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PROBABILITY OF LOW AND HIGH TEMPERATURES IN TENNESSEE

Washington, D.C.
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PROBABILITY OF LOW AND HIGH TEMPERATURES IN TENNESSEE

Henry A. Fribourg and Dewayne L. Ingram

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March 1978

UNITED STATES DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Richard A. Frank, Administrator

Environmental Data Service
Thomas S. Austin, Director

CONTENTS

PROBABILITY OF LOW AND HIGH TEMPERATURES IN TENNESSEE

Henry A. Fribourg[1] and Dewayne L. Ingram[2]

ABSTRACT. The probability of occurrence of 32°, 28°, 22°, and 16°F low temperatures and of 95°, 90°, 85°, and 80°F high temperatures is tabulated by week for 40 Tennessee locations. Included also are a map, a brief discussion of Tennessee temperature climate, and a table of mean monthly temperatures at these locations. The length of record used is 30 yr (1941-70) for most stations.

1. INTRODUCTION

An analysis of the probability of low and high temperature occurrences has far-reaching implications for both short-term and long-range planning of activities. This information can be very valuable to industry, agriculture, and the general public in scheduling many tasks. Many human activities depend on, or are limited by, not only the occurrence of precipitation (Fribourg _et al_. 1973a, b; Strand _et al_. 1973) but also of low and/or high temperatures.

The planning for many human activities could be assisted by knowledge of the likelihood of occurrence of low and/or high temperatures. These operations include such diverse activities as building of highways and structures, recreation and tourism, wild life and domestic animal management, and protection of plants.

Occurrences of low and high temperatures are among the factors that determine the type of vegetation that can survive in an area. Agriculturists, nurserymen, growers, homeowners, and others must have a knowledge of the expected low and high temperature occurrences to select suitably adapted crops, ornamental trees and shrubs, fruit trees, and other perennial plants material (Hill 1975; Hopp and Lautzenheiser 1966). Builders must be able to anticipate the extent of cold or heat that structures will have to

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withstand and still provide a measure of comfort and structural stability. Construction engineers must have this information to recommend heating or cooling systems necessary to compensate for the lowest and highest temperatures expected in a location at a certain probability level. This information also helps the public to decide the timing and extent of activities, for example, when and how much antifreeze to add to engine cooling systems.

This report presents the probability of high and low temperature occurrences at 40 locations in Tennessee on a weekly basis. The probability of these occurrences in any particular week allows the person planning an activity to realize the risk of a temperature being attained. The person can then decide the risk he or she is willing to take. This would of course depend not only upon the cost and/or importance of the activity, but also on the effect that unfavorable temperature may have on this activity.

If all future temperature occurrences could be predicted reliably, and if the relationship between human endeavors and this climatic factor were known, it would be possible to improve the planning of activities dependent upon these temperature occurrences. It could be decided in advance when it might be desirable to protect certain plants, to start a building project, or to plan for peak utilization of recreation facilities or energy supplies. Temperature occurrence frequencies derived from historical data provide understanding about the variability of occurrences of low and high temperatures in a locality, and give some indication of what to expect in the future (Thom and Shaw 1958; Young 1972).

2. GENERAL CLIMATE OF TENNESSEE

Tennessee falls within the "humid subtropical" subtype of "humid mesothermal" climates. In most years, there are four distinct seasons of about equal duration caused by easterly movement of migratory high and low pressure systems across the State. Weather systems which influence the State originate either in the interior portion of North America or over the Gulf of Mexico, which is the primary source of moist and warm air.

The terrain differs across Tennessee. The State extends from the rocky crest of the Southern Appalachian Mountains in the east to the Mississippi River flood plain in the west (figure 1). State-wide average annual temperatures vary from 60°F in the southwest to near 45°F at the higher elevations in the mountains.

The mountains in the eastern end of the State range up to 6,000 ft above sea level. These mountains and the Cumberland Plateau play an important role in the temperature pattern in East Tennessee, since temperature is greatly affected by topography. Temperature generally decreases 3°F for each 1000-ft increase in elevation. This factor accounts for most of the real temperature variations in East Tennessee. Thus, the temperature is lower on the Cumberland Plateau and in the mountains than in the Great Valley which lies between these two regions. In the Great Valley temperatures increase from north to south and are comparable to those in Middle and West Tennessee in southern counties. The Plateau has cooler summers and colder winters than the Valley. Temperatures in East Tennessee generally remain somewhere between 10°F and 80°F throughout the year. Daily averages are normally near 35°F in January and 75°-80°F in July.

Middle Tennessee topography varies from flat to hilly, with elevations from about 400 to 1200 ft above sea level. The average annual temperature varies from about 60°F in the Central Basin to 55°F on elevated locations of the Highland Rim. Temperatures generally range between 15°F and 90°F throughout the year. Daily averages are normally near 40°F in January and about 80°F in July.

West Tennessee is relatively flat to gently rolling. The elevation is about 300 ft above sea level in Memphis and increases slightly toward the east. The average annual temperature of 60°-65°F in West Tennessee is the warmest in the State. Temperatures generally remain somewhere between 20°F and 90°F throughout the year. Daily average temperatures are normally near 45°F in January and 80°F in July. Mississippi River bottomland locales generally average 2° to 3°F warmer than locations farther east.

3. SOURCES OF DATA

The temperature data used for calculating the probabilities were obtained from daily observations collected by National Weather Service Climatological Cooperative stations and first-order stations, and Tennessee Agricultural Experiment Station research stations.

An attempt was made to select as many stations as possible to better characterize all areas of the State. It should be recognized that the data obtained at an observation site are most representative of the immediately-surrounding area, and that the temperature in a specific area will be affected by the immediate topography within that area. The 40 sites reported in this publication are shown in figure 1.

The temperatures used in this study were observed in louvered ventilated wooden shelters following standards of the National Weather Service (U.S. Dept. of Commerce 1970). Daily minimum and maximum air temperatures were obtained with minimum and maximum thermometers. The standard height of observation is 5 ft above the ground.

It was intended that 30 yr of continuous records, ending in 1970, be used from each site. The entire 30-yr record was not available for a few stations; the exact length of record used for each station is given in table 1. Stations with less than 30 yr of continuous records were included in the study, with proper reference to the length of record, to maintain a reasonably regular sampling density across the region.

For some stations, data values were missing for short periods. Although such situations occurred with varying frequency among sites and years, computations were done using all days or weeks for which data were available.

4. PRESENTATION OF DATA AND METHODS OF COMPUTATION

Since the temperature data base was very large (over 400,000 days), digital computer programs were used for quality control procedures on the original entries, to calculate the appropriate statistics, and to summarize and tabulate the results.

The National Weather Service publishes normal and mean temperature values, usually on monthly and annual bases (U. S. Dept. of Commerce 1973). Normal values are the arithmetic average of 30 yr of record, in accord with standards set by the World Meteorological Organization. Such values may not indicate the most likely temperature to be expected in any given month because a few occurrences of extreme temperatures may tend to weight the numbers in that direction. They are, however, useful in describing in a general way the temperature that has occurred at a given location. The average monthly and annual temperatures for the 40 stations contained in this study appear in table 1.

The 30-yr daily records from stations selected at random from each major physiographic region of the State were checked for normality of distribution of minimum and maximum temperature observations for each day of the year across years. The magnitudes of skewness and kurtosis (less than 1 for skewness and less than 2 for kurtosis in 90% of the days of the year) were such that normality appeared to be closely approximated. Therefore, the computed probabilities of temperature occurrence could be based upon the assumption of a normal distribution of the data across years.

5. TEMPERATURE OCCURRENCE PROBABILITIES

This study provides a week-by-week analysis of certain temperature occurrences to indicate the probability associated with a given temperature during a particular week. The analysis was based on a 52-week year with the week of March 1 being the first week of the climatic year. This was done to avoid leap year week-numbering problems. For example, March 1-7 is week 1, March 8-14 is week 2, and February 21-28 is week 52.

Four high temperatures and four low temperatures were selected for the calculation of the probabilities of their occurrence. These were 32°, 28°, 22°, and $16^{\circ}F$ for the low temperatures and 80°, 85°, 90°, and $95^{\circ}F$ for the high temperatures. This broad spectrum of temperatures was used in an attempt to encompass the many different types of activities to which these computations may be relevant. The daily maximum or minimum temperatures for the 7 days in each week of the year were used in computing the probabilities, which are based on the frequency of occurrence of the specified temperatures in all available years of record.

The probability of an event occurring is expressed here as a percentage between 1 and 99. Thus, a probability of 99% in the tables indicates that it is extremely likely that at least that temperature will occur during this week in the future. Of course, this is based on the assumption that immediate future years will be similar in temperature regime to recently past years. On the other hand, a probability of 30% indicates that temperature may be expected to occur, on the average, only 30 yr out of 100, or 3 yr out of 10. It should be emphasized that probabilities based on a long period of record may be more accurate than those based on a few years of record, if rapid climatic changes have not occurred.

The probabilities of specific low temperature occurrences in each of the 52 climatic weeks for the 40 stations are presented in table 2. These refer to the chance of a certain temperature, or a lesser one, occurring for each week. Thus, in Memphis during the week of June 7, there is a 95% hance of having a temperature occurrence of 80^{o}F or greater.

In some cases the probabilities of temperature occurrences during weeks of transition months (spring and autumn) are, somewhat unexpectedly, greater than zero. These cases are not statistically significant (a relatively low number of occurrences) and result from computations which involve non-occurrences for many years (probability of zero) and actual occurrences for a few years.

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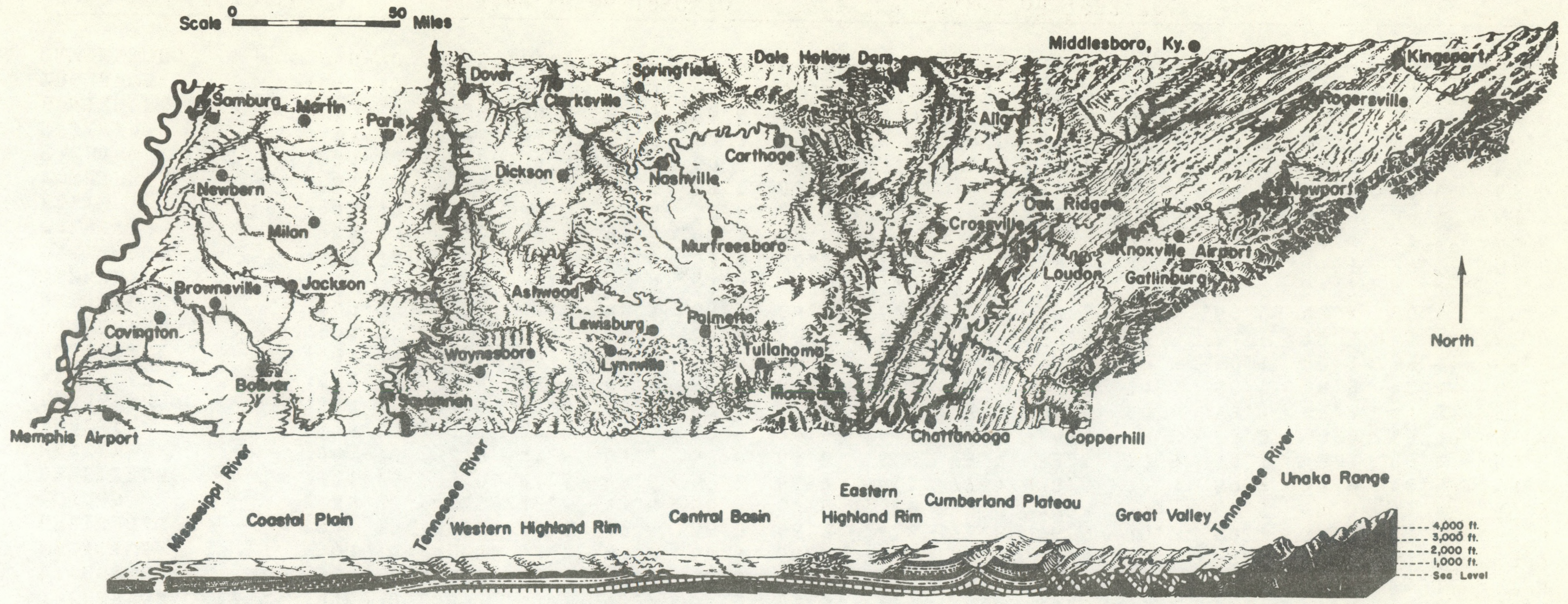

West Tennessee

Bolivar 455
Brownsville 360
Covington 310
Jackson 400
Martin 387
Memphis 258
Milan 430
Newbern 370
Paris 450
Samburt 290
Savannah 440

Middle Tennessee

Ashwood 725
Carthage 540
Clarksville 382
Dale Hollow Dam 560
Dickson 814
Dover 475
Franklin 670
Lewisburg 787
Lynnville 730
Monteagle 1930
Murfreesboro 550
Nashville 590
Palmetto 770
Springfield 745
Tullahoma 1072
Waynesboro 750

East Tennessee

Allardt 1672
Chattanooga 665
Copperhill 1535
Crossville 1810
Gatlinburg 1454
Greeneville 1320
Jefferson City 1200
Kisgsport 1284
Knoxville 980
Loudon 775
Middlesboro, Ky. 1175
Oak Ridge 905
Rogersville 1355

Table 1.--Mean Temperature (°F)

LOCATION	YEARS OF RECORD	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
ALLARDT*	1941-70	35.3	38.0	44.6	50.0	64.1	70.2	73.4	72.6	66.7	56.3	44.9	37.0	54.9
ASHWOOD	1941-70	39.6	42.2	49.1	59.8	67.5	75.0	77.7	76.6	70.6	60.1	49.0	41.3	59.0
BOLIVAR	1948-70	39.8	42.9	50.1	61.4	68.9	76.3	79.2	78.1	71.5	60.8	49.5	41.8	60.0
BROWNSVILLE	1948-70	40.3	43.5	51.0	62.3	70.1	77.5	80.2	79.2	72.6	62.7	51.1	42.6	61.1
CARTHAGE	1941-70	39.0	41.3	48.6	59.5	67.7	75.1	78.0	77.1	71.2	60.4	48.6	40.7	58.9
CHATTANOOGA	1941-70	40.2	42.9	49.8	60.5	68.5	76.0	78.8	78.0	71.9	60.8	48.9	41.2	59.8
CLARKSVILLE	1941-70	37.9	40.9	48.6	60.2	68.2	76.1	79.2	78.1	71.4	60.4	48.5	39.9	59.1
COPPERHILL	1941-70	38.3	40.3	46.6	57.1	65.3	72.5	75.5	74.6	68.6	57.8	46.6	39.4	56.9
COVINGTON	1941-70	38.9	42.1	49.4	60.9	69.5	77.4	80.1	78.9	72.1	61.7	49.9	41.2	60.2
CROSSVILLE	1941-70	34.5	36.4	44.0	55.1	63.3	69.9	72.9	72.1	66.5	56.1	44.6	36.0	54.3
DALE HOLLOW DAM**	1948-70	36.7	39.7	46.6	57.8	66.3	73.4	76.8	75.1	70.0	58.9	47.1	39.1	57.4
DICKSON	1949-70	38.5	41.4	49.1	60.5	68.1	75.6	78.6	77.5	71.2	60.8	48.9	40.5	59.2
DOVER	1948-70	37.7	40.6	48.2	59.8	67.0	74.8	77.7	76.9	70.1	59.4	48.2	39.7	58.3
FRANKLIN	1941-70	39.1	41.7	49.0	59.9	67.7	75.4	73.0	77.1	70.7	60.2	48.8	40.8	59.0
GATLINBURG	1941-70	38.3	40.3	47.3	57.2	64.6	71.2	74.0	73.1	67.9	57.3	46.3	39.0	56.4
GREENEVILLE	1948-70	38.5	40.7	47.7	57.6	66.0	73.4	76.2	75.2	69.5	58.7	47.2	39.2	57.5
JACKSON	1941-70	38.7	42.0	49.2	60.7	68.7	76.3	79.1	73.0	71.4	60.8	49.2	41.1	59.6
JEFFERSON CITY***	1948-70	36.7	40.7	48.2	56.7	65.5	72.1	75.6	74.9	69.2	57.7	47.6	39.4	57.0
KINGSPORT	1941-70	39.9	41.3	47.3	58.0	66.1	73.1	76.1	75.1	70.0	59.1	47.7	40.1	57.3
KNOXVILLE	1941-70	40.6	42.8	49.9	60.3	68.4	75.5	78.2	77.3	71.6	60.9	49.2	41.5	59.7
LEWISBURG	1941-70	38.0	40.5	47.6	58.8	66.9	74.8	77.8	76.9	70.7	59.7	47.9	40.1	58.3
LOUDON	1949-70	40.6	42.3	48.6	58.7	67.6	75.8	78.7	77.8	72.1	60.8	48.0	40.9	59.3
LYNNVILLE	1941-70	39.0	41.6	48.6	59.2	66.7	74.3	77.4	76.6	70.1	59.2	47.9	40.5	58.4
MARTIN	1941-70	38.2	41.6	49.3	60.8	69.0	76.8	79.4	73.6	71.9	61.7	49.3	40.4	59.8
MEMPHIS	1941-70	40.5	43.8	51.0	62.5	70.9	78.6	81.6	80.4	73.6	63.0	50.9	42.7	61.6
MIDDLESBORO KY	1943-70	38.5	40.3	48.3	57.3	65.0	72.6	75.7	74.7	69.6	58.1	46.2	40.2	57.2
MILAN	1941-70	38.1	41.3	49.0	60.4	68.4	76.2	79.1	78.0	71.1	60.5	48.9	40.5	59.3
MONTEAGLE	1941-70	37.6	40.0	46.9	58.2	65.6	72.2	74.6	74.0	68.6	58.9	47.1	39.1	56.9
MURFREESBORO	1941-70	40.1	42.8	50.1	60.8	68.5	76.0	78.9	78.0	71.9	61.1	49.5	41.8	60.0
NASHVILLE	1948-70	38.3	41.0	48.7	60.1	68.5	76.6	79.6	78.5	72.0	60.9	48.4	40.4	59.4
NEWBERN	1948-70	38.4	41.7	49.4	61.0	69.5	77.1	79.7	78.6	71.8	61.5	49.2	40.7	59.9
OAK RIDGE	1948-70	38.1	40.4	47.6	58.4	66.7	74.2	77.0	76.1	70.1	59.1	47.1	39.2	57.8
PALMETTO	1941-70	40.0	42.5	49.6	60.4	68.0	75.5	78.2	77.4	71.5	61.1	49.4	41.8	59.6
PARIS	1941-70	37.5	40.7	48.3	58.8	67.1	75.4	73.6	77.7	70.6	59.6	48.3	39.7	58.5
ROGERSVILLE	1941-70	37.9	40.4	47.7	58.1	65.9	72.3	75.6	74.8	69.4	58.9	47.0	38.9	57.3
SAMBURG	1941-70	36.6	39.7	47.8	60.1	69.0	77.1	80.0	78.6	71.4	60.6	48.3	39.0	59.0
SAVANNAH	1941-70	40.8	43.7	51.1	62.1	69.3	76.8	80.0	79.2	72.5	61.7	50.4	42.4	60.8
SPRINGFIELD	1942-70	36.5	39.3	46.9	58.6	66.7	74.7	77.6	76.6	70.6	59.9	47.5	38.9	57.8
TULLAHOMA	1941-70	39.7	42.3	49.3	60.2	67.4	74.5	77.2	76.4	70.5	60.2	48.9	41.4	59.0
WAYNESBORO	1948-70	37.5	39.9	47.6	58.8	66.2	73.8	77.0	76.1	69.7	58.5	47.1	39.2	57.6

*Based on 1949-70. **Based on 1950-70. ***Based on 1953-70.

Table 2.--Percent Probability of Low Temperature Occurrences

LOCATION :	ALLARDT				ASHWOOD				BOLIVAR				BROWNSVILLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	61	41	24	6	45	32	11	3	42	32	7	1	38	22	6	1
8	55	42	20	6	41	25	6	1	39	21	4	-	32	17	4	-
15	51	32	15	5	32	21	6	1	32	17	3	-	30	14	3	1
22	45	28	10	3	29	15	4	1	26	13	3	1	21	9	3	1
29	32	19	6	1	18	8	1	-	15	4	1	-	7	3	1	-
APR 5	18	9	1	-	10	4	-	-	8	1	-	-	6	1	-	-
12	16	9	1	-	9	4	-	-	6	2	-	-	4	1	-	-
19	8	3	-	-	4	-	-	-	2	-	-	-	1	-	-	-
26	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAY 3	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	4	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-
OCT 4	4	-	-	-	2	-	-	-	3	1	-	-	1	-	-	-
11	14	3	-	-	3	-	-	-	5	1	-	-	1	-	-	-
18	17	10	2	-	10	2	-	-	8	5	1	-	4	1	-	-
25	30	13	4	-	15	8	2	-	23	5	1	-	9	3	-	-
NOV 1	33	21	9	2	26	13	3	-	39	23	5	1	24	15	2	-
8	43	30	15	1	37	25	8	-	39	24	8	1	23	16	2	-
15	44	27	10	2	32	21	8	1	38	20	8	1	27	14	5	1
22	55	34	16	6	41	27	9	3	39	23	13	4	29	18	7	2
29	67	49	31	13	53	39	19	5	55	36	14	4	42	26	10	3
DEC 6	67	50	29	15	54	37	15	5	57	44	17	4	47	32	14	3
13	71	61	44	27	68	50	33	17	63	47	27	15	53	42	22	11
20	69	55	28	13	62	45	22	8	64	43	22	10	55	38	21	8
27	70	54	29	14	58	44	23	5	66	51	26	6	61	43	18	5
JAN 3	76	61	37	22	63	50	27	12	67	50	25	11	61	41	19	9
10	76	61	42	22	65	52	29	14	65	55	34	14	62	51	27	11
17	72	62	36	20	59	47	27	15	64	50	31	13	63	48	27	12
24	69	55	39	21	58	42	25	14	60	47	30	17	57	43	27	13
31	68	56	34	23	59	47	24	11	57	44	22	13	53	37	18	12
FEB 7	68	58	34	18	56	43	23	11	56	40	16	8	48	35	14	6
14	68	54	33	15	55	43	17	8	52	35	11	3	48	34	10	3
21	66	52	33	18	54	34	19	8	49	35	17	7	42	29	14	4

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	CARTHAGE				CHATTANOOGA				CLARKSVILLE				COPPERHILL			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	45	31	12	4	40	24	6	2	49	34	13	5	60	42	17	3
8	47	24	8	1	39	19	3	-	47	24	8	1	56	37	14	2
15	33	22	5	1	27	14	3	-	39	20	6	2	49	34	9	-
22	27	16	5	1	24	10	2	-	33	15	4	2	42	27	5	1
29	15	5	1	-	15	4	-	-	19	5	2	-	31	14	3	-
APR 5	10	3	-	-	9	2	-	-	10	2	-	-	23	7	-	-
12	7	1	-	-	4	-	-	-	9	-	-	-	19	8	-	-
19	2	-	-	-	1	-	-	-	3	-	-	-	7	2	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
MAY 3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
OCT 4	1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
11	1	-	-	-	-	-	-	-	3	-	-	-	7	-	-	-
18	8	2	-	-	5	2	-	-	10	2	-	-	20	8	1	-
25	18	5	-	-	15	4	-	-	18	6	-	-	38	16	2	-
NOV 1	25	10	4	1	25	9	2	-	28	11	2	-	38	22	7	-
8	36	21	4	-	36	19	1	-	38	22	4	-	54	34	10	-
15	36	19	5	1	34	17	3	-	35	17	8	1	49	33	12	2
22	42	23	9	3	44	23	6	2	45	26	9	3	60	38	13	4
29	55	43	20	2	57	40	14	1	61	41	20	6	70	58	32	8
DEC 6	58	41	19	5	52	34	10	2	61	42	20	6	63	48	25	8
13	64	52	32	14	67	54	32	12	70	55	36	20	75	64	43	24
20	61	45	18	7	62	45	16	3	67	48	22	12	69	57	33	13
27	61	45	21	4	56	40	14	3	65	48	22	8	68	54	31	10
JAN 3	64	49	26	13	68	48	26	7	69	50	30	14	76	61	42	17
10	63	48	30	13	60	51	28	9	69	54	33	15	70	60	45	22
17	64	50	28	15	59	42	21	9	67	51	32	17	69	58	33	16
24	62	45	26	16	55	40	21	9	63	45	31	20	66	52	30	15
31	60	49	30	17	56	42	19	8	66	48	25	15	68	58	34	18
FEB 7	58	44	24	11	59	43	18	7	61	47	23	13	67	56	30	13
14	60	45	21	10	49	37	14	8	62	42	20	10	66	50	29	12
21	51	40	22	13	49	35	18	7	55	44	22	9	64	53	30	12

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	COVINGTON				CROSSVILLE				DALE HOLLOW DAM				DICKSON			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	43	21	7	2	60	49	26	11	52	42	19	6	47	35	11	3
8	36	18	3	-	56	43	20	8	52	32	12	5	42	24	8	1
15	28	14	2	-	52	34	18	4	51	34	19	1	40	26	6	1
22	23	11	2	-	41	27	13	5	49	28	13	3	33	16	5	3
29	9	2	-	-	31	16	5	1	27	17	3	-	13	6	1	-
APR 5	4	-	-	-	20	11	1	-	25	12	1	-	10	4	-	-
12	2	-	-	-	17	10	2	-	19	10	1	-	8	1	-	-
19	-	-	-	-	6	2	-	-	12	3	-	-	3	-	-	-
26	-	-	-	-	3	-	-	-	4	1	-	-	1	-	-	-
MAY 3	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
OCT 4	1	-	-	-	5	-	-	-	3	-	-	-	-	-	-	-
11	3	-	-	-	10	2	-	-	3	-	-	-	2	-	-	-
18	4	2	-	-	16	5	1	-	14	5	-	-	2	-	-	-
25	10	1	-	-	29	16	5	1	34	15	3	-	7	3	-	-
NOV 1	20	10	3	-	37	24	10	3	40	21	8	3	15	6	-	-
8	29	17	3	-	48	33	12	1	46	31	14	3	28	18	2	1
15	26	13	5	-	44	31	13	4	45	31	10	1	29	16	5	-
22	34	17	7	3	58	39	18	8	49	31	14	5	33	21	7	2
29	49	34	11	2	68	57	40	17	68	54	30	9	36	23	11	4
DEC 6	55	33	14	2	68	54	35	16	61	51	27	13	52	37	19	4
13	64	50	24	12	77	70	50	30	69	58	40	24	57	40	20	6
20	58	41	21	8	76	62	35	19	71	54	27	14	61	47	29	16
27	60	41	17	4	74	59	40	20	70	58	37	15	63	45	24	11
JAN 3	65	46	23	10	79	68	42	24	75	61	42	21	64	46	26	9
10	64	53	28	11	76	64	40	25	73	59	44	28	68	45	25	15
17	61	45	30	14	72	59	39	25	73	56	37	26	65	51	31	15
24	58	42	25	12	67	57	40	26	66	53	40	24	64	46	29	16
31	56	40	19	10	76	59	39	22	64	54	39	19	62	47	31	18
FEB 7	53	38	18	7	72	61	40	23	64	53	31	17	61	45	25	14
14	55	36	12	3	72	59	36	19	65	51	32	14	55	42	20	12
21	51	36	13	5	71	57	42	23	65	52	38	21	58	40	18	8
													55	38	21	10

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	DOVER				FRANKLIN				GATLINBURG				GREENEVILLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	51	40	14	3	53	33	13	3	56	42	18	8	57	36	15	9
8	47	34	12	4	49	26	7	1	58	41	17	6	59	40	13	5
15	49	30	12	2	38	23	9	-	50	36	13	5	46	30	10	4
22	37	24	7	2	36	20	4	1	45	31	5	2	44	27	9	1
29	24	14	1	-	20	8	3	-	34	19	4	-	19	10	5	1
APR 5	14	7	1	-	11	5	-	-	27	12	1	-	20	12	1	-
12	15	5	1	-	13	4	-	-	21	9	1	-	15	2	-	-
19	7	1	-	-	5	1	-	-	15	6	-	-	7	-	-	-
26	4	-	-	-	1	-	-	-	9	-	-	-	4	-	-	-
MAY 3	2	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	3	-	-	-	1	-	-	-
17	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	1	-	-	-	2	-	-	-	5	1	-	-	-	-	-	-
OCT 4	6	1	-	-	2	-	-	-	6	-	-	-	4	-	-	-
11	6	1	-	-	5	-	-	-	12	3	-	-	7	1	-	-
18	17	8	2	-	8	2	-	-	21	9	2	-	12	4	-	-
25	35	13	1	-	20	6	-	-	33	18	3	-	34	19	2	-
NOV 1	39	24	6	1	30	14	4	1	43	27	8	1	33	16	4	-
8	39	27	15	3	41	25	9	-	60	43	18	2	43	23	5	-
15	45	32	12	2	39	24	9	1	53	34	14	3	43	27	14	1
22	48	30	13	7	45	27	9	4	65	47	21	8	51	35	13	3
29	61	47	25	7	59	42	25	6	73	56	33	12	69	53	33	11
DEC 6	65	47	25	10	60	40	21	5	68	56	33	11	64	52	32	12
13	65	55	35	21	68	54	34	18	74	61	44	27	74	58	35	22
20	70	51	29	13	70	51	27	9	73	59	36	16	71	56	33	16
27	68	55	37	13	62	45	26	7	68	53	35	14	65	53	32	22
JAN 3	75	57	37	20	70	54	26	13	74	63	39	21	80	66	44	22
10	70	58	40	24	64	51	31	15	67	55	41	25	73	63	49	31
17	69	53	39	24	65	49	29	15	72	57	34	18	76	63	44	27
24	70	53	37	25	63	44	27	16	70	54	30	18	71	56	35	22
31	66	52	35	20	64	49	26	13	69	58	39	23	70	58	41	16
FEB 7	62	51	28	13	60	47	23	13	71	57	34	15	65	48	34	13
14	63	48	29	9	63	45	22	9	66	50	28	15	68	54	35	19
21	58	47	29	14	57	43	23	11	68	56	33	17	70	59	38	20

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	JACKSON				JEFFERSON CITY				KINGSPORT				KNOXVILLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	45	32	10	2	52	37	12	5	52	32	13	3	41	23	8	2
8	38	22	3	-	44	29	8	3	52	29	9	2	35	18	4	-
15	31	17	5	-	44	22	8	2	42	25	8	1	29	16	2	-
22	26	13	2	-	31	22	6	2	35	20	4	1	21	9	1	-
29	16	5	-	-	25	10	2	-	20	10	2	1	14	3	-	-
APR 5	9	3	-	-	17	6	2	-	13	3	-	-	5	2	-	-
12	6	1	-	-	14	3	-	-	14	3	-	-	5	1	-	-
19	2	-	-	-	8	2	-	-	5	1	-	-	1	-	-	-
26	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-
MAY 3	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-
10	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
OCT 4	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
11	2	1	-	-	4	-	-	-	4	1	-	-	-	-	-	-
18	7	3	-	-	13	1	-	-	14	4	1	-	3	-	-	-
25	19	6	-	-	33	14	1	-	23	8	1	-	9	2	-	-
NOV 1	27	15	4	-	32	22	5	1	25	14	2	-	21	8	1	-
8	37	22	6	-	49	27	13	2	43	26	5	-	30	14	-	-
15	33	19	5	-	37	26	7	2	41	21	6	2	29	14	3	-
22	43	24	8	2	47	25	8	3	54	32	8	3	39	17	6	2
29	54	41	13	3	68	48	28	7	66	48	26	3	57	38	14	1
DEC 6	59	38	13	3	61	47	25	13	61	47	22	7	55	34	13	2
13	66	50	27	13	63	47	30	21	68	54	33	18	68	53	29	14
20	62	43	22	9	67	52	30	13	69	52	27	11	59	40	19	5
27	60	47	18	6	68	54	30	8	67	53	27	10	56	40	16	3
JAN 3	70	54	27	10	78	56	37	16	67	51	27	13	69	47	21	10
10	68	55	29	13	72	60	37	22	65	51	35	20	62	45	26	11
17	65	52	28	14	70	52	34	17	67	53	34	20	59	43	22	10
24	61	44	26	13	64	52	29	17	62	49	31	16	55	37	20	8
31	61	43	21	13	59	46	26	12	66	52	33	12	59	42	19	9
FEB 7	58	45	19	9	57	43	26	12	63	47	26	11	55	38	18	9
14	55	43	12	5	63	45	25	13	62	43	22	10	53	34	15	7
21	51	36	17	6	61	51	25	12	61	49	26	10	50	37	18	6

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	LEWISBURG				LOUDON				LYNNVILLE				MARTIN			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	48	33	16	4	53	33	13	3	51	35	15	4	46	31	13	4
8	47	29	12	2	49	25	10	2	48	33	9	1	39	21	8	1
15	38	24	10	1	35	22	4	1	38	25	10	1	31	18	5	-
22	36	22	7	1	35	19	4	1	38	24	7	1	26	12	3	-
29	21	11	2	-	27	14	-	-	22	14	1	-	13	6	-	-
APR 5	13	5	1	-	16	5	-	-	14	9	1	-	6	1	-	-
12	11	4	-	-	18	5	-	-	15	6	1	-	6	1	-	-
19	5	-	-	-	5	1	-	-	6	2	-	-	2	-	-	-
26	2	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-
MAY 3	2	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-
OCT 4	3	-	-	-	-	-	-	-	5	1	-	-	1	-	-	-
11	6	-	-	-	1	-	-	-	11	1	-	-	1	-	-	-
18	15	4	-	-	7	3	-	-	18	6	-	-	6	2	-	-
25	23	12	1	-	14	6	1	-	30	16	1	-	11	4	-	-
NOV 1	33	19	6	2	25	12	2	1	32	22	8	2	25	14	3	1
8	44	32	12	-	51	28	4	-	45	33	16	2	27	13	6	-
15	40	23	9	2	43	24	7	-	38	26	12	4	31	16	5	1
22	47	32	11	5	48	26	8	2	51	37	13	4	39	24	10	3
29	56	45	24	7	71	49	29	5	63	50	32	10	52	33	16	4
DEC 6	58	44	19	6	65	44	16	3	58	46	22	8	58	37	16	4
13	72	56	36	21	68	61	43	22	70	58	40	23	66	50	30	14
20	66	53	26	12	68	48	22	9	69	55	28	11	63	46	22	10
27	66	50	30	10	61	46	18	5	61	46	30	10	69	44	22	7
JAN 3	69	53	31	17	69	55	29	9	73	56	34	15	71	53	28	13
10	71	56	39	20	61	51	33	16	68	53	37	17	68	52	29	12
17	70	56	32	22	65	45	25	11	66	51	32	18	63	50	30	13
24	63	45	31	20	59	42	25	10	63	50	30	14	62	50	29	17
31	60	52	30	17	67	53	28	10	62	53	32	14	62	43	20	11
FEB 7	65	47	26	13	63	51	25	10	64	49	29	13	59	44	19	12
14	64	48	26	12	54	42	24	11	60	45	25	10	57	40	15	5
21	59	46	26	14	50	33	16	7	55	45	23	12	54	37	17	7

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	MEMPHIS				MIDDLESBORO KY				MILAN				MONTEAGLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	30	16	4	1	55	42	21	5	43	30	8	2	50	33	15	6
8	25	10	2	-	55	35	14	4	38	22	6	-	45	33	8	1
15	19	7	1	-	49	33	18	4	32	19	5	-	38	24	9	2
22	14	6	1	-	38	25	7	1	28	12	2	1	31	16	3	1
29	4	1	-	-	30	15	5	1	13	5	-	-	17	8	-	-
APR 5	2	-	-	-	24	10	2	-	7	2	-	-	10	3	-	-
12	2	-	-	-	18	6	-	-	5	1	-	-	11	4	-	-
19	-	-	-	-	10	3	-	-	1	-	-	-	3	1	-	-
26	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
MAY 3	-	-	-	-	5	1	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
OCT 4	-	-	-	-	5	-	-	-	1	-	-	-	-	-	-	-
11	1	-	-	-	9	-	-	-	3	1	-	-	1	-	-	-
18	3	-	-	-	20	8	2	1	8	4	-	-	3	1	-	-
25	2	-	-	-	34	20	2	-	19	8	-	-	13	6	1	-
NOV 1	18	8	1	-	34	24	8	1	29	16	5	-	28	16	3	1
8	22	11	-	-	54	34	16	3	35	22	7	-	32	16	4	-
15	18	9	2	-	49	31	14	2	33	19	5	1	28	20	7	1
22	28	15	4	1	60	39	14	5	45	26	11	4	43	24	10	4
29	42	21	6	-	69	56	33	10	54	39	19	5	57	39	17	5
DEC 6	44	26	6	2	68	51	33	12	57	41	19	3	58	40	21	7
13	58	45	20	7	74	61	42	23	64	53	33	17	65	55	37	18
20	53	35	11	6	68	54	31	15	63	47	24	9	63	45	19	7
27	57	38	13	-	67	56	37	17	64	46	24	6	61	46	21	5
JAN 3	62	41	16	9	73	53	39	21	72	53	29	12	70	53	28	15
10	61	49	21	8	68	56	38	24	68	58	33	13	68	51	30	13
17	59	42	20	8	70	56	39	22	64	54	34	17	61	46	26	16
24	52	37	20	10	64	52	32	19	62	46	30	18	58	50	29	15
31	48	30	16	7	67	56	37	20	62	46	24	14	60	41	24	14
FEB 7	48	33	13	3	64	49	35	16	58	47	23	12	62	48	28	15
14	43	28	7	3	64	46	30	15	58	44	18	6	60	44	20	11
21	40	24	9	2	66	56	33	17	53	39	19	7	55	39	23	11

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	MURFREESBORO				NASHVILLE				NEWBERN				NEWPORT			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	43	26	8	3	41	25	7	3	45	28	12	3	55	38	18	4
8	40	18	6	1	38	20	6	-	35	21	6	1	47	27	10	4
15	30	18	4	-	37	20	4	1	39	16	5	1	38	24	8	1
22	25	14	2	1	31	14	4	2	26	14	3	1	31	18	3	1
29	18	4	1	-	12	5	1	-	7	3	1	-	23	9	2	1
APR 5	9	2	-	-	8	1	-	-	4	2	-	-	17	4	-	-
12	7	2	-	-	4	2	-	-	3	1	-	-	17	3	-	-
19	2	-	-	-	1	-	-	-	1	-	-	-	5	1	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
MAY 3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
OCT 4	1	-	-	-	1	-	-	-	1	1	-	-	1	-	-	-
11	2	-	-	-	1	-	-	-	3	1	-	-	2	1	-	-
18	8	3	-	-	6	1	-	-	9	3	-	-	16	3	1	-
25	15	6	-	-	11	3	-	-	16	7	1	-	31	14	1	-
NOV 1	26	12	3	-	28	12	3	1	30	17	4	-	32	16	3	-
8	35	25	7	-	32	19	4	-	32	20	5	-	49	29	7	-
15	30	17	5	1	34	20	6	1	33	19	9	2	43	29	10	1
22	40	25	8	3	36	21	10	5	38	25	10	4	55	34	9	3
29	52	38	18	4	56	37	14	3	51	33	13	4	65	49	27	10
DEC 6	51	37	16	3	55	37	17	3	60	40	25	7	59	42	23	8
13	66	49	31	15	62	48	31	17	60	50	32	16	70	59	36	23
20	59	43	18	7	63	44	23	9	61	44	23	9	70	52	31	11
27	58	40	21	5	64	51	22	7	63	48	28	8	69	54	29	12
JAN 3	60	44	24	11	69	47	25	11	69	47	28	13	73	56	32	18
10	60	47	26	12	66	52	31	16	66	50	34	20	72	56	42	23
17	57	45	24	11	63	53	30	16	66	51	32	15	70	53	33	19
24	55	40	25	14	62	46	32	20	66	47	30	19	64	48	28	16
31	57	47	25	12	63	49	25	14	57	44	25	13	62	50	26	9
FEB 7	56	39	19	10	58	43	20	11	55	39	21	8	63	49	25	9
14	53	38	15	8	60	37	16	9	55	40	22	7	59	43	28	14
21	50	39	19	9	52	38	18	9	48	35	22	10	60	45	24	12

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	OAK RIDGE				PALMETTO				PARIS				ROGERSVILLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	48	31	10	2	42	26	9	3	53	39	15	4	56	35	17	5
8	42	26	8	1	39	24	7	1	46	28	10	1	50	31	11	4
15	38	24	5	1	29	19	5	-	42	29	7	-	41	28	11	2
22	31	16	4	1	29	16	3	1	33	23	5	2	37	18	10	2
29	16	8	2	-	16	5	1	-	20	8	1	-	27	11	2	1
APR 5	10	4	-	-	11	5	-	-	13	4	-	-	18	6	-	-
12	11	3	-	-	8	2	-	-	11	2	-	-	14	3	-	-
19	3	1	-	-	4	1	-	-	3	-	-	-	7	1	-	-
26	1	-	-	-	2	-	-	-	1	-	-	-	2	-	-	-
MAY 3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
10	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCT 4	-	-	-	-	1	-	-	-	2	-	-	-	2	1	-	-
11	-	-	-	-	3	-	-	-	7	-	-	-	4	1	-	-
18	6	1	-	-	8	2	-	-	12	6	-	-	15	7	1	-
25	17	6	1	-	16	5	-	-	23	12	1	-	23	13	2	-
NOV 1	30	17	3	-	26	15	3	-	31	16	4	-	32	18	4	-
8	39	25	4	-	35	22	8	-	40	24	9	-	45	27	8	-
15	38	24	4	-	30	19	7	1	39	22	9	1	41	22	9	2
22	43	22	6	3	37	24	9	3	49	32	10	4	58	39	12	3
29	64	46	17	1	53	38	16	3	60	43	20	6	66	51	26	9
DEC 6	55	45	20	2	51	33	15	6	63	44	24	7	59	45	25	7
13	63	52	29	14	66	48	29	15	72	58	39	20	69	55	34	16
20	65	48	24	6	61	39	19	9	70	50	26	11	67	51	33	11
27	62	53	25	4	57	41	20	5	68	53	30	9	65	47	22	11
JAN 3	69	55	25	10	62	46	24	10	73	57	35	20	69	53	33	14
10	60	52	29	15	63	47	27	13	71	57	35	20	67	53	36	20
17	61	48	25	9	60	44	24	14	69	54	34	22	68	56	34	18
24	61	45	26	11	57	43	24	14	65	50	35	20	58	45	26	15
31	58	45	23	10	55	43	22	10	67	49	29	15	66	50	32	14
FEB 7	58	45	22	9	58	42	21	11	64	50	27	14	64	46	32	14
14	53	42	21	7	54	38	16	8	66	46	23	9	65	46	28	12
21	58	45	23	9	50	36	17	8	59	43	27	10	62	51	28	13

Table 2.--(continued) Percent Probability of Low Temperature Occurrences

LOCATION :	SAMBURG				SPRINGFIELD				TULLAHOMA				WAYNESBORO			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	32	28	22	16	32	28	24	16	32	28	24	16	32	28	24	16
MAR 1	43	31	10	3	49	37	16	5	47	28	10	2	58	45	22	6
8	36	22	6	2	45	27	12	4	44	24	7	1	56	42	16	5
15	34	16	5	-	40	22	6	1	30	19	6	-	52	35	19	1
22	24	11	3	1	33	19	6	2	31	16	5	-	46	31	12	4
29	9	4	-	-	18	8	2	-	19	3	-	-	27	16	4	-
APR 5	8	1	-	-	9	3	-	-	9	4	-	-	23	11	3	-
12	4	-	-	-	9	3	1	-	7	2	-	-	19	10	1	-
19	1	-	-	-	3	-	-	-	3	-	-	-	10	4	-	-
26	-	-	-	-	1	-	-	-	1	-	-	-	5	1	-	-
MAY 3	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUN 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP 6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	1	-	-	-	-	-	-	-	3	-	-	-
OCT 4	1	-	-	-	2	-	-	-	2	-	-	-	11	2	-	-
11	2	-	-	-	3	-	-	-	4	-	-	-	11	3	-	-
18	5	2	-	-	8	3	-	-	10	2	-	-	28	12	1	-
25	14	3	-	-	19	5	-	-	17	7	1	-	43	27	4	1
NOV 1	22	10	2	-	26	15	5	1	26	17	2	-	45	34	14	4
8	35	22	7	-	32	19	6	-	37	24	6	-	55	37	21	5
15	33	14	6	1	32	20	8	3	32	18	7	2	53	41	20	4
22	45	25	11	3	40	28	8	3	42	25	10	3	59	42	20	9
29	55	39	18	5	59	41	23	5	57	38	19	5	68	57	35	16
DEC 6	58	38	18	5	60	41	21	8	50	36	15	5	69	60	36	12
13	67	55	32	19	72	58	39	21	66	49	33	16	71	58	45	27
20	67	49	22	10	68	49	27	11	61	42	19	6	71	60	41	20
27	66	51	22	7	67	50	24	10	58	41	21	6	74	61	41	18
JAN 3	71	51	30	14	67	51	29	14	65	47	24	11	76	65	43	20
10	69	57	33	14	70	54	37	15	64	48	27	15	71	58	44	26
17	66	54	31	15	66	53	35	20	60	49	23	15	70	59	42	29
24	64	51	31	20	67	51	37	23	57	42	26	14	70	58	43	28
31	66	50	29	14	65	52	30	19	58	44	24	11	69	60	42	22
FEB 7	61	41	22	10	62	50	26	15	59	41	20	10	68	57	36	17
14	63	40	14	7	63	43	26	12	57	38	18	8	67	54	36	14
21	56	40	16	6	60	45	28	10	52	37	21	9	67	55	29	14

Table 3.--Percent Probability of High Temperature Occurrences

LOCATION :	ALLARDT				ASHWOOD				BOLIVAR				BROWNSVILLE			
WEEK OF	TEMPERATURE (DEGREES F) 80	85	90	95	TEMPERATURE (DEGREES F) 80	85	90	95	TEMPERATURE (DEGREES F) 80	85	90	95	TEMPERATURE (DEGREES F) 80	85	90	95
MAR 1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
8	1	-	-	-	1	-	-	-	4	1	-	-	4	1	-	-
15	3	-	-	-	3	-	-	-	6	1	-	-	5	-	-	-
22	3	-	-	-	1	-	-	-	4	-	-	-	4	-	-	-
29	8	1	-	-	9	1	-	-	18	3	-	-	17	3	-	-
APR 5	7	-	-	-	13	2	-	-	22	7	-	-	21	4	-	-
12	14	1	-	-	16	3	-	-	22	7	-	-	22	7	-	-
19	26	5	-	-	30	5	-	-	48	17	1	-	45	13	1	-
26	28	5	1	-	28	8	-	-	47	17	1	-	44	19	1	-
MAY 3	36	8	-	-	42	14	1	-	59	31	6	-	63	35	6	-
10	39	13	1	-	51	20	1	-	60	35	5	1	60	30	9	-
17	44	19	5	1	60	31	6	-	74	50	16	1	78	54	16	1
24	50	23	2	-	66	37	7	-	83	56	18	2	79	52	22	2
31	55	23	7	-	71	44	13	-	79	56	23	2	83	59	27	2
JUN 7	79	43	9	-	92	64	32	5	95	83	50	17	93	79	55	15
14	70	39	10	1	84	61	25	6	94	75	47	12	93	75	49	15
21	80	51	14	1	89	71	38	7	94	81	56	16	94	85	53	18
28	85	55	20	1	94	78	43	7	96	86	65	14	96	89	66	20
JUL 5	81	42	9	-	95	73	36	7	97	90	61	13	97	89	57	21
12	85	52	19	2	97	79	40	11	94	87	58	20	95	90	56	17
19	91	60	21	1	95	87	45	11	96	90	65	18	98	94	71	21
26	90	66	18	1	97	87	50	6	96	92	74	19	98	91	71	27
AUG 2	86	64	23	1	99	82	48	12	97	87	70	32	92	85	62	35
9	78	51	18	1	92	68	33	6	97	86	59	16	91	83	48	14
16	82	50	15	3	90	67	32	7	94	80	57	22	89	78	52	16
23	75	43	14	4	88	65	35	10	97	81	52	17	95	82	53	17
30	83	54	16	4	91	68	34	7	89	78	54	10	86	75	49	11
SEP 6	65	38	10	1	73	45	19	4	82	66	33	7	84	61	32	9
13	54	25	5	-	67	39	16	3	82	53	22	5	84	61	32	9
20	38	17	3	-	53	25	8	-	67	46	16	3	71	45	25	3
27	29	11	3	-	44	19	4	-	60	32	14	1	56	34	13	3
OCT 4	17	6	2	-	30	11	2	-	44	26	7	1	45	26	9	1
11	16	-	-	-	27	3	-	-	50	18	1	-	47	27	4	-
18	13	2	-	-	17	5	-	-	26	10	-	-	29	11	2	-
25	5	-	-	-	8	-	-	-	14	5	-	-	14	2	-	-
NOV 1	1	-	-	-	3	-	-	-	7	1	-	-	6	-	-	-
8	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-
15	-	-	-	-	1	-	-	-	5	-	-	-	4	-	-	-
22	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	JACKSON				JEFFERSON CITY				KINGSPORT				KNOXVILLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	80	85	90	95	80	85	90	95	80	85	90	95	80	85	90	95
MAR 1	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-
8	2	-	-	-	2	-	-	-	2	-	-	-	1	-	-	-
15	4	-	-	-	-	-	-	-	4	-	-	-	3	-	-	-
22	4	-	-	-	4	1	-	-	5	1	-	-	4	-	-	-
29	13	2	-	-	8	1	-	-	9	1	-	-	10	1	-	-
APR 5	18	3	-	-	8	-	-	-	10	1	-	-	10	-	-	-
12	19	4	-	-	12	2	-	-	18	4	-	-	19	4	-	-
19	34	8	-	-	37	8	-	-	43	14	-	-	36	10	-	-
26	38	14	1	-	31	13	-	-	38	15	1	-	39	15	1	-
MAY 3	46	20	3	-	44	15	-	-	47	19	1	-	42	22	1	-
10	55	29	3	-	48	19	2	-	50	21	3	-	52	25	2	-
17	65	39	12	1	56	25	6	-	63	29	4	-	62	37	10	1
24	74	48	19	1	67	37	4	-	65	29	2	-	63	37	10	-
31	76	50	23	4	65	25	3	-	72	31	4	-	75	45	13	2
JUN 7	95	79	44	11	86	57	13	-	87	63	18	1	86	66	24	3
14	91	66	42	8	82	53	17	1	86	55	15	-	84	58	29	6
21	91	75	51	16	88	63	25	2	92	72	30	4	86	70	43	5
28	93	83	52	13	90	72	36	6	98	79	34	7	96	75	43	10
JUL 5	97	82	49	13	87	64	22	2	92	64	20	1	93	69	29	5
12	97	87	56	21	92	74	26	4	97	75	30	1	92	76	40	14
19	96	89	66	19	98	84	32	2	98	84	33	3	97	83	45	8
26	98	90	69	18	98	80	44	7	96	78	41	2	97	84	49	11
AUG 2	97	86	62	25	99	84	43	10	97	75	27	2	98	80	42	6
9	96	82	53	16	87	67	30	6	91	71	24	1	93	72	37	5
16	94	76	48	15	95	81	34	6	93	72	28	4	94	74	29	7
23	93	70	40	13	87	63	25	6	91	64	21	5	87	66	29	8
30	87	74	42	8	87	72	33	6	90	63	20	2	88	70	31	8
SEP 6	79	56	29	4	76	53	21	3	80	50	17	1	78	51	18	3
13	75	50	21	5	66	41	14	2	65	39	10	1	68	40	11	1
20	61	40	14	1	54	31	9	3	51	31	7	2	52	28	9	1
27	53	26	8	2	40	15	6	1	41	15	3	-	45	17	3	-
OCT 4	42	17	5	-	24	6	-	-	25	9	1	-	28	10	2	-
11	44	15	2	-	34	3	-	-	31	3	-	-	27	3	1	-
18	25	10	-	-	13	2	-	-	14	1	-	-	14	3	-	-
25	11	1	-	-	3	-	-	-	4	-	-	-	3	-	-	-
NOV 1	3	-	-	-	3	-	-	-	4	-	-	-	2	-	-	-
8	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
15	3	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-
22	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	LEWISBURG				LOUDON				LYNNVILLE				MARTIN			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	80	85	90	95	80	85	90	95	80	85	90	95	80	85	90	95
MAR 1	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-
8	1	-	-	-	-	-	-	-	2	1	-	-	3	1	-	-
15	3	-	-	-	5	-	-	-	4	-	-	-	4	-	-	-
22	1	-	-	-	3	-	-	-	3	-	-	-	2	-	-	-
29	6	-	-	-	5	2	-	-	12	-	-	-	12	1	-	-
APR 5	9	1	-	-	14	-	-	-	14	2	-	-	19	5	-	-
12	15	2	-	-	18	4	-	-	19	4	-	-	20	5	-	-
19	30	3	-	-	41	12	2	-	34	9	-	-	36	11	-	-
26	29	9	1	-	46	22	1	-	36	12	-	-	41	16	1	-
MAY 3	43	16	1	-	50	22	3	-	46	18	2	-	48	25	3	-
10	48	20	3	-	56	27	6	-	54	27	7	-	60	33	4	-
17	60	31	11	2	67	41	17	3	63	40	9	1	70	42	13	1
24	69	40	11	2	73	47	15	3	71	41	15	-	75	49	21	2
31	72	42	15	2	85	59	25	3	78	49	19	1	80	58	26	7
JUN 7	90	66	35	3	90	65	35	8	93	74	34	9	96	83	54	15
14	87	65	34	10	91	65	39	9	89	68	33	5	91	67	44	12
21	93	75	41	8	92	71	56	17	91	75	50	11	89	79	51	13
28	94	74	46	14	97	81	53	11	95	83	54	18	97	85	59	21
JUL 5	94	77	37	7	97	78	36	10	98	82	47	13	97	83	56	15
12	95	81	45	13	94	80	41	14	95	82	52	13	95	88	59	18
19	96	88	53	15	97	89	53	15	96	90	55	14	98	89	68	20
26	95	86	56	10	97	93	68	15	96	89	70	19	96	91	70	24
AUG 2	96	88	58	15	98	85	54	19	96	88	62	24	97	91	66	33
9	94	78	41	11	99	84	55	14	94	82	48	14	97	86	61	16
16	93	79	45	11	94	79	38	10	96	81	48	16	93	81	54	17
23	94	72	36	8	92	72	43	9	93	76	39	10	95	76	47	20
30	91	77	42	12	94	81	52	17	89	75	48	15	86	71	38	10
SEP 6	78	56	29	7	61	65	32	5	80	58	27	7	82	59	34	5
13	69	43	20	3	78	51	21	1	76	48	24	5	79	53	25	6
20	58	36	14	1	64	36	12	2	60	37	14	2	61	40	14	1
27	51	24	5	-	56	26	8	-	54	28	8	-	57	27	10	1
OCT 4	39	16	4	-	44	19	8	-	40	19	4	-	44	19	3	-
11	36	9	-	-	34	8	-	-	40	10	1	-	45	19	1	-
18	25	9	-	-	22	7	-	-	24	10	-	-	26	10	1	-
25	7	1	-	-	4	1	-	-	12	2	-	-	13	2	-	-
NOV 1	3	-	-	-	6	1	-	-	5	-	-	-	2	-	-	-
8	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-
15	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	MEMPHIS				MIDDLESBCRO KY				MILAN				MONTEAGLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	80	85	90	95	80	85	90	95	80	85	90	95	80	85	90	95
MAR 1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	4	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-
15	5	-	-	-	3	1	-	-	3	-	-	-	-	-	-	-
22	2	-	-	-	6	1	-	-	3	-	-	-	-	-	-	-
29	14	2	-	-	6	3	-	-	10	2	-	-	4	-	-	-
APR 5	17	4	-	-	8	1	-	-	16	2	-	-	2	-	-	-
12	23	2	-	-	19	7	3	-	17	4	-	-	9	-	-	-
19	38	8	-	-	40	16	1	-	33	6	-	-	15	2	-	-
26	41	13	1	-	34	15	2	1	35	9	1	-	20	2	-	-
MAY 3	50	24	5	-	47	20	5	-	45	18	4	-	32	6	-	-
10	59	34	6	-	51	23	4	1	51	23	1	-	38	5	-	-
17	73	49	14	-	62	35	11	2	61	36	10	1	49	19	2	-
24	79	52	21	2	66	32	8	3	69	45	16	-	52	18	2	-
31	80	59	27	5	71	35	9	2	76	51	20	2	62	23	2	-
JUN 7	95	88	48	13	87	61	22	3	91	75	42	9	84	45	9	-
14	89	71	47	15	65	57	21	3	86	64	38	6	76	43	10	-
21	92	79	58	20	91	72	36	8	90	76	46	13	82	56	12	-
28	96	86	66	20	96	80	43	8	91	80	55	16	85	56	20	1
JUL 5	96	89	61	22	91	67	24	2	96	83	50	15	90	43	10	-
12	94	86	62	22	95	77	31	6	96	84	56	18	90	55	15	1
19	97	89	65	23	96	82	35	5	96	88	67	19	92	64	16	2
26	98	94	75	24	96	83	43	6	98	90	63	22	97	67	9	1
AUG 2	96	86	71	29	98	78	34	4	93	82	61	28	93	64	14	-
9	95	87	59	18	92	71	33	4	90	81	51	14	83	52	11	-
16	95	83	51	19	92	70	25	2	90	78	43	11	82	45	12	-
23	92	80	47	13	89	63	24	6	91	69	44	13	81	42	10	1
30	88	75	45	10	89	65	23	3	88	72	45	12	83	51	12	2
SEP 6	81	62	33	5	77	48	20	2	79	54	28	4	64	24	4	-
13	78	53	23	5	59	34	9	2	77	44	19	5	51	21	1	-
20	67	44	15	2	50	26	7	1	61	40	14	2	41	12	1	-
27	57	31	11	2	36	16	3	1	54	25	10	3	22	5	-	-
OCT 4	46	22	3	-	26	9	1	-	45	20	3	-	19	6	-	-
11	45	17	2	-	30	3	-	-	44	14	1	-	10	-	-	-
18	29	10	-	-	13	3	-	-	23	8	-	-	7	-	-	-
25	15	2	-	-	6	1	-	-	10	-	-	-	-	-	-	-
NOV 1	4	-	-	-	4	-	-	-	5	-	-	-	-	-	-	-
8	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
15	4	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	MURFREESBURO				NASHVILLE				NEWBERN				NEWPORT			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	80	85	90	95	80	85	90	95	80	85	90	95	80	85	90	95
MAR 1	-	-	-	-	1	-	-	-	-	-	-	-	3	1	-	-
8	2	-	-	-	2	1	-	-	2	1	-	-	1	-	-	-
15	5	-	-	-	4	1	-	-	3	-	-	-	5	2	-	-
22	3	-	-	-	2	-	-	-	3	1	-	-	7	2	-	-
29	11	1	-	-	9	2	-	-	13	3	-	-	12	3	-	-
APR 5	18	2	-	-	11	3	-	-	12	1	-	-	16	3	-	-
12	22	3	-	-	17	3	1	-	16	3	-	-	24	7	1	-
19	40	11	-	-	39	11	-	-	40	10	1	-	45	21	2	-
26	40	12	-	-	37	16	-	-	36	16	1	-	43	19	3	-
MAY 3	54	23	2	-	53	25	4	-	55	33	7	1	53	27	11	-
10	59	29	4	-	50	30	4	-	57	29	7	-	54	29	7	-
17	70	40	14	2	67	39	11	1	74	48	16	1	69	44	15	2
24	75	49	15	1	67	40	15	-	78	52	21	3	75	46	16	2
31	82	57	22	2	80	53	16	1	79	58	29	6	76	52	24	3
JUN 7	93	79	40	7	88	73	35	11	95	83	52	20	89	75	39	9
14	91	73	42	9	85	66	39	6	88	69	42	12	88	72	35	10
21	94	78	54	15	89	72	51	13	85	77	54	14	94	77	51	12
28	95	86	54	18	96	82	53	16	95	89	67	21	93	83	55	20
JUL 5	98	84	47	13	94	80	45	14	98	90	54	17	93	81	36	7
12	94	84	52	16	94	82	49	13	93	86	59	14	96	84	47	16
19	96	90	62	16	97	91	66	13	93	86	63	17	97	90	55	9
26	97	94	67	17	96	89	66	15	94	90	68	21	97	88	62	21
AUG 2	98	91	61	25	96	89	58	18	97	89	65	26	97	85	57	16
9	96	83	50	14	91	77	42	6	97	87	52	14	95	82	43	14
16	95	83	48	14	89	79	48	14	92	77	54	17	95	83	41	9
23	95	77	42	15	94	77	48	14	92	82	50	14	92	77	40	8
30	93	81	48	12	89	73	40	8	84	65	36	7	90	77	40	11
SEP 6	84	63	32	7	76	51	30	5	77	55	31	6	86	55	24	4
13	77	49	23	2	73	45	24	5	81	51	21	4	75	48	20	2
20	63	39	15	1	55	37	11	2	66	38	14	3	55	36	14	2
27	61	30	9	1	48	25	6	1	56	26	12	3	50	24	6	1
OCT 4	43	23	6	-	31	14	3	-	39	21	4	-	31	13	4	-
11	44	14	-	-	42	12	-	-	50	23	1	-	35	5	-	-
18	25	11	1	-	19	6	-	-	24	8	2	-	15	3	-	-
25	8	1	-	-	7	1	-	-	14	2	-	-	3	-	-	-
NOV 1	6	-	-	-	4	-	-	-	3	-	-	-	3	-	-	-
8	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-
15	1	-	-	-	1	-	-	-	3	-	-	-	1	-	-	-
22	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	OAK RIDGE				PALMETTO				PARIS				ROGERSVILLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	80	85	90	95	80	85	90	95	80	85	90	95	80	85	90	95
MAR 1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	1	-	-	-	1	1	-	-	2	-	-	-	1	-	-	-
15	-	-	-	-	3	-	-	-	3	1	-	-	3	-	-	-
22	3	-	-	-	3	-	-	-	6	-	-	-	4	-	-	-
29	8	1	-	-	11	1	-	-	12	2	-	-	10	-	-	-
APR 5	10	1	-	-	10	3	-	-	20	3	-	-	10	-	-	-
12	18	3	-	-	23	4	-	-	18	6	1	-	19	3	-	-
19	36	10	1	-	28	5	-	-	34	11	-	-	36	11	1	-
26	35	11	1	-	31	9	-	-	38	17	2	-	37	14	1	-
MAY 3	51	20	5	-	49	18	2	-	46	23	4	-	40	17	-	-
10	48	21	5	-	54	22	3	-	51	28	3	-	49	14	2	-
17	63	31	10	-	65	37	10	2	62	38	13	1	54	28	5	1
24	60	32	6	-	70	39	13	2	72	45	17	2	61	32	3	-
31	75	31	6	1	79	50	13	1	72	51	22	4	72	37	7	-
JUN 7	86	57	21	2	69	70	37	6	93	78	47	14	87	62	17	1
14	86	55	27	4	88	66	31	5	86	65	40	13	77	45	15	3
21	91	69	34	5	69	74	46	11	90	77	49	19	86	69	33	6
28	95	74	40	7	95	81	53	14	90	79	52	16	93	74	34	6
JUL 5	93	62	23	5	99	80	42	11	92	82	54	17	92	68	20	1
12	91	66	32	8	97	80	49	16	93	85	55	16	97	77	37	8
19	95	76	33	5	95	90	48	12	95	88	70	27	98	83	36	3
26	97	79	49	6	97	92	63	16	97	92	70	29	96	82	41	9
AUG 2	97	71	37	7	91	83	58	18	96	87	65	33	93	77	33	4
9	91	68	27	6	91	75	45	15	91	80	54	18	90	69	31	5
16	95	68	26	9	91	72	42	17	90	80	54	20	92	75	32	5
23	93	60	23	5	87	69	42	9	90	71	43	17	90	63	22	5
30	88	64	26	7	90	75	41	12	84	74	47	12	88	71	34	6
SEP 6	76	44	12	1	81	57	27	8	77	60	37	7	82	55	20	3
13	68	36	11	1	77	46	23	4	77	53	26	7	69	40	12	-
20	49	24	6	1	63	37	14	1	60	42	18	3	55	30	9	-
27	39	12	1	-	53	26	4	-	54	28	9	2	45	21	7	-
OCT 4	24	6	1	-	41	15	3	-	43	21	5	-	28	12	4	-
11	27	2	-	-	41	14	1	-	46	16	2	-	32	5	-	-
18	9	1	-	-	22	10	1	-	30	14	2	-	19	3	-	-
25	3	-	-	-	5	2	-	-	14	2	-	-	5	-	-	-
NOV 1	3	-	-	-	3	-	-	-	6	-	-	-	4	-	-	-
8	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-
15	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	SAMBURG				SPRINGFIELD				TULLAHOMA				WAYNESBORO			
WEEK OF	TEMPERATURE (DEGREES F) 80	85	90	95	TEMPERATURE (DEGREES F) 80	85	90	95	TEMPERATURE (DEGREES F) 80	85	90	95	TEMPERATURE (DEGREES F) 80	85	90	95
MAR 1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
8	1	-	-	-	1	1	-	-	1	-	-	-	2	1	-	-
15	3	-	-	-	3	-	-	-	5	-	-	-	3	-	-	-
22	3	-	-	-	2	-	-	-	1	-	-	-	2	-	-	-
29	12	2	-	-	7	1	-	-	10	-	-	-	10	1	-	-
APR 5	13	3	-	-	11	2	-	-	15	-	-	-	18	3	-	-
12	14	4	-	-	10	3	-	-	18	3	-	-	15	3	-	-
19	33	13	1	-	29	5	-	-	33	8	-	-	38	11	-	-
26	36	14	2	-	28	4	-	-	35	11	1	-	39	9	1	-
MAY 3	46	24	7	-	37	15	2	1	43	19	1	-	53	22	3	-
10	51	29	6	-	40	14	1	-	54	25	4	-	49	21	1	-
17	68	47	18	3	55	23	6	-	60	36	10	1	65	32	5	-
24	77	50	21	3	58	32	5	-	68	36	12	1	70	42	7	-
31	77	60	27	6	68	38	14	1	76	47	14	2	69	42	9	-
JUN 7	93	84	52	17	90	65	30	3	90	69	32	4	88	66	30	3
14	88	69	45	15	80	62	31	7	87	63	30	9	84	61	32	6
21	93	83	52	18	87	71	40	10	89	73	40	10	90	76	40	7
28	93	84	63	26	92	74	42	11	95	80	44	12	92	73	44	11
JUL 5	95	88	61	24	91	75	38	7	96	75	36	6	96	78	43	10
12	92	87	65	22	93	77	37	12	96	82	45	13	91	75	42	11
19	93	87	72	32	95	84	55	15	96	86	44	10	95	90	54	12
26	92	90	69	34	96	86	50	11	98	90	51	9	97	84	58	10
AUG 2	92	85	67	33	95	81	52	14	98	83	52	14	97	87	60	17
9	93	85	58	25	88	73	39	8	92	79	40	10	91	77	43	8
16	92	85	54	22	87	69	39	11	94	74	37	7	87	74	43	8
23	91	75	45	19	86	63	33	13	94	74	36	6	91	74	39	12
30	89	73	48	12	91	68	29	8	90	74	39	8	87	73	39	11
SEP 6	76	56	34	7	74	51	23	7	79	52	18	5	78	55	19	4
13	74	51	23	5	61	37	18	4	71	43	13	-	71	40	22	6
20	59	41	15	3	54	29	7	2	53	32	9	1	61	34	11	2
27	48	27	6	3	42	19	5	2	48	20	2	-	50	25	7	1
OCT 4	40	19	4	-	31	7	1	-	34	11	2	-	33	16	4	1
11	40	13	1	-	31	8	-	-	34	9	-	-	40	8	1	-
18	22	8	-	-	19	6	-	-	20	4	-	-	21	7	-	-
25	11	1	-	-	7	1	-	-	8	-	-	-	8	2	-	-
NOV 1	5	-	-	-	4	-	-	-	3	-	-	-	4	-	-	-
8	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
15	3	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
22	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	DOVER				FRANKLIN				GATLINBURG				GREENEVILLE			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	80	85	90	95	80	85	90	95	80	85	90	95	80	85	90	95
MAR 1	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
8	2	1	-	-	2	1	-	-	1	-	-	-	2	-	-	-
15	4	-	-	-	5	-	-	-	6	-	-	-	2	-	-	-
22	5	1	-	-	4	-	-	-	6	1	-	-	2	-	-	-
29	13	4	-	-	11	2	-	-	10	1	-	-	11	-	-	-
APR 5	22	7	-	-	17	3	-	-	14	3	-	-	10	1	-	-
12	24	7	-	-	23	4	-	-	25	5	-	-	18	-	-	-
19	51	20	2	-	37	12	1	-	47	17	2	-	35	12	-	-
26	38	15	3	-	38	14	1	-	40	19	1	-	24	5	-	-
MAY 3	55	25	5	-	52	26	4	-	49	23	2	-	53	21	1	-
10	50	27	2	-	58	29	4	-	52	25	2	-	49	21	2	-
17	65	35	10	-	69	43	13	1	64	39	9	1	62	32	10	-
24	66	42	11	1	75	47	16	1	67	34	9	1	63	35	4	-
31	71	47	16	1	80	55	23	3	74	42	14	2	76	27	-	-
JUN 7	91	74	36	10	92	77	47	10	87	63	23	2	96	67	19	-
14	86	63	35	7	92	72	44	7	80	57	21	3	86	54	16	1
21	90	72	44	11	95	78	53	15	89	70	36	5	90	65	23	3
28	94	80	52	16	94	83	56	17	91	70	37	6	96	80	32	4
JUL 5	94	73	41	10	95	78	47	12	87	59	23	1	91	68	15	-
12	92	79	45	10	91	80	53	16	93	72	34	6	95	81	21	-
19	96	88	58	13	88	84	63	15	97	81	31	5	99	87	22	-
26	97	89	61	14	90	84	65	16	96	83	42	4	98	77	38	-
AUG 2	96	84	50	24	91	85	59	24	97	74	34	3	99	81	29	-
9	95	74	49	11	87	73	41	12	90	68	28	5	90	58	13	-
16	90	75	46	16	88	75	47	13	94	70	24	3	97	78	22	1
23	92	75	43	17	84	63	33	8	89	53	23	5	87	62	16	4
30	90	68	35	5	79	66	40	10	89	65	30	5	91	66	20	-
SEP 6	77	54	21	4	71	49	25	5	77	47	17	2	80	54	12	-
13	72	42	19	4	69	42	19	3	67	38	14	1	58	31	12	-
20	57	32	8	2	62	39	17	3	50	31	9	1	58	36	7	-
27	46	22	6	1	54	26	7	-	42	18	5	-	36	3	1	-
OCT 4	35	14	2	-	42	19	4	-	27	11	3	-	21	3	-	-
11	37	9	-	-	45	11	-	-	23	5	-	-	37	-	-	-
18	20	6	-	-	25	7	-	-	15	2	-	-	9	-	-	-
25	11	2	-	-	9	-	-	-	3	-	-	-	3	-	-	-
NOV 1	4	-	-	-	6	-	-	-	2	-	-	-	1	-	-	-
8	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
15	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-
22	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION :	COVINGTON				CROSSVILLE				DALE HOLLOW DAM				DICKSON			
WEEK OF	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
	80	85	90	95	80	85	90	95	80	85	90	95	80	85	90	95
MAR 1	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
8	1	-	-	-	-	-	-	-	2	1	-	-	2	1	-	-
15	4	-	-	-	-	-	-	-	2	-	-	-	2	1	-	-
22	3	-	-	-	-	-	-	-	4	1	-	-	5	-	-	-
29	11	3	-	-	1	-	-	-	11	3	-	-	12	3	-	-
APR 5	19	4	-	-	2	-	-	-	12	3	-	-	16	4	-	-
12	16	2	-	-	5	1	-	-	20	5	-	-	21	5	2	-
19	34	8	-	-	13	1	-	-	46	22	1	-	40	16	1	-
26	37	11	-	-	12	2	-	-	38	18	2	-	40	17	2	-
MAY 3	46	22	3	-	24	4	-	-	52	27	4	-	59	29	6	-
10	55	26	4	-	26	5	-	-	48	31	4	-	51	32	5	-
17	67	42	12	2	35	11	1	-	66	39	12	1	73	44	9	1
24	76	53	19	-	44	10	1	-	71	45	13	1	73	47	13	-
31	78	55	26	4	46	18	2	-	73	48	12	1	76	52	15	2
JUN 7	95	83	50	14	67	29	2	-	86	72	28	4	93	76	38	9
14	90	68	44	13	62	27	7	-	88	65	33	7	86	67	38	5
21	93	83	54	21	78	43	9	1	97	77	43	8	90	73	42	9
28	92	80	54	16	74	47	17	2	98	81	44	15	94	84	55	16
JUL 5	95	82	58	21	72	35	7	-	96	71	31	6	97	82	49	12
12	94	87	58	22	81	47	11	1	94	81	44	9	93	81	43	11
19	94	88	69	22	69	51	16	2	97	90	54	12	96	90	61	11
26	97	91	70	24	89	58	16	2	97	88	58	16	95	89	65	19
AUG 2	95	86	66	30	83	55	14	1	99	90	57	15	97	87	59	23
9	96	85	57	18	77	34	13	2	91	76	40	12	92	72	46	9
16	94	83	51	17	80	36	12	2	94	83	47	13	90	78	50	17
23	92	74	46	13	70	34	9	2	96	75	40	12	95	76	43	16
30	87	72	44	11	76	43	12	1	93	74	42	7	86	71	38	7
SEP 6	80	57	33	6	57	21	6	1	82	54	29	8	77	55	27	6
13	76	53	23	3	45	18	5	-	69	44	23	6	77	47	22	7
20	65	40	17	1	33	9	3	1	58	40	16	2	56	35	11	2
27	55	29	8	2	21	6	1	-	50	23	7	1	46	21	9	2
OCT 4	45	22	5	-	12	5	-	-	38	10	4	-	35	14	4	-
11	47	18	2	-	9	-	-	-	41	10	1	-	40	7	-	-
18	29	10	-	-	10	-	-	-	22	9	-	-	14	5	-	-
25	15	1	-	-	1	-	-	-	5	1	-	-	7	1	-	-
NOV 1	4	-	-	-	-	-	-	-	5	-	-	-	2	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	4	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.--(continued) Percent Probability of High Temperature Occurrences

LOCATION : CARTHAGE, CHATTANOOGA

WEEK OF	Carthage 80	Carthage 85	Carthage 90	Carthage 95	Chattanooga 80	Chattanooga 85	Chattanooga 90	Chattanooga 95
	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
MAR 1	-	-	-	-	2	-	-	-
8	1	-	-	-	2	-	-	-
15	5	-	-	-	6	-	-	-
22	6	-	-	-	5	-	-	-
29	12	1	-	-	13	4	-	-
APR 5	14	2	-	-	19	1	-	-
12	21	3	-	-	24	6	1	-
19	41	13	1	-	41	13	-	-
26	39	18	1	-	41	18	2	-
MAY 3	47	23	5	-	46	28	8	-
10	55	28	5	-	60	33	9	-
17	65	36	12	4	70	43	14	3
24	68	38	14	2	76	48	17	2
31	76	50	19	2	81	55	22	4
JUN 7	90	68	36	9	92	75	38	8
14	85	67	41	9	90	67	38	12
21	91	76	49	11	92	78	51	15
28	91	78	44	17	92	80	50	17
JUL 5	93	78	37	7	94	77	37	5
12	95	81	46	16	95	85	50	13
19	94	86	54	17	95	89	56	13
26	97	86	57	18	96	91	68	20
AUG 2	98	87	55	19	97	86	56	14
9	96	78	45	14	94	79	48	9
16	94	79	38	14	95	83	46	13
23	91	70	40	16	92	72	41	10
30	90	80	40	12	93	77	44	13
SEP 6	79	55	30	7	83	62	21	4
13	71	47	20	3	73	49	15	2
20	62	36	13	1	59	37	9	1
27	55	25	8	1	53	21	5	-
OCT 4	36	17	6	-	35	11	4	-
11	36	11	1	-	30	8	-	-
18	20	7	-	-	20	5	-	-
25	8	-	-	-	7	1	-	-
NOV 1	6	-	-	-	5	-	-	-
8	-	-	-	-	-	-	-	-
15	1	1	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-

LOCATION : CLARKSVILLE, COPPERHILL

WEEK OF	Clarksville 80	Clarksville 85	Clarksville 90	Clarksville 95	Copperhill 80	Copperhill 85	Copperhill 90	Copperhill 95
	TEMPERATURE (DEGREES F)				TEMPERATURE (DEGREES F)			
MAR 1	2	-	-	-	-	-	-	-
8	2	1	-	-	1	-	-	-
15	7	2	-	-	3	-	-	-
22	8	1	-	-	4	-	-	-
29	16	5	1	-	9	3	-	-
APR 5	19	6	-	-	11	3	-	-
12	27	9	1	-	16	5	-	-
19	46	24	2	-	37	9	1	-
26	43	20	5	-	35	11	1	-
MAY 3	49	25	8	-	45	25	1	-
10	56	34	8	-	50	22	2	-
17	69	41	15	2	64	35	10	-
24	74	46	22	3	67	36	8	-
31	79	51	23	5	72	41	10	-
JUN 7	92	82	45	14	87	62	24	2
14	88	68	43	9	85	59	24	2
21	89	75	55	21	89	75	41	5
28	92	82	56	22	92	70	39	12
JUL 5	94	82	54	14	90	70	25	4
12	94	84	61	19	94	75	40	6
19	93	86	64	20	96	82	41	4
26	96	90	71	29	95	86	42	4
AUG 2	90	82	60	25	96	83	43	5
9	88	75	53	18	94	74	26	5
16	88	75	50	19	95	76	35	5
23	90	72	39	11	88	66	26	2
30	86	71	40	7	89	71	35	2
SEP 6	79	60	32	10	78	51	13	2
13	74	48	27	8	63	37	9	-
20	60	33	17	3	55	26	4	-
27	54	28	9	3	37	12	1	-
OCT 4	38	19	4	1	28	9	1	-
11	40	17	2	-	27	2	-	-
18	26	12	1	-	12	-	-	-
25	15	5	-	-	2	-	-	-
NOV 1	5	1	-	-	1	-	-	-
8	1	-	-	-	-	-	-	-
15	5	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-

(Continued from inside front cover)

EDSTM 15 Improved Estimates of Winds at Standard Heights Generated From Winds Recorded at Standard Pressure Levels. Harold L. Crutcher, Russell F. Lee, and H. B. Harshbarger, March 1970. (PB-192-904)

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