C H				A P R I L																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	I / W	D A Y S				D A Y S				D A Y S				D A Y S				D A Y S															
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7												
50/ 60		32	6	1	0	15	2	0	0	43	11	3	1	7	0	0	0	60	25	11	6	1	0	0	0	63	28	12	4	0	0	0	0
50/120		13	0	0	0	20	3	0	0	18	1	0	0	10	0	0	0	35	6	2	0	3	0	0	0	36	6	1	0	1	0	0	0
50/180		6	0	0	0	24	5	1	0	8	0	0	0	12	0	0	0	20	2	0	0	5	0	0	0	19	2	0	0	1	0	0	0
150/ 60		0	0	0	0	57	24	12	7	21	2	0	0	28	6	1	0	36	9	3	1	14	1	0	0	44	10	3	1	8	0	0	0
150/120		0	0	0	0	81	55	37	24	8	0	0	0	42	14	4	1	20	3	1	0	25	5	1	0	25	2	0	0	16	1	0	0
150/180		0	0	0	0	92	77	61	48	4	0	0	0	50	19	7	2	12	0	0	0	34	8	2	1	13	0	0	0	21	2	0	0
250/ 60		0	0	0	0	57	25	13	7	0	0	0	0	50	16	5	1	4	0	0	0	31	6	1	0	24	3	0	0	17	1	0	0
250/120		0	0	0	0	82	57	39	27	0	0	0	0	78	51	34	23	3	0	0	0	56	23	10	4	13	1	0	0	33	6	1	0
250/180		0	0	0	0	92	78	66	55	0	0	0	0	90	75	62	52	1	0	0	0	72	41	26	16	8	0	0	0	45	12	2	0
		M A Y				J U N E				J U L Y				A U G U S T																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	I / W	D A Y S				D A Y S				D A Y S				D A Y S				D A Y S															
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7												
50/ 60		47	14	5	2	0	0	0	0	40	11	4	1	0	0	0	0	20	4	1	0	0	0	0	0	19	3	1	0	0	0	0	0
50/120		20	3	1	0	0	0	0	0	13	2	0	0	0	0	0	0	5	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0
50/180		10	1	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150/ 60		36	6	2	1	9	0	0	0	36	10	3	1	6	0	0	0	18	3	0	0	7	0	0	0	18	3	1	0	9	1	0	0
150/120		17	2	0	0	16	1	0	0	12	2	0	0	9	0	0	0	4	0	0	0	8	1	0	0	3	0						

TABLE A-246. PROBABILITY(X), BY MONTH, OF COMB. INSOL-WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - SPRINGFIELD, MISSOURI

		JANUARY				FEBRUARY				MARCH				APRIL																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
50/ 60		53	20	9	4	5	0	0	0	63	29	13	6	2	0	0	0	75	45	27	18	0	0	0	0	78	51	31	18	0	0	0	0
50/120		32	6	1	0	11	2	0	0	43	10	2	0	5	0	0	0	55	21	8	4	2	0	0	0	55	22	8	3	0	0	0	0
50/180		21	2	0	0	16	2	0	0	27	4	1	0	8	0	0	0	39	7	1	0	2	0	0	0	39	10	2	0	1	0	0	0
150/ 60		0	0	0	0	26	3	0	0	32	5	0	0	12	1	0	0	44	13	5	2	6	0	0	0	55	19	6	3	3	0	0	0
150/120		0	0	0	0	53	21	11	6	20	1	0	0	25	5	1	0	32	7	2	0	16	2	0	0	38	7	2	1	9	0	0	0
150/180		0	0	0	0	70	40	24	14	10	0	0	0	33	9	2	1	21	2	0	0	22	4	1	0	26	2	0	0	14	1	0	0
250/ 60		0	0	0	0	26	3	0	0	0	0	0	0	24	3	0	0	6	0	0	0	17	2	0	0	31	5	1	0	8	0	0	0
250/120		0	0	0	0	53	22	11	6	0	0	0	0	42	14	4	1	4	0	0	0	36	10	3	1	20	2	0	0	21	3	1	0
250/180		0	0	0	0	70	41	26	17	0	0	0	0	67	36	20	12	3	0	0	0	52	19	8	4	14	0	0	0	31	5	1	0
		MAY				JUNE				JULY				AUGUST																			
THRESHOLD		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH																	
	I / W	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS																	
		1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7																
50/ 60		62	31	15	8	0	0	0	0	50	20	9	4	0	0	0	0	34	9	3	1	0	0	0	0	36	11	4	2	0	0	0	0
50/120		34	8	2	0	0	0	0	0	21	5	1	0	0	0	0	0	9	1	0	0	0	0	0	0	10	2	0	0	0	0	0	0
50/180		19	4	1	0	0	0	0	0	9	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
150/ 60		47	15	5	3	4	0	0	0	46	15	6	2	5	0	0	0	30	7	2	0	5	0	0	0	32	8	2	1	6	0	0	0
150/120		26	4	0	0	11	0	0	0	18	4	1	0	7	0	0	0	8	1	0	0	8	1	0	0	10	1	0	0	10			

TABLE A-247. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SPRINGFIELD, MISSOURI

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	73	53	28	17	44	24	6	1	83	69	49	35	30	6	0	0
120	38	16	4	2	72	51	27	15	64	39	12	3	55	31	8	1
180	0	0	0	0	100	100	100	100	36	14	2	0	86	76	60	47
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	99	98	96	94	0	0	0	0	100	99	98	97	0	0	0	0
120	90	81	65	54	21	3	0	0	96	93	87	81	7	1	0	0
180	78	62	39	25	37	14	2	0	88	78	61	52	28	7	1	0
240	65	43	19	10	48	25	5	1	77	60	39	28	37	14	4	1
300	52	26	10	3	70	51	25	10	59	35	12	5	58	34	12	4
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	97	94	88	80	6	1	0	0	90	80	63	52	13	1	0	0
120	84	71	53	39	27	11	3	1	76	58	33	20	39	17	6	1
180	73	54	31	16	42	19	5	2	62	42	19	10	81	69	58	56
240	49	28	9	3	85	77	68	63	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-248. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SPRINGFIELD, MISSOURI

THRESHOLD	JANUARY				FEBRUARY				MARCH				APRIL			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	47	24	6	1	61	41	19	10	53	30	12	5	51	28	7	1
100	28	8	0	0	77	61	38	23	34	11	2	0	73	55	33	20
140	17	1	0	0	86	75	56	42	23	6	1	0	85	71	52	39
180	4	0	0	0	92	84	70	56	11	2	0	0	90	81	67	56
220	0	0	0	0	95	90	82	74	7	1	0	0	93	87	75	66
THRESHOLD	MAY				JUNE				JULY				AUGUST			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	52	27	8	4	60	38	20	12	48	24	9	2	66	48	27	17
100	35	15	4	0	79	63	44	33	30	14	4	0	85	74	56	43
140	25	6	1	0	87	76	62	53	26	7	0	0	92	86	75	66
180	19	3	1	0	92	86	77	70	11	3	0	0	96	93	86	81
220	9	2	1	0	95	91	84	77	10	2	0	0	97	95	92	89
THRESHOLD	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	38	15	4	0	77	62	42	25	44	20	4	1	70	47	23	11
100	15	4	0	0	89	79	65	53	24	4	0	0	83	69	49	33
140	8	2	0	0	95	91	84	77	10	1	0	0	91	83	69	56
180	3	1	0	0	97	95	91	86	3	1	0	0	95	89	80	71
220	2	0	0	0	98	97	94	91	3	0	0	0	96	92	85	78

TABLE A-249. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SPRINGFIELD, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	57	32	9	3	59	38	15	7	54	26	8	2	59	34	12	5
100	43	15	1	0	74	55	31	16	40	15	3	0	78	60	37	23
140	28	5	0	0	84	71	51	38	29	8	1	0	87	75	56	43
180	15	0	0	0	91	82	67	55	19	3	0	0	93	86	73	63
220	5	0	0	0	95	89	80	70	10	0	0	0	96	91	83	76
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	29	10	2	0	87	76	62	52	14	4	0	0	98	95	92	88
100	14	4	0	0	94	89	81	74	0	0	0	0	100	99	99	98
140	5	0	0	0	98	96	93	90	0	0	0	0	100	100	99	99
180	2	0	0	0	99	98	97	96	0	0	0	0	100	100	99	99
220	0	0	0	0	100	100	99	99	0	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	16	4	0	0	92	84	71	61	46	22	5	1	71	50	26	14
100	1	0	0	0	97	95	90	86	19	5	0	0	83	70	49	34
140	2	0	0	0	99	99	97	96	9	2	0	0	91	82	67	53
180	0	0	0	0	100	99	99	98	2	0	0	0	95	89	79	68
220	0	0	0	0	100	99	99	98	2	0	0	0	97	94	87	80

TABLE A-250. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - SPRINGFIELD, MISSOURI

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	75	56	34	21	32	10	0	0	78	60	37	23	27	10	0	0
100	61	36	11	3	53	30	11	5	61	35	13	3	43	21	2	0
140	46	21	4	1	63	44	23	12	49	24	8	2	59	35	13	6
180	40	15	2	1	74	57	34	22	39	17	5	0	71	51	27	15
220	33	8	0	0	79	65	43	29	35	12	2	0	80	63	39	26
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	66	46	20	11	49	24	10	4	61	36	15	7	57	36	16	8
100	52	29	9	4	66	46	27	16	43	22	7	2	77	63	41	29
140	41	17	3	0	79	64	46	35	29	11	2	0	87	77	62	52
180	34	14	3	0	86	75	60	50	19	6	0	0	92	86	75	66
220	24	8	1	0	90	82	71	62	11	3	0	0	96	93	86	80
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	58	32	13	6	66	47	22	9	62	40	20	11	52	29	9	3
100	40	15	3	0	79	64	43	29	46	25	5	1	70	49	26	14
140	20	7	1	0	87	77	61	48	34	11	1	0	81	65	43	28
180	9	2	0	0	93	88	78	68	28	9	0	0	86	74	53	37
220	7	1	0	0	96	93	87	81	14	5	1	0	90	80	64	51

TABLE A-253. PROBABILITY(X), BY MONTH, OF INSOLATION BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	76	51	35	26	24	3	0	0	88	73	60	49	12	1	0	0
120	48	16	6	3	52	19	8	3	63	33	16	8	37	11	3	1
180	0	0	0	0	100	100	100	100	22	7	2	0	78	58	46	38
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	100	99	98	97	0	0	0	0	100	99	99	98	0	0	0	0
120	91	78	67	59	9	0	0	0	97	94	91	88	2	0	0	0
180	80	57	41	30	20	3	0	0	91	79	69	62	9	1	0	0
240	67	39	24	14	33	9	2	0	79	56	42	32	21	2	0	0
300	50	21	10	4	50	21	10	4	61	31	17	10	39	12	3	1
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
60	98	93	88	83	2	0	0	0	93	82	72	63	7	0	0	0
120	84	66	52	42	16	2	0	0	77	55	40	29	23	7	2	0
180	71	46	31	22	29	8	2	1	53	28	16	10	47	27	22	20
240	48	22	10	4	52	28	20	16	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-254. PROBABILITY(X), BY MONTH, OF WIND(DAY) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	41	8	1	0	59	23	8	4	46	13	3	1	54	18	6	2
140	24	2	0	0	76	46	27	15	27	2	0	0	73	41	25	16
200	14	1	0	0	86	65	49	36	16	1	0	0	84	60	42	30
260	8	0	0	0	92	78	66	56	11	0	0	0	89	71	55	44
320	4	0	0	0	96	85	76	68	7	0	0	0	93	81	71	62
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	58	22	9	3	42	11	4	2	54	26	14	7	46	20	10	5
140	37	10	3	1	63	36	22	14	34	11	4	2	67	41	29	21
200	22	3	1	0	78	54	40	32	21	5	1	0	79	57	44	35
260	14	1	0	0	86	69	58	50	13	2	0	0	87	71	60	51
320	9	1	0	0	91	80	71	65	7	0	0	0	93	82	74	67
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.		.GE. THRESH.		.LT. THRESH.	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	43	13	4	2	57	26	12	6	45	13	3	1	55	20	7	3
140	23	4	1	0	77	53	36	24	25	4	0	0	75	49	32	22
200	12	1	1	0	83	72	59	49	13	1	0	0	87	65	50	38
260	6	1	0	0	94	85	75	67	8	0	0	0	91	75	62	50
320	4	0	0	0	96	88	81	74	5	0	0	0	95	84	75	66

TABLE A-255. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	43	12	3	1	57	26	10	4	46	14	5	2	54	22	10	4
140	23	2	0	0	77	49	31	18	24	5	1	0	72	45	28	16
200	15	0	0	0	85	64	47	36	17	3	0	0	85	64	47	35
260	10	0	0	0	90	74	60	50	11	1	0	0	90	74	61	51
320	6	0	0	0	94	84	75	67	6	0	0	0	94	85	76	68
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	28	7	2	1	72	48	33	23	27	8	2	1	87	71	59	49
140	10	1	0	0	90	78	67	58	10	2	0	0	97	93	89	86
200	4	0	0	0	96	89	83	77	4	1	0	0	99	97	95	93
260	2	0	0	0	98	94	91	89	2	0	0	0	100	99	99	98
320	1	0	0	0	99	97	96	95	1	0	0	0	100	100	99	99
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	23	5	2	1	77	56	42	32	36	10	3	0	61	30	15	8
140	8	1	0	0	92	81	71	62	16	2	0	0	80	53	37	27
200	4	0	0	0	96	91	85	79	8	1	0	0	90	75	62	52
260	2	0	0	0	98	94	90	87	4	1	0	0	95	85	75	67
320	0	0	0	0	100	98	96	95	2	0	0	0	97	90	84	78

TABLE A-256. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) BEING ABOVE, AND BELOW, SELECTED THRESHOLDS FOR UP TO 7 SUCCESSIVE DAYS - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	68	35	19	11	32	4	1	0	72	39	21	13	28	4	0	0
140	48	15	4	1	52	18	6	2	53	18	6	3	47	13	3	0
200	34	5	0	0	66	32	16	6	38	10	3	2	62	29	13	6
260	26	2	0	0	74	44	26	14	30	6	1	0	70	41	23	13
320	20	1	0	0	80	54	37	24	24	3	0	0	76	51	33	21
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	72	42	25	14	28	5	2	1	69	42	26	16	32	9	3	0
140	51	21	10	5	49	19	8	4	49	22	11	5	52	26	15	9
200	36	11	4	2	64	38	24	16	36	14	5	2	64	41	27	18
260	27	6	1	0	73	50	36	29	25	7	2	1	75	53	40	31
320	19	2	0	0	81	61	48	40	18	4	1	0	82	64	53	45
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS		.GE. THRESH : DAYS		.LT. THRESH : DAYS	
	1	3	5	7	1	3	5	7	1	3	5	7	1	3	5	7
80	61	30	16	8	39	14	6	2	65	33	16	6	35	7	1	0
140	39	13	5	2	61	31	16	8	46	15	5	1	54	22	9	4
200	24	5	2	0	76	53	37	26	33	9	2	0	68	40	25	15
260	16	2	1	0	84	64	49	38	23	4	0	0	77	53	38	27
320	11	1	1	0	89	74	62	53	15	2	0	0	85	66	53	42

TABLE A-259. PROBABILITY(X), BY MONTH, OF INSOLATION PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	60	65	44	32	32	12	2	0	91	83	67	54	24	7	0	0
120	55	31	10	5	57	34	14	6	73	51	23	11	49	25	6	2
180	0	0	0	0	100	100	100	100	47	24	7	2	85	74	59	48
240	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	47	23	4	2	77	60	40	27
	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	98
	42	19	2	0	76	56	30	15								
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	100	99	98	97	0	0	0	0	100	100	100	100	0	0	0	0
120	92	85	73	63	10	2	0	0	98	97	94	90	4	0	0	0
180	84	70	49	35	30	11	2	0	92	86	75	66	11	3	0	0
240	74	57	33	19	45	24	6	1	82	69	51	38	27	7	1	0
300	61	39	16	7	62	39	18	7	69	48	25	14	49	28	7	2
									72	50	26	15	50	28	7	1
													57	34	11	4
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	97	95	90	84	2	0	0	0	94	88	77	66	7	0	0	0
120	87	77	60	47	30	8	1	0	83	69	49	35	41	21	7	2
180	79	61	39	27	46	23	6	1	67	48	26	16	70	55	46	44
240	61	40	17	7	69	52	38	32	0	0	0	0	100	100	100	100
300	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100

TABLE A-260. PROBABILITY(X), BY MONTH, OF WIND(DAY) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	43	18	1	0	58	36	13	5	46	24	6	2	58	31	9	3
140	27	8	0	0	77	59	35	19	28	6	0	0	73	54	31	19
200	13	3	0	0	86	75	56	41	17	3	0	0	84	70	48	33
260	6	2	0	0	92	84	71	59	8	1	0	0	89	79	61	48
320	2	0	0	0	95	89	79	70	6	1	0	0	93	86	76	66
									19	5	0	0	86	73	53	39
									21	5	1	1	86	75	59	46
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	61	35	14	4	46	22	8	3	66	45	22	11	59	37	18	8
140	47	23	5	2	71	54	32	19	50	25	9	4	75	58	40	28
200	30	7	2	0	82	67	49	38	38	14	3	1	84	71	54	42
260	19	4	1	0	89	79	65	55	22	6	1	0	89	80	68	57
320	16	3	0	0	93	86	77	70	15	2	0	0	94	88	79	71
									5	0	0	0	99	98	97	95
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH		.GE. THRESH		.LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
60	50	25	7	3	62	41	18	6	51	28	7	1	59	33	11	4
140	31	9	3	1	81	66	43	28	35	14	2	0	79	63	40	26
200	18	6	2	0	89	80	65	53	18	4	0	0	88	77	61	50
260	10	4	1	0	95	90	80	70	11	3	0	0	92	85	73	64
320	5	1	0	0	96	92	83	76	9	2	0	0	93	90	81	74
									1	0	0	0	94	88	78	68
													7	4	0	0

TABLE A-261. PROBABILITY(%), BY MONTH, OF WIND(NIGHT) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	54	26	5	1	65	42	16	7	55	28	10	4	64	38	15	6
140	34	8	0	0	80	63	39	22	39	14	3	0	81	65	41	25
200	21	2	0	0	86	74	54	41	33	9	1	0	87	76	58	42
260	16	1	0	0	91	82	66	54	26	5	0	0	91	83	71	60
320	11	0	0	0	94	89	79	70	10	1	0	0	94	89	81	74
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	48	23	7	2	81	65	43	29	46	22	4	1	80	67	47	33
140	19	6	1	0	93	85	73	63	27	11	1	0	93	86	76	69
200	10	2	0	0	96	93	86	81	12	5	0	0	97	94	89	85
260	5	0	0	0	98	96	93	90	5	1	0	0	98	97	94	91
320	2	0	0	0	99	98	97	95	2	0	0	0	99	98	97	95
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	36	14	4	1	82	70	49	36	53	24	6	1	73	54	31	17
140	16	5	1	0	93	87	75	65	34	10	1	0	81	66	44	31
200	7	1	0	0	97	94	87	82	20	6	1	0	94	88	77	68
260	1	0	0	0	98	96	92	86	9	5	1	0	97	94	88	82
320	0	0	0	0	99	98	97	95	8	1	0	0	98	96	92	88

TABLE A-262. PROBABILITY(%), BY MONTH, OF WIND(TOTAL) PERSISTING ABOVE, AND BELOW, THRESHOLDS FOR UP TO ONE WEEK - WICHITA, KANSAS

	JANUARY				FEBRUARY				MARCH				APRIL			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	70	51	27	15	34	11	2	1	74	53	28	17	34	14	1	0
140	56	29	7	2	56	32	10	4	57	31	10	4	52	26	5	1
200	41	13	1	0	69	48	23	9	44	21	6	3	68	45	18	9
260	32	8	0	0	76	58	34	17	37	14	3	1	74	56	30	16
320	28	6	0	0	82	66	44	29	33	9	1	0	80	65	41	25
	MAY				JUNE				JULY				AUGUST			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	75	55	32	18	33	13	5	2	75	59	36	21	44	22	8	1
140	60	36	16	7	58	35	14	6	63	41	18	7	65	45	25	14
200	51	26	8	3	72	55	34	22	57	35	11	4	76	60	39	25
260	45	17	3	1	81	65	46	36	45	19	5	1	82	69	50	38
320	30	7	1	0	85	74	57	47	39	14	3	1	86	76	62	52
	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
THRESHOLD	.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH		.GE. THRESH : .LT. THRESH	
	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	
	2	3	5	7	2	3	5	7	2	3	5	7	2	3	5	7
80	70	45	21	11	49	30	12	3	71	49	23	8	42	18	3	1
140	52	25	8	4	70	48	23	11	56	31	9	2	62	36	15	5
200	37	12	3	1	80	66	44	30	50	26	5	1	76	57	34	20
260	25	6	3	0	86	75	56	43	37	15	1	0	82	68	47	33
320	20	6	3	0	90	83	68	57	27	10	1	0	88	76	60	48

Appendix B

INSOLATION RELATED TO INCLINED SURFACES

Global horizontal insolation (as recorded historically) were related to inclined surfaces at each site using the Becker and Boyd daily average data method (ref. 2). Ratios are provided in this appendix, based on the 21st of each month, for multiplying global insolation to obtain insolation estimates on south-facing surfaces inclined at five different angles with respect to the horizontal. The ratios are presented in the following table for each site in the region, alphabetically.

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Table B-1. RATIOS TO RELATE GLOBAL HORIZONTAL INSOLATION TO INSOLATION ON A SOUTH-FACING INCLINED SURFACE, BY MONTH ($G_T = G_H \cdot \text{RATIO}$)

BISMARCK, NORTH DAKOTA

(LAT=46.77DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:	:
10	:	1.39	1.23	1.15	1.09	1.04	1.02	1.04	1.09	1.15	1.23	1.39	1.43
30	:	1.94	1.57	1.33	1.15	1.01	.98	1.01	1.15	1.33	1.57	1.94	2.10
50	:	2.27	1.72	1.40	1.09	.91	.86	.91	1.09	1.40	1.72	2.27	2.55
70	:	2.39	1.76	1.30	.91	.71	.64	.71	.91	1.30	1.76	2.39	2.69
90	:	2.34	1.56	1.08	.59	.42	.34	.42	.59	1.08	1.56	2.34	2.65

CHICAGO, ILLINOIS

(LAT=41.78DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:	:
10	:	1.31	1.20	1.12	1.05	1.02	1.00	1.02	1.05	1.12	1.20	1.31	1.37
30	:	1.78	1.49	1.26	1.08	.97	.94	.97	1.08	1.26	1.49	1.78	1.94
50	:	2.04	1.62	1.28	1.00	.85	.80	.85	1.00	1.28	1.62	2.04	2.27
70	:	2.10	1.58	1.17	.81	.64	.58	.64	.81	1.17	1.58	2.10	2.38
90	:	1.94	1.38	.92	.52	.36	.30	.36	.52	.92	1.38	1.94	2.26

CLEVELAND, OHIO

(LAT=41.40DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:	:
10	:	1.31	1.20	1.12	1.05	1.02	1.00	1.02	1.05	1.12	1.20	1.31	1.37
30	:	1.76	1.49	1.25	1.08	.96	.93	.96	1.08	1.25	1.49	1.76	1.92
50	:	2.02	1.61	1.27	1.00	.85	.80	.85	1.00	1.27	1.61	2.02	2.25
70	:	2.07	1.57	1.16	.81	.64	.58	.64	.81	1.16	1.57	2.07	2.36
90	:	1.92	1.36	.91	.51	.36	.29	.36	.51	.91	1.36	1.92	2.23

COLUMBIA, MISSOURI

(LAT=38.82DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:	:
10	:	1.28	1.18	1.11	1.04	1.01	.99	1.01	1.04	1.11	1.18	1.28	1.33
30	:	1.68	1.44	1.22	1.05	.94	.91	.94	1.05	1.22	1.44	1.68	1.84
50	:	1.90	1.54	1.22	.96	.82	.77	.82	.96	1.22	1.54	1.90	2.12
70	:	1.92	1.48	1.10	.76	.60	.55	.60	.76	1.10	1.48	1.92	2.19
90	:	1.75	1.27	.85	.47	.32	.26	.32	.47	.85	1.27	1.75	2.04

Table B-1. RATIOS TO RELATE GLOBAL HORIZONTAL INSOLATION TO INSOLATION ON A SOUTH-FACING INCLINED SURFACE, BY MONTH ($G_T = G_H \cdot \text{RATIO}$) (Continued)

DAYTON, OHIO

(LAT=39.90DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.29	1.19	1.11	1.04	1.01	.99	1.01	1.04	1.11	1.19	1.29	1.35
30	:	1.72	1.46	1.23	1.06	.95	.92	.95	1.06	1.23	1.46	1.72	1.88
50	:	1.95	1.57	1.24	.97	.83	.78	.83	.97	1.24	1.57	1.95	2.17
70	:	1.98	1.52	1.12	.78	.62	.56	.62	.78	1.12	1.52	1.98	2.26
90	:	1.82	1.31	.87	.49	.34	.28	.34	.49	.87	1.31	1.82	2.12

DES MOINES, IOWA

(LAT=41.53DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.31	1.20	1.12	1.05	1.02	1.00	1.02	1.05	1.12	1.20	1.31	1.37
30	:	1.77	1.49	1.25	1.08	.97	.94	.97	1.08	1.25	1.49	1.77	1.93
50	:	2.03	1.61	1.27	1.00	.85	.80	.85	1.00	1.27	1.61	2.03	2.26
70	:	2.08	1.57	1.16	.81	.64	.58	.64	.81	1.16	1.57	2.08	2.37
90	:	1.93	1.37	.91	.51	.36	.30	.36	.51	.91	1.37	1.93	2.24

DODGE CITY, KANSAS

(LAT=37.77DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.26	1.18	1.10	1.04	1.01	.99	1.01	1.04	1.10	1.18	1.26	1.32
30	:	1.64	1.42	1.21	1.04	.94	.90	.94	1.04	1.21	1.42	1.64	1.80
50	:	1.85	1.52	1.20	.94	.80	.75	.80	.94	1.20	1.52	1.85	2.06
70	:	1.86	1.45	1.08	.74	.59	.53	.59	.74	1.08	1.45	1.86	2.11
90	:	1.69	1.23	.83	.45	.30	.25	.30	.45	.83	1.23	1.69	1.95

FARGO, NORTH DAKOTA

(LAT=46.90DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.39	1.23	1.15	1.09	1.04	1.02	1.04	1.09	1.15	1.23	1.39	1.44
30	:	1.94	1.58	1.34	1.15	1.02	.99	1.02	1.15	1.34	1.58	1.94	2.10
50	:	2.28	1.72	1.40	1.09	.91	.86	.91	1.09	1.40	1.72	2.28	2.56
70	:	2.40	1.76	1.31	.91	.72	.64	.72	.91	1.31	1.76	2.40	2.70
90	:	2.36	1.56	1.08	.59	.42	.35	.42	.59	1.08	1.56	2.36	2.66

Table B-1. RATIOS TO RELATE GLOBAL HORIZONTAL INSOLATION TO INSOLATION ON A SOUTH-FACING INCLINED SURFACE, BY MONTH: ($G_T = G_H \cdot \text{RATIO}$) (Continued)

FORT WAYNE, INDIANA

(LAT=41.00DEG)

	R A T I O											
TILT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:
10	1.30	1.20	1.12	1.05	1.01	.99	1.01	1.05	1.12	1.20	1.30	1.36
30	1.75	1.48	1.25	1.07	.96	.93	.96	1.07	1.25	1.48	1.75	1.91
50	2.01	1.60	1.26	.99	.84	.79	.84	.99	1.26	1.60	2.01	2.23
70	2.05	1.55	1.15	.80	.63	.57	.63	.80	1.15	1.55	2.05	2.33
90	1.89	1.35	.90	.51	.35	.29	.35	.51	.90	1.35	1.89	2.20

GOODLAND, KANSAS

(LAT=39.37DEG)

	R A T I O											
TILT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:
10	1.28	1.19	1.11	1.04	1.01	.99	1.01	1.04	1.11	1.19	1.28	1.34
30	1.70	1.45	1.22	1.05	.95	.91	.95	1.05	1.22	1.45	1.70	1.86
50	1.93	1.55	1.23	.96	.82	.77	.82	.96	1.23	1.55	1.93	2.15
70	1.95	1.50	1.11	.77	.61	.55	.61	.77	1.11	1.50	1.95	2.23
90	1.79	1.29	.86	.48	.33	.27	.33	.48	.86	1.29	1.79	2.08

GRAND ISLAND, NEBRASKA

(LAT=40.97DEG)

	R A T I O											
TILT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:
10	1.30	1.20	1.12	1.05	1.01	.99	1.01	1.05	1.12	1.20	1.30	1.36
30	1.75	1.48	1.25	1.07	.96	.93	.96	1.07	1.25	1.48	1.75	1.91
50	2.00	1.60	1.26	.99	.84	.79	.84	.99	1.26	1.60	2.00	2.23
70	2.05	1.55	1.15	.80	.63	.57	.63	.80	1.15	1.55	2.05	2.33
90	1.89	1.35	.90	.51	.35	.29	.35	.51	.90	1.35	1.89	2.20

GRAND RAPIDS, MICHIGAN

(LAT=42.88DEG)

	R A T I O											
TILT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	:	:	:	:	:	:	:	:	:	:	:
10	1.32	1.21	1.13	1.06	1.02	1.00	1.02	1.06	1.13	1.21	1.32	1.38
30	1.81	1.51	1.28	1.09	.98	.95	.98	1.09	1.28	1.51	1.81	1.97
50	2.09	1.64	1.30	1.02	.86	.81	.86	1.02	1.30	1.64	2.09	2.33
70	2.16	1.62	1.19	.83	.66	.59	.66	.83	1.19	1.62	2.16	2.45
90	2.01	1.42	.95	.54	.37	.31	.37	.54	.95	1.42	2.01	2.34

Table B-1. RATIOS TO RELATE GLOBAL HORIZONTAL INSOLATION TO INSOLATION ON A SOUTH-FACING INCLINED SURFACE, BY MONTH ($G_T = G_H \cdot \text{RATIO}$) (Continued)

GREEN BAY, WISCONSIN

(LAT=44.48DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.34	1.22	1.14	1.07	1.03	1.01	1.03	1.07	1.14	1.22	1.34	1.40
30	:	1.86	1.54	1.30	1.11	.99	.96	.99	1.11	1.30	1.54	1.86	2.02
50	:	2.17	1.69	1.34	1.05	.88	.83	.88	1.05	1.34	1.69	2.17	2.41
70	:	2.26	1.67	1.24	.86	.68	.61	.68	.86	1.24	1.67	2.26	2.56
90	:	2.12	1.48	1.00	.56	.39	.32	.39	.56	1.00	1.48	2.12	2.46

MADISON, WISCONSIN

(LAT=43.13DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.33	1.21	1.13	1.06	1.02	1.00	1.02	1.06	1.13	1.21	1.33	1.39
30	:	1.82	1.52	1.28	1.10	.98	.95	.98	1.10	1.28	1.52	1.82	1.98
50	:	2.10	1.65	1.31	1.03	.87	.82	.87	1.03	1.31	1.65	2.10	2.34
70	:	2.18	1.63	1.20	.84	.66	.60	.66	.84	1.20	1.63	2.18	2.47
90	:	2.03	1.43	.96	.54	.38	.31	.38	.54	.96	1.43	2.03	2.36

MINNEAPOLIS, MINNESOTA

(LAT=44.88DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.35	1.22	1.14	1.07	1.03	1.01	1.03	1.07	1.14	1.22	1.35	1.41
30	:	1.88	1.55	1.31	1.12	1.00	.97	1.00	1.12	1.31	1.55	1.88	2.04
50	:	2.18	1.70	1.35	1.06	.89	.84	.89	1.06	1.35	1.70	2.18	2.43
70	:	2.26	1.69	1.25	.87	.69	.62	.69	.87	1.25	1.69	2.26	2.58
90	:	2.14	1.50	1.01	.57	.40	.33	.40	.57	1.01	1.50	2.14	2.49

MINOT, NORTH DAKOTA

(LAT=48.27DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.42	1.24	1.15	1.11	1.04	1.02	1.04	1.11	1.15	1.24	1.42	1.46
30	:	1.99	1.60	1.36	1.17	1.03	1.00	1.03	1.17	1.36	1.60	1.99	2.14
50	:	2.35	1.73	1.44	1.12	.93	.87	.93	1.12	1.44	1.73	2.35	2.64
70	:	2.48	1.81	1.35	.94	.74	.66	.74	.94	1.35	1.81	2.48	2.78
90	:	2.51	1.61	1.13	.61	.44	.36	.44	.61	1.13	1.61	2.51	2.78

Table B-1. RATIOS TO RELATE GLOBAL HORIZONTAL INSOLATION TO INSOLATION ON A SOUTH-FACING INCLINED SURFACE, BY MONTH ($G_T = G_H \cdot \text{RATIO}$) (Continued)

NORTH OMAHA, NEBRASKA

(LAT=41.37DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.31	1.20	1.12	1.05	1.02	1.00	1.02	1.05	1.12	1.20	1.31	1.37
30	:	1.76	1.48	1.25	1.08	.96	.93	.96	1.08	1.25	1.48	1.76	1.92
50	:	2.02	1.61	1.27	.99	.85	.80	.85	.99	1.27	1.61	2.02	2.25
70	:	2.07	1.57	1.16	.80	.64	.58	.64	.80	1.16	1.57	2.07	2.36
90	:	1.92	1.36	.91	.51	.36	.29	.36	.51	.91	1.36	1.92	2.23

RAPID CITY, SOUTH DAKOTA

(LAT=44.05DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.34	1.21	1.13	1.06	1.03	1.01	1.03	1.06	1.13	1.21	1.34	1.40
30	:	1.85	1.53	1.29	1.11	.99	.96	.99	1.11	1.29	1.53	1.85	2.01
50	:	2.15	1.68	1.33	1.04	.86	.83	.88	1.04	1.33	1.68	2.15	2.39
70	:	2.23	1.66	1.23	.85	.68	.61	.68	.85	1.23	1.66	2.23	2.53
90	:	2.09	1.46	.98	.55	.39	.32	.39	.55	.98	1.46	2.09	2.43

SIOUX FALLS, SOUTH DAKOTA

(LAT=43.57DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.33	1.21	1.13	1.06	1.02	1.00	1.02	1.06	1.13	1.21	1.33	1.39
30	:	1.83	1.52	1.29	1.10	.99	.96	.99	1.10	1.29	1.52	1.83	1.99
50	:	2.12	1.66	1.32	1.03	.87	.82	.87	1.03	1.32	1.66	2.12	2.37
70	:	2.20	1.64	1.21	.84	.67	.60	.67	.84	1.21	1.64	2.20	2.50
90	:	2.06	1.45	.97	.55	.38	.32	.38	.55	.97	1.45	2.06	2.39

SPRINGFIELD, ILLINOIS

(LAT=39.83DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.29	1.19	1.11	1.04	1.01	.99	1.01	1.04	1.11	1.19	1.29	1.35
30	:	1.71	1.46	1.23	1.06	.95	.92	.95	1.06	1.23	1.46	1.71	1.87
50	:	1.95	1.57	1.24	.97	.83	.78	.83	.97	1.24	1.57	1.95	2.17
70	:	1.98	1.51	1.12	.78	.62	.56	.62	.78	1.12	1.51	1.98	2.26
90	:	1.82	1.30	.87	.49	.34	.28	.34	.49	.87	1.30	1.82	2.12

Table B-1. RATIOS TO RELATE GLOBAL HORIZONTAL INSOLATION TO INSOLATION ON A SOUTH-FACING INCLINED SURFACE, BY MONTH ($G_T = G_H \cdot \text{RATIO}$) (Concluded)

SPRINGFIELD, MISSOURI

(LAT=37.23DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.26	1.17	1.10	1.03	1.00	.98	1.00	1.03	1.10	1.17	1.26	1.31
30	:	1.63	1.42	1.20	1.04	.93	.90	.93	1.04	1.20	1.42	1.63	1.77
50	:	1.82	1.50	1.20	.94	.80	.75	.80	.94	1.20	1.50	1.82	2.03
70	:	1.82	1.44	1.06	.74	.58	.53	.58	.74	1.06	1.44	1.82	2.08
90	:	1.65	1.22	.81	.44	.28	.24	.28	.44	.81	1.22	1.65	1.91

WICHITA, KANSAS

(LAT=37.65DEG)

		R A T I O											
TILT	:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANGLE	:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	:	1.26	1.18	1.10	1.04	1.01	.99	1.01	1.04	1.10	1.18	1.26	1.32
30	:	1.64	1.42	1.21	1.04	.94	.90	.94	1.04	1.21	1.42	1.64	1.79
50	:	1.84	1.51	1.20	.94	.80	.75	.80	.94	1.20	1.51	1.84	2.05
70	:	1.85	1.45	1.07	.74	.59	.53	.59	.74	1.07	1.45	1.85	2.11
90	:	1.68	1.23	.82	.45	.29	.25	.29	.45	.82	1.23	1.68	1.94

Appendix C

JOINT PROBABILITY DISTRIBUTION TABLES

Joint probability distribution data are presented in this appendix for insolation and wind-day, and for insolation and wind-total. The number of days of joint solar and wind occurrences, out of the total number of observations for each month, are presented for several intervals each of insolation and wind power. These data, showing the proportion of days that have wind power and insolation within defined intervals, are presented in the following tables. The stations are listed alphabetically.

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TABLE C- 1. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- BISMARCK, NORTH DAKOTA

JAN		TOT OBS=711	FEB		TOT OBS=647	MAR		TOT OBS=713
I N S O L A T I O N	>360-	0: 0: 0: 0: 0: 0: 0: 0:		>360-	0: 0: 0: 0: 0: 0: 0: 0:		>360-	0: 0: 0: 0: 0: 0: 0: 0:
	I 360-	0: 0: 0: 0: 0: 0: 0: 0:		I 360-	0: 0: 0: 0: 0: 0: 0: 0:		I 360-	0: 0: 0: 0: 0: 0: 0: 0:
	N 300-	0: 0: 0: 0: 0: 0: 0: 0:		N 300-	0: 0: 0: 0: 0: 0: 0: 0:		N 300-	0: 0: 0: 0: 0: 0: 0: 0:
	S 240-	0: 0: 0: 0: 0: 0: 0: 0:		S 240-	0: 0: 0: 0: 0: 0: 0: 0:		S 240-	1: 0: 0: 0: 0: 0: 0: 0:
	O 180-	0: 0: 0: 0: 0: 0: 0: 0:		O 180-	0: 0: 0: 0: 0: 0: 0: 0:		O 180-	143: 54: 11: 6: 5: 3: 2: 0:
	L 120-	0: 0: 0: 0: 0: 0: 0: 0:		L 120-	118: 19: 4: 1: 2: 0: 0: 0:		L 120-	177: 52: 23: 14: 2: 2: 0: 1:
	60-	310: 39: 10: 1: 0: 0: 0: 0:		60-	329: 45: 13: 4: 1: 0: 0: 0:		60-	101: 35: 16: 5: 3: 0: 1: 0:
	0-	283: 44: 16: 4: 4: 0: 0: 0:		0-	86: 11: 9: 2: 2: 1: 0: 0:		0-	26: 17: 4: 4: 1: 1: 1: 2:
	0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700
	WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY	
APR		TOT OBS=689	MAY		TOT OBS=713	JUN		TOT OBS=690
I N S O L A T I O N	>360-	0: 0: 0: 0: 0: 0: 0: 0:		>360-	0: 0: 0: 0: 0: 0: 0: 0:		>360-	5: 2: 1: 0: 1: 0: 0: 0:
	I 360-	6: 7: 1: 0: 0: 0: 0: 0:		I 360-	147: 61: 30: 7: 4: 1: 0: 0:		I 360-	227: 72: 19: 11: 4: 0: 0: 0:
	N 300-	132: 55: 29: 7: 6: 0: 3: 1:		N 300-	78: 60: 21: 15: 6: 4: 2: 1:		N 300-	88: 32: 11: 4: 1: 2: 0: 0:
	S 240-	72: 30: 22: 10: 5: 1: 2: 1:		S 240-	44: 24: 17: 7: 4: 2: 1: 0:		S 240-	48: 17: 6: 3: 0: 0: 0: 0:
	O 180-	57: 32: 25: 8: 4: 0: 1: 2:		O 180-	28: 18: 9: 2: 0: 1: 1: 1:		O 180-	37: 22: 6: 1: 0: 0: 0: 0:
	L 120-	39: 28: 17: 5: 7: 1: 0: 2:		L 120-	28: 27: 13: 3: 1: 0: 0: 1:		L 120-	36: 16: 2: 2: 0: 0: 0: 0:
	60-	33: 18: 12: 4: 1: 1: 2: 0:		60-	12: 17: 8: 6: 1: 0: 0: 0:		60-	5: 7: 0: 1: 0: 1: 0: 0:
	0-	0		0-	0		0-	0
	0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700
	WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY	
JUL		TOT OBS=743	AUG		TOT OBS=744	SEP		TOT OBS=720
I N S O L A T I O N	>360-	3: 0: 0: 0: 0: 0: 0: 0:		>360-	0: 0: 0: 0: 0: 0: 0: 0:		>360-	0: 0: 0: 0: 0: 0: 0: 0:
	I 360-	302: 66: 28: 5: 0: 0: 0: 0:		I 360-	81: 18: 7: 2: 0: 0: 0: 0:		I 360-	0: 0: 0: 0: 0: 0: 0: 0:
	N 300-	121: 49: 15: 1: 0: 0: 0: 0:		N 300-	292: 67: 19: 3: 3: 0: 0: 0:		N 300-	59: 17: 6: 2: 0: 0: 0: 0:
	S 240-	59: 16: 3: 3: 0: 0: 0: 0:		S 240-	94: 31: 11: 0: 0: 0: 0: 0:		S 240-	222: 79: 25: 5: 1: 2: 0: 0:
	O 180-	36: 7: 1: 0: 0: 0: 0: 0:		O 180-	35: 18: 3: 1: 1: 1: 0: 0:		O 180-	89: 46: 16: 6: 3: 2: 0: 0:
	L 120-	17: 5: 1: 0: 0: 0: 0: 0:		L 120-	32: 9: 3: 0: 0: 0: 1: 0:		L 120-	59: 19: 8: 1: 1: 1: 1: 1:
	60-	4: 1: 0: 0: 0: 0: 0: 0:		60-	9: 3: 0: 0: 0: 0: 0: 0:		60-	33: 11: 2: 0: 1: 0: 1: 1:
	0-	0		0-	0		0-	0
	0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700
	WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY	
OCT		TOT OBS=743	NOV		TOT OBS=720	DEC		TOT OBS=713
I N S O L A T I O N	>360-	0: 0: 0: 0: 0: 0: 0: 0:		>360-	0: 0: 0: 0: 0: 0: 0: 0:		>360-	0: 0: 0: 0: 0: 0: 0: 0:
	I 360-	0: 0: 0: 0: 0: 0: 0: 0:		I 360-	0: 0: 0: 0: 0: 0: 0: 0:		I 360-	0: 0: 0: 0: 0: 0: 0: 0:
	N 300-	0: 0: 0: 0: 0: 0: 0: 0:		N 300-	0: 0: 0: 0: 0: 0: 0: 0:		N 300-	0: 0: 0: 0: 0: 0: 0: 0:
	S 240-	11: 4: 1: 0: 0: 0: 0: 0:		S 240-	0: 0: 0: 0: 0: 0: 0: 0:		S 240-	0: 0: 0: 0: 0: 0: 0: 0:
	O 180-	291: 67: 23: 10: 2: 2: 1: 0:		O 180-	2: 0: 0: 0: 0: 0: 0: 0:		O 180-	0: 0: 0: 0: 0: 0: 0: 0:
	L 120-	149: 29: 14: 7: 3: 2: 2: 0:		L 120-	320: 54: 15: 9: 5: 3: 1: 0:		L 120-	188: 22: 1: 1: 0: 0: 0: 0:
	60-	82: 25: 11: 5: 2: 0: 0: 0:		60-	227: 53: 21: 5: 2: 2: 1: 0:		60-	416: 57: 16: 6: 6: 0: 0: 0:
	0-	0		0-	0		0-	0
	0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700		0	0 100 200 300 400 500 600 700 >700
	WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY	

TABLE C- 2. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- BISMARCK, NORTH DAKOTA

JAN		TOT OBS=711	FEB		TOT OBS=647	MAR		TOT OBS=713
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0
O 180	0	0	0	0	0	0	0	0
L 120	226	65	30	16	9	9	2	3
60	161	81	48	19	18	7	7	10
0	0	100	200	300	400	500	600	700 >700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
APR		TOT OBS=689	MAY		TOT OBS=713	JUN		TOT OBS=690
>360	0	0	0	0	0	0	0	0
I 360	5	0	21	1	0	0	0	0
N 300	97	63	37	16	7	4	6	3
S 240	48	34	26	11	14	6	1	3
O 180	36	34	25	11	15	4	1	3
L 120	26	21	22	9	7	4	4	6
60	17	18	11	10	5	3	3	4
0	0	100	200	300	400	500	600	700 >700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
JUL		TOT OBS=743	AUG		TOT OBS=744	SEP		TOT OBS=720
>360	2	1	0	0	0	0	0	0
I 360	265	89	32	11	3	1	0	0
N 300	106	53	19	8	0	0	0	0
S 240	46	26	4	2	2	1	0	0
O 180	23	19	1	1	0	0	0	0
L 120	11	9	2	1	0	0	0	0
60	2	3	0	0	0	0	0	0
0	0	100	200	300	400	500	600	700 >700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
OCT		TOT OBS=743	NOV		TOT OBS=720	DEC		TOT OBS=713
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	11	4	0	1	0	0	0	0
O 180	229	101	27	18	9	4	5	3
L 120	100	49	21	11	12	5	2	6
60	50	25	20	14	5	6	1	4
0	0	100	200	300	400	500	600	700 >700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		

TABLE C- 3. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- CHICAGO, ILLINOIS

JAN										FEB										MAR									
TOT OBS=775										TOT OBS=706										TOT OBS=774									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	5	2	0	0	0	0	0	0	
O 180	0	0	0	0	0	0	0	0	0	20	2	3	2	0	0	0	0	0	0	185	53	11	10	0	0	0	0	0	
L 120	16	1	0	0	0	0	0	0	0	173	52	16	5	2	1	0	0	0	0	120	33	6	5	6	2	1	0	0	
60	328	53	12	5	1	0	0	0	0	158	46	5	5	1	1	1	0	0	0	145	34	21	3	4	1	0	1	0	
0	287	50	13	7	1	1	0	0	0	163	32	14	2	2	0	0	0	0	0	73	21	7	2	1	0	0	0	0	
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
APR										MAY										JUN									
TOT OBS=750										TOT OBS=775										TOT OBS=750									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	27	5	1	0	0	0	0	0	0	200	41	10	6	1	0	0	0	0	0	287	43	7	2	1	0	0	0	0	
N 300	171	39	18	5	1	3	0	0	0	116	45	5	2	1	1	0	0	0	0	138	29	7	3	0	0	0	0	0	
S 240	78	37	11	6	4	1	2	1	0	66	23	7	1	0	0	0	0	0	0	84	20	4	1	0	0	0	0	0	
O 180	87	23	16	9	3	1	4	0	0	90	29	7	3	1	0	0	0	0	0	63	13	0	0	0	0	0	0	0	
L 120	104	46	13	4	3	1	2	0	0	82	24	6	2	0	0	1	0	0	0	32	13	2	1	0	0	0	0	0	
60	7	8	3	2	0	2	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0 100 200 300 400 500 600 700 >700									0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
JUL										AUG										SEP									
TOT OBS=775										TOT OBS=775										TOT OBS=750									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	239	34	2	0	0	0	0	0	0	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N 300	220	21	3	1	0	0	0	0	0	375	21	4	0	0	0	0	0	0	0	70	2	0	0	0	0	0	0		
S 240	100	14	2	0	0	0	0	0	0	177	15	1	1	0	0	0	0	0	0	321	36	2	2	0	1	0	0		
O 180	88	5	1	0	0	0	0	0	0	84	7	0	0	0	0	0	0	0	0	134	23	1	1	0	0	0	0		
L 120	41	3	0	0	0	0	0	0	0	64	6	1	0	0	0	0	0	0	0	110	17	5	0	0	0	0	0		
60	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	20	3	2	0	0	0	0	0		
0	0 100 200 300 400 500 600 700 >700									0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
OCT										NOV										DEC									
TOT OBS=775										TOT OBS=750										TOT OBS=744									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
S 240	53	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	0		
O 180	343	59	7	1	1	0	0	0	0	51	12	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
L 120	160	17	7	2	2	0	0	0	0	291	62	10	4	3	0	0	0	0	0	246	40	3	2	0	0	0	0		
60	97	17	2	2	0	0	0	0	0	241	51	14	4	3	1	1	0	0	0	381	56	8	4	3	1	0	0		
0	0 100 200 300 400 500 600 700 >700									0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									

TABLE C-4. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- CHICAGO, ILLINOIS

JAN										FEB										MAR										
TOT OBS=775										TOT OBS=706										TOT OBS=774										
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	6	3	1	1	0	0	0	0	0	
S 240	0	0	0	0	0	0	0	0	0	16	5	1	1	2	2	0	0	0	0	113	79	34	15	7	8	3	0	0	0	
O 180	7	6	4	0	0	0	0	0	0	109	71	30	22	10	4	1	2	0	0	64	52	26	12	5	4	4	6	0	0	
L 120	184	105	56	30	11	5	4	4	0	93	66	29	13	4	5	4	3	0	0	85	51	32	17	10	4	5	5	0	0	
60	169	91	41	25	12	4	8	9	0	95	62	19	14	15	5	1	2	0	0	33	36	17	6	4	1	2	3	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL										
APR										MAY										JUN										
TOT OBS=750										TOT OBS=775										TOT OBS=750										
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	21	9	2	1	0	0	0	0	0	171	50	23	6	5	2	1	0	0	0	257	63	12	4	3	0	1	0	0	0	
N 300	125	68	18	12	7	4	0	3	0	86	53	23	4	1	2	1	0	0	0	117	37	16	5	2	0	0	0	0	0	
S 240	55	34	27	11	5	3	1	4	0	46	32	11	6	2	0	0	0	0	0	69	33	2	4	1	0	0	0	0	0	
O 180	53	39	18	12	9	3	3	6	0	62	42	12	7	4	2	1	0	0	0	55	15	5	1	0	0	0	0	0	0	
L 120	64	52	31	16	3	3	2	4	0	68	25	12	5	3	1	0	1	0	0	29	12	4	3	0	0	0	0	0	0	
60	4	5	5	3	1	1	1	2	0	1	1	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL										
JUL										AUG										SEP										
TOT OBS=775										TOT OBS=775										TOT OBS=750										
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	225	41	7	2	0	0	0	0	0	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N 300	203	35	3	3	0	1	0	0	0	341	48	10	1	0	0	0	0	0	0	63	8	1	0	0	0	0	0	0	0	
S 240	92	21	2	1	0	0	0	0	0	156	33	3	2	0	0	0	0	0	0	274	68	13	3	3	0	0	1	0	0	
O 180	76	15	3	0	0	0	0	0	0	71	17	2	1	0	0	0	0	0	0	101	42	10	5	1	0	0	0	0	0	
L 120	33	9	2	0	0	0	0	0	0	59	8	2	1	1	0	0	0	0	0	91	23	12	4	1	1	0	0	0	0	
60	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	16	4	3	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	0	0	0	0	0	0	0	0	0	0	0	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL										
OCT										NOV										DEC										
TOT OBS=775										TOT OBS=750										TOT OBS=744										
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240	41	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
O 180	259	102	33	11	4	1	0	1	0	38	16	9	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
L 120	109	45	15	11	3	1	3	1	0	195	95	45	14	9	5	3	4	0	0	144	84	40	9	5	5	2	2	0	0	
60	61	33	14	6	1	1	2	0	0	138	81	43	20	12	6	5	10	0	0	200	141	52	31	11	6	4	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	0	0	0	0	0	0	0	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL										

TABLE C- 5. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- CLEVELAND, OHIO

JAN										FEB										MAR									
TOT OBS=775										TOT OBS=707										TOT OBS=774									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360-	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	
O 180-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	37	12	4	0	1	0	0	0	
L 120-	0	0	0	0	0	0	0	0	0	113	23	5	2	0	2	0	0	0	0	115	25	18	6	4	1	0	0	0	
60-	193	44	17	7	2	1	0	0	0	170	64	10	2	2	3	0	0	0	0	163	63	21	6	5	0	3	0	0	
0-	353	115	29	11	1	2	0	0	0	221	67	17	3	2	1	0	0	0	0	96	42	10	5	4	0	1	2	0	
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
APR										MAY										JUN									
TOT OBS=750										TOT OBS=775										TOT OBS=749									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	3	0	0	0	0	0	0	0	0	123	15	5	1	0	0	0	0	0	0	213	13	3	0	0	0	0	0	0	
N 300-	169	31	7	4	0	1	0	0	0	169	38	15	2	1	3	1	0	0	0	167	32	6	5	0	0	0	0	0	
S 240-	96	37	9	3	1	0	0	0	0	99	36	5	6	0	0	0	0	0	0	105	23	4	1	0	0	0	0	0	
O 180-	94	43	17	6	4	2	0	0	0	84	33	7	1	1	1	0	0	0	0	98	17	4	0	0	0	0	0	0	
L 120-	90	59	21	7	4	4	0	0	0	91	18	7	1	0	0	0	0	0	0	43	9	2	1	0	0	0	0	0	
60-	21	7	4	3	2	0	1	0	0	7	3	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	
0-	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
JUL										AUG										SEP									
TOT OBS=775										TOT OBS=775										TOT OBS=750									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	117	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	0		
N 300-	299	29	2	0	0	0	0	0	0	313	17	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	
S 240-	143	24	4	0	0	0	0	0	0	190	17	3	0	0	0	0	0	0	0	322	16	3	0	0	0	0	0	0	
O 180-	80	16	1	0	0	0	0	0	0	122	13	1	0	0	0	0	0	0	0	164	22	2	0	0	0	0	0	0	
L 120-	47	5	1	0	0	0	0	0	0	65	8	0	0	0	0	0	0	0	0	144	16	1	1	0	0	0	0	0	
60-	2	0	0	0	0	0	0	0	0	5	0	0	0	1	0	0	0	0	0	39	4	0	0	0	0	0	0	0	
0-	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
OCT										NOV										DEC									
TOT OBS=775										TOT OBS=741										TOT OBS=742									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
S 240-	40	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	0		
O 180-	308	42	7	1	0	0	0	0	0	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
L 120-	177	42	6	1	0	0	0	0	0	245	57	4	2	2	1	1	0	0	0	133	32	5	1	0	0	0	0	0	
60-	122	19	0	1	1	0	0	0	0	310	76	22	8	0	2	0	0	0	0	433	108	23	4	2	1	0	0	0	
0-	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									

TABLE C- 6. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- CLEVELAND, OHIO

JAN										FEB										MAR									
TOT OBS=775										TOT OBS=707										TOT OBS=774									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0
O 180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	39	20	11	4	2	1	2		
L 120	0	0	0	0	0	0	0	0	0	84	30	12	13	1	2	1	2			79	36	16	18	10	4	4	2		
60	117	74	31	16	12	7	2	5		97	59	57	17	6	6	2	7			94	82	39	17	13	6	3	7		
0	184	140	88	39	32	12	9	7		112	85	50	33	13	8	4	6			54	46	22	16	8	5	4	5		
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
APR										MAY										JUN									
TOT OBS=750										TOT OBS=775										TOT OBS=749									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	3	0	0	0	0	0	0	0	0	115	19	9	1	0	0	0	0	0	0	200	25	3	1	0	0	0	0	0	0
N 300	145	45	10	7	3	0	1	1		135	60	20	8	2	0	2	2			146	42	15	5	2	0	0	0	0	0
S 240	68	47	18	6	4	3	0	0		86	37	12	7	3	1	0	0			92	34	5	1	1	0	0	0	0	0
O 180	70	40	27	15	4	3	4	3		70	36	13	4	2	2	0	0			85	26	7	1	0	0	0	0	0	0
L 120	57	54	36	16	8	6	3	5		74	29	9	2	3	0	0	0			32	17	3	1	1	1	0	0	0	0
60	14	10	4	3	4	1	1	1		3	5	1	3	0	0	0	0			1	2	0	0	0	0	0	0	0	0
0																													
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
JUL										AUG										SEP									
TOT OBS=775										TOT OBS=775										TOT OBS=750									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	113	9	0	0	0	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 300	286	39	5	0	0	0	0	0	0	303	26	1	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
S 240	125	37	8	1	0	0	0	0	0	182	22	6	0	0	0	0	0	0	0	300	31	7	3	0	0	0	0	0	0
O 180	66	27	4	0	0	0	0	0	0	106	27	2	0	1	0	0	0	0	0	127	46	14	1	0	0	0	0	0	0
L 120	43	8	1	0	1	0	0	0	0	78	13	2	0	0	0	0	0	0	0	120	36	10	0	1	1	0	0	0	0
60	1	1	0	0	0	0	0	0	0	5	0	0	0	0	1	0	0	0	0	27	16	4	2	0	0	0	0	0	0
0																													
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
OCT										NOV										DEC									
TOT OBS=775										TOT OBS=741										TOT OBS=742									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240	31	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O 180	254	76	22	5	0	0	0	1		7	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L 120	123	61	30	7	4	1	0	0		171	79	35	13	6	2	1	5			75	50	17	18	9	1	1	0	0	0
60	78	44	14	2	3	0	1	1		169	117	62	31	13	9	8	9			227	171	75	52	19	12	8	7		
0																													
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									

TABLE C- 7. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- COLUMBIA, MISSOURI

JAN		TOT OBS=711	FEB		TOT OBS=648	MAR		TOT OBS=708
>360	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360	:	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 300	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	51: 13: 3: 1: 0: 0: 0: 0:		
S 240	:	0: 0: 0: 0: 0: 0: 0: 0:	:	46: 10: 6: 1: 0: 0: 0: 0:	:	192: 46: 7: 2: 3: 1: 0: 0:		
O 180	:	97: 11: 2: 0: 0: 0: 0: 0:	:	225: 39: 5: 2: 0: 0: 0: 0:	:	86: 37: 11: 1: 1: 1: 0: 0:		
L 120	:	303: 36: 6: 2: 1: 0: 0: 0:	:	112: 27: 7: 2: 1: 0: 0: 0:	:	98: 28: 7: 6: 2: 0: 0: 0:		
60	:	220: 29: 4: 0: 0: 0: 0: 0:	:	141: 22: 2: 0: 0: 0: 0: 0:	:	81: 23: 5: 1: 0: 1: 0: 0:		
0	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700		
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
APR		TOT OBS=687	MAY		TOT OBS=712	JUN		TOT OBS=662
>360	:	0: 0: 0: 0: 0: 0: 0: 0:	:	1: 1: 0: 0: 0: 0: 0: 0:	:	19: 4: 2: 0: 0: 0: 0: 0:		
I 360	:	49: 10: 1: 1: 1: 0: 0: 0:	:	236: 27: 3: 1: 0: 0: 0: 0:	:	279: 24: 1: 0: 0: 0: 0: 0:		
N 300	:	169: 56: 14: 4: 1: 2: 1: 0:	:	123: 26: 2: 0: 0: 0: 0: 0:	:	139: 9: 1: 0: 0: 0: 0: 0:		
S 240	:	64: 37: 5: 2: 1: 0: 0: 0:	:	103: 10: 4: 0: 0: 0: 0: 0:	:	77: 6: 1: 1: 0: 0: 0: 0:		
O 180	:	71: 23: 7: 3: 2: 0: 0: 0:	:	79: 2: 4: 0: 0: 0: 0: 0:	:	58: 3: 0: 0: 0: 0: 0: 0:		
L 120	:	64: 27: 11: 4: 1: 0: 0: 0:	:	59: 9: 2: 0: 0: 0: 0: 0:	:	25: 5: 0: 0: 0: 0: 0: 0:		
60	:	31: 16: 8: 0: 0: 1: 0: 0:	:	16: 4: 0: 0: 0: 0: 0: 0:	:	7: 1: 0: 0: 0: 0: 0: 0:		
0	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700		
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
JUL		TOT OBS=741	AUG		TOT OBS=741	SEP		TOT OBS=719
>360	:	8: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360	:	345: 7: 0: 0: 0: 0: 0: 0:	:	115: 2: 1: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
N 300	:	197: 6: 0: 0: 0: 0: 0: 0:	:	369: 9: 0: 0: 0: 0: 0: 0:	:	148: 5: 0: 0: 0: 0: 0: 0:		
S 240	:	93: 3: 0: 0: 0: 0: 0: 0:	:	128: 1: 0: 0: 0: 0: 0: 0:	:	291: 15: 0: 0: 0: 0: 0: 0:		
O 180	:	52: 0: 1: 0: 0: 0: 0: 0:	:	62: 0: 0: 0: 0: 0: 0: 0:	:	118: 0: 0: 0: 0: 0: 0: 0:		
L 120	:	26: 0: 0: 0: 0: 0: 0: 0:	:	43: 0: 0: 0: 0: 0: 0: 0:	:	96: 3: 0: 0: 0: 0: 0: 0:		
60	:	3: 0: 0: 0: 0: 0: 0: 0:	:	11: 0: 0: 0: 0: 0: 0: 0:	:	40: 3: 0: 0: 0: 0: 0: 0:		
0	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700		
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
OCT		TOT OBS=741	NOV		TOT OBS=716	DEC		TOT OBS=711
>360	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360	:	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 300	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
S 240	:	224: 13: 2: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
O 180	:	262: 19: 3: 0: 1: 0: 0: 0:	:	201: 26: 1: 2: 0: 0: 0: 0:	:	13: 0: 0: 0: 0: 0: 0: 0:		
L 120	:	99: 11: 2: 0: 1: 0: 0: 0:	:	225: 29: 10: 3: 0: 0: 0: 0:	:	354: 34: 7: 2: 0: 0: 0: 0:		
60	:	96: 8: 0: 0: 0: 0: 0: 0:	:	181: 30: 6: 1: 0: 1: 0: 0:	:	262: 30: 6: 2: 1: 0: 0: 0:		
0	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700	:	0: 100 200 300 400 500 600 700 >700		
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY

TABLE C- 8. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- COLUMBIA, MISSOURI

JAN		TOT OBS=711	FEB		TOT OBS=648	MAR		TOT OBS=708
>360-	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	0	0	0	0	0	0	0	0
O 180-	69	29	6	6	0	0	0	0
L 120-	216	83	29	10	5	3	0	2
60-	140	64	25	17	4	1	1	1
0-	0	0	0	0	0	0	0	0
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
APR		TOT OBS=687	MAY		TOT OBS=712	JUN		TOT OBS=662
>360-	0	0	0	0	0	0	0	0
I 360-	39	14	5	3	1	0	0	0
N 300-	122	89	15	11	4	3	1	2
S 240-	48	35	14	8	3	0	1	0
O 180-	42	35	18	6	2	2	0	1
L 120-	42	33	14	11	4	2	1	0
60-	19	16	14	4	1	1	0	1
0-	0	0	0	0	0	0	0	0
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
JUL		TOT OBS=741	AUG		TOT OBS=741	SEP		TOT OBS=719
>360-	8	0	0	0	0	0	0	0
I 360-	332	18	1	1	0	0	0	0
N 300-	187	15	1	0	0	0	0	0
S 240-	85	11	0	0	0	0	0	0
O 180-	50	2	1	0	0	0	0	0
L 120-	26	0	0	0	0	0	0	0
60-	3	0	0	0	0	0	0	0
0-	0	0	0	0	0	0	0	0
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
OCT		TOT OBS=741	NOV		TOT OBS=716	DEC		TOT OBS=711
>360-	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	206	28	5	0	0	0	0	0
O 180-	221	53	6	3	1	1	0	0
L 120-	76	20	10	4	2	0	0	1
60-	66	30	7	1	0	0	0	0
0-	0	0	0	0	0	0	0	0
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		

- DAYTON, OHIO

WIND POWER-DAY

TABLE C-10. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- DAYTON, OHIO

JAN										FEB										MAR									
TOT OBS=772										TOT OBS=705										TOT OBS=771									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	2	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	115	56	29	10	4	5	0	0	0	0
O 180	9	5	3	1	0	0	0	1	0	136	59	27	12	9	1	0	3	81	49	22	13	6	3	0	3	0	3	0	3
L 120	181	101	41	23	8	3	1	4	108	59	31	13	9	5	1	4	105	71	36	22	9	5	1	6	0	0	0	0	0
60	195	91	49	27	18	6	0	5	88	70	30	17	10	5	2	5	41	22	14	14	6	2	3	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	0	0	0	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
APR										MAY										JUN									
TOT OBS=749										TOT OBS=772										TOT OBS=746									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	6	2	0	0	0	0	0	0	0	117	25	3	3	1	0	0	0	180	19	4	0	1	0	0	0	0	0	0	0
N 300	155	53	17	7	4	1	2	0	172	48	10	5	0	1	0	0	189	43	6	2	2	0	0	0	0	0	0	0	0
S 240	76	43	17	7	2	2	3	1	83	34	11	6	0	0	0	0	114	25	6	1	0	0	0	0	0	0	0	0	0
O 180	51	37	24	11	3	2	3	0	83	39	12	7	0	0	0	0	76	27	4	2	0	0	0	0	0	0	0	0	0
L 120	77	54	29	15	11	4	3	2	67	26	8	2	0	0	0	0	26	15	2	0	0	0	0	0	0	0	0	0	0
60	11	7	2	1	3	0	0	1	5	4	0	0	0	0	0	0	1	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
JUL										AUG										SEP									
TOT OBS=773										TOT OBS=774										TOT OBS=749									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	100	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	0	0	0
N 300	297	13	3	0	0	0	0	0	0	343	19	1	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0
S 240	139	24	1	0	0	0	0	0	0	189	21	3	1	0	0	0	0	341	30	3	0	0	0	0	0	0	0	0	0
O 180	103	12	2	2	0	0	0	0	0	110	15	4	3	0	0	0	0	123	23	5	2	1	0	0	0	0	0	0	0
L 120	45	2	1	0	0	0	0	0	0	56	5	1	1	0	0	0	0	120	24	3	1	0	0	0	0	0	0	0	0
60	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	17	7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
OCT										NOV										DEC									
TOT OBS=774										TOT OBS=750										TOT OBS=739									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O 180	92	14	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	0	0
L 120	294	58	9	3	1	1	0	0	50	14	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	141	38	13	2	0	0	0	0	220	86	37	13	6	1	1	1	157	77	36	11	9	3	2	1	0	0	0	0	0
0	65	27	9	2	2	1	0	0	145	85	47	16	13	3	3	5	226	113	59	29	8	5	1	2	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									

TABLE C-11. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- DES MOINES, IOWA

JAN									FEB									MAR													
TOT OBS=774									TOT OBS=707									TOT OBS=770													
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	15	1	1	1	0	0	0	0	0	0	0	
O 180	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	187	65	23	9	6	4	0	0	1	0	0	0	0
L 120	35	6	2	0	0	0	0	0	247	77	21	6	0	5	0	0	0	0	80	48	17	6	2	2	2	2	2	0	0	0	0
60	341	69	24	6	2	2	0	0	116	38	7	1	0	2	0	1	0	0	112	43	18	6	3	1	2	1	0	0	0	0	0
0	227	38	13	4	4	1	0	0	141	27	2	2	2	1	1	0	0	41	18	9	5	6	0	1	2	0	0	0	0	0	
0	0	100	200	300	400	500	600	700	0	100	200	300	400	500	600	700	0	100	200	300	400	500	600	700							
WIND POWER-DAY									WIND POWER-DAY									WIND POWER-DAY													
APR									MAY									JUN													
TOT OBS=748									TOT OBS=775									TOT OBS=750													
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	34	18	5	4	1	1	0	0	193	69	33	8	4	2	1	0	0	313	85	18	1	2	0	1	0	0	0	0	0		
N 300	149	78	24	20	6	3	1	3	80	35	12	7	1	3	0	0	0	85	28	9	2	1	0	0	0	0	0	0	0		
S 240	56	28	12	5	2	0	1	2	67	38	7	5	1	1	0	0	0	71	20	3	2	0	0	0	0	0	0	0	0		
O 180	51	32	19	7	1	1	2	2	88	35	9	3	1	1	0	1	1	49	16	5	1	0	0	0	0	0	0	0	0		
L 120	72	50	14	7	5	2	0	3	35	17	7	1	1	0	0	0	0	28	8	0	0	0	0	0	0	0	0	0	0		
60	14	8	3	0	0	0	0	2	4	2	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
0	0	100	200	300	400	500	600	700	0	100	200	300	400	500	600	700	0	100	200	300	400	500	600	700							
WIND POWER-DAY									WIND POWER-DAY									WIND POWER-DAY													
JUL									AUG									SEP													
TOT OBS=774									TOT OBS=774									TOT OBS=750													
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	358	41	5	1	0	0	0																								

TABLE C-12. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- DES MOINES, IOWA

JAN		TOT OBS=774	FEB		TOT OBS=707	MAR		TOT OBS=770
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	0: 0: 0: 0: 0: 0: 0: 0:		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 300-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:	19: 18: 5: 1: 2: 1: 0: 0:		
S 240-	0: 0: 0: 0: 0: 0: 0: 0:		10: 0: 0: 0: 0: 0: 0: 0:		10: 0: 0: 0: 0: 0: 0: 0:	126: 93: 32: 17: 10: 7: 3: 7:		
O 180-	21: 14: 4: 1: 1: 0: 2: 0:		176: 86: 42: 24: 15: 5: 3: 5:		176: 86: 42: 24: 15: 5: 3: 5:	55: 42: 31: 14: 9: 5: 0: 5:		
L 120-	217: 125: 42: 23: 16: 13: 2: 6:		63: 50: 31: 11: 4: 3: 0: 3:		63: 50: 31: 11: 4: 3: 0: 3:	69: 46: 36: 13: 7: 6: 5: 4:		
60-	137: 76: 27: 20: 10: 6: 3: 8:		80: 51: 24: 11: 2: 2: 0: 6:		80: 51: 24: 11: 2: 2: 0: 6:	19: 20: 12: 10: 6: 6: 3: 6:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
APR		TOT OBS=746	MAY		TOT OBS=775	JUN		TOT OBS=750
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	28: 19: 7: 5: 2: 1: 1: 0:		163: 85: 34: 18: 4: 3: 2: 1:		163: 85: 34: 18: 4: 3: 2: 1:	279: 100: 33: 5: 1: 1: 0: 1:		
N 300-	117: 65: 53: 21: 16: 5: 3: 4:		63: 42: 18: 5: 2: 4: 1: 3:		63: 42: 18: 5: 2: 4: 1: 3:	75: 32: 14: 3: 0: 1: 0: 0:		
S 240-	40: 26: 18: 7: 9: 4: 1: 1:		47: 49: 11: 7: 1: 2: 1: 1:		47: 49: 11: 7: 1: 2: 1: 1:	57: 27: 8: 3: 1: 0: 0: 0:		
O 180-	33: 28: 19: 16: 11: 4: 1: 3:		67: 41: 13: 12: 2: 1: 2: 0:		67: 41: 13: 12: 2: 1: 2: 0:	35: 27: 5: 4: 0: 0: 0: 0:		
L 120-	28: 63: 28: 8: 14: 6: 3: 3:		30: 15: 6: 7: 1: 1: 1: 0:		30: 15: 6: 7: 1: 1: 1: 0:	24: 9: 2: 1: 0: 0: 0: 0:		
60-	6: 12: 4: 2: 3: 0: 0: 0:		4: 1: 1: 1: 1: 1: 0: 0:		4: 1: 1: 1: 1: 1: 0: 0:	2: 0: 0: 0: 0: 0: 0: 0:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
JUL		TOT OBS=774	AUG		TOT OBS=774	SEP		TOT OBS=750
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	334: 61: 7: 3: 0: 0: 0: 0:		69: 17: 2: 0: 0: 0: 0: 0:		69: 17: 2: 0: 0: 0: 0: 0:	0: 0: 0: 0: 0: 0: 0: 0:		
N 300-	139: 34: 5: 1: 0: 1: 0: 0:		340: 52: 8: 2: 0: 0: 0: 0:		340: 52: 8: 2: 0: 0: 0: 0:	152: 38: 8: 0: 1: 0: 0: 0:		
S 240-	75: 20: 2: 0: 0: 0: 0: 0:		103: 24: 5: 0: 1: 0: 0: 0:		103: 24: 5: 0: 1: 0: 0: 0:	200: 59: 17: 2: 1: 1: 0: 0:		
O 180-	48: 10: 1: 0: 0: 0: 0: 0:		77: 11: 1: 0: 0: 0: 0: 0:		77: 11: 1: 0: 0: 0: 0: 0:	78: 24: 3: 3: 0: 0: 0: 0:		
L 120-	28: 5: 0: 0: 0: 0: 0: 0:		51: 8: 2: 0: 0: 0: 0: 0:		51: 8: 2: 0: 0: 0: 0: 0:	105: 25: 8: 0: 1: 0: 0: 0:		
60-	0: 0: 0: 0: 0: 0: 0: 0:		1: 0: 0: 0: 0: 0: 0: 0:		1: 0: 0: 0: 0: 0: 0: 0:	16: 7: 1: 0: 0: 0: 0: 0:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
OCT		TOT OBS=763	NOV		TOT OBS=749	DEC		TOT OBS=742
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	0: 0: 0: 0: 0: 0: 0: 0:		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 300-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:	0: 0: 0: 0: 0: 0: 0: 0:		
S 240-	116: 40: 16: 7: 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: 0: 0: 0:		
O 180-	206: 98: 22: 9: 4: 1: 0: 1:		78: 38: 15: 8: 0: 2: 0: 2:		78: 38: 15: 8: 0: 2: 0: 2:	0: 0: 0: 0: 0: 0: 0: 0:		
L 120-	100: 35: 16: 6: 3: 4: 1: 1:		198: 97: 34: 14: 9: 5: 3: 8:		198: 97: 34: 14: 9: 5: 3: 8:	196: 106: 42: 22: 12: 6: 5: 3:		
60-	41: 16: 9: 1: 3: 1: 2: 0:		104: 73: 24: 14: 7: 6: 3: 7:		104: 73: 24: 14: 7: 6: 3: 7:	179: 95: 39: 17: 4: 8: 4: 4:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		

TABLE C-13. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- DODGE CITY, KANSAS

JAN		TOT OBS=712	FEB		TOT OBS=649	MAR		TOT OBS=713
>360-	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	0	0	0	0	0	0	0	0
O 180-	181	45	9	1	2	0	0	0
L 120-	255	78	17	13	7	0	0	0
60-	71	18	7	6	2	0	0	0
0-	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
APR		TOT OBS=689	MAY		TOT OBS=713	JUN		TOT OBS=690
>360-	0	0	1	0	0	0	0	0
I 360-	101	53	12	13	4	5	1	0
N 300-	94	62	37	25	18	10	2	2
S 240-	33	23	19	14	7	2	3	1
O 180-	27	11	11	6	4	3	3	0
L 120-	23	14	8	4	3	2	1	1
60-	9	5	5	4	1	2	0	0
0-	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
JUL		TOT OBS=743	AUG		TOT OBS=744	SEP		TOT OBS=720
>360-	7	5	4	1	0	0	0	0
I 360-	261	144	46	16	6	1	2	0
N 300-	89	30	15	5	0	0	0	0
S 240-	46	16	2	1	0	0	0	0
O 180-	22	3	2	0	0	0	0	0
L 120-	12	4	0	0	1	0	0	0
60-	1	1	0	0	0	0	0	0
0-	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
OCT		TOT OBS=743	NOV		TOT OBS=719	DEC		TOT OBS=710
>360-	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	247	101	27	10	3	0	0	0
O 180-	129	48	19	9	3	1	1	0
L 120-	46	22	9	2	2	0	0	0
60-	38	15	7	3	0	1	0	0
0-	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		

TABLE C-14. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- DODGE CITY, KANSAS

JAN									FEB									MAR								
TOT OBS=712									TOT OBS=649									TOT OBS=713								
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	47	26	27	6	6	5	5	5
S 240	0	0	0	0	0	0	0	0	47	59	23	13	8	2	1	1	65	91	61	26	20	12	6	17	17	17
O 180	95	81	37	9	9	3	2	2	93	95	65	25	12	14	5	17	18	23	16	18	9	7	5	14	14	14
L 120	124	97	61	40	18	9	6	15	31	26	10	6	13	5	2	9	20	17	15	4	5	3	4	13	13	13
60	30	27	18	11	3	4	2	9	20	21	9	3	5	5	0	4	7	24	10	6	3	5	5	4	4	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	0	0	0
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL								
APR									MAY									JUN								
TOT OBS=689									TOT OBS=713									TOT OBS=690								
>360	0	0	0	1	0	0	0	0	5	7	2	0	1	0	1	0	27	35	18	13	6	0	0	1	1	1
I 360	46	65	30	21	10	6	6	5	84	116	75	42	28	17	9	9	95	102	79	45	29	8	8	7	7	7
M 300	44	55	40	37	22	21	13	18	27	22	24	20	7	6	4	4	27	34	15	22	9	3	2	4	4	4
S 240	17	20	18	16	8	9	3	11	19	21	15	12	7	2	2	3	10	15	14	2	3	0	1	2	2	2
O 180	16	10	11	6	7	5	2	8	10	17	12	4	4	0	2	3	13	11	6	2	1	0	0	0	0	0
L 120	14	9	11	6	4	4	4	4	12	18	12	5	0	2	0	1	5	5	5	2	0	0	0	0	0	0
60	4	5	2	3	3	2	2	5	5	4	6	2	2	1	0	0	0	2	0	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	0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL								
JUL									AUG									SEP								
TOT OBS=743									TOT OBS=744									TOT OBS=720								
>360	6	4	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	162	170	85	37	7	12	0	3	107	78	47	11	1	3	0	1	0	1	0	0	0	0	0	0	0	0
M 300	63	43	17	10	6	0	0	0	121	114	49	25	5	1	3	0	137	105	68	48	19	8	3	4	4	4
S 240	27	19	15	3	1	0	0	0	45	25	15	3	3	0	0	0	55	46	29	19	6	5	4	0	0	0
O 180	17	8	0	2	0	0	0	0	30	17	4	1	0	0	0	0	27	23	10	5	3	5	1	1	1	1
L 120	9	4	3	0	0	1	0	0	11	13	2	0	0	0	0	0	21	11	12	3	1	0	0	1	1	1
60	1	0	1	0	0	0	0	0	6	0	3	0	0	0	0	0	16	13	5	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	0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL								
OCT									NOV									DEC								
TOT OBS=743									TOT OBS=719									TOT OBS=710								
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240	153	108	64	33	19	7	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O 180	72	56	35	23	8	8	3	5	161	126	60	43	21	14	3	5	12	4	2	1	0	1	0	1	1	1
L 120	20	30	13	11	2	4	0	1	55	40	26	18	11	7	10	8	181	194	75	32	25	10	9	9	9	9
60	16	18	15	2	4	4	2	3	32	29	19	16	8	3	2	2	46	35	22	19	10	12	5	5	5	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	0	0	0
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL								

TABLE C-15. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- FARGO, NORTH DAKOTA

JAN		TOT OBS=775	FEB		TOT OBS=707	MAR		TOT OBS=775
>360-	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	0	0	0	0	0	0	0	0
O 180-	0	0	0	0	0	0	0	0
L 120-	0	0	0	0	0	0	0	0
60-	298	50	3	0	1	0	0	0
0-	275	27	30	16	14	1	0	0
C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
APR		TOT OBS=750	MAY		TOT OBS=775	JUN		TOT OBS=749
>360-	0	0	0	0	0	0	0	0
I 360-	15	5	2	1	0	0	0	0
N 300-	145	69	22	15	5	6	3	4
S 240-	55	36	16	16	9	3	0	1
O 180-	57	29	16	11	4	2	2	2
L 120-	65	40	36	16	8	3	2	5
60-	9	7	4	0	1	2	2	3
C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
JUL		TOT OBS=775	AUG		TOT OBS=775	SEP		TOT OBS=750
>360-	0	0	0	0	0	0	0	0
I 360-	27	73	23	7	4	0	0	0
N 300-	124	47	12	3	3	0	0	0
S 240-	73	24	7	2	1	0	0	0
O 180-	40	14	1	1	1	0	0	0
L 120-	14	3	0	0	1	0	0	0
60-	0	0	0	0	0	0	0	0
C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
OCT		TOT OBS=775	NOV		TOT OBS=750	DEC		TOT OBS=743
>360-	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	16	5	4	1	0	1	0	0
O 180-	229	84	41	13	7	3	0	0
L 120-	162	49	24	12	5	3	2	0
60-	63	26	12	7	2	3	1	0
C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700	C		100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY

TABLE C-16. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- FARGO, NORTH DAKOTA

[illegible]

TABLE C-17. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- FORT WAYNE, INDIANA

JAN		TOT OBS=774	FEB		TOT OBS=704	MAR		TOT OBS=770
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0
O 180	0	0	0	0	0	0	0	0
L 120	252	72	25	4	1	0	1	0
60	310	74	22	6	4	2	0	0
0	0	0	0	0	0	0	0	0
		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
APR		TOT OBS=749	MAY		TOT OBS=774	JUN		TOT OBS=747
>360	0	0	0	0	0	0	0	0
I 360	3	1	1	0	0	0	0	0
N 300	155	42	8	5	0	2	0	0
S 240	76	45	18	2	3	4	1	0
O 180	82	52	18	7	1	3	1	1
L 120	101	48	19	12	7	2	1	0
60	13	8	3	0	1	0	1	0
0	0	0	0	0	0	0	0	0
		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
JUL		TOT OBS=774	AUG		TOT OBS=774	SEP		TOT OBS=748
>360	0	0	0	0	0	0	0	0
I 360	31	8	0	0	0	0	0	0
N 300	308	27	3	0	0	0	0	0
S 240	156	23	1	0	0	0	0	0
O 180	91	19	1	0	0	0	0	0
L 120	48	7	0	0	0	0	0	0
60	3	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
OCT		TOT OBS=775	NOV		TOT OBS=749	DEC		TOT OBS=741
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	33	1	1	0	0	0	0	0
O 180	315	64	14	2	0	0	0	0
L 120	185	32	9	5	0	0	0	0
60	88	18	6	2	0	0	0	0
0	0	0	0	0	0	0	0	0
		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY

TABLE C-19. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- GOODLAND, KANSAS

JAN								FEB								MAR								
TOT OBS=775								TOT OBS=707								TOT OBS=775								
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	45	20	5	4	3	0	0	0
S 240	0	0	0	0	0	0	0	110	30	10	2	2	0	0	0	168	80	25	14	7	4	3	1	1
O 180	200	44	9	6	1	2	0	244	59	26	9	5	4	2	0	50	35	11	6	6	3	4	1	1
L 120	293	61	25	7	6	3	1	70	19	8	8	1	0	1	0	59	13	9	9	3	2	3	0	0
60	70	26	12	1	2	5	1	48	21	16	3	5	1	3	0	36	10	9	2	4	1	5	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	0	0
WIND POWER-DAY								WIND POWER-DAY								WIND POWER-DAY								
APR								MAY								JUN								
TOT OBS=750								TOT OBS=774								TOT OBS=749								
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	24	13	7	1	2	2	0	0
I 360	104	49	19	11	4	2	1	242	108	35	15	9	7	2	0	224	127	42	19	5	3	2	1	1
N 300	134	66	43	19	11	4	9	59	37	17	10	5	4	1	0	47	26	13	8	4	1	2	0	0
S 240	41	17	23	5	7	4	2	32	30	9	9	1	0	0	1	35	14	9	0	0	0	0	0	0
O 180	26	22	6	7	2	1	4	42	4	9	5	1	1	0	2	15	9	2	1	1	2	0	0	0
L 120	32	20	12	4	4	1	3	26	22	9	1	3	0	1	0	8	6	2	1	1	0	0	0	0
60	4	9	4	2	2	1	1	4	4	2	2	1	1	0	1	1	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	0	0	0	0	0	0	0	0
WIND POWER-DAY								WIND POWER-DAY								WIND POWER-DAY								
JUL								AUG								SLP								
TOT OBS=775								TOT OBS=774								TOT OBS=750								
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	362	123	34	6	3	1	0	185	67	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0
N 300	101	32	14	2	0	0	0	223	91	19	8	0	0	1	0	242	66	19	4	2	1	0	0	0
S 240	45	10	4	1	0	0	0	57	24	5	0	1	0	0	0	168	58	12	7	0	0	0	0	0
O 180	22	2	1	0	0	0	0	28	12	3	0	0	0	0	0	48	12	3	1	2	0	0	0	0
L 120	6	4	0	0	0	0	0	27	5	1	0	0	0	0	0	53	19	2	2	0	0	0	0	0
60	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	19	9	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	0	0	0	0	0	0	0
WIND POWER-DAY								WIND POWER-DAY								WIND POWER-DAY								
OCT								NOV								DEC								
TOT OBS=775								TOT OBS=750								TOT OBS=743								
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240	249	49	16	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O 180	220	68	16	2	6	0	0	302	70	23	9	5	1	1	0	0	0	0	0	0	0	0	0	0
L 120	55	23	7	2	3	1	0	157	46	20	8	1	2	0	0	441	107	34	12	6	3	0	0	0
60	27	13	3	4	3	0	0	67	21	5	3	3	5	1	0	95	20	17	3	2	3	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WIND POWER-DAY								WIND POWER-DAY								WIND POWER-DAY								

TABLE C-20. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- GOODLAND, KANSAS

JAN									TOT OBS=775									FEB									TOT OBS=707									MAR									TOT OBS=775								
>360-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:																				
I 360-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								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 300-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								46: 63: 39: 11: 12: 10: 1: 6:								95: 82: 60: 23: 14: 4: 9: 15:																				
S 240-	0: 0: 0: 0: 0: 0: 0: 0:								73: 41: 22: 8: 6: 2: 0: 2:								136: 124: 38: 19: 13: 9: 3: 7:								24: 32: 14: 12: 9: 6: 6: 13:								25: 31: 15: 5: 4: 7: 5: 6:																				
O 180-	109: 108: 28: 6: 5: 4: 1: 1:								40: 28: 17: 7: 5: 6: 1: 3:								26: 25: 11: 11: 10: 3: 2: 9:								14: 18: 9: 7: 5: 3: 2: 13:																												
L 120-	178: 109: 52: 22: 15: 4: 6: 10:																																																				
60-	40: 30: 13: 9: 8: 2: 6: 9:																																																				
0-																																																					
0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700																		
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL																	
APR									TOT OBS=750									MAY									TOT OBS=774									JUN									TOT OBS=749								
>360-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								42: 37: 10: 13: 6: 2: 2: 3:								136: 139: 84: 33: 13: 8: 3: 7:								23: 33: 23: 11: 2: 4: 3: 2:																				
I 360-	56: 62: 28: 20: 10: 6: 4: 3:								145: 126: 78: 31: 15: 6: 5: 12:								30: 37: 28: 15: 9: 6: 5: 3:								21: 22: 21: 7: 5: 4: 1: 1:								30: 16: 2: 4: 6: 4: 2: 0:																				
N 300-	56: 93: 50: 32: 15: 17: 8: 14:								15: 18: 14: 10: 2: 1: 0: 2:								1: 4: 2: 2: 2: 1: 3: 0:								11: 7: 4: 3: 2: 1: 1: 1:								7: 4: 2: 3: 1: 1: 0: 0:																				
S 240-	22: 22: 16: 6: 13: 4: 4: 8:								1: 4: 2: 2: 2: 1: 3: 0:								1: 1: 0: 1: 0: 0: 0: 1:																																				
O 180-	9: 24: 13: 6: 7: 1: 5: 7:																																																				
L 120-	13: 22: 14: 10: 8: 2: 1: 6:																																																				
60-	3: 2: 7: 2: 2: 3: 1: 3:																																																				
0-																																																					
0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700																		
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL																	
JUL									TOT OBS=775									AUG									TOT OBS=774									SEP									TOT OBS=750								
>360-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:																				
I 360-	209: 139: 89: 26: 10: 5: 1: 0:								114: 102: 38: 9: 2: 1: 1: 0:								151: 109: 49: 23: 6: 2: 1: 1:								41: 20: 21: 4: 0: 1: 0: 0:								19: 19: 3: 1: 1: 0: 0: 0:																				
N 300-	66: 53: 22: 5: 3: 0: 0: 0:								16: 15: 2: 0: 0: 0: 0: 0:								1: 0: 1: 0: 0: 0: 0: 0:								36: 15: 7: 1: 3: 2: 2: 0:								29: 26: 12: 5: 2: 2: 0: 0:																				
S 240-	28: 20: 10: 1: 0: 1: 0: 0:								1: 0: 1: 0: 0: 0: 0: 0:								8: 9: 6: 2: 4: 0: 0: 0:																																				
O 180-	17: 5: 3: 0: 0: 0: 0: 0:																																																				
L 120-	7: 2: 3: 0: 0: 0: 0: 0:																																																				
60-	0: 0: 0: 0: 0: 0: 0: 0:																																																				
0-																																																					
0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700																		
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL																	
OCT									TOT OBS=775									NOV									TOT OBS=750									DEC									TOT OBS=743								
>360-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:																				
I 360-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								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 300-	0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:								0: 0: 0: 0: 0: 0: 0: 0:																				
S 240-	177: 87: 29: 15: 6: 6: 1: 1:								0: 0: 0: 0: 0: 0: 0: 0:								198: 128: 40: 28: 7: 3: 4: 3:								0: 0: 0: 0: 0: 0: 0: 0:								253: 205: 74: 31: 16: 12: 5: 7:																				
O 180-	138: 106: 33: 17: 11: 2: 3: 2:								86: 70: 42: 14: 13: 3: 4: 2:								41: 22: 13: 10: 3: 2: 4: 10:								53: 36: 17: 14: 9: 2: 4: 5:																												
L 120-	33: 25: 14: 5: 6: 4: 1: 3:																																																				
60-	14: 14: 7: 7: 2: 1: 1: 4:																																																				
0-																																																					
0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700																		
WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL									WIND POWER-TOTAL																	

TABLE C-21. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- GRAND ISLAND, NEBRASKA

JAN		TOT OBS=772	FEB		TOT OBS=707	MAR		TOT OBS=770
>360-	0: 0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	0: 0: 0: 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 300-	0: 0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0: 0:			52: 24: 8: 3: 0: 0: 0: 0: 0:		
S 240-	0: 0: 0: 0: 0: 0: 0: 0: 0:		25: 4: 3: 1: 0: 0: 0: 0: 0:			187: 66: 22: 18: 10: 6: 3: 2:		
O 180-	75: 17: 3: 1: 0: 0: 0: 0: 0:		275: 73: 15: 7: 5: 0: 1: 0: 0:			53: 38: 18: 11: 2: 4: 2: 4:		
L 120-	367: 74: 25: 6: 2: 3: 1: 0: 0:		106: 37: 7: 2: 1: 2: 1: 0: 0:			86: 34: 19: 12: 3: 2: 3: 2:		
60-	127: 47: 12: 5: 2: 1: 4: 0: 0:		93: 28: 12: 6: 1: 1: 1: 0: 0:			30: 16: 11: 8: 2: 4: 3: 2:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
APR		TOT OBS=750	MAY		TOT OBS=771	JUN		TOT OBS=747
>360-	0: 0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	57: 31: 13: 8: 4: 2: 0: 0: 0:		199: 102: 46: 13: 7: 1: 0: 0: 0:			261: 127: 58: 18: 9: 1: 1: 0: 0:		
N 300-	136: 74: 33: 23: 15: 6: 3: 2: 2:		53: 45: 19: 6: 7: 0: 2: 0: 0:			73: 27: 15: 6: 1: 1: 0: 0: 0:		
S 240-	51: 23: 16: 15: 4: 4: 2: 2: 2:		47: 25: 9: 7: 1: 1: 2: 0: 0:			39: 22: 6: 1: 1: 0: 0: 0: 0:		
O 150-	35: 25: 17: 10: 5: 4: 2: 0: 0:		57: 28: 11: 3: 2: 0: 1: 0: 0:			33: 15: 3: 0: 0: 0: 0: 0: 0:		
L 120-	41: 32: 14: 5: 2: 5: 1: 1: 1:		21: 30: 7: 4: 0: 2: 0: 0: 0:			13: 7: 3: 2: 0: 2: 0: 0: 0:		
60-	8: 7: 7: 1: 2: 1: 0: 0: 1:		6: 4: 1: 1: 1: 0: 0: 0: 0:			1: 0: 0: 0: 0: 1: 0: 0: 0:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
JUL		TOT OBS=767	AUG		TOT OBS=771	SEP		TOT OBS=746
>360-	0: 0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	336: 109: 22: 5: 1: 0: 0: 0: 0:		123: 28: 5: 0: 1: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
N 300-	111: 32: 5: 0: 0: 0: 0: 0: 0:		274: 96: 16: 3: 1: 0: 0: 0: 0:			140: 57: 11: 5: 1: 0: 0: 0: 0:		
S 240-	67: 12: 1: 0: 0: 0: 0: 0: 0:		96: 16: 4: 1: 0: 0: 0: 0: 0:			201: 76: 19: 4: 0: 1: 0: 0: 0:		
O 180-	43: 6: 0: 0: 0: 0: 0: 0: 0:		48: 11: 3: 0: 0: 0: 0: 0: 0:			60: 28: 6: 1: 1: 1: 0: 0: 0:		
L 120-	12: 5: 0: 0: 0: 0: 0: 0: 0:		35: 6: 1: 0: 0: 0: 0: 0: 0:			84: 20: 2: 0: 0: 0: 0: 0: 0:		
60-	0: 0: 0: 0: 0: 0: 0: 0: 0:		2: 1: 0: 0: 0: 0: 0: 0: 0:			24: 3: 1: 0: 0: 0: 0: 0: 0:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
OCT		TOT OBS=774	NOV		TOT OBS=749	DEC		TOT OBS=741
>360-	0: 0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	0: 0: 0: 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 300-	0: 0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
S 240-	179: 59: 8: 5: 1: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
O 180-	228: 57: 27: 8: 1: 2: 0: 0: 0:		149: 33: 9: 3: 0: 1: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0: 0:		
L 120-	98: 24: 12: 3: 0: 1: 1: 0: 0:		258: 81: 26: 11: 3: 0: 0: 0: 0:			402: 67: 20: 6: 2: 3: 1: 0: 0:		
60-	43: 9: 6: 1: 1: 0: 0: 0: 0:		117: 36: 13: 4: 2: 2: 1: 0: 0:			174: 42: 13: 4: 6: 0: 1: 0: 0:		
0-	0 100 200 300 400 500 600 700 >700		0 100 200 300 400 500 600 700 >700			0 100 200 300 400 500 600 700 >700		
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		

TABLE C-22. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- GRAND ISLAND, NEBRASKA

JAN										FEB										MAR									
TOT OBS=772										TOT OBS=707										TOT OBS=770									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360-	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	26	9	9	3	3	1	0	0	
O 180-	0	0	0	0	0	0	0	0	0	16	9	5	2	1	0	0	0	0	0	116	90	42	20	17	12	6	11	0	
L 120-	48	30	10	4	1	3	0	0	0	166	111	51	21	11	7	1	8	0	0	29	42	18	10	10	11	3	9	0	
60-	219	145	64	17	12	7	5	9	0	69	35	31	5	7	2	4	3	0	0	51	41	20	17	11	9	2	10	0	
0-	71	50	31	19	7	4	7	9	0	57	26	21	9	14	4	2	9	0	0	16	16	11	8	4	5	2	14	0	
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
APR										MAY										JUN									
TOT OBS=750										TOT OBS=771										TOT OBS=747									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	35	38	15	9	8	5	0	5	0	141	102	62	41	11	4	6	1	0	0	191	142	66	42	18	11	3	2	0	
N 300-	83	77	49	29	20	14	5	15	0	36	33	35	10	8	5	3	2	0	0	53	36	21	6	3	3	1	0	0	
S 240-	24	34	18	16	9	6	3	7	0	28	27	20	7	5	0	1	4	0	0	31	18	12	5	1	2	0	0	0	
O 180-	23	24	14	11	7	7	3	9	0	41	29	14	11	3	3	0	1	0	0	26	17	6	2	0	0	0	0	0	
L 120-	18	24	21	16	8	2	4	6	0	14	17	18	8	1	4	1	1	0	0	7	11	2	3	0	2	2	0	0	
60-	1	7	6	3	4	1	1	4	0	3	3	5	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
JUL										AUG										SEP									
TOT OBS=767										TOT OBS=771										TOT OBS=746									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	263	135	48	21	4	2	0	0	0	95	44	11	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N 300-	93	36	15	3	1	0	0	0	0	215	117	41	14	2	1	0	0	0	0	113	59	25	6	8	2	1	0	0	
S 240-	50	24	6	0	0	0	0	0	0	81	25	8	1	1	1	0	0	0	0	163	73	42	17	4	1	0	1	0	
O 180-	34	14	1	0	0	0	0	0	0	38	17	5	2	0	0	0	0	0	0	44	32	12	5	2	0	1	1	0	
L 120-	8	8	0	1	0	0	0	0	0	26	12	3	1	0	0	0	0	0	0	54	38	12	1	1	0	0	0	0	
60-	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	18	7	2	1	0	0	0	0	0	
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
OCT										NOV										DEC									
TOT OBS=774										TOT OBS=749										TOT OBS=741									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
S 240-	135	68	31	10	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
O 180-	181	70	35	19	12	1	3	2	0	108	55	17	9	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	
L 120-	58	43	19	8	6	2	1	2	0	151	125	48	22	12	10	8	3	0	0	272	138	42	24	10	7	3	5	0	
60-	28	13	5	4	5	1	0	4	0	73	32	31	18	6	8	2	5	0	0	97	68	28	18	6	10	4	9	0	
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									

TABLE C-23. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- GRAND RAPIDS, MICHIGAN

JAN										FEB										MAR									
TOT OBS=775										TOT OBS=707										TOT OBS=775									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0
O 180-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188	22	2	1	0	0	0	0	0	0
L 120-	0	0	0	0	0	0	0	0	0	177	6	0	0	0	0	0	0	0	0	139	16	5	4	1	0	0	0	0	0
60-	217	10	0	0	0	0	0	0	0	213	19	3	1	0	0	0	0	0	0	189	35	7	2	0	3	1	0	0	0
0-	489	53	2	2	1	1	0	0	0	247	32	5	0	2	0	2	0	0	0	101	28	1	3	0	1	1	0	0	0
0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
APR										MAY										JUN									
TOT OBS=750										TOT OBS=775										TOT OBS=750									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	24	2	1	0	0	0	0	0	0	221	17	3	1	0	0	0	0	0	0	321	11	2	0	0	0	0	0	0	0
N 300-	216	30	4	2	0	0	0	1	0	139	19	2	1	1	0	0	0	0	0	140	12	0	1	0	0	0	0	0	0
S 240-	95	21	5	0	0	0	0	0	0	94	15	2	0	0	0	0	0	0	0	88	7	0	0	0	0	0	0	0	0
O 180-	89	25	3	0	1	0	1	0	0	113	15	3	1	1	0	0	0	0	0	108	4	0	0	0	0	0	0	0	0
L 120-	136	41	15	6	0	1	0	0	0	101	14	1	1	0	0	0	0	0	0	52	2	0	0	0	0	0	0	0	0
60-	22	13	2	3	0	0	1	0	0	7	2	1	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
JUL										AUG										SEP									
TOT OBS=774										TOT OBS=775										TOT OBS=750									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	229	6	0	0	0	0	0	0	0	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N 300-	259	7	3	0	0	0	0	0	0	382	8	0	0	0	0	0	0	0	0	47	2	0	0	0	0	0	0	0	0
S 240-	117	3	0	0	0	0	0	0	0	158	5	1	0	0	0	0	0	0	0	313	10	1	1	0	0	0	0	0	0
O 180-	89	4	0	0	0	0	0	0	0	103	3	0	0	0	0	0	0	0	0	163	6	2	0	0	0	0	0	0	0
L 120-	57	1	0	0	0	0	0	0	0	89	1	0	0	0	0	0	0	0	0	159	4	0	0	0	0	0	0	0	0
60-	2	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	40	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
OCT										NOV										DEC									
TOT OBS=775										TOT OBS=750										TOT OBS=743									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240-	54	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	0	0	0
O 180-	312	17	2	0	0	0	0	0	0	18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L 120-	208	15	5	0	0	0	0	0	0	253	25	5	0	0	0	0	0	0	0	164	5	0	1	0	0	0	0	0	0
60-	146	11	1	0	0	0	0	0	0	403	33	3	2	2	1	2	0	0	0	547	21	2	2	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	0	0	0	0	0	0	0	0	0	0	0
0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700		0	100	200	300	400	500	600	700	>700	
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									

TABLE C-24. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- GRAND RAPIDS, MICHIGAN

JAN		TOT OBS=775	FEB		TOT OBS=707	MAR		TOT OBS=775
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0
O 180	0	0	0	0	0	0	0	0
L 120	171	40	14	2	0	0	0	0
60	313	153	48	23	4	1	2	4
0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700
APR		TOT OBS=750	MAY		TOT OBS=775	JUN		TOT OBS=750
>360	0	0	0	0	0	0	0	0
I 360	24	2	0	1	0	0	0	0
N 300	190	53	6	2	1	0	0	1
S 240	62	38	7	2	1	1	0	0
O 180	74	25	16	2	1	0	0	1
L 120	107	54	21	7	8	0	1	1
60	15	12	8	3	2	0	0	1
0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700
JUL		TOT OBS=774	AUG		TOT OBS=775	SEP		TOT OBS=750
>360	0	0	0	0	0	0	0	0
I 360	227	7	1	0	0	0	0	0
N 300	247	16	1	2	0	0	0	0
S 240	114	6	0	0	0	0	0	0
O 180	83	10	0	0	0	0	0	0
L 120	54	4	0	0	0	0	0	0
60	2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700
OCT		TOT OBS=775	NOV		TOT OBS=750	DEC		TOT OBS=743
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	49	7	0	0	0	0	0	0
O 180	290	35	5	1	0	0	0	0
L 120	176	42	6	4	0	0	0	0
60	124	29	2	5	0	0	0	0
0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700	WIND POWER-TOTAL		0 100 200 300 400 500 600 700 >700

TABLE C-25. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- GREEN BAY, WISCONSIN

JAN		TOT OBS=774	FEB		TOT OBS=707	MAR		TOT OBS=762
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
H 360	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0
O 120	0	0	0	0	0	0	0	0
L 120	300	76	10	2	0	0	0	0
60	307	57	18	4	1	0	1	0
0	0	100	200	300	400	500	600	700
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
APR		TOT OBS=750	MAY		TOT OBS=773	JUN		TOT OBS=748
>360	0	0	0	0	0	0	0	0
I 360	9	2	0	1	0	0	0	0
H 360	166	55	21	5	1	2	1	0
S 240	105	37	10	6	0	1	1	0
O 120	74	27	7	5	2	1	0	0
L 120	110	46	18	4	1	1	0	1
60	16	13	5	2	1	0	0	1
0	0	100	200	300	400	500	600	700
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
JUL		TOT OBS=773	AUG		TOT OBS=770	SEP		TOT OBS=746
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
H 360	203	34	3	1	0	0	0	0
S 240	206	34	2	5	0	0	0	0
O 120	117	25	3	0	1	0	0	0
L 120	99	11	2	0	0	0	0	0
60	40	5	0	0	0	0	0	0
0	0	100	200	300	400	500	600	700
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		
OCT		TOT OBS=774	NOV		TOT OBS=745	DEC		TOT OBS=741
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
H 360	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0
O 120	245	76	12	3	1	0	0	0
L 120	191	42	14	0	0	1	0	0
60	147	27	5	2	0	0	0	0
0	0	100	200	300	400	500	600	700
WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY		

TABLE C-26. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- GREEN BAY, WISCONSIN

JAN										FEB										MAR									
TOT OBS=774										TOT OBS=707										TOT OBS=762									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0
O 180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183	51	28	12	6	3	1	0	0	0
L 120	0	0	0	0	0	0	0	0	0	158	55	33	13	9	1	1	2	0	0	87	35	30	9	5	2	1	2	0	0
60	169	116	57	23	13	5	1	2	0	103	60	25	16	4	6	3	2	0	0	105	53	29	9	10	3	0	3	0	0
0	187	99	45	31	12	7	3	4	0	100	52	32	13	10	2	1	6	0	0	34	19	7	7	8	7	5	5	0	0
0	0	100	200	300	400	500	600	700	>700	0	0	100	200	300	400	500	600	700	>700	0	0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
APR										MAY										JUN									
TOT OBS=750										TOT OBS=773										TOT OBS=748									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	138	39	14	5	2	1	0	0	0	0	213	57	13	1	2	0	0	0	0	0
S 240	132	67	27	15	4	2	2	2	0	160	44	22	9	2	2	1	0	0	0	112	45	14	4	2	0	0	0	0	0
O 180	79	45	20	8	2	4	0	0	0	69	47	18	4	0	2	0	0	0	0	68	26	6	1	0	0	0	0	0	0
L 120	52	30	13	8	5	3	3	0	0	64	38	11	8	3	0	1	0	0	0	100	17	6	1	0	0	1	0	0	0
60	70	52	27	14	7	3	0	2	0	64	36	12	5	2	1	0	1	0	0	42	9	2	2	0	0	0	0	0	0
0	7	12	6	7	3	1	2	0	0	5	0	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
0	0	100	200	300	400	500	600	700	>700	0	0	100	200	300	400	500	600	700	>700	0	0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
JUL										AUG										SEP									
TOT OBS=773										TOT OBS=770										TOT OBS=746									
>360	0	0																											

TABLE C-27. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- MADISON, WISCONSIN

JAN										TOT OBS=711										FEB										TOT OBS=645										MAR										TOT OBS=712									
>360-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
I 360-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 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 300-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
S 240-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										13: 9: 0: 0: 0: 0: 0: 0: 0:																			
O 180-										0: 0: 0: 0: 0: 0: 0: 0: 0:										1: 1: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										204: 47: 12: 4: 1: 0: 1: 0:																			
L 120-										2: 0: 0: 0: 0: 0: 0: 0: 0:										217: 44: 18: 2: 1: 1: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										123: 29: 6: 4: 0: 0: 0: 0: 0:																			
60-										365: 48: 6: 0: 0: 1: 0: 0: 0:										179: 43: 1: 2: 1: 1: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										106: 37: 8: 2: 1: 0: 1: 2:																			
0-										247: 32: 7: 3: 0: 0: 0: 0: 0:										108: 20: 3: 0: 0: 1: 1: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										78: 13: 6: 4: 1: 0: 0: 0: 0:																			
0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700									
WIND POWER-DAY																				WIND POWER-DAY																				WIND POWER-DAY																			
APR										TOT OBS=689										MAY										TOT OBS=712										JUN										TOT OBS=689									
>360-										0: 0: 0: 0: 0: 0: 0: 0: 0:										1: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										14: 3: 0: 0: 0: 0: 0: 0: 0:																			
I 360-										19: 5: 2: 0: 1: 0: 0: 0: 0:										154: 39: 7: 0: 1: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										216: 43: 4: 2: 0: 0: 0: 0: 0:																			
N 300-										147: 58: 13: 5: 1: 3: 0: 0: 0:										123: 48: 9: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										123: 18: 6: 0: 0: 0: 0: 0: 0:																			
S 240-										66: 23: 12: 2: 1: 1: 2: 0: 0:										77: 28: 4: 3: 0: 1: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										87: 15: 3: 0: 1: 0: 0: 0: 0:																			
O 180-										73: 35: 13: 4: 0: 0: 0: 0: 0:										61: 23: 9: 2: 2: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										81: 17: 0: 0: 0: 0: 0: 0: 0:																			
L 120-										72: 36: 15: 7: 1: 0: 1: 1: 1:										52: 24: 3: 1: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										35: 11: 0: 1: 0: 0: 0: 0: 0:																			
60-										38: 21: 9: 1: 1: 0: 0: 0: 0:										28: 10: 1: 0: 1: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										5: 3: 1: 0: 0: 0: 0: 0: 0:																			
0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700									
WIND POWER-DAY																				WIND POWER-DAY																				WIND POWER-DAY																			
JUL										TOT OBS=738										AUG										TOT OBS=742										SEP										TOT OBS=717									
>360-										6: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
I 360-										211: 22: 1: 0: 0: 0: 0: 0: 0:										36: 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: 0:																			
N 300-										209: 27: 6: 0: 0: 0: 0: 0: 0:										337: 19: 1: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										66: 4: 1: 0: 0: 0: 0: 0: 0:																			
S 240-										104: 14: 1: 0: 0: 0: 0: 0: 0:										146: 13: 3: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										285: 36: 6: 1: 0: 0: 0: 0: 0:																			
O 180-										78: 7: 0: 0: 0: 0: 0: 0: 0:										95: 9: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										115: 15: 1: 0: 0: 0: 0: 0: 0:																			
L 120-										42: 4: 0: 0: 0: 0: 0: 0: 0:										67: 5: 1: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										112: 11: 4: 0: 0: 0: 0: 0: 0:																			
60-										5: 1: 0: 0: 0: 0: 0: 0: 0:										7: 1: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										52: 7: 1: 0: 0: 0: 0: 0: 0:																			
0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700									
WIND POWER-DAY																				WIND POWER-DAY																				WIND POWER-DAY																			
OCT										TOT OBS=740										NOV										TOT OBS=717										DEC										TOT OBS=713									
>360-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
I 360-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 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 300-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
S 240-										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
O 180-										45: 5: 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:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
L 120-										293: 53: 6: 2: 0: 0: 0: 0: 0:										29: 5: 1: 0: 1: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:																			
60-										166: 21: 5: 1: 0: 0: 0: 0: 0:										290: 41: 3: 5: 2: 2: 0: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										256: 23: 1: 2: 0: 1: 0: 0:																			
0										124: 13: 4: 0: 1: 0: 0: 0: 0:										282: 36: 12: 7: 0: 0: 1: 0:										0: 0: 0: 0: 0: 0: 0: 0: 0:										398: 28: 3: 1: 0: 0: 0: 0: 0:																			
0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700										0										100 200 300 400 500 600 700 >700									
WIND POWER-DAY																				WIND POWER-DAY																				WIND POWER-DAY																			

TABLE C-28. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- MADISON, WISCONSIN

JAN		TOT OBS=711	FEB		TOT OBS=645	MAR		TOT OBS=712
>360	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360	:	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 300	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	13: 5: 3: 0: 1: 0: 0: 0:		
S 240	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 1: 0: 1: 0: 0: 0: 0:	:	160: 58: 30: 11: 4: 1: 3: 2:		
O 180	:	2: 0: 0: 0: 0: 0: 0: 0:	:	160: 70: 24: 11: 13: 2: 0: 3:	:	74: 55: 15: 7: 5: 4: 1: 1:		
L 120	:	247: 109: 34: 19: 8: 1: 1: 1:	:	127: 56: 29: 9: 1: 4: 0: 1:	:	63: 49: 22: 13: 5: 1: 1: 3:		
60	:	159: 71: 28: 17: 3: 7: 2: 2:	:	67: 33: 19: 7: 2: 1: 1: 3:	:	47: 22: 12: 7: 4: 4: 3: 3:		
0	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
0	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
APR		TOT OBS=689	MAY		TOT OBS=712	JUN		TOT OBS=689
>360	:	0: 0: 0: 0: 0: 0: 0: 0:	:	1: 0: 0: 0: 0: 0: 0: 0:	:	12: 5: 0: 0: 0: 0: 0: 0:		
I 360	:	15: 9: 1: 1: 0: 0: 1: 0:	:	130: 53: 10: 4: 4: 0: 0: 0:	:	208: 45: 8: 3: 1: 0: 0: 0:		
N 300	:	114: 70: 24: 11: 3: 2: 1: 2:	:	99: 55: 19: 6: 1: 0: 0: 0:	:	112: 25: 10: 0: 0: 0: 0: 0:		
S 240	:	49: 29: 15: 7: 4: 0: 1: 2:	:	58: 35: 10: 5: 3: 0: 2: 0:	:	78: 21: 4: 2: 0: 1: 0: 0:		
O 180	:	52: 37: 19: 12: 3: 1: 1: 0:	:	42: 39: 6: 5: 3: 1: 1: 0:	:	72: 20: 6: 0: 0: 0: 0: 0:		
L 120	:	45: 39: 17: 16: 10: 3: 1: 2:	:	40: 23: 13: 3: 1: 0: 0: 0:	:	32: 13: 1: 1: 0: 0: 0: 0:		
60	:	15: 25: 15: 9: 5: 1: 0: 0:	:	14: 19: 4: 1: 0: 2: 0: 0:	:	5: 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: 0: 0: 0: 0: 0: 0: 0:		
0	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
JUL		TOT OBS=738	AUG		TOT OBS=742	SEP		TOT OBS=717
>360	:	4: 2: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360	:	198: 32: 4: 0: 0: 0: 0: 0:	:	32: 6: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
N 300	:	189: 45: 7: 1: 0: 0: 0: 0:	:	312: 41: 4: 0: 0: 0: 0: 0:	:	59: 11: 1: 0: 0: 0: 0: 0:		
S 240	:	95: 19: 4: 1: 0: 0: 0: 0:	:	133: 24: 5: 0: 0: 0: 0: 0:	:	249: 69: 5: 4: 0: 1: 0: 0:		
O 180	:	74: 8: 3: 0: 0: 0: 0: 0:	:	87: 15: 2: 0: 0: 0: 0: 0:	:	97: 27: 5: 2: 0: 0: 0: 0:		
L 120	:	40: 6: 0: 0: 0: 0: 0: 0:	:	61: 10: 1: 1: 0: 0: 0: 0:	:	85: 34: 7: 0: 1: 0: 0: 0:		
60	:	4: 2: 0: 0: 0: 0: 0: 0:	:	6: 2: 0: 0: 0: 0: 0: 0:	:	42: 16: 1: 0: 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: 0: 0: 0: 0:		
0	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
OCT		TOT OBS=740	NOV		TOT OBS=717	DEC		TOT OBS=713
>360	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
I 360	:	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 300	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
S 240	:	33: 15: 2: 1: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
O 180	:	232: 83: 29: 7: 1: 0: 2: 0:	:	20: 11: 3: 1: 0: 0: 1: 0:	:	0: 0: 0: 0: 0: 0: 0: 0:		
L 120	:	124: 44: 14: 8: 1: 2: 0: 0:	:	211: 73: 28: 11: 10: 2: 2: 6:	:	169: 71: 30: 4: 5: 1: 2: 1:		
60	:	92: 28: 14: 3: 3: 0: 0: 2:	:	179: 87: 26: 21: 12: 6: 3: 4:	:	251: 115: 40: 13: 6: 3: 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: 0: 0:		
0	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700	:	0 100 200 300 400 500 600 700 >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		

TABLE C-29. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- MINNEAPOLIS, MINNESOTA

JAN										FEB										MAR									
TOT OBS=771										TOT OBS=707										TOT OBS=775									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
O 180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	265	19	4	0	1	0	0	0	0	
L 120	0	0	0	0	0	0	0	0	0	230	16	6	0	0	0	0	0	0	0	165	27	1	0	0	0	0	0	0	
60	406	19	1	0	0	0	0	0	0	246	24	0	0	1	0	0	0	0	0	158	23	2	0	0	0	0	0	0	
0	320	22	2	0	1	0	0	0	0	165	15	1	2	1	0	0	0	0	0	87	15	6	2	0	0	0	0	0	
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
APR										MAY										JUN									
TOT OBS=750										TOT OBS=775										TOT OBS=750									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	10	2	0	0	0	0	0	0	0	187	31	13	2	0	1	0	0	0	0	275	39	2	0	0	0	0	0		
N 300	216	44	11	6	2	0	0	0	0	137	29	7	3	3	1	0	0	0	0	140	14	4	1	0	0	0	0		
S 240	94	32	11	1	0	0	0	0	0	83	27	5	1	0	0	0	0	0	0	92	14	2	0	0	0	0	0		
O 180	73	21	6	1	0	0	0	0	0	79	21	8	2	1	0	0	0	0	0	86	12	1	0	0	0	0	0		
L 120	131	36	10	3	0	2	0	0	0	86	29	5	1	0	0	0	0	0	0	58	4	1	0	0	0	0	0		
60	21	10	3	2	0	1	1	0	0	9	4	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0		
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
JUL										AUG										SEP									
TOT OBS=775										TOT OBS=775										TOT OBS=750									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	272	19	0	1	0	0	0	0	0	81	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
N 300	226	14	1	0	0	0	0	0	0	399	15	0	0	0	0	0	0	0	0	37	4	0	0	0	0	0	0		
S 240	114	3	0	0	0	0	0	0	0	158	8	0	0	0	0	0	0	0	0	328	28	0	0	0	0	0	0		
O 180	77	4	0	0	0	0	0	0	0	72	5	0	0	0	0	0	0	0	0	133	17	2	0	0	0	0	0		
L 120	36	1	0	0	0	0	0	0	0	90	4	1	0	0	0	0	0	0	0	152	6	1	0	0	0	0	0		
60	1	0	0	0	0	0	0	0	0	9	1	0	0	0	0	0	0	0	0	41	0	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	0	0	0	0	0	0	0	0	0		
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
OCT										NOV										DEC									
TOT OBS=763										TOT OBS=749										TOT OBS=744									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
S 240	17	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	0		
O 180	363	27	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
L 120	170	18	3	1	0	0	0	0	0	359	25	3	0	0	0	0	0	0	0	261	9	2	0	0	0	0	0		
60	137	15	2	0	0	0	0	0	0	327	26	7	1	1	0	0	0	0	0	450	20	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	0	0	0	0	0	0	0	0	0		
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									

TABLE C-30. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- MINNEAPOLIS, MINNESOTA

JAN		TOT OBS=771	FEB		TOT OBS=707	MAR		TOT OBS=775
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	0	0	0	0	0	0	0	0
O 180	0	0	0	0	0	0	0	0
L 120	0	0	0	0	0	0	0	0
60	331	71	14	6	4	0	0	0
0	236	72	28	2	5	1	0	1
	0	100	200	300	400	500	600	700 >700
		WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL
APR		TOT OBS=750	MAY		TOT OBS=775	JUN		TOT OBS=750
>360	0	0	0	0	0	0	0	0
I 360	9	3	0	0	0	0	0	0
N 300	184	58	22	6	5	3	0	1
S 240	71	40	18	7	1	1	0	0
O 180	51	34	11	4	1	0	0	0
L 120	98	54	19	13	3	3	1	1
60	9	16	4	4	1	2	0	2
0	0	0	0	0	0	0	0	0
	0	100	200	300	400	500	600	700 >700
		WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL
JUL		TOT OBS=775	AUG		TOT OBS=775	SEP		TOT OBS=750
>360	0	0	0	0	0	0	0	0
I 360	261	29	1	0	1	0	0	0
N 300	217	21	3	0	0	0	0	0
S 240	106	10	1	0	0	0	0	0
O 180	70	14	1	0	0	0	0	0
L 120	35	4	0	0	0	0	0	0
60	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
	0	100	200	300	400	500	600	700 >700
		WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL
OCT		TOT OBS=763	NOV		TOT OBS=749	DEC		TOT OBS=744
>360	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	0	0	0
N 300	0	0	0	0	0	0	0	0
S 240	14	6	2	0	0	0	0	0
O 180	313	65	9	6	1	0	0	1
L 120	140	37	10	4	1	0	0	0
60	100	34	15	2	3	0	0	0
0	0	0	0	0	0	0	0	0
	0	100	200	300	400	500	600	700 >700
		WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL

TABLE C-31. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- MINOT, NORTH DAKOTA

JAN										FEB										MAR									
TOT OBS=773										TOT OBS=707										TOT OBS=775									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360-	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
O 180-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	51	27	9	2	2	1	0		
L 120-	0	0	0	0	0	0	0	0	0	97	26	11	2	0	4	0	0	0	0	132	72	34	10	10	3	3	1		
60-	197	66	11	4	1	1	0	0	0	214	88	33	14	1	1	2	0	0	0	104	56	24	17	7	3	1	1		
0	330	114	32	12	3	2	0	0	0	130	49	16	10	7	1	1	0	0	0	37	23	15	8	4	0	2	4		
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
APR										MAY										JUN									
TOT OBS=749										TOT OBS=775										TOT OBS=749									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	6	3	5	1	0	0	0	0	0	137	65	37	11	4	3	2	1	0	0	183	92	36	10	5	5	0	1		
N 300-	127	71	36	15	8	3	3	4	0	79	57	34	11	4	1	4	0	0	0	75	36	14	9	3	0	1	2		
S 240-	52	49	27	11	4	3	2	2	0	48	35	19	9	3	1	2	1	0	0	58	33	14	13	0	3	1	2		
O 180-	53	30	17	11	11	3	0	1	0	49	29	19	8	1	4	1	1	0	0	41	36	12	5	0	0	1	0		
L 120-	50	49	26	11	9	4	1	1	0	28	21	19	5	3	1	4	2	0	0	28	13	12	1	1	2	0	1		
60-	6	12	10	6	2	3	0	1	0	2	4	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
JUL										AUG										SEP									
TOT OBS=773										TOT OBS=772										TOT OBS=750									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	242	57	30	14	2	4	0	0	0	61	8	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
N 300-	116	56	19	6	4	0	0	0	0	237	105	33	8	5	1	1	0	0	0	21	15	6	1	0	0	0	0		
S 240-	56	73	12	2	2	0	0	0	0	89	50	22	0	1	0	0	1	0	0	203	100	40	10	3	1	1	0		
O 180-	40	23	3	3	0	1	0	0	0	56	16	5	3	1	0	0	0	0	0	87	35	19	6	1	2	3	0		
L 120-	9	5	5	0	0	0	0	0	0	33	18	5	3	1	0	0	0	0	0	84	35	24	8	2	1	3	0		
60-	1	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	18	9	4	2	2	3	0	1		
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
OCT										NOV										DEC									
TOT OBS=775										TOT OBS=750										TOT OBS=744									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360-	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
S 240-	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
O 180-	214	104	37	9	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
L 120-	166	59	27	9	4	3	0	0	0	232	71	25	10	6	5	1	0	0	0	43	13	2	0	0	0	0	0		
60-	75	26	12	4	5	2	1	0	0	275	79	22	11	7	4	2	0	0	0	508	128	31	8	10	1	0	0		
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									

TABLE C-32. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- MINOT, NORTH DAKOTA

JAN		TOT OBS=773	FEB		TOT OBS=707	MAR		TOT OBS=775
>360-								
I 360-								
N 300-								
S 240-								
O 180-								
L 120-								
60-								
0-								
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
APR		TOT OBS=749	MAY		TOT OBS=775	JUN		TOT OBS=749
>360-								
I 360-								
N 300-								
S 240-								
O 180-								
L 120-								
60-								
0-								
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
JUL		TOT OBS=773	AUG		TOT OBS=772	SEP		TOT OBS=750
>360-								
I 360-								
N 300-								
S 240-								
O 130-								
L 120-								
60-								
0-								
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
OCT		TOT OBS=775	NOV		TOT OBS=750	DEC		TOT OBS=744
>360-								
I 360-								
N 300-								
S 240-								
O 180-								
L 120-								
60-								
0-								
0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		

TABLE C-33. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- NORTH OMAHA, NEBRASKA

JAN		TOT OBS=558	FEB		TOT OBS=508	MAR		TOT OBS=557
>360-								
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	0	0	0	0	0	0	0	0
O 180-	0	0	0	0	0	0	0	0
L 120-	7	0	0	0	0	0	0	0
60-	335	38	12	4	2	0	0	0
0-	131	17	8	3	1	0	0	0
	0	100	200	300	400	500	600	700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
APR		TOT OBS=540	MAY		TOT OBS=558	JUN		TOT OBS=569
>360-								
I 360-	0	0	0	0	0	0	0	0
N 300-	40	11	5	1	1	0	2	0
S 240-	104	40	24	12	6	3	2	0
O 180-	44	26	12	8	2	1	1	1
L 120-	31	24	6	4	3	0	2	0
60-	39	19	11	9	2	0	0	1
0-	17	17	7	0	1	1	0	0
	0	100	200	300	400	500	600	700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
JUL		TOT OBS=589	AUG		TOT OBS=589	SEP		TOT OBS=570
>360-								
I 360-	2	0	0	0	0	0	0	0
N 300-	269	40	0	0	0	0	0	0
S 240-	117	11	0	1	0	0	0	0
O 180-	58	7	1	0	0	0	0	0
L 120-	46	5	1	0	0	0	0	0
60-	27	0	0	0	0	0	0	0
0-	3	1	0	0	0	0	0	0
	0	100	200	300	400	500	600	700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY
OCT		TOT OBS=589	NOV		TOT OBS=570	DEC		TOT OBS=558
>360-								
I 360-	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0
S 240-	0	0	0	0	0	0	0	0
O 180-	132	26	2	0	1	0	0	0
L 120-	191	41	5	2	1	0	0	0
60-	72	15	8	1	1	0	0	0
0-	73	13	1	4	0	0	0	0
	0	100	200	300	400	500	600	700
		WIND POWER-DAY			WIND POWER-DAY			WIND POWER-DAY

TABLE C-34. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- NORTH OMAHA, NEBRASKA

JAN								FEB								MAR							
TOT OBS=556								TOT OBS=508								TOT OBS=557							
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	11	7	3	1	0	0	1
S 240-	0	0	0	0	0	0	0	15	4	3	2	0	0	0	0	97	61	23	15	6	7	3	2
O 180-	5	1	1	0	0	0	0	133	62	24	12	5	5	3	4	61	29	12	10	6	4	3	7
L 120-	220	84	46	15	10	6	4	62	36	15	12	2	2	2	6	39	22	14	8	8	5	1	7
60-	81	28	17	14	8	3	1	46	19	17	11	3	1	0	2	17	20	7	3	2	2	3	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
WIND POWER-TOTAL								WIND POWER-TOTAL								WIND POWER-TOTAL							
APR								MAY								JUN							
TOT OBS=540								TOT OBS=558								TOT OBS=569							
>360-	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	13	1	1	0	0	0	0	0
I 360-	30	19	3	3	2	1	0	109	58	20	11	2	2	0	0	176	68	25	6	3	0	0	0
N 300-	79	43	27	22	9	4	3	53	44	21	9	2	2	0	0	68	30	14	4	0	0	0	0
S 240-	29	26	17	12	5	2	1	34	30	12	6	2	0	1	1	48	17	7	4	0	0	0	0
O 180-	20	21	13	6	2	3	0	25	22	6	4	1	0	0	2	36	14	3	2	1	0	0	0
L 120-	22	19	21	7	3	6	2	19	16	4	6	0	1	0	0	13	5	2	0	1	0	0	0
60-	3	15	14	4	4	1	1	9	7	6	7	1	0	0	0	4	2	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	0	0	0	0	0
WIND POWER-TOTAL								WIND POWER-TOTAL								WIND POWER-TOTAL							
JUL								AUG								SEP							
TOT OBS=589								TOT OBS=589								TOT OBS=570							
>360-	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	242	56	10	1	0	0	0	84	13	2	1	0	0	0	0	0	0	0	0	0	0	0	0
N 300-	98	26	3	1	0	1	0	215	50	13	2	0	0	0	0	100	25	3	1	0	0	0	0
S 240-	52	11	2	1	0	0	0	72	19	2	0	0	0	0	0	151	41	12	2	0	0	0	0
O 180-	41	10	1	0	0	0	0	53	12	5	0	0	0	0	0	52	26	5	2	1	2	0	0
L 120-	23	4	0	0	0	0	0	31	7	0	0	0	0	0	0	64	19	6	2	1	0	0	0
60-	3	0	0	1	0	0	0	6	2	0	0	0	0	0	0	39	11	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	0	0	0	0	0
WIND POWER-TOTAL								WIND POWER-TOTAL								WIND POWER-TOTAL							
OCT								NOV								DEC							
TOT OBS=589								TOT OBS=570								TOT OBS=558							
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240-	113	35	11	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O 180-	149	64	20	4	1	0	1	75	21	9	2	1	0	3	0	0	0	0	0	0	0	0	0
L 120-	54	20	9	6	4	1	2	144	62	32	9	4	3	2	7	207	67	31	12	6	5	3	6
60-	51	19	14	2	1	3	0	82	67	20	7	9	8	0	3	113	57	24	9	5	6	3	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
WIND POWER-TOTAL								WIND POWER-TOTAL								WIND POWER-TOTAL							

TABLE C-36. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- RAPID CITY, SOUTH DAKOTA

JAN										FEB										MAR									
TOT OBS=773										TOT OBS=704										TOT OBS=774									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	6	4	0	1	1	1	1	1	
O 180	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	146	71	34	23	12	20	8	16	16	
L 120	0	0	0	0	0	0	0	0	0	158	62	46	23	8	8	7	12	12	12	72	39	30	21	15	8	6	14	14	
60	293	87	42	25	35	12	8	25	25	132	40	32	18	15	7	3	15	15	15	51	26	26	8	14	8	6	12	12	
0	98	43	20	31	9	11	9	25	25	42	28	12	10	7	3	2	11	11	11	19	15	7	2	1	2	2	11	11	
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
APR										MAY										JUN									
TOT OBS=739										TOT OBS=769										TOT OBS=740									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	32	15	5	0	0	2	0	0	0	136	74	35	22	14	1	5	1	1	1	220	103	54	19	10	2	1	0	0	
N 300	115	64	38	25	12	12	5	5	5	64	52	24	20	16	8	3	2	2	2	60	43	21	5	2	1	2	2	2	
S 240	37	40	26	16	15	9	6	11	11	35	20	22	10	6	6	2	5	5	5	41	25	8	2	2	1	0	1	1	
O 180	27	22	12	12	17	6	4	8	8	32	36	10	3	2	7	3	1	1	1	38	22	8	4	2	0	0	0	0	
L 120	30	19	9	8	7	7	5	16	16	17	21	16	13	5	2	2	4	4	4	17	10	4	4	2	2	1	1	1	
60	14	10	2	3	1	1	4	5	5	1	3	2	1	0	2	1	2	2	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
JUL										AUG										SEP									
TOT OBS=764										TOT OBS=770										TOT OBS=743									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	284	97	40	14	9	2	0	0	0	96	45	9	7	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	
N 300	114	60	19	4	2	0	0	0	0	256	88	34	9	6	3	2	1	1	1	98	33	20	11	5	2	0	1	1	
S 240	38	22	7	0	0	0	0	0	0	68	34	13	6	4	1	1	0	0	0	186	84	44	17	13	4	3	2	2	
O 180	21	13	3	3	1	0	0	0	0	34	12	6	3	1	1	1	0	0	0	42	41	13	15	4	4	3	3	3	
L 120	8	2	1	0	0	0	0	0	0	15	6	3	0	1	0	0	1	1	1	42	12	7	2	3	3	1	3	3	
60	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6	4	5	0	4	3	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
OCT										NOV										DEC									
TOT OBS=774										TOT OBS=750										TOT OBS=742									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I 360	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
S 240	59	14	7	6	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
O 180	258	96	45	27	16	9	12	12	12	39	14	7	3	3	0	0	2	2	2	0	0	0	0	0	0	0	0	0	
L 120	52	27	20	10	11	3	3	12	12	270	86	56	33	27	11	12	22	22	22	296	64	38	20	17	15	7	16	16	
60	19	15	9	5	4	4	3	10	10	64	31	19	11	15	5	4	16	16	16	116	39	34	17	14	17	14	18	18	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									

TABLE C-40. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- SPRINGFIELD, ILLINOIS

JAN		TOT OBS=774	FEB		TOT OBS=707	MAR		TOT OBS=773
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	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 300-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:			15: 14: 5: 6: 2: 1: 0: 1:		
S 240-	0: 0: 0: 0: 0: 0: 0: 0:		21: 15: 16: 6: 4: 2: 1: 1:			92: 56: 41: 29: 18: 6: 7: 14:		
O 180-	23: 21: 16: 10: 0: 1: 1: 2:		102: 78: 58: 41: 10: 8: 4: 6:			33: 42: 38: 21: 13: 5: 2: 9:		
L 120-	134: 110: 71: 40: 16: 10: 8: 3:		45: 41: 32: 13: 12: 5: 4: 5:			53: 57: 37: 25: 12: 10: 6: 17:		
60-	95: 85: 46: 35: 17: 12: 5: 11:		53: 43: 41: 19: 8: 6: 1: 6:			10: 23: 21: 11: 7: 9: 2: 3:		
0-	0: 100: 200: 300: 400: 500: 600: 700: >700		0: 100: 200: 300: 400: 500: 600: 700: >700			0: 100: 200: 300: 400: 500: 600: 700: >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
APR		TOT OBS=747	MAY		TOT OBS=772	JUN		TOT OBS=745
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	26: 16: 1: 2: 2: 0: 0: 0:		170: 72: 28: 11: 11: 4: 1: 0:			281: 73: 20: 5: 1: 2: 1: 0:		
N 300-	90: 75: 46: 18: 15: 6: 2: 7:		62: 46: 22: 20: 6: 3: 2: 0:			93: 46: 11: 2: 1: 0: 0: 0:		
S 240-	29: 29: 26: 16: 14: 6: 3: 4:		47: 32: 14: 7: 6: 5: 1: 0:			66: 23: 12: 2: 2: 1: 0: 0:		
O 180-	29: 32: 29: 6: 12: 4: 2: 4:		41: 34: 17: 3: 1: 0: 2: 4:			35: 16: 14: 0: 1: 1: 0: 0:		
L 120-	26: 46: 27: 22: 16: 9: 4: 4:		32: 29: 15: 4: 3: 3: 0: 1:			14: 12: 6: 2: 0: 0: 0: 0:		
60-	4: 6: 5: 7: 5: 0: 0: 3:		4: 5: 1: 0: 0: 1: 1: 0:			0: 2: 0: 0: 0: 0: 0: 0:		
0-	0: 100: 200: 300: 400: 500: 600: 700: >700		0: 100: 200: 300: 400: 500: 600: 700: >700			0: 100: 200: 300: 400: 500: 600: 700: >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
JUL		TOT OBS=750	AUG		TOT OBS=763	SEP		TOT OBS=747
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	314: 41: 10: 0: 1: 0: 0: 0:		34: 3: 1: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0:		
N 300-	164: 26: 6: 0: 0: 0: 0: 0:		367: 47: 5: 0: 1: 0: 0: 0:			133: 18: 3: 0: 1: 0: 0: 0:		
S 240-	89: 14: 2: 1: 0: 0: 0: 0:		113: 25: 1: 0: 0: 0: 0: 0:			248: 67: 13: 6: 0: 0: 0: 0:		
O 180-	59: 9: 4: 0: 0: 0: 0: 0:		76: 11: 0: 0: 0: 0: 0: 0:			84: 33: 4: 1: 1: 0: 0: 0:		
L 120-	24: 4: 0: 0: 0: 0: 0: 0:		45: 7: 0: 0: 0: 0: 0: 0:			67: 26: 9: 2: 2: 0: 0: 0:		
60-	0: 0: 0: 0: 0: 0: 0: 0:		7: 0: 0: 0: 0: 0: 0: 0:			19: 4: 3: 0: 0: 1: 0: 0:		
0-	0: 100: 200: 300: 400: 500: 600: 700: >700		0: 100: 200: 300: 400: 500: 600: 700: >700			0: 100: 200: 300: 400: 500: 600: 700: >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		
OCT		TOT OBS=772	NOV		TOT OBS=748	DEC		TOT OBS=742
>360-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0:		
I 360-	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 300-	0: 0: 0: 0: 0: 0: 0: 0:		0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0:		
S 240-	130: 55: 11: 4: 3: 0: 0: 1:		0: 0: 0: 0: 0: 0: 0: 0:			0: 0: 0: 0: 0: 0: 0: 0:		
O 180-	169: 95: 41: 11: 5: 1: 2: 0:		82: 47: 29: 11: 9: 5: 1: 1:			0: 0: 0: 0: 0: 0: 0: 0:		
L 120-	77: 37: 20: 8: 1: 3: 2: 0:		118: 89: 40: 28: 12: 7: 4: 13:			130: 94: 60: 42: 20: 13: 1: 4:		
60-	44: 28: 12: 5: 3: 2: 1: 1:		84: 69: 43: 23: 8: 7: 6: 12:			135: 100: 52: 39: 21: 10: 6: 15:		
0-	0: 100: 200: 300: 400: 500: 600: 700: >700		0: 100: 200: 300: 400: 500: 600: 700: >700			0: 100: 200: 300: 400: 500: 600: 700: >700		
WIND POWER-TOTAL			WIND POWER-TOTAL			WIND POWER-TOTAL		

TABLE C-41. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- SPRINGFIELD, MISSOURI

JAN										FEB										MAR									
TOT OBS=771										TOT OBS=704										TOT OBS=773									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	30	10	2	1	1	0	0	0	0
S 240	0	0	0	0	0	0	0	0	0	87	19	4	2	0	0	0	0	0	0	156	59	30	12	6	3	0	0	0	0
O 180	192	43	4	0	0	0	0	0	0	190	59	12	3	2	0	0	0	0	0	68	33	19	6	5	1	0	0	0	0
L 120	206	50	18	3	3	0	0	0	0	128	35	12	3	1	0	0	0	0	0	104	62	18	6	3	0	1	0	0	0
60	196	47	15	1	1	0	0	0	0	97	33	13	2	1	1	0	0	0	0	28	30	10	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	0	0	0	0	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
APR										MAY										JUN									
TOT OBS=747										TOT OBS=774										TOT OBS=744									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	53	15	4	1	1	1	0	0	0	227	55	10	2	1	0	0	0	0	0	304	56	9	5	1	0	0	0	0	0
N 300	155	78	28	11	2	2	1	0	0	119	34	14	1	1	0	0	0	0	0	135	21	7	0	0	0	0	0	0	0
S 240	61	26	13	4	3	0	1	0	0	76	23	8	2	2	0	0	0	0	0	74	18	1	0	0	0	0	0	0	0
O 180	65	44	19	4	1	0	0	0	0	73	25	9	1	0	0	0	0	0	0	71	7	1	0	0	0	0	0	0	0
L 120	59	45	14	3	0	0	1	0	0	66	14	5	0	0	0	0	0	0	0	25	6	0	0	0	0	0	0	0	0
60	10	8	2	0	1	0	1	0	0	5	1	0	0	0	0	0	0	0	0	2	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
JUL										AUG										SEP									
TOT OBS=774										TOT OBS=773										TOT OBS=749									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	345	24	2	0	0	0	0	0	0	66	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N 300	174	14	1	0	0	0	0	0	0	408	28	0	1	0	0	0	0	0	0	183	25	3	1	0	0	0	0	0	0
S 240	100	5	1	0	0	0	0	0	0	121	9	0	0	0	0	0	0	0	0	251	29	7	0	2	0	0	0	0	0
O 180	62	3	1	0	0	0	0	0	0	62	2	0	0	0	0	0	0	0	0	95	12	2	0	0	0	0	0	0	0
L 120	33	1	0	0	0	0	0	0	0	49	1	0	0	0	0	0	0	0	0	104	6	0	1	0	0	0	0	0	0
60	2	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	22	3	0	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	0	0	0	0	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
OCT										NOV										DEC									
TOT OBS=756										TOT OBS=747										TOT OBS=740									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360	0	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240	271	24	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	0	0
O 180	186	40	12	1	0	0	0	0	0	284	55	9	1	0	0	0	0	0	0	24	2	0	0	0	0	0	0	0	0
L 120	113	21	4	0	0	0	0	0	0	141	37	9	5	0	0	0	0	0	0	343	68	12	2	1	0	0	0	0	0
60	55	15	0	0	0	0	0	0	0	164	32	7	3	0	0	0	0	0	0	218	58	9	2	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	0	0	0	0	0	0	0	0	0	0	0
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700									
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									

TABLE C-42. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- SPRINGFIELD, MISSOURI

JAN										FEB										MAR																
TOT OBS=771										TOT OBS=704										TOT OBS=773																
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
I 360-	0	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
S 240-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	24	17	7	5	0	2	2	0							
O 180-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	77	43	16	12	8	4	4	0							
L 120-	131	69	26	10	3	0	0	0	0	115	82	36	21	7	1	1	3	0	0	0	36	34	29	14	12	3	2	3	0							
60-	129	71	31	35	9	1	3	1	0	79	49	33	17	3	4	2	0	0	0	64	53	39	16	12	1	4	5	0								
0-	86	50	36	26	14	6	1	1	0	46	46	23	14	7	5	2	4	0	0	16	15	20	12	7	2	0	1	0								
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL																
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700																
APR										MAY										JUN																
TOT OBS=747										TOT OBS=774										TOT OBS=744																
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
I 360-	37	27	5	3	1	1	0	1	0	149	67	19	6	2	2	0	0	0	0	0	269	79	16	6	2	1	0	0	0							
N 300-	116	73	53	22	4	5	3	1	0	96	42	19	8	3	1	0	0	0	0	0	114	37	9	3	0	0	0	0	0							
S 240-	39	37	20	15	1	1	3	2	0	56	33	8	11	1	2	0	0	0	0	0	64	24	5	0	0	0	0	0	0							
O 180-	42	56	30	16	3	2	1	1	0	51	29	19	5	4	0	0	0	0	0	0	63	13	2	1	0	0	0	0	0							
L 120-	30	43	27	12	6	3	0	1	0	40	32	8	4	1	0	0	0	0	0	0	19	10	2	0	0	0	0	0	0							
60-	6	4	4	6	0	1	0	1	0	4	1	1	0	0	0	0	0	0	0	0	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0							
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL																
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700																
JUL										AUG										SEP																
TOT OBS=774										TOT OBS=773										TOT OBS=749																
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
I 360-	322	44	5	0	0	0	0	0	0	77	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
N 300-	158	29	1	1	0	0	0	0	0	370	59	7	0	0	1	0	0	0	0	0	158	44	6	3	1	0	0	0	0							
S 240-	91	15	2	1	0	0	0	0	0	104	25	0	1	0	0	0	0	0	0	0	214	56	13	4	1	1	0	0	0							
O 180-	56	9	2	0	0	0	0	0	0	54	10	0	0	0	0	0	0	0	0	0	79	25	3	2	0	0	0	0	0							
L 120-	29	4	1	0	0	0	0	0	0	45	5	0	0	0	0	0	0	0	0	0	87	23	2	0	1	0	0	0	0							
60-	2	1	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	18	7	0	0	0	0	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	0	0	0	0	0	0	0	0							
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL																
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700																
OCT										NOV										DEC																
TOT OBS=756										TOT OBS=747										TOT OBS=746																
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
I 360-	0	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
S 240-	222	70	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
O 180-	152	54	21	10	2	1	1	0	0	216	75	40	12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
L 120-	77	39	15	5	1	1	0	0	0	87	54	29	10	5	2	1	2	0	0	0	17	8	0	1	0	0	0	0	0							
60-	36	17	14	3	0	0	0	0	0	92	61	33	10	3	6	0	1	0	0	0	216	172	44	23	5	4	1	1	0							
0-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	82	45	26	11	3	1	2	0							
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL																
0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700										0 100 200 300 400 500 600 700 >700																

TABLE C-43. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-DAY
- WICHITA, KANSAS

JAN										FEB										MAR									
TOT OBS=773										TOT OBS=703										TOT OBS=769									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	62	24	13	13	3	2	1		
O 180	0	0	0	0	0	0	0	0	0	101	30	12	4	3	1	0	0	0	0	94	61	31	13	13	5	4	2		
L 120	266	70	21	8	5	2	0	0	0	186	64	22	12	6	2	1	0	0	0	40	30	21	9	4	3	3	3		
60	134	48	24	7	2	0	1	0	0	102	39	14	7	6	4	1	0	0	0	78	34	17	17	7	2	1	4		
0	106	42	18	9	6	1	1	0	0	45	23	9	2	1	4	2	0	0	0	19	17	5	7	1	1	0	0		
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
APR										MAY										JUN									
TOT OBS=744										TOT OBS=773										TOT OBS=750									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	5	4	1	0	0	0	0	0	
I 360	93	62	24	8	13	7	3	1	0	196	101	47	19	12	6	1	1	0	0	213	107	58	27	11	4	2	1		
N 300	97	51	32	24	14	4	2	0	0	65	33	22	6	6	3	1	1	0	0	77	34	14	9	1	2	1	0		
S 240	33	29	17	10	4	2	3	2	0	58	27	8	5	0	1	1	1	0	0	44	36	6	4	0	0	1	1		
O 180	46	33	23	5	7	0	4	1	0	37	29	11	5	3	0	0	1	0	0	31	5	8	0	0	0	0	0		
L 120	29	27	15	7	5	1	2	1	0	34	21	5	3	0	0	1	0	0	0	8	6	3	2	0	0	0	0		
60	5	3	4	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0			
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
JUL										AUG										SEP									
TOT OBS=772										TOT OBS=771										TOT OBS=746									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	326	128	27	5	5	1	0	0	0	210	75	23	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
N 300	89	33	9	1	0	0	0	0	0	154	82	19	3	0	0	0	0	0	0	225	85	25	15	3	3	0	0		
S 240	52	13	2	1	0	0	0	0	0	70	23	12	1	0	0	0	0	0	0	111	38	12	6	5	0	0	0		
O 180	56	7	0	1	0	0	0	0	0	46	13	1	0	1	0	0	0	0	0	61	30	6	2	1	1	0	0		
L 120	13	1	0	0	0	0	0	0	0	26	3	0	0	0	0	0	0	0	0	67	24	7	1	0	0	0	0		
60	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	15	2	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	0	0	0	0	0	0	0	0			
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									
OCT										NOV										DEC									
TOT OBS=774										TOT OBS=744										TOT OBS=742									
>360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I 360	0	0	0	0	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 300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S 240	267	94	26	9	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
O 180	107	47	18	7	5	1	1	0	0	293	87	33	13	1	4	1	0	0	0	86	19	5	2	2	0	0	0	0	
L 120	75	33	10	4	4	2	0	0	0	101	39	18	7	4	4	0	0	0	0	271	88	33	14	4	2	1	0		
60	32	16	2	0	0	1	0	0	0	95	32	3	5	2	1	1	0	0	0	151	42	11	7	1	2	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	0	0	0	0			
0	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700	0	100	200	300	400	500	600	700	>700		
WIND POWER-DAY										WIND POWER-DAY										WIND POWER-DAY									

TABLE C-44. JOINT PROBABILITY DISTRIBUTION OF INSOLATION AND WIND POWER-TOTAL
- WICHITA, KANSAS

JAN										FEB										MAR									
TOT OBS=773										TOT OBS=703										TOT OBS=769									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	49	54	16	12	13	5	8		
S 240-	0	0	0	0	0	0	0	0	0	56	43	20	16	7	3	4	2			53	53	48	13	19	9	11	17		
O 180-	171	109	41	22	13	6	3	9		114	80	35	21	18	15	3	7			27	20	23	12	12	4	7	8		
L 120-	79	54	30	19	16	9	7	2		50	51	24	12	9	5	12	10			42	38	21	14	17	9	10	9		
60-	49	46	26	20	11	10	8	13		24	19	8	12	7	4	2	10			13	6	11	8	5	3	2	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	0	0	0
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
APR										MAY										JUN									
TOT OBS=744										TOT OBS=773										TOT OBS=750									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	6	3	4	0	1	0	0		
I 360-	66	51	35	22	7	14	5	11		145	105	56	38	14	10	8	7			166	93	63	50	30	6	9	6		
N 300-	51	55	35	24	17	11	9	12		44	38	18	17	8	7	0	5			63	29	19	9	10	4	1	3		
S 240-	18	24	14	16	9	11	3	5		40	24	18	10	3	4	1	1			31	31	17	5	6	1	0	1		
O 180-	28	23	24	18	9	6	1	10		20	30	18	9	4	2	2	1			20	12	6	3	2	0	1	0		
L 120-	10	26	15	13	9	5	3	6		16	29	8	5	2	2	1	1			4	6	5	1	1	1	1	0		
60-	1	5	3	1	1	2	0	0		2	0	0	0	0	0	0	0			0	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	0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
JUL										AUG										SEP									
TOT OBS=772										TOT OBS=771										TOT OBS=746									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	251	148	52	26	7	3	4	1		170	75	44	17	5	2	0	1			0	0	0	0	0	0	0	0	0	0
N 300-	69	42	9	10	2	0	0	0		118	85	38	14	2	1	0	0			178	92	35	25	10	8	4	4		
S 240-	41	19	6	1	0	1	0	0		54	28	15	8	1	0	0	0			79	51	17	12	5	6	2	0		
O 180-	39	19	5	0	0	1	0	0		36	16	8	0	0	0	1	0			43	31	13	7	3	2	1	1		
L 120-	11	2	1	0	0	0	0	0		17	12	0	0	0	0	0	0			48	26	15	6	4	0	0	0		
60-	1	1	0	0	0	0	0	0		2	1	0	0	0	0	0	0			4	11	2	0	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	0	0	0	0	0	0
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									
OCT										NOV										DEC									
TOT OBS=774										TOT OBS=744										TOT OBS=742									
>360-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I 360-	0	0	0	0	0	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 300-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 240-	199	95	59	21	12	9	7	7		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
O 180-	71	49	23	21	9	8	2	3		203	107	60	28	18	6	3	7			53	39	7	7	5	0	1	2		
L 120-	42	35	21	13	7	1	5	4		63	41	25	14	14	6	4	6			172	101	52	36	25	8	9	10		
60-	11	20	12	5	2	0	0	1		46	32	30	13	5	5	1	7			76	53	40	14	9	8	6	9		
0-	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
WIND POWER-TOTAL										WIND POWER-TOTAL										WIND POWER-TOTAL									

Appendix D

SAMPLE GRAPHIC DATA

Sample plots are presented to illustrate one form the user could utilize in cross-plotting the data shown in Appendix A to look at the month to month variability of the empirical statistics. Presented in Figures D-1 through D-5 are computer generated plots showing one successive day (single occurrence) probabilities. These are the probabilities, by month, at or above defined thresholds, for Bismarck for the parameters insolation, wind-day, wind-night, wind-total and the combination insolation and wind-total. Roman numeral I on the plots is January, etc. A character defines a threshold as identified in the figure title. If 2 or more characters are at the same point on the plot, then the total number of points is shown and not the characters.

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Figure D-1. PROBABILITY, VS MONTH, FOR INSOLATION EQ. OR. GT 5 THRESHOLDS -60,120,180,240,300 WATTS/M**2 (A,B,C,D,E) - 1 SUCCESSIVE DAY BISMARCK, NORTH DAKOTA

Figure D-2. PROBABILITY, VS. MONTH, FOR WIND (DAY) EQ.OR.GT 5 THRESHOLDS
-80,140,200,260,320 WATTS/M**2 (A,B,C,D,E) -1 SUCCESSIVE DAY
BISMARCK, NORTH DAKOTA

Figure D-3. PROBABILITY, VS MONTH, FOR WIND (NIGHT) EQ. OR. GT 5 THRESHOLDS
-80,140,200,260,320 WATTS/M**2 (A,B,C,D,E) - 1 SUCCESSIVE DAY
BISMARCK, NORTH DAKOTA

Figure D-4. PROBABILITY, VS MONTH, FOR WIND (TOTAL) EQ. OR. GT 5 THRESHOLDS -80,140,200,260,320 WATTS/M**2 (A,B,C,D,E) - 1 SUCCESSIVE DAY BISMARCK, NORTH DAKOTA

Figure D-5. PROBABILITY, VS MONTH, FOR COMBINATION INSOLATION - WIND (TOTAL)
 (1 SUCCESSIVE DAY) INSOL. EQ.OR.GT 50,150,250 WATTS/M**2
 (A,D,G) FOR WIND (TOTAL) EQ.OR.GT 100 WATTS/M**2
 BISMARCK, NORTH DAKOTA

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