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University of Tennessee Agricultural Experiment Station

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by John M. Safley, Jr. and William L. Parks

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Agricultural Drouth Probabilities In Tennessee

John M. Safley, Jr. and William L. Parks*

An understanding of natural conditions which affect soil water status and the response of plants to that status is needed to guide efficient water management for crops.

Irrigation experiments provide information on adequate soil moisture levels for profitable crop response (8, 9); however, these efforts must be supported by knowledge concerning the general soil moisture condition through time in the area where irrigation data are applied. Moisture stress conditions must be described in terms of the relative frequency of occurrence and how occurrence is related to the nature of crop and soil. Human activities related to crop production are intimately related to soil moisture conditions during the preplanting period, the growing season, and the time of harvest.

In this work special attention has been given to the growing season for purposes of evaluating water use models in relation to crop yields.

Agricultural drouth is a result of soil moisture deficiencies. The occurrence of agricultural drouth is related to the pattern of precipitation, but it is generally an effect of it. The rate at which crops use soil water and the capacity of the soil for moisture entry and retention influence the pattern and intensity of agricultural drouth.

It is the purpose of this bulletin to describe a method for characterizing agricultural drouth and to apply it to conditions within the state of Tennessee.

GENERAL CLIMATE OF TENNESSEE

The climate of Tennessee is classified as Humid Mesothermal. It is characterized by a definite seasonal rhythm caused by passage of migratory 'high' and 'low' pressure systems across the state in an easterly direction. Weather systems which influence the state originate either in the interior portion of North America or over the Gulf of Mexico. The latter is the primary source of moisture and warm air.

The annual average precipitation varies widely across the state (Table 1). In West Tennessee rainfall ranges from about 48 inches in the Mississippi bottom-

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lands in the northwest to 55 inches in the low hills of the southeastern area. Middle Tennessee experiences about 45 inches in the northern region to about 55 inches in the south. Precipitation patterns in East Tennessee also follow the same trend as evidenced in the other regions. Average annual precipitation ranges from about 42 inches in the northern portion of the Ridge and Valley Province to over 50 inches in the southern region and 60 inches on the southern Cumberland Plateau. The mountainous eastern portion of East Tennessee receives more rainfall than anywhere else in the state. Over 80 inches of rain per year is usual on the higher peaks of the Appalachian and Unaka Ranges.

The general trend from north to south of increasing precipitation is more pronounced in winter and early spring due to frequent storm systems which pass over the northern portion of the state. A secondary maximum of precipitation occurs in midsummer due to thundershower activity. Hail is occasionally associated with these localized storms. Tornadoic winds are occasional during periods of severe thunderstorm activity. Seasonal snowfall averages 5 to 10 inches in West Tennessee, 4 to 6 inches in Middle Tennessee, and from 4 to 24 inches in East Tennessee depending upon elevation.

Average annual evapotranspiration for the state (Table 2) ranges from 26.21 inches at Crossville on the Cumberland Plateau to 33.75 inches in Memphis near the Mississippi River. With the exception of a few locations, evapotranspiration tends to decrease from the southern tier of counties to those along the northern border.

The average annual temperature of 60° F in West Tennessee is the warmest in the state. Average annual temperature varies from about 60° F in the Central Basin to 55° F on the Highland Rim; mean annual temperatures in the Ridge and Valley Province increase from north to south. Temperatures of the southern counties of East Tennessee are comparable to those of Middle and West Tennessee. The period between last freeze in spring and the first freeze in fall extends from early April through most of October. The average date of last freeze in spring at lower elevations in West Tennessee ranges from March 20 in the southwest to April 6 in the north. Average first date of freezing temperature in the fall in West Tennessee ranges from October 23 in the north to November 12 in the southwest. The growing season ranges from 150 days or less in the northern portion of the Cumberland Plateau and in the mountains to 200 days in the Valley of East Tennessee and the northern tier counties of Middle and West Tennessee. The growing season reaches a maximum of about 237 days at Memphis and the adjacent southern tier counties.

AGRICULTURAL DROUTH

To quantify drouth for purposes of analysis one of the more useful concepts is that of the drouth-day. Van Bavel (15) observed that agricultural drouth should be defined on the basis of available soil water conditions and subsequent plant behavior. He postulated the concept of drouth-day as a 24-hour period (beginning at the time at which the precipitation of the previous day was re-

corded) in which the soil moisture stress exceeds a limit at which crop growth processes are depressed. As a measure of drouth, a drouth-day occurred whenever available soil moisture was depleted to a point critical for normal plant processes as estimated from precipitation and evapotranspiration data by a moisture balance method. Calculation of drouth probability has been performed for several states and regions using this approach (7, 16, 17, 18, 19).

Rainfall has four fates: 1) surface runoff; 2) evaporation from soil and plant surfaces; 3) transpiration; and, 4) percolation (1). Evapotranspiration (ET), or consumptive-use (2) as it is sometimes called, is water loss from a unit area during a specified time by evaporation from the soil surface and by transpiration from plants (4). Thornthwaite (14) developed the concept of potential evapotranspiration (PE) and defines it as the water loss from a moist tract completely covered by vegetation and large enough to prevent an oasis effect. Penman (10) defines PE similarly as the amount of water transpired per unit time by a short, green crop which completely shades the ground, is of uniform height, and never experiences water shortage.

WATER USE MODELS

Thornthwaite Model

Thornthwaite derived an empirical formula for estimating PE from his research in the eastern United States. The formula can be expressed as

$$PE = 16(10T/I)^a \text{ mm per month}$$

where

$$a = (0.675I^3 - 77.1I^2 + 17,920I + 492,390) \times 10^{-6}$$

and

$$I = \sum_{1}^{12} \left(\frac{T}{5} \right)^{1.154}$$

PE is the unadjusted evapotranspiration expressed as total millimeters per month of 30 days; T is the mean monthly temperature in degrees Celsius; I is the annual heat index which is composed of 12 monthly index values. Conversion of millimeters to inches can be accomplished by multiplying by 0.0394. Thornthwaite justified exclusion of climatic factors other than temperature by stating that those factors vary significantly with temperature.

This formula is valid only when the mean air temperature is between 32° F and 80° F. For lower temperatures the PE is assumed to be zero and for higher temperatures the rate increases monotonically with increasing temperature and is independent of the heat index I (12).

Penman Model

Penman (10) combined the aerodynamic and energy budget approaches to derive an expression with which to approximate evaporative loss from an open

water surface. An aerodynamic factor accounted for turbulent transport of water vapor by eddy diffusion while the energy budget accounted for degradation of incoming solar radiation by evaporation. The use of a corrective factor (usually .75) is required to adjust calculated loss to evapotranspirative loss. Smalley¹ (personal communication) has expressed the equation in expanded form for clarity; it appears as:

$$\begin{aligned} P. E. = & \left(\frac{\Delta}{\Delta + \gamma} \right) R_a (1-r) (.18 + .55 n/N) \\ & - \left(\frac{\Delta}{\Delta + \gamma} \right) \sigma T^4 (.56 - .092\sqrt{VP}) (.10 + .90 n/N) \\ & + \left(\frac{\gamma}{\Delta + \gamma} \right) .35 (1 + W/100) (SVP-VP) \end{aligned}$$

in millimeters evaporation per day, where

- Δ = slope of the saturation vapor pressure curve at mean air temperature in millibars, per °C;
- γ = constant of the wet and dry bulb psychrometer equation;
- R_a = Angot's value (the theoretical incoming shortwave radiation at the outer limits of the atmosphere);
- r = albedo
- n = actual hours of sunshine
- N = theoretical duration of sunshine
- σT^4 = black body radiation proportional to the fourth power of the temperature in degrees Kelvin (°K).
- VP = mean vapor pressure at mean air temperature;
- SVP = saturation vapor pressure at mean air temperature;
- W = wind run at a standard height of two meters;

Penman's formula requires data for radiation, humidity, temperature, wind, and albedo; these data are available only from first order weather stations. Three difficulties are inherent in the Penman equation: 1) the conversion of calculated PE to ET over vegetation is difficult to calculate or approximate; 2) the equation describes only those areas where optimum water supply is maintained; and, 3) the data required for the equation can be obtained from only five locations in Tennessee and inferences of data from these to other sites is not always accurate.

¹Smalley, G. W. Algorithms for estimating evapotranspiration using Penman's formula. Unpublished report, University of Tennessee, July, 1973.

Moisture Balance Procedure

Calculation of drouth-days by a soil-moisture balance method requires a model of moisture status. The model used in these calculations was

$$SMS_i = SMS_{i-1} - PE + (P-RO)$$

where SMS_i is the current soil moisture status, SMS_{i-1} is the soil moisture status of the previous day, PE is the amount of calculated evapotranspiration for that day, P is precipitation input, and RO is runoff loss from the system. Precipitation in excess of available soil storage is considered lost from the system by runoff. When the soil moisture status reaches 0 inch, a drouth-day occurs. A negative moisture status is not allowed in terms of model constraints where

$$0'' \leq SMS_i \leq A.W.H.C.$$

Drouth-days were calculated for each of six available water-holding capacities (A.W.H.C.): 1, 2, 3, 4, 5, and 7 inches. These relate to most Tennessee soil-crop situations and provide a means to relate drouthiness to soil moisture conditions.

COMPUTATION METHOD

Precipitation and temperature data used in this study were obtained from daily records collected by National Weather Service Climatological Cooperative Stations and first-order stations, and at Tennessee Agricultural Experiment Station research stations. These 50 locations were selected for completeness of temperature record and have been used in many other climatic studies (5, 6, 13).

Because the data base contained such a volume of data, the information presented in the tables was obtained almost entirely through the use of digital computer programs. To select the most appropriate method of calculating evapotranspiration losses, the three water use models were employed. Drouth-days by climatic week using these values and regressions of drouth-days against crop yields from variety trials were calculated (11). Yield data for corn, cotton, and burley tobacco were extracted from Tennessee variety trials 1947-1970. All varieties of each crop were used as being representative of the range of crop response to soil moisture with the assumption that management inputs to these would be consistent with advancements in agricultural practice.

The Thornthwaite method proved to be the most responsive way of calculating water loss (11) and the probabilities derived from drouth-days calculated by this method are reported here. The Thornthwaite method has the advantage of requiring mean temperature as input where the Penman model requires data which is not available for most Tennessee locations. Low response of the Penman method can be attributed to effects of extrapolation of data from a few scattered sites to other areas.

Interpretation of the Data

Blumenstock (3) evaluated drouth occurrence by means of the theory of

probability. Drouth occurrence deviates from a random distribution due to the non-random nature of rainfall distribution, soil properties, and the seasonality of temperature and evapotranspiration. Frequency distribution, which compares the number of occurrences with exact drouth periods, more closely defines probability of drouth. These distributions are more representative in that they cover the entire range of drouth occurrence (0-7 drouth-days per week) and do not give undue emphasis to drouths of excessive length.

For each site a table (Tables 3 through 52) is presented which contains probability of occurrence for drouth from 1 to 7 days per week. Probabilities were calculated for each of seven available water holding capacities. Within each 7-day period drouth probabilities have been accumulated from right to left so that, for example, the value in any column is the total of the probabilities for both it and the column to its right. In other words, it is the probability of occurrence of "X" or more drouth days for the week in question. To arrive at the individual probability for "X" days of drouth, one must subtract the value in the $X^{\text{th}} + 1$ day column from the value in the X^{th} day column. Probabilities of no drouth **have not been added** into the accumulation and their values are as they appear in the tables.

As an example, suppose one were interested in the probability of occurrence of two or more drouth-days for the week of July 26 at Ashwood on a 3-inch A.W.H.C. soil. The accumulated probability for two-plus days is 47 percent. To derive the probability of only 2 days for that week, no more no less, the value is 6 percent, or 47 minus 41. These values can be interpreted as 47 years out of each 100 there will be at least two drouth days on this soil during this week; however, a more realistic evaluation would be 5 years out of 10. The probability of no deficit (0 days) for that week is 50 percent or 5 of every 10 years.

Available water holding capacities allow the values in these tables to be applied to a wide range of soils and soil-crop situations. Conditions affecting these soils, shallow-rooted crops, or crops with a high moisture requirement would be reflected in the 1-, 2-, or 3-inch columns. For thicker soils or for deeper-rooted crops and vegetation, values from the 4-, 5-, or 7-inch columns are probably most appropriate. Drouth probabilities for the medium to largest moisture capacities also reflect ground water depletions in relation to water supplies from wells, ponds, and ground water, itself.

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Table 1. Monthly and yearly precipitation mean (in inches) for all stations

Station	Jan.	Feb.	Mar.	Apr.	May	June	July
Allardt	5.07	4.83	5.45	4.80	4.04	4.91	5.27
Ashwood	5.50	5.53	6.09	4.75	4.15	3.87	4.60
Bolivar	6.17	5.11	5.54	4.76	3.78	3.99	4.18
Brownsville	6.06	5.04	5.69	4.89	4.16	3.79	4.39
Carthage	5.62	5.14	5.67	4.14	3.84	4.56	4.56
Chattanooga	5.61	5.37	5.64	4.29	3.52	3.70	5.11
Clarksville	5.64	4.45	5.55	4.21	3.70	3.49	3.72
Copperhill	5.57	5.74	6.41	4.82	3.60	4.48	5.66
Covington	5.77	4.84	5.72	4.82	4.42	3.62	3.84
Crossville	5.62	5.81	5.90	4.55	3.85	4.18	4.67
Dale Hollow Dam	5.30	5.05	5.40	4.44	3.86	4.67	4.93
Dickson	6.06	4.76	5.57	4.41	4.24	3.72	4.48
Dover	5.39	4.37	5.52	3.97	3.88	3.78	4.20
Fayetteville	5.47	5.53	5.36	4.23	4.05	3.31	5.05
Franklin, Ky.	4.81	4.37	4.92	4.00	4.39	3.76	4.03
Franklin	5.41	5.17	5.52	4.14	3.69	3.61	3.91
Gatlinburg	4.62	4.85	5.47	4.62	4.25	5.03	6.56
Greeneville	3.66	3.83	4.49	3.23	3.24	3.58	5.08
Huntingdon	5.41	4.39	5.33	4.31	4.54	3.54	3.97
Jackson	6.00	4.91	5.44	4.66	3.97	4.08	4.46
Jefferson City	4.41	4.75	4.68	3.34	3.70	3.37	4.75
Kingsport	3.86	4.11	4.37	3.43	3.49	3.27	4.92
Knoxville AP	4.88	4.81	4.73	3.70	3.50	3.33	4.82
Knoxville	4.41	4.28	4.85	4.22	3.93	4.22	4.70
Lewisburg	5.55	5.91	5.89	4.41	3.87	3.57	4.63
Loudon	5.28	5.26	5.39	3.95	3.65	3.39	5.05
Lynnville	5.74	6.21	6.37	4.91	4.07	3.64	4.59
Martin	5.33	4.76	5.53	4.30	4.30	4.47	4.11
Memphis AP	6.07	4.69	5.07	4.63	4.23	3.68	3.54
Memphis	5.81	4.55	4.90	4.62	4.03	3.64	3.42
Middlesboro, Ky.	4.90	4.34	5.36	4.31	4.01	4.59	4.67
Milan	5.92	4.72	5.96	4.73	4.22	4.28	4.42
Monteagle	5.97	6.30	6.76	5.69	4.39	4.38	5.45
Moscow	5.61	5.34	5.57	4.75	4.12	4.14	3.95
Murfreesboro	5.19	5.35	5.54	4.10	3.96	3.33	4.14
Nashville	5.49	4.51	5.19	3.74	3.72	3.25	3.72
Neptune	4.32	4.51	5.05	4.54	3.70	3.23	3.71
Newbern	5.02	4.41	5.59	4.21	4.12	4.13	3.92
Newport	4.01	4.34	4.82	3.57	3.61	3.87	5.07
Oak Ridge	5.94	5.80	5.59	4.20	3.73	3.24	3.95
Palmetto	5.36	5.61	5.55	4.44	3.89	3.65	4.87
Paris	5.46	4.76	5.50	4.18	3.96	3.93	3.93
Rogersville	4.39	4.46	4.82	3.74	3.38	3.22	4.68
Samburg	4.88	4.40	5.31	4.10	4.53	3.75	3.84
Savannah	6.13	5.41	5.91	4.82	4.04	4.20	4.04
Selmer	6.30	5.42	5.34	4.59	3.81	4.31	3.88
Sparta	5.39	4.59	5.39	4.34	4.01	4.87	5.38
Springfield	4.30	4.61	5.02	4.40	4.10	3.44	4.01
Tullahoma	5.78	5.88	6.19	4.59	3.76	3.89	5.02
Waynesboro	5.92	5.76	6.06	5.13	4.12	4.31	4.58

Table 1. (continued)

Station	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
Allardt	3.61	3.69	2.88	3.58	4.84	52.97
Ashwood	3.55	3.47	2.61	3.89	4.66	52.67
Bolivar	3.53	3.76	2.52	4.34	4.71	52.39
Brownsville	2.93	3.64	2.43	4.42	4.61	52.05
Carthage	3.92	3.51	2.36	3.99	4.72	52.03
Chattanooga	3.76	3.10	3.02	3.65	5.19	51.96
Clarksville	3.37	3.01	2.47	3.86	4.27	47.74
Copperhill	4.78	3.27	3.10	3.90	5.16	56.49
Covington	2.83	3.43	2.71	4.43	4.52	50.95
Crossville	4.28	3.61	2.78	4.05	5.36	54.66
Dale Hollow Dam	3.21	3.46	2.50	4.21	4.85	51.88
Dickson	3.42	2.88	2.70	4.07	4.63	50.94
Dover	3.42	3.31	2.58	4.06	4.13	48.61
Fayetteville	3.70	3.41	2.66	4.22	4.90	51.89
Franklin, Ky.	3.50	3.15	2.52	3.78	4.31	47.54
Franklin	3.82	2.85	2.41	3.55	4.24	48.23
Gatlinburg	5.40	3.00	2.99	3.67	3.99	54.45
Greeneville	3.57	2.98	2.41	2.78	3.06	42.01
Huntingdon	2.96	3.28	2.41	4.00	4.34	48.48
Jackson	3.28	3.39	2.34	4.11	4.37	51.01
Jefferson City	3.44	2.94	2.23	3.62	4.15	45.38
Kingsport	3.83	2.69	2.25	2.82	3.48	42.52
Knoxville AP	3.46	2.54	2.61	3.24	4.23	45.85
Knoxville	3.90	2.60	2.64	2.83	4.58	47.25
Lewisburg	3.19	3.23	2.62	4.15	4.59	51.61
Loudon	3.68	3.17	2.81	3.69	4.86	50.18
Lynnville	3.85	3.22	2.61	4.54	4.94	54.69
Martin	2.70	3.14	2.68	4.17	3.93	49.42
Memphis AP	2.97	2.82	2.72	4.38	4.93	49.73
Memphis	2.63	2.81	2.86	4.17	4.69	48.13
Middlesboro, Ky.	4.11	2.77	2.47	3.55	4.71	49.79
Milan	3.54	3.46	2.65	4.34	4.59	52.83
Monteagle	4.12	3.69	3.17	4.66	5.99	60.57
Moscow	3.41	3.47	2.54	4.21	5.09	52.20
Murfreesboro	3.59	3.22	2.32	3.91	4.24	48.89
Nashville	2.86	2.87	2.32	3.28	4.19	45.14
Neptune	3.29	2.62	2.11	3.60	4.45	45.13
Newbern	3.03	3.44	2.65	4.17	4.24	48.93
Newport	4.02	2.65	2.57	2.81	3.46	44.80
Oak Ridge	4.62	3.30	2.67	3.77	5.90	54.71
Palmetto	3.56	3.12	2.59	3.92	4.39	50.95
Paris	3.12	3.19	2.51	4.26	4.20	49.00
Rogersville	3.52	2.58	2.28	3.19	3.83	44.09
Samburg	2.83	3.35	2.80	4.16	4.10	48.05
Savannah	3.56	3.10	2.50	4.25	5.04	53.00
Selmer	3.22	3.37	2.88	4.29	4.80	52.21
Sparta	4.21	3.65	2.72	3.76	4.69	53.00
Springfield	3.21	2.58	2.53	3.87	4.38	46.45
Tullahoma	3.51	3.31	2.61	4.12	5.30	53.97
Waynesboro	3.73	3.10	2.64	4.62	5.09	55.06

Table 2. Average monthly potential evapotranspiration calculated by the Thornthwaite method for all stations

Station	Potential evapotranspiration in inches						
	Jan.	Feb.	Mar.	Apr.	May	June	July
Allardt	0.20	0.27	0.97	2.01	3.06	4.03	4.50
Ashwood	0.36	0.41	1.19	2.20	3.34	4.73	5.19
Bolivar	0.28	0.46	1.08	2.36	3.63	4.94	5.61
Brownsville	0.30	0.46	1.12	2.35	3.79	5.19	5.66
Carthage	0.37	0.42	1.07	2.20	3.50	4.60	5.36
Chattanooga	0.40	0.50	1.16	2.26	3.60	4.88	5.52
Clarksville	0.29	0.39	1.05	2.21	3.51	4.75	5.51
Copperhill	0.37	0.43	0.99	2.03	3.28	4.31	5.02
Covington	0.28	0.42	1.06	2.27	3.68	4.84	5.90
Crossville	0.30	0.43	0.99	1.95	2.99	3.95	4.43
Dale Hollow Dam	0.21	0.35	0.93	2.11	3.30	4.42	5.06
Dickson	0.26	0.42	1.04	2.30	3.57	4.62	5.26
Dover	0.22	0.36	1.04	2.28	3.39	4.41	5.30
Fayetteville	0.19	0.33	0.87	1.98	3.13	4.04	5.02
Franklin, Ky.	0.22	0.30	0.95	2.13	3.43	4.44	5.18
Franklin	0.32	0.40	1.10	2.12	3.40	4.63	5.50
Gatlinburg	0.31	0.39	1.18	2.23	3.12	3.87	4.33
Greeneville	0.20	0.34	1.07	2.14	3.36	4.28	4.91
Huntingdon	0.16	0.26	1.01	2.37	3.41	4.50	5.31
Jackson	0.32	0.46	1.19	2.23	3.47	4.65	5.50
Jefferson City	0.21	0.40	1.09	2.04	3.31	4.33	4.91
Kingsport	0.32	0.38	1.02	2.15	3.20	4.47	4.93
Knoxville AP	0.34	0.42	1.14	2.21	3.46	4.69	5.34
Knoxville	0.24	0.41	1.06	2.32	3.61	4.68	5.26
Lewisburg	0.32	0.40	1.02	2.11	3.30	4.42	5.29
Loudon	0.35	0.47	1.08	2.09	3.34	4.61	5.42
Lynnville	0.39	0.48	1.16	2.20	3.28	4.35	5.11
Martin	0.25	0.40	1.11	2.26	3.59	4.66	5.64
Memphis AP	0.30	0.44	1.12	2.44	3.87	5.07	5.93
Memphis	0.31	0.43	1.11	2.38	3.86	5.14	6.09
Middlesboro, Ky.	0.35	0.45	1.04	1.85	3.09	4.18	4.99
Milan	0.28	0.43	1.08	2.26	3.58	4.66	5.82
Monteagle	0.28	0.41	1.01	2.19	3.29	4.11	4.69
Moscow	0.36	0.61	1.36	2.53	3.53	3.16	4.98
Murfreesboro	0.35	0.44	1.08	2.22	3.51	4.77	5.51
Nashville	0.25	0.38	0.98	2.22	3.61	4.80	5.58
Neptune	0.16	0.27	0.91	2.17	3.43	4.49	5.35
Newbern	0.25	0.40	1.03	2.27	3.76	4.48	5.52
Newport	0.30	0.41	1.01	2.06	3.37	4.62	5.19
Oak Ridge	0.28	0.41	0.97	2.13	3.42	4.48	5.13
Palmetto	0.36	0.49	1.17	2.19	3.49	4.22	5.24
Paris	0.22	0.37	1.01	2.12	3.40	4.50	5.34
Rogersville	0.34	0.42	1.03	2.09	3.25	4.26	4.82
Samburg	0.16	0.31	0.93	2.26	3.67	4.98	5.87
Savannah	0.37	0.51	1.16	2.34	3.44	4.90	5.68
Selmer	0.22	0.40	1.08	2.40	3.59	4.57	5.28
Sparta	0.23	0.32	0.98	2.25	3.37	4.28	4.88
Springfield	0.22	0.34	0.96	2.12	3.23	4.58	5.12
Tulahoma	0.33	0.41	1.10	2.29	3.39	4.58	5.30
Waynesboro	0.19	0.26	0.96	2.27	3.33	4.36	5.02

Table 2. Average monthly potential evapotranspiration calculated by the Thornthwaite method for all stations

Station	Potential evapotranspiration in inches					Yearly
	Aug.	Sept.	Oct.	Nov.	Dec.	
Allardt	4.43	3.51	2.18	0.91	0.29	26.37
Ashwood	4.70	3.95	2.39	1.07	0.44	29.98
Bolivar	5.43	3.74	2.34	1.00	0.42	31.30
Brownsville	5.86	4.01	2.52	1.05	0.34	32.57
Carthage	5.45	4.05	2.45	1.00	0.43	30.89
Chattanooga	5.29	4.07	2.46	1.01	0.43	31.59
Clarksville	5.18	4.14	2.42	0.95	0.37	30.77
Copperhill	4.73	3.68	2.23	0.93	0.41	28.40
Covington	5.70	4.13	2.53	1.02	0.40	32.26
Crossville	4.35	3.44	2.16	0.92	0.30	26.21
Dale Hollow Dam	5.03	4.04	2.31	0.93	0.33	29.02
Dickson	5.16	4.23	2.41	0.97	0.38	30.61
Dover	5.17	3.79	2.28	0.96	0.33	29.54
Fayetteville	4.76	3.62	2.20	0.89	0.30	27.36
Franklin, Ky.	5.06	3.90	2.38	0.94	0.32	29.24
Franklin	5.45	3.82	2.29	0.99	0.37	30.40
Gatlinburg	4.35	3.22	2.19	0.93	0.32	26.46
Greeneville	4.77	3.58	2.32	1.02	0.32	28.32
Huntingdon	4.97	3.68	2.29	1.00	0.30	29.28
Jackson	5.48	4.17	2.37	1.03	0.41	31.28
Jefferson City	4.80	4.00	2.22	0.98	0.36	28.66
Kingsport	4.79	4.08	2.34	0.96	0.35	29.00
Knoxville AP	5.16	4.02	2.44	0.98	0.39	30.59
Knoxville	5.30	4.21	2.47	1.01	0.37	30.96
Lewisburg	5.25	4.06	2.32	0.93	0.39	29.81
Loudon	5.30	4.03	2.33	0.92	0.42	30.37
Lynnville	4.78	4.02	2.35	1.00	0.45	29.58
Martin	5.20	4.03	2.48	0.92	0.36	30.90
Memphis AP	5.62	4.15	2.63	1.06	0.44	33.06
Memphis	5.91	4.35	2.68	1.06	0.43	33.75
Middlesboro, Ky.	4.58	3.48	2.11	0.87	0.36	27.37
Milan	5.30	4.31	2.42	0.99	0.36	31.50
Monteagle	4.56	3.66	2.36	1.00	0.38	27.94
Moscow	4.82	4.02	2.37	1.10	0.48	29.32
Murfreesboro	5.45	4.35	2.42	0.99	0.44	31.56
Nashville	5.35	4.09	2.40	0.90	0.36	30.92
Neptune	5.18	3.83	2.23	0.94	0.32	29.25
Newbern	5.27	4.05	2.45	0.94	0.38	30.79
Newport	5.12	4.06	2.28	0.88	0.31	29.61
Oak Ridge	5.04	3.87	2.32	0.89	0.33	29.27
Palmetto	4.92	4.15	2.44	0.99	0.46	30.10
Paris	5.77	4.03	2.34	0.97	0.32	30.38
Rogersville	4.53	4.05	2.32	0.97	0.34	28.43
Samburg	5.28	3.80	2.33	0.95	0.28	30.83
Savannah	5.61	4.00	2.47	1.04	0.47	31.99
Selmer	5.26	3.90	2.36	1.01	0.38	30.44
Sparta	4.75	3.62	2.31	0.90	0.32	28.23
Springfield	5.38	3.98	2.30	0.95	0.29	29.48
Tullahoma	4.88	3.82	2.39	1.02	0.43	29.95
Waynesboro	4.97	3.73	2.21	0.94	0.34	28.58

Table 3. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Allardt

[illegible]

Table 4. Probability of occurrence of drouth days based on 71 years of record, 1900 through 1971, for Ashwood

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.													
	DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK											
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7									
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	15	98	1	1	1	1	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	22	97	2	2	2	1	1	1	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	29	95	4	4	4	4	4	2	98	1	1	1	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
APR	5	97	2	2	2	1	1	1	97	2	2	1	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	12	90	9	6	5	2	1	1	97	2	2	2	1	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	19	80	19	15	11	8	5	4	98	1	1	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	26	80	19	12	9	8	6	2	98	1	1	1	1	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
MAY	3	62	37	30	29	22	9	6	95	4	2	2	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	10	59	40	37	24	12	11	6	91	8	5	4	4	1	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0				
	17	52	47	37	26	12	11	12	91	8	5	4	4	2	97	2	1	1	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0					
	24	54	45	37	31	27	16	13	81	18	16	16	13	9	8	95	4	4	4	2	1	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0					
	31	44	55	48	40	34	29	24	69	30	24	22	13	11	8	88	11	11	8	5	4	1	97	2	1	1	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0						
JUN	7	36	63	58	47	41	37	29	18	55	44	38	30	26	24	18	9	76	23	18	12	12	8	4	1	97	2	1	1	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	14	33	66	55	44	37	29	22	15	58	41	40	30	23	19	16	11	72	27	24	20	18	15	13	9	81	18	15	8	6	4	1	97	2	1	1	0	0	0	1100	0	0	0	0	0	0			
	21	31	68	58	49	41	33	26	18	54	45	38	33	26	22	19	13	69	30	29	23	19	18	16	12	79	20	19	16	13	12	8	91	8	13	12	11	11	9	4	1	97	2	2	0	0	0	0	
	28	25	74	61	49	45	41	33	25	44	55	48	37	31	29	16	9	62	37	29	24	23	22	12	5	75	24	20	18	16	15	9	5	79	20	15	12	11	8	5	2	94	5	4	2	1	0	0	
JUL	5	29	70	61	49	44	37	30	19	51	48	43	38	31	27	23	16	61	38	33	30	23	19	16	11	75	24	23	22	19	18	13	8	84	15	15	15	12	11	9	94	5	5	4	2	2	0		
	12	26	73	66	61	41	40	27	20	37	62	55	47	31	29	16	15	55	44	40	34	24	22	12	11	68	31	29	23	18	16	9	8	75	24	20	15	13	11	6	4	90	9	6	5	4	1	1	
	19	26	73	66	54	49	36	29	15	43	56	54	40	37	27	22	13	48	51	41	30	29	19	13	8	68	31	27	22	20	12	11	8	73	26	23	16	15	9	4	2	91	8	6	5	2	1	0	
	26	19	80	73	66	52	36	22	8	41	58	52	48	38	27	15	6	50	49	47	41	31	22	13	6	63	36	33	27	22	16	9	6	70	29	24	22	18	13	8	5	66	13	12	11	8	5	4	1
AUG	2	26	73	70	58	48	36	23	12	47	52	49	41	36	27	16	9	59	40	38	30	29	20	13	8	68	31	30	24	20	13	8	5	76	23	23	19	19	12	6	4	86	13	13	11	11	5	4	1
	9	31	68	59	54	43	31	20	13	47	52	47	41	34	23	18	12	56	43	37	33	29	19	13	11	66	33	29	24	20	13	9	8	77	22	20	18	16	11	9	8	83	16	13	11	9	6	5	5
	16	38	61	49	43	40	36	22	18	51	48	45	38	34	29	15	12	62	37	31	31	26	23	12	9	68	31	29	27	22	18	8	6	77	22	20	18	16	13	6	5	86	13	12	12	11	11	6	5
	23	22	77	68	59	55	43	34	25	44	55	54	49	41	33	27	19	47	52	51	47	37	26	20	13	55	44	40	34	29	23	16	11	65	34	27	24	20	12	11	8	77	22	22	18	15	12	6	5
SEP	30	23	76	69	62	49	43	33	26	44	55	45	40	36	26	19	15	50	49	44	38	34	26	18	12	52	47	43	34	27	20	15	11	65	34	31	27	23	18	15	11	80	19	16	16	13	11	9	5
	6	30	69	63	49	40	36	27	19	45	54	48	37	31	29	20	13	58	41	37	33	29	27	19	13	59	40	36	31	27	26	16	11	65	34	30	26	22	15	9	80	19	16	16	13	11	9	5	
	13	20	79	70	65	55	46	36	23	45	54	48	41	34	31	23	15	56	43	38	38	34	26	19	12	58	41	37	37	34	24	18	11	63	36	31	30	27	20	15	11	80	19	16	15	11	8	8	
	20	23	76	68	58	51	44	37	29	44	55	49	44	38	33	29	22	51	48	44	38	30	26	22	18	55	44	41	33	26	22	20	16	63	36	33	29	24	20	18	12	73	26	23	16	12	9	8	
DCT	27	20	79	70	54	45	36	27	25	44	55	49	41	34	31	24	12	51	48	44	38	30	26	22	18	59	40	36	31	29	24	19	16	61	38	33	27	26	22	16	15	72	27	23	20	19	16	12	11
	4	43	56	48	41	40	33	20	18	55	44	37	31	30	22	13	12	58	41	34	30	27	18	11	11	66	33	27	24	20	13	8	8	66	33	27	23	22	13	8	5	76	23	19	18	16	12	8	
	11	54	45	41	33	29	20	19	16	66	33	31	30	26	19	18	15	68	31	30	29	26	19	18	15	75	24	26	23	20	13	12	11	73	26	24	20	13	12	9	81	18	18	16	12	6	5		
	18	55	44	34	33	27	22	16	13	68	31	29	27	24	18	13	12	72	27	24	24	22	16	12	11	73	26	24	22	20	16	12	9	77	22	19	19	18	15	11	9	81	18	18	16	12	6	5	
	25	48	51	44	36	29	24	20	16	70	29	24	24	13	12	11	9	73	26	22	25	12	11	9	6	75	24	20	13	11	9	8	6	80															

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1-WEEK PERIOD BEGIN-NINGS:	1 INCH A _s W _a H _e C _c							2 INCH A _s W _a H _e C _c							3 INCH A _s W _a H _e C _c							4 INCH A _s W _a H _e C _c							5 INCH A _s W _a H _e C _c							7 INCH A _s W _a H _e C _c																										
	DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK																										
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7														
MAR	1	100	.0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
15	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
22	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
APR	5	87	12	4	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
12	87	12	12	12	12	12	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
19	87	12	12	12	8	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
26	83	16	8	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
MAY	3	70	29	20	20	20	12	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
10	66	33	20	29	24	26	16	12	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0						
17	45	54	41	41	29	20	16	12	79	20	16	12	8	8	8	91	8	4	4	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
24	25	74	54	41	33	29	20	4	66	33	16	12	4	4	0	91	8	4	4	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
31	29	70	58	49	45	37	29	20	50	49	29	29	24	20	4	83	16	12	8	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
JUN	7	25	74	70	62	54	49	41	29	37	62	62	49	37	23	20	62	37	29	24	24	20	8	87	12	12	12	4	8	4	4	91	8	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0									
14	29	70	66	54	41	29	20	20	45	54	41	33	29	24	20	16	58	41	33	29	20	16	12	75	24	20	16	16	8	4	4	91	8	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0									
21	20	79	74	54	45	37	24	20	45	54	54	33	33	24	20	16	54	45	45	29	29	20	16	12	62	37	37	20	16	8	4	4	91	8	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0								
28	12	87	70	66	58	54	37	33	25	74	58	49	45	37	24	20	45	54	45	37	29	24	20	16	62	37	33	29	24	20	12	8	70	29	24	20	16	16	8	8	91	8	8	8	8	0	0	0	100	0	0	0	0	0	0	0						
JUL	5	20	79	66	62	49	45	29	12	32	62	62	45	29	16	12	54	45	41	37	29	12	8	62	37	33	29	24	20	12	8	70	29	24	20	16	16	8	8	91	8	8	8	8	0	0	0	100	0	0	0	0	0	0	0							
12	4	91	8	70	54	41	37	29	33	62	66	62	45	37	33	29	41	58	54	54	37	29	25	25	50	49	49	41	29	24	24	20	66	33	24	24	20	20	20	16	79	20	16	16	12	4	4	4	4	0	0	0	0									
19	25	74	74	62	45	37	29	12	33	66	66	54	45	37	29	12	37	62	58	49	41	33	25	12	41	50	58	49	37	29	20	8	54	45	41	33	24	16	8	79	20	20	16	16	8	8	0	0	0	0	0	0	0									
26	25	74	70	58	29	16	12	12	54	45	45	24	16	12	12	12	58	41	41	24	16	12	12	12	58	41	37	24	16	12	12	4	62	37	37	24	12	4	4	79	20	16	8	4	0	0	0	100	0	0	0	0	0	0	0							
AUG	2	12	87	83	66	62	54	41	20	20	79	66	49	41	33	33	20	41	58	49	37	33	33	20	41	58	49	37	33	33	20	41	58	49	37	33	29	29	16	66	33	20	12	12	12	12	8	0	0	0	100	0	0	0	0	0	0	0				
9	20	79	70	66	45	41	37	20	33	66	66	49	33	33	33	20	50	49	49	45	37	33	29	16	54	45	45	41	29	29	29	16	54	45	41	29	29	29	16	66	33	33	29	16	16	16	16	4	4	0	0	0	0	0	0							
16	16	83	79	70	66	49	29	20	33	66	62	54	45	29	20	20	33	66	62	49	41	24	20	16	45	54	45	45	37	20	16	16	50	49	49	41	33	20	16	16	24	45	45	37	29	12	12	12	8	0	0	0	100	0	0	0	0	0	0	0		
23	20	79	70	58	49	45	45	33	41	58	58	54	45	41	37	29	41	58	58	49	37	33	33	25	50	49	49	45	37	33	33	20	50	49	45	37	29	24	16	58	41	41	33	20	20	20	12	0	0	0	0	0	0	0								
30	25	74	66	66	54	37	29	29	45	54	54	49	37	24	20	20	58	41	41	41	33	20	16	16	58	41	37	37	29	12	8	8	66	33	33	33	24	12	8	8	70	29	29	29	24	12	8	8	0	0	0	0	0	0	0							
SEP	6	25	74	74	66	54	41	29	29	37	62	62	49	37	24	16	50	49	49	41	33	20	16	16	54	45	45	37	24	16	12	12	58	41	41	37	20	12	8	8	66	33	33	29	16	12	8	8	0	0	0	0	0	0	0	0						
13	33	66	56	49	45	37	37	25	45	49	49	37	37	33	25	20	54	45	45	37	37	29	20	20	58	41	41	33	33	29	20	50	49	41	33	33	29	16	58	41	41	33	33	29	24	16	16	16	16	16	16	0	0	0	0	0	0	0				
20	29	70	66	58	49	49	45	33	37	62	58	49	41	41	37	29	45	54	49	45	41	41	33	20	50	49	45	41	37	33	29	20	50	49	45	41	37	33	29	16	58	41	41	37	24	16	16	16	16	16	16	16	0	0	0	0	0	0	0			
27	29	70	62	58	54	37	37	33	37	62	54	49	45	33	29	20	41	58	49	45	45	41	33	20	50	49	45	41	37	33	29	20	50	49	45	41	37	33	29	16	58	41	41	37	24	16	16	16	16	16	16	16	16	0	0	0	0	0	0	0		
OCT	1	54	45	45	37	37	29	20	66	33	33	33	29	20	20	16	79	20	20	20	20	20	16	16	79	20	20	20	24	20	20	20	66	33	33	24	24	20	20	20	70	29	20	16	16	16	16	16	16	16	16	16	16	16	0	0	0	0	0	0	0	0
8	45	54																																																												

Table 6. Probability of occurrence of drouth days based on 23 years of record, 1948 through 1970, for Brownsville

[illegible]

Table 7. Probability of occurrence of drouth days based on 40 years of record, 1931 through 1970, for Carthage

1-WEEK PERIOD BEGIN- NING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.																
	DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH																
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7				
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	29	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
APR	5	97	2	2	2	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	12	92	7	4	4	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	19	85	14	12	7	4	4	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	26	82	17	12	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
MAY	3	70	29	24	19	14	9	9	4	97	2	2	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	10	58	41	36	21	19	12	9	4	87	12	9	7	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	17	56	43	36	31	19	17	9	4	80	19	17	12	9	7	4	92	7	4	2	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	24	58	41	34	31	17	14	7	4	82	17	14	12	9	9	4	90	9	9	7	7	4	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	31	46	53	43	41	31	26	17	14	75	24	17	12	7	2	0	92	7	4	4	2	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
JUN	7	31	68	65	56	51	34	26	14	58	41	39	29	26	21	17	9	75	24	17	14	14	9	4	0	95	4	4	2	2	2	0	97	2	2	2	2	2	2	0	1100	0	0	0	0	0	0	0				
	14	39	60	53	41	29	12	9	14	58	41	36	29	21	12	7	2	65	34	29	26	17	12	4	2	0	82	17	12	9	4	2	2	0	95	4	4	2	2	2	2	0	1100	0	0	0	0	0	0	0		
	21	29	70	63	56	39	24	14	7	48	51	46	41	29	17	7	2	65	34	31	21	19	12	9	4	0	80	19	12	9	7	4	2	0	90	9	4	2	2	2	2	0	1100	0	0	0	0	0	0	0		
	28	26	73	63	48	39	31	21	17	51	48	39	29	24	19	17	12	65	34	31	21	19	12	9	4	0	82	17	9	4	4	2	0	0	92	7	4	4	2	2	2	0	1100	0	0	0	0	0	0	0		
JUL	5	36	63	43	39	26	14	12	2	68	31	24	24	14	12	7	2	82	17	12	12	7	4	2	0	0	82	17	9	4	4	2	0	0	92	7	4	4	2	2	2	0	1100	0	0	0	0	0	0	0		
	12	34	65	53	51	41	36	29	21	66	43	39	36	36	31	21	17	63	36	31	29	26	21	17	4	0	78	21	17	14	12	7	2	0	92	12	7	4	4	2	2	0	1100	0	0	0	0	0	0	0		
	19	24	75	68	60	51	39	26	14	46	53	46	41	34	26	14	7	56	43	41	31	29	19	14	7	0	63	36	31	26	26	17	12	4	75	24	21	17	14	12	9	0	1100	0	0	0	0	0	0	0		
	26	17	82	75	63	53	34	21	14	39	60	56	48	39	21	14	9	53	46	39	31	29	19	12	7	0	63	36	31	26	21	17	12	7	70	29	24	17	14	12	9	0	1100	0	0	0	0	0	0	0		
AUG	2	31	68	63	56	39	26	17	14	48	51	46	41	31	21	12	12	65	34	34	29	17	9	9	7	0	55	24	24	19	12	7	2	0	92	7	4	4	2	2	2	0	1100	0	0	0	0	0	0	0		
	9	29	70	63	51	41	24	12	14	41	58	46	39	26	14	14	12	48	51	39	36	26	14	12	7	0	58	41	34	29	14	4	2	2	68	31	24	24	19	17	9	0	1100	0	0	0	0	0	0	0		
	16	29	70	60	48	43	31	21	17	48	51	43	39	34	26	17	14	53	46	39	34	29	21	17	14	0	63	36	31	26	26	17	12	4	56	43	43	39	36	24	14	0	1100	0	0	0	0	0	0	0		
	23	17	82	75	70	63	56	41	26	31	68	63	58	53	46	34	21	43	56	53	51	43	34	26	14	0	43	56	46	41	39	26	14	7	0	56	43	43	39	36	29	24	14	0	1100	0	0	0	0	0	0	0
	30	19	80	75	70	63	56	34	17	29	70	65	60	51	46	29	17	39	60	53	48	41	39	26	14	0	53	46	41	36	26	14	7	0	56	43	39	36	29	24	14	7	0	1100	0	0	0	0	0	0	0	
SEP	6	31	68	63	56	46	39	21	14	39	60	56	48	39	31	24	14	43	58	51	46	36	31	29	21	0	48	51	41	36	31	26	19	19	51	48	39	34	29	21	17	0	1100	0	0	0	0	0	0	0		
	13	19	80	68	65	51	39	36	26	36	63	56	48	39	31	24	19	4	51	48	41	36	29	19	17	4	0	53	46	39	34	26	17	14	4	58	41	36	31	24	17	14	4	0	1100	0	0	0	0	0	0	0
	20	31	68	68	51	43	36	29	7	43	56	48	41	31	24	19	14	51	48	41	39	31	29	21	12	9	0	53	46	36	36	29	21	19	9	60	39	31	29	21	17	17	9	0	1100	0	0	0	0	0	0	0
	27	31	68	66	51	41	36	29	17	48	51	41	39	31	29	21	12	63	36	29	24	21	17	12	0	0	65	34	26	21	19	14	14	9	70	29	24	21	19	14	14	9	0	1100	0	0	0	0	0	0	0	
OCT	4	41	58	46	39	29	24	19	14	58	41	34	29	24	17	12	12	75	24	21	21	12	12	12	4	0	65	34	21	21	21	12	12	4	78	21	19	19	9	9	4	0	1100	0	0	0	0	0	0	0		
	11	58	41	36	34	31	21	14	7	70	29	26	24	24	14	14	7	75	24	21	21	12	12	12	4	0	73	26	21	17	14	9	9	7	78	21	21	17	14	9	9	7	0	1100	0	0	0	0	0	0	0	
	18	53	46	36	34	31	17	12	9	65	34	29	24	19	12																																					

Table 8. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Chattanooga

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.												
	DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK										
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7								
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	29	1	97	2	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
APR	5	97	2	2	2	2	2	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	12	88	11	9	4	2	2	0	97	2	2	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	19	77	22	20	15	13	9	4	97	2	2	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	26	81	18	15	11	11	6	2	95	4	4	4	4	4	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	3	59	40	36	27	27	22	13	9	90	9	9	4	2	2	97	2	2	2	2	2	2	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0		
	10	40	59	45	36	31	27	22	9	84	15	13	9	4	2	2	97	2	2	2	2	2	2	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	17	47	52	49	38	34	24	20	15	75	24	20	13	11	6	6	97	2	2	2	2	2	2	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	24	43	56	52	40	24	22	15	9	63	36	31	24	11	9	2	95	4	4	4	4	4	2	0	97	2	2	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	
	31	36	63	52	49	38	29	22	13	59	40	34	34	27	20	15	9	81	18	13	9	6	6	4	0	95	4	4	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0
JUN	7	34	65	59	45	38	29	24	22	56	43	38	24	20	18	13	13	72	27	24	13	13	13	9	9	88	11	6	2	2	0	0	97	2	2	2	2	2	0	0	1100	0	0	0	0	0	0	
	14	20	79	63	47	34	29	27	11	38	61	47	36	18	13	11	6	68	31	27	18	13	11	6	77	22	22	13	9	6	4	93	6	2	2	2	2	0	0	1100	0	0	0	0	0	0		
	21	25	74	63	54	43	38	29	18	43	56	47	36	27	24	15	6	56	43	36	29	24	20	13	9	72	27	24	18	15	13	6	0	84	15	13	11	9	4	95	4	4	2	2	2			
	28	27	72	61	49	36	29	20	9	40	59	47	36	27	24	15	6	56	43	36	34	29	18	15	6	72	27	24	18	15	11	4	4	81	18	11	11	9	9	0	95	4	4	4	2	2		
JUL	5	40	59	54	47	36	27	15	13	52	47	40	34	22	22	11	11	63	36	34	29	18	15	6	6	65	34	24	22	20	15	6	0	84	15	13	11	11	9	4	95	4	4	2	2	0		
	12	36	63	59	43	34	29	22	20	56	40	36	29	22	22	18	15	68	31	31	27	22	20	15	13	77	22	15	15	11	11	4	4	81	18	11	11	9	9	0	95	4	4	4	4	0		
	19	31	68	56	49	45	38	29	18	55	44	49	43	36	31	20	15	54	45	38	31	27	22	15	13	63	36	34	29	27	18	13	9	6	86	13	13	11	9	6	4	93	6	4	2	2	2	
	26	31	68	56	56	40	34	27	13	50	49	40	40	34	27	22	11	56	43	36	31	24	20	9	9	61	38	29	27	24	18	13	13	72	27	27	22	15	13	11	9	95	4	4	4	4	2	
AUG	2	22	77	74	65	59	38	22	11	50	49	45	38	24	22	18	9	56	43	34	31	20	18	9	9	63	36	31	29	27	18	15	9	68	31	27	24	24	18	15	9	88	11	9	6	6	4	
	9	20	79	68	54	47	40	27	15	43	56	49	45	38	29	20	11	56	40	36	29	24	15	6	6	61	38	36	27	22	18	13	4	72	27	27	22	15	13	9	79	20	18	18	11	9		
	16	20	79	70	65	54	45	36	25	38	61	59	49	40	31	24	18	54	45	45	43	38	27	13	31	59	40	38	34	22	18	13	4	70	29	24	22	18	15	11	4	77	22	20	18	13	11	
	23	9	90	84	79	65	61	49	34	27	72	70	65	59	43	29	36	45	59	56	47	45	34	20	36	45	54	49	45	40	38	31	18	56	43	36	36	31	15	68	31	34	24	22	20			
SEP	6	22	77	72	68	63	54	38	22	31	68	63	61	54	47	31	15	40	59	56	54	45	40	27	13	45	54	52	49	45	40	34	24	11	50	49	47	45	40	34	24	11	61	36	29	27	24	
	13	29	70	63	59	54	45	36	22	43	56	56	52	47	45	34	22	47	52	49	47	45	40	27	13	40	59	54	49	45	38	29	18	45	54	49	47	45	38	29	18	45	54	49	47	45	38	
	20	25	70	63	59	56	52	40	25	36	63	59	56	49	43	31	18	40	59	54	49	45	38	29	18	45	54	49	47	45	38	29	18	52	47	43	34	31	24	15	70	29	24	24	18	13		
	27	27	72	59	49	38	31	18	13	31	63	59	56	49	43	31	18	40	59	54	49	45	38	29	18	45	54	49	47	45	38	29	18	52	47	43	34	31	24	15	70	29	24	24	18	13		
OCT	4	50	49	47	38	31	18	11	11	61	38	38	27	20	13	13	9	65	34	34	24	18	13	13	9	68	31	31	24	18	13	13	9	68	31	31	24	18	13	13	9	79	20	18	13	13	11	
	11	61	38	36	29	24	22	18	13	75	24	20	18	18	13	11	75	24	20	18	15	15	11	11	77	22	18	15	15	13	11	11	79	20	15	13	13	11	11	79	20	15	13	13	11	9		
	18	47	52	43	27	20	22	10	18	70	29	22	13	13	13	11	72	27	20	13	13	13	13	11	75	24	20	13	13	13	13	11	77	22	18	13	13	13	11	79	20	18	13	13	11			
	25	59	40	40	36	27	22	18	13	75	24	22	20	13	11	9	72	27	22	20	13	11	9	9	77	22	22	20	13	11	9	9	77	22	20	13	11	9	79	20	18	13	13	13	11			
NOV	1	72	27	24	18	11	11	11	9	84	15	15	11	6	6	4	2	86	13	13	9	6	6	4	2	86	13	13	9	6	6	4																

Table 9. Probability of occurrence of drouth days based on 40 years of record, 1931 through 1970, for Clarksville

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.														2 INCH A.W.H.C.														3 INCH A.W.H.C.														4 INCH A.W.H.C.														5 INCH A.W.H.C.														7 INCH A.W.H.C.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	DROUTH							DAYS PER WEEK							DROUTH							DAYS PER WEEK							DROUTH							DAYS PER WEEK							DROUTH							DAYS PER WEEK							DROUTH							DAYS PER WEEK							DROUTH							DAYS PER WEEK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
MAR	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 10. Probability of occurrence of drouth days based on 40 years of record, 1931 through 1970, for Copperhill

1-WEEK PERIOD BEGIN- NING:		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.													
		DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK													
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	29	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
APR	5	97	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	12	95	4	2	2	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	19	90	9	7	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	26	90	9	7	4	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
MAY	3	78	21	19	14	12	7	2	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	10	56	43	36	24	7	7	7	7	95	4	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	17	46	53	46	39	21	21	14	4	90	9	7	4	4	2	0	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	24	53	46	36	29	24	12	12	4	82	17	9	9	7	4	2	95	4	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	31	43	56	43	39	29	17	9	2	73	26	19	17	12	9	2	95	4	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
JUN	7	36	63	58	39	26	21	14	12	65	34	26	14	12	9	9	7	82	17	9	9	0	0	0	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	14	56	43	41	34	26	14	14	7	73	26	26	21	14	9	9	7	87	12	12	9	7	4	2	2	95	4	2	2	2	2	0	0	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	21	63	48	39	29	17	14	4	7	70	29	29	24	19	12	9	4	75	24	24	21	19	12	7	2	85	14	7	4	4	2	0	0	97	2	2	2	2	2	0	0	100	0	0	0	0	0	0	0	
	28	41	58	56	51	41	34	26	14	58	41	34	26	19	14	9	7	78	21	21	21	14	12	9	7	82	17	14	14	12	12	7	2	95	4	2	2	2	2	2	0	97	2	0	0	0	0	0	0	
JUL	5	39	60	51	39	29	19	12	7	58	41	36	31	24	19	12	4	7	73	26	19	12	4	2	2	87	12	7	7	4	2	2	0	92	7	2	0	0	0	0	0	97	2	0	0	0	0	0	0	
	12	36	63	46	39	34	26	17	17	63	36	29	26	19	12	12	12	7	70	29	21	19	12	12	12	9	87	12	9	9	7	2	2	0	92	7	4	4	2	2	2	2	95	4	0	0	0	0	0	0
	19	43	59	36	34	26	24	9	7	68	31	31	24	17	14	9	7	78	21	21	19	14	12	9	7	80	19	17	14	9	9	7	0	92	7	4	4	2	2	2	2	97	2	2	2	2	2	2	2	
	26	39	60	48	39	31	17	12	7	73	26	17	9	9	4	4	2	80	19	14	9	9	4	4	0	85	14	9	4	4	0	0	0	92	7	4	4	0	0	0	0	97	2	2	2	2	2	2	2	
AUG	2	29	70	56	43	31	19	12	4	60	39	34	29	19	12	2	0	73	26	19	17	12	4	0	0	78	21	17	12	12	4	0	0	90	9	7	7	0	0	0	0	100	0	0	0	0	0	0	0	
	9	48	51	41	31	19	14	7	2	73	26	21	17	12	12	7	2	78	21	17	12	7	7	0	0	87	12	7	7	4	4	0	0	92	7	4	2	2	2	0	0	100	0	0	0	0	0	0	0	
	16	36	63	53	41	36	29	24	7	70	29	26	14	12	7	4	0	80	19	17	12	7	7	4	4	90	9	9	4	4	4	2	2	92	7	7	4	4	2	2	0	97	2	2	0	0	0	0	0	
	23	29	70	63	48	43	34	29	17	58	41	34	29	24	21	19	12	7	78	21	19	17	12	12	7	2	85	14	7	4	4	4	4	0	92	7	4	2	2	2	2	0	97	2	0	0	0	0	0	0
	30	29	70	68	58	51	43	31	17	51	48	46	39	31	26	19	9	65	34	31	26	19	17	12	4	82	17	17	12	9	7	4	2	90	9	9	4	2	2	0	0	100	0	0	0	0	0	0	0	
SEP	6	34	65	63	48	43	29	29	21	48	51	48	39	34	19	19	12	65	34	29	24	21	9	9	2	75	24	24	21	19	2	2	0	87	12	12	9	7	0	0	0	100	0	0	0	0	0	0	0	
	13	19	80	68	58	43	39	31	29	43	56	48	36	21	21	19	17	48	51	39	31	17	17	12	12	65	34	21	14	12	12	12	9	75	24	12	12	7	4	4	4	90	9	2	0	0	0	0	0	
	20	31	68	60	58	56	46	31	24	46	53	43	41	36	34	24	17	56	43	36	31	29	29	17	12	63	36	29	26	21	12	12	12	75	24	19	14	14	14	7	7	87	12	9	9	9	4	4	4	
	27	36	63	51	36	34	21	26	17	51	48	41	34	34	31	24	14	60	39	34	21	21	19	17	9	65	34	29	21	21	14	14	7	78	21	17	12	9	9	9	9	95	4	4	4	4	4	4	4	
OCT	4	53	46	41	34	24	21	19	14	68	31	26	24	19	17	12	12	73	26	21	19	17	14	14	12	75	24	19	17	14	12	12	9	80	19	19	19	14	12	9	7	92	7	7	7	4	4	4	4	
	11	60	39	39	36	29	24	19	14	75	24	24	24	19	17	12	12	75	24	24	24	19	17	14	12	80	19	19	19	19	14	12	9	80	19	19	19	19	14	12	9	92	7	7	7	4	4	4	4	
	18	60	39	36	34	29	14	9	7	78	21	21	17	17	9	7	7	82	17	17	14	14	9	7	7	85	14	14	14	14	9	7	7	85	14	14	14	14	9	7	7	90	9	7	7	4	4	4	4	
	25	58	41	39	34	29	17	14	14	78	21	21	19	9	9	9	7	80	19	17	17	14	4	4	4	85	14																							

Table 11. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Covington

1-WEEK PERIOD BEGINNING		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.													
		DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK										
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7									
MAR	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	15	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	22	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	29	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
APR	5	95	4	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	12	93	6	6	4	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	19	84	15	6	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	26	90	9	2	2	2	2	2	100	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
MAY	3	72	27	20	18	13	11	6	4	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	10	65	34	29	22	20	13	11	11	93	6	6	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0								
	17	45	54	43	34	29	18	13	11	86	13	9	6	6	4	2	97	2	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0								
	24	45	54	52	40	31	24	20	13	70	29	27	24	20	13	11	2	93	6	6	6	4	4	0	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
	31	31	68	63	59	45	34	24	15	59	40	38	36	24	15	13	9	81	18	15	11	4	0	0	0	95	4	4	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0							
JUN	7	25	74	63	52	49	47	43	25	47	52	49	43	36	29	27	18	70	29	29	22	18	13	13	6	86	13	9	6	4	2	2	97	2	0	0	0	0	0	0	0	0								
	14	34	65	59	47	49	43	36	22	40	59	52	40	27	22	18	11	63	36	31	27	20	13	13	6	77	22	18	15	13	13	9	4	88	11	6	6	4	4	2	100	0	0	0	0	0				
	21	18	81	74	72	69	63	56	42	34	65	61	56	45	40	27	20	45	54	52	45	38	34	20	15	61	38	34	31	24	20	15	11	72	27	24	22	22	18	11	6	4	97	2	0	0	0	0		
	28	13	86	77	68	59	47	43	27	34	65	61	56	45	40	27	20	45	54	52	45	38	34	20	15	61	38	34	31	24	20	15	11	72	27	24	22	22	15	4	88	11	11	9	6	4	2			
JUL	5	22	77	77	68	61	59	45	20	34	65	61	56	45	40	27	20	45	54	52	45	38	34	20	15	61	38	34	31	24	20	15	11	72	27	24	22	22	15	4	88	11	11	9	6	4	2			
	12	13	86	81	65	59	45	40	27	20	79	77	68	54	49	43	36	27	31	68	61	40	38	29	22	50	49	47	34	34	29	15	13	63	36	31	18	18	15	13	9	79	20	11	6	6	4	4		
	19	13	86	84	65	61	52	40	31	27	72	68	54	49	43	36	27	36	63	59	47	47	40	34	25	36	63	54	54	47	40	31	20	50	49	45	43	36	29	20	61	38	31	27	24	20	15	11		
	26	13	86	81	70	65	54	45	31	18	81	72	63	59	49	43	36	25	20	79	68	61	49	43	34	27	45	34	49	43	43	34	31	22	50	49	43	36	36	27	24	11	75	24	24	15	15	11	4	
AUG	2	9	90	86	81	70	56	47	29	20	79	70	65	59	45	38	29	27	72	68	63	56	45	38	29	31	68	65	56	54	38	31	22	38	61	56	49	45	31	22	15	59	40	36	31	29	20	15	13	
	9	13	86	79	70	65	49	43	29	27	72	70	63	59	47	43	29	29	70	69	59	52	40	34	25	34	65	61	56	49	40	36	29	22	29	70	56	47	40	36	29	20	61	38	31	27	24	20	15	13
	16	6	93	81	74	59	47	40	31	20	79	70	59	47	40	29	22	27	72	59	49	40	36	29	22	29	70	56	47	40	36	29	20	61	38	31	27	24	20	15	13	61	38	31	27	24	20	15	13	
	23	9	90	84	77	70	65	49	36	22	77	70	63	54	52	45	31	29	70	61	59	49	45	43	31	34	65	56	56	47	45	40	31	38	61	56	54	47	45	40	31	38	61	56	49	45	40	34	29	22
	30	11	88	84	74	63	56	43	36	18	81	74	70	59	54	38	31	29	70	63	59	49	45	43	31	34	65	56	56	47	45	40	31	38	61	56	54	47	45	40	31	38	61	56	49	45	40	34	29	22
SEP	6	20	79	74	63	47	38	31	18	31	68	61	54	45	36	29	18	31	68	61	52	40	34	27	18	36	63	56	47	36	29	24	18	31	68	61	54	45	36	29	24	18	40	59	52	43	36	29	24	18
	13	25	74	72	61	40	34	25	15	40	59	54	49	38	29	24	15	43	56	52	47	36	29	24	15	47	52	49	43	34	29	24	15	52	47	45	40	31	27	22	15	52	47	45	40	31	27	22	15	
	20	18	81	77	65	63	52	36	27	34	65	63	52	49	38	31	25	40	59	59	52	49	38	31	25	40	59	59	52	49	38	31	22	43	56	56	52	47	36	29	20	54	54	49	45	34	29	20		
	27	20	70	70	59	49	38	31	29	36	63	54	43	36	34	29	25	45	54	49	38	34	31	29	22	47	52	49	43	34	29	24	18	47	52	47	36	31	29	27	20	50	49	47	36	31	29	24	20	
OCT	4	40	59	49	43	34	29	24	18	54	45	36	31	22	20	18	15	59	40	31	27	18	15	13	11	61	38	29	24	18	15	13	11	61	38	29	24	18	15	13	11	63	36	27	22	15	13	13	11	
	11	43	56	49	47	36	29	27	18	56	43	43	36	29	27	18	11	68	31	31	24	18	18	18	11	70	29	27	27	20	15	15	11	72	27	24	24	18	15	15	11	75	24	22	22	15	13	13	11	
	18	45	54	49	43	38	36	27	18	61	38	31	24	20	9	2	1	68	31	31	24	18	18	18	11	70	29	27	27	20	15	15	11	72	27	24	24	18	15	15	11	75	24	22	22	15	13	13	11	
	25	38	61	47	38	29	15	13	6	61	38	31	24	20	9	2	1	68	31	31	24	18	18	18	11	70	29	27	27	20	15	15	11	72	27	24	24	18	15	1										

Table 12. Probability of occurrence of drouth days based on 58 years of record, 1913 through 1970, for Crossville

1-WEEK PERIOD BEGIN- NING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.													
	DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH													
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7									
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	29	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
APR	5	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	12	94	5	3	1	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	19	91	8	6	6	6	5	3	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	26	91	8	8	6	3	1	1	98	1	1	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
MAY	3	77	22	16	11	8	6	0	94	5	3	3	0	0	0	0	98	1	1	1	0	0	0	0	98	1	1	1	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0					
	10	66	33	20	16	13	10	0	8	94	5	5	5	3	1	1	94	5	3	1	1	0	0	0	98	1	1	1	1	0	0	0	98	1	1	1	0	0	0	0	0	0	0	0					
	17	62	30	22	17	13	8	5	3	88	11	11	6	3	1	1	94	5	3	1	1	0	0	0	98	1	1	1	1	1	0	0	98	1	1	1	1	1	1	1	1	1	1	1	0				
	24	61	37	25	18	11	8	8	1	91	8	8	6	3	1	1	94	5	3	3	3	1	1	1	96	3	1	1	1	1	1	1	98	1	1	1	1	1	1	1	1	1	1	1	0				
	31	64	35	28	23	11	10	8	8	88	11	10	8	6	3	3	94	5	5	3	3	3	3	1	96	3	1	1	1	1	1	1	98	1	1	1	1	1	1	1	1	1	1	1	0				
JUN	7	44	55	42	35	28	20	18	5	84	15	11	10	8	6	1	91	8	8	5	3	3	1	96	3	3	3	3	3	3	1	98	1	1	1	1	1	1	1	1	1	1	1	1					
	14	49	50	38	33	27	20	15	10	71	28	20	18	13	10	8	1	89	10	8	8	6	5	3	1	94	5	5	5	5	3	0	96	3	3	3	1	1	0	98	1	1	1	1	1	1	0		
	21	40	59	42	33	25	20	16	11	76	23	16	16	11	10	8	6	84	15	10	8	6	6	5	3	91	8	6	6	6	3	3	94	5	3	3	3	1	1	98	1	1	1	1	1	1	1		
	28	44	55	42	37	27	18	6	1	72	27	22	18	15	8	6	1	83	16	11	11	8	3	3	0	93	6	6	6	3	1	1	0	93	6	6	5	1	0	0	98	1	1	1	1	1	0		
JUL	5	50	49	42	33	23	18	13	3	72	27	18	13	10	8	3	86	13	8	8	6	3	3	1	89	10	5	5	3	3	0	0	96	3	1	1	1	1	0	0	98	1	1	1	1	1	1		
	12	47	52	42	35	23	20	15	10	64	35	28	20	16	13	10	3	83	16	11	5	3	3	1	91	8	3	0	0	0	0	0	98	1	1	0	0	0	0	0	0	0	0	0	0				
	19	44	55	47	35	30	22	13	8	72	27	23	18	16	10	8	8	84	15	15	13	11	8	3	88	11	11	11	8	8	5	3	96	3	3	3	1	1	1	0	0	0	0	0	0				
	26	44	55	49	33	25	15	8	8	71	28	22	15	11	10	3	3	81	18	13	10	10	8	3	3	86	13	10	10	8	3	3	89	10	6	6	3	1	0	0	0	0	0	0	0				
AUG	2	35	64	50	37	23	18	10	8	64	35	20	15	11	10	5	5	79	20	13	8	8	5	3	86	13	10	5	5	3	3	88	11	10	5	5	3	1	1	0	0	0	0	0	0				
	9	44	55	47	30	20	16	11	0	67	32	25	16	13	13	8	0	77	22	18	13	11	10	5	0	83	16	11	10	8	8	3	88	11	10	5	5	3	1	1	0	0	0	0	0	0			
	16	47	52	38	27	28	23	8	8	72	27	22	18	13	11	10	3	84	15	13	11	10	8	3	91	8	6	6	6	6	6	3	91	8	8	8	8	6	6	3	94	5	5	5	5	3	1		
	23	33	66	55	42	32	27	20	11	67	32	27	25	22	18	13	3	81	18	16	14	16	15	11	8	8	77	22	16	15	11	8	6	1	86	13	10	10	8	6	6	5	91	8	6	6	6	5	5
	30	33	66	57	52	38	32	18	11	66	33	27	23	20	15	10	3	74	25	18	16	15	11	8	1	77	22	16	15	11	8	6	3	91	8	8	8	8	6	6	3	94	5	5	5	5	3	1	
SEP	6	38	61	54	45	33	28	18	10	55	44	35	33	25	20	11	5	72	27	25	22	16	13	8	5	1	77	22	18	16	13	10	6	5	86	13	13	11	10	6	6	5	93	6	6	6	5	5	5
	13	38	61	57	54	49	37	28	15	59	40	37	35	30	22	15	5	72	27	25	20	18	15	10	3	79	20	20	18	16	13	8	3	83	16	16	13	11	8	5	0	91	8	6	6	5	3	0	
	20	27	72	62	55	44	32	16	11	54	45	37	30	27	15	5	1	74	25	20	16	15	8	0	0	84	15	11	10	8	1	0	0	86	13	10	8	6	1	0	0	93	6	3	1	1	1	0	
	27	42	57	50	47	38	30	25	16	57	42	38	35	30	22	11	8	74	25	23	20	15	15	10	0	83	16	15	15	13	8	8	5	89	10	10	10	10	6	6	5	94	5	5	5	5	3	3	
OCT	4	49	50	45	37	28	20	15	11	62	37	32	25	18	13	10	8	77	22	20	15	13	8	6	6	83	16	15	10	8	5	3	89	10	8	3	3	1	1	1	96	3	3	1	1	0	0		
	11	54	45	35	30	27	23	13	11	74	25	23	20	18	16	10	8	77	20	15	13	11	10	8	6	88	11	11	10	8	6	5	96	3	3	3	3	3	3	0	0	0	0	0	0	0			
	18	57	42	37	32	28	23	18	13	67	32	27	22	22	16	10	5	77	22	18	15	13	10	8	5	88	11	10	8	8	6	5	3	89	10	8	8	5	3	1	1	98	1	1	1	1	1	1	
	25	62	37	33	27	22	16	11	10	71	28	27	20	18	15	10	8	79	20	15	15	13	8	8	5	88	11	11	10	10	6	5	5	91	8	8	6	6	5	5	1	98	1	1	1	1	1	1	
NOV	1	76	23	20	15	13	10	6	8	84	15	13	8	6	3	3	1	86	13	11	5	5	1	1	1	91	8	6	5	5	1	1	1	94	5	3	1	1	1	1	1	96	3	1	0	0	0	0	
	8	86	13	10	6	3	3	3	3	93	6	5	3	3	3	3	3	94	5	3	1	1	1	1	1	94	5	3	1	1	1	1	1	96	3	1													

Table 13. Probability of occurrence of drouth days based on 22 years of record, 1949 through 1970, for Dale Hollow Dam

1-WEEK PERIOD BEGINNING		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.										
		DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH										
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7						
MAR	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	15	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	22	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	29	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
APR	5	95	4	4	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	12	86	13	8	4	4	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	19	82	17	13	4	4	4	4	4	95	4	4	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	26	91	8	4	0	0	0	0	0	95	4	4	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
MAY	3	73	26	17	8	4	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	10	60	39	34	26	17	13	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	17	56	43	34	26	21	21	13	8	91	8	4	4	4	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	24	56	43	39	26	13	8	4	4	86	13	13	8	4	4	4	4	95	4	4	4	4	4	4	4	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	31	47	52	43	39	26	21	21	13	82	17	13	13	4	4	4	4	95	4	4	4	4	4	4	4	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
JUN	7	39	60	56	52	39	34	21	4	69	30	17	17	13	8	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	14	39	60	47	47	30	26	26	13	60	39	26	26	21	17	13	4	86	13	13	4	4	4	4	4	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
	21	43	56	47	34	26	13	8	8	60	39	26	17	17	13	8	8	86	13	13	8	4	4	4	4	95	4	4	4	4	4	4	100	0	0	0	0	0	0	0	0	0	0	0	0		
	28	39	60	56	47	39	21	8	8	60	39	34	30	21	17	8	8	82	17	17	13	13	8	8	8	91	8	8	8	4	4	4	95	4	4	4	4	4	4	4	4	4	4	4	4		
JUL	5	52	47	47	34	21	17	8	8	65	34	34	21	13	13	4	4	69	30	26	13	4	4	4	4	95	4	4	4	4	4	4	100	0	0	0	0	0	0	0	0	0	0	0	0		
	12	43	56	56	47	39	26	13	0	65	34	34	26	26	21	8	0	69	30	26	17	17	17	4	0	82	17	8	4	4	4	4	100	0	0	0	0	0	0	0	0	0	0	0	0		
	19	39	60	52	47	39	26	21	13	56	43	34	34	17	13	13	8	69	30	26	26	17	13	13	8	73	26	21	21	13	8	8	91	8	0	0	0	0	0	0	0	0	0	0	0		
	26	30	69	60	52	43	34	26	17	60	39	34	34	30	21	17	6	65	34	30	26	26	21	17	17	73	26	26	26	21	17	13	78	21	21	21	17	8	8	95	4	4	4	4	4	4	
AUG	2	17	82	78	73	65	43	34	21	56	43	39	39	34	26	17	6	65	34	34	34	34	30	26	17	69	30	30	30	26	21	17	13	73	26	26	26	21	17	13	91	8	8	8	4	0	0
	9	39	60	56	52	43	39	21	8	52	47	47	39	21	17	8	6	69	30	26	26	17	13	8	0	73	26	26	26	17	13	4	0	78	21	21	17	8	4	0	0	0	0	0	0	0	
	16	17	82	78	56	52	47	39	30	34	65	56	52	43	39	34	26	47	52	52	43	39	30	26	13	65	34	30	26	21	21	13	69	30	30	26	21	21	21	8	82	17	17	17	13	4	
	23	30	69	56	56	52	39	30	21	39	60	47	47	43	34	30	17	52	47	43	43	39	26	26	17	52	47	43	43	34	21	17	8	73	26	26	26	17	17	8	78	21	21	17	17	8	
	30	17	82	78	73	60	60	47	26	39	60	56	43	34	30	21	13	47	52	52	52	34	30	21	13	56	43	43	34	30	30	21	13	60	39	34	26	21	13	8	78	21	21	17	17	13	8
SEP	6	21	78	73	65	56	39	26	17	39	60	60	52	47	39	26	17	52	47	43	43	39	30	21	17	56	43	39	39	34	26	17	8	69	30	30	26	26	17	13	8	73	26	26	17	13	8
	13	13	86	73	65	52	43	30	8	30	69	65	52	43	39	26	8	47	52	47	43	39	34	21	4	56	43	39	34	30	26	13	4	60	39	34	30	21	17	13	82	17	13	13	13	4	4
	20	47	52	47	43	34	26	26	13	52	47	47	43	34	21	21	8	60	39	34	30	21	13	13	8	65	34	30	30	21	13	8	4	73	26	21	21	13	8	4	91	8	8	8	4	4	
	27	30	60	60	47	43	39	34	30	56	43	39	26	26	21	17	17	60	39	34	26	26	21	17	17	65	34	30	21	21	17	17	69	30	26	21	21	13	13	8	86	13	8	4	4	4	
OCT	4	65	34	34	26	13	13	8	4	78	21	21	17	4	4	4	4	86	13	13	13	4	4	4	4	86	13	13	13	4	4	4	86	13	13	13	4	4	4	4	4	4	4	4	4	4	
	11	65	34	30	30	21	17	13	13	65	34	26	26	21	21	17	13	69	30	21	21	17	17	13	8	82	17	13	13	13	13	13	8	82	17	13	13	13	13	8	8	95	4	4	4	4	
	18	52	47	43	39	21	17	13	13	65	34	30	26	13	8	8	8	69	30	30	21	8	8	8	8	82	17	17	17	17	8	8	8	8	8	8	8	8	8	95	4	4	4	4	4	4	4
	25	56	43	39	30	26	13	13	8	73	26	21	13	8	4	4	4	78	21	17	8	4	4	4	4	86	13	8	4	4	4	4	86	13	8	4	4	4	4	4	91	8	4	0	0	0	
NOV	1	69	30	30	17	13	13	13	8	82	17	17	4	4	4	4	4	91	8	17	4	4	4	4	4	86	13	13	4	4	4	4	86	13	13	4	4	4	4	4	86	13	13	4	4	4	
	8	86	13	4	4	4	4	4	4	91	8	4	4	4	4	4	4	91	8																												

Table 14. Probability of occurrence of drouth days based on 22 years of record, 1949 through 1970, for Dickson

1-WEEK PERIOD BEGIN- NING:		1 INCH A _W H ₂ C ₂							2 INCH A _W H ₂ C ₂							3 INCH A _W H ₂ C ₂							4 INCH A _W H ₂ C ₂							5 INCH A _W H ₂ C ₂							7 INCH A _W H ₂ C ₂												
		DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH												
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
MAR	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	15	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	22	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	29	95	4	4	4	4	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
APR	5	95	4	4	4	4	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	12	86	13	13	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	19	86	13	13	4	4	4	0	0	95	4	4	4	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	26	86	13	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
MAY	3	65	34	34	30	30	26	17	13	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	10	65	34	26	8	8	8	8	8	86	13	13	4	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	17	60	39	26	26	8	8	8	8	91	8	8	8	8	8	8	8	95	4	4	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	24	67	52	39	30	26	21	17	13	82	17	17	17	13	8	8	4	91	8	8	8	8	8	8	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	31	39	60	60	47	34	26	21	13	65	34	30	21	13	13	8	4	82	17	13	13	0	0	0	0	95	4	4	4	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
JUN	7	34	65	56	47	43	30	17	13	60	39	34	30	30	17	13	13	65	34	26	21	17	17	4	4	91	8	8	4	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	14	34	65	56	47	43	30	17	13	56	43	30	30	30	17	13	13	69	30	26	26	21	17	13	4	82	17	17	17	13	8	4	86	13	4	4	0	0	0	0	100	0	0	0	0	0	0	0	
	21	26	73	65	47	43	30	17	13	56	43	30	30	30	21	17	13	69	30	26	26	21	17	13	4	82	17	17	17	13	8	4	86	13	4	4	0	0	0	0	100	0	0	0	0	0	0	0	
	28	26	73	65	47	43	30	17	13	52	47	43	39	26	17	13	8	60	39	34	26	21	13	8	8	78	21	17	17	13	8	4	86	13	4	4	0	0	0	0	100	0	0	0	0	0	0	0	
JUL	5	30	69	65	56	39	17	13	13	47	52	52	39	26	13	8	8	60	39	34	26	21	13	8	8	78	21	17	17	13	8	4	86	13	4	4	0	0	0	0	100	0	0	0	0	0	0	0	
	12	21	78	73	65	47	26	21	13	39	60	43	39	30	21	17	8	52	47	43	34	17	13	13	8	69	30	26	26	17	13	8	8	86	13	4	4	0	0	0	0	100	0	0	0	0	0	0	0
	19	21	78	60	56	47	43	21	13	34	65	56	52	43	39	34	17	39	60	47	34	26	21	8	8	69	30	26	26	17	13	8	8	86	13	4	4	0	0	0	0	100	0	0	0	0	0	0	0
	26	26	73	65	56	34	26	26	21	34	65	43	26	21	21	21	21	52	47	43	26	21	21	21	21	52	47	39	30	17	13	13	13	69	30	26	21	21	17	8	8	86	13	13	13	8	8	8	8
AUG	2	13	86	86	82	73	60	30	17	34	65	52	52	43	21	13	13	39	60	56	52	47	43	21	13	47	52	52	52	43	39	21	13	56	43	39	30	26	21	13	4	78	21	13	13	13	8	8	8
	9	21	78	69	52	47	34	17	13	30	69	60	43	39	34	26	17	39	60	47	39	34	30	21	17	52	47	34	30	26	26	17	13	60	39	34	30	26	21	13	4	78	21	17	17	8	8	8	
	16	17	82	73	73	52	39	26	17	39	65	60	43	30	26	17	13	39	60	56	56	39	21	17	17	43	56	52	52	30	17	17	17	47	52	43	39	17	17	17	17	17	17	17	17	17	17	17	17
	23	4	95	82	69	60	56	47	21	34	65	60	52	47	43	34	21	39	60	52	47	43	39	34	21	43	56	47	43	39	34	26	13	56	43	39	34	30	26	13	65	34	30	21	21	17	13	8	
SEP	30	17	82	78	73	73	52	39	26	30	69	65	60	56	43	30	21	43	56	52	47	43	34	26	17	43	56	52	47	43	34	26	17	52	47	43	39	30	26	17	65	34	34	26	21	17	17	17	
	7	21	78	78	65	65	43	30	26	30	69	69	56	52	34	26	21	43	56	52	47	43	34	26	21	52	47	47	43	34	26	21	52	47	47	43	30	26	21	65	34	34	30	21	17	13	8		
	13	8	91	86	59	56	52	47	34	30	69	65	60	56	52	43	17	39	60	56	56	47	39	36	30	43	56	47	43	34	26	21	47	52	52	43	34	30	26	17	65	34	34	30	21	17	13	8	
	20	26	73	69	65	60	56	47	21	21	78	78	65	52	52	43	21	39	60	56	52	43	39	17	17	47	52	52	43	34	30	17	47	52	52	39	30	26	17	65	34	34	30	21	17	13	8		
	27	21	78	65	60	56	43	34	30	34	65	56	47	39	36	30	13	43	56	47	43	34	30	26	13	73	26	21	13	8	8	8	8	73	26	21	13	8	8	8	8	78	21	17	17	13	8	8	
OCT	4	56	43	39	30	26	26	17	17	60	39	34	26	21	21	21	17	65	34	30	21	21	17	17	17	65	34	30	21	17	13	13	13	73	26	21	17	13	8	8	8	78	21	17	17	13	8	8	
	11	56	43	39	21	21	17	17	17	65	34	30	21	21	21	17	17	65	34	30	21	21	17	17	17	65	34	30	21	17	13	13	13	73	26	21	17	13	8	8	8	78	21	17	17	13	8	8	
	18	60	39	34	30	21	21	17	13																																								

Table 15. Probability of occurrence of drought days based on 43 years of record, 1928 through 1970, for Dover

1-WEEK PERIOD BEGIN- NING	1 INCH A-W-H-C							2 INCH A-W-H-C							3 INCH A-W-H-C							4 INCH A-W-H-C							5 INCH A-W-H-C							7 INCH A-W-H-C											
	DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK											
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7							
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	29	1	97	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	5	93	6	6	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
APR	12	95	4	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	19	90	9	4	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	26	90	9	6	4	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
MAY	3	84	15	13	13	13	6	2	97	2	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	10	77	22	18	15	6	4	4	97	2	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	17	81	18	13	6	4	4	4	93	6	6	4	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	24	68	31	29	20	13	4	2	93	6	6	2	2	2	2	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	31	65	34	24	24	22	15	15	4	86	13	11	11	9	4	2	97	2	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
JUN	7	63	36	31	27	22	18	18	79	20	20	18	15	11	11	9	88	11	9	4	4	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0			
	14	65	34	29	22	20	13	9	4	68	31	24	20	13	6	6	4	86	13	11	11	9	4	4	0	97	2	2	2	2	2	0	100	0	0	0	0	0	0	0	0	0	0	0			
	21	56	43	38	34	27	22	13	13	72	27	24	22	20	13	13	9	6	86	13	11	11	13	9	6	86	13	11	11	11	11	4	4	97	2	2	2	2	2	0	0	0	0	0			
	28	54	45	45	36	31	24	11	9	70	29	24	20	18	15	11	9	75	24	24	20	15	15	4	4	86	13	13	13	11	11	4	4	88	11	11	11	11	4	4	97	2	2	2	0	0	
JUL	12	47	52	40	36	27	18	15	6	61	31	27	22	15	15	9	4	75	24	24	20	15	15	4	4	86	13	13	13	11	11	4	4	88	11	11	11	11	4	4	97	2	2	2	0	0	
	19	54	45	38	34	29	20	13	9	63	36	27	22	20	13	6	4	81	18	18	18	15	13	6	4	81	18	15	15	13	13	6	4	64	15	15	13	9	9	4	2	100	0	0	0	0	
	26	50	49	43	36	29	20	15	11	65	34	31	27	24	20	13	11	68	31	24	18	13	6	4	77	22	20	15	15	11	6	6	81	18	18	11	11	9	6	6	90	9	6	6	6		
AUG	2	47	52	47	38	34	31	27	15	61	38	36	31	27	22	20	13	68	31	29	27	24	22	20	13	70	29	27	24	22	18	15	9	77	22	22	20	15	15	11	6	88	11	11	9	6	4
	9	47	52	47	43	31	24	20	13	56	43	38	31	24	20	18	13	65	34	31	27	20	20	18	13	68	31	31	27	20	18	15	11	72	27	27	22	15	13	9	9	81	18	18	13	9	9
	16	50	49	45	38	36	29	22	20	59	40	34	31	27	22	20	18	63	36	27	22	22	20	18	15	70	29	22	20	20	15	13	13	72	27	22	20	15	13	11	79	20	15	13	9	9	
	23	50	49	45	40	31	29	20	15	65	34	34	29	27	24	18	11	68	31	29	24	24	24	18	11	72	27	27	20	20	20	13	11	77	22	22	18	18	11	11	81	18	15	11	11	9	
	30	50	49	45	40	38	31	24	13	61	38	36	31	29	24	20	9	65	34	31	27	27	22	18	6	70	29	27	22	22	20	15	6	72	27	24	20	18	15	13	4	79	20	18	13	13	11
SEP	6	56	43	36	34	29	18	13	11	63	36	29	27	22	15	9	6	68	31	27	24	18	13	6	4	70	29	27	22	18	13	11	4	77	22	20	18	13	11	4	84	15	13	11	6	2	
	13	59	40	40	40	34	24	20	13	65	34	34	34	27	22	18	6	72	27	27	20	15	13	6	6	77	22	22	22	15	13	11	4	81	18	18	13	11	9	4	84	15	13	11	9	6	
	20	65	34	29	24	22	20	18	15	70	29	27	20	20	15	13	13	77	22	20	15	13	9	6	6	81	18	15	11	11	6	6	6	84	15	15	11	9	4	4	80	9	4	4	2	2	
	27	54	45	36	31	27	22	18	9	72	27	22	20	15	13	9	4	75	24	20	20	15	13	6	6	79	20	15	13	11	6	6	6	81	18	13	11	11	6	6	84	15	13	11	9	6	
OCT	4	70	29	27	20	18	13	9	4	84	15	15	13	6	4	2	88	13	13	9	9	4	2	0	90	9	9	9	6	6	2	2	93	6	6	6	4	2	2	95	4	4	4	2	2	2	
	11	70	29	22	18	13	11	11	79	20	18	13	11	11	9	4	4	84	15	15	15	13	9	4	4	86	13	13	13	11	9	6	2	88	11	11	11	6	6	6	2	93	6	6	2	2	2
	18	79	20	18	15	9	6	6	84	15	15	13	9	4	4	4	84	15	15	15	13	9	4	4	86	13	13	13	11	9	6	2	88	11	11	11	6	6	6	2	93	6	6	2	2	2	
	25	77	22	13	11	9	4	4	4	84	15	15	13	9	4	4	4	84	15	15	15	13	9	4	4	86	13	13	13	11	9	6	2	88	11	11	11	6	6	6	2	93	6	6	2	2	2
NOV	1	90	7	9	9	9	9	9	97	2	2	2	2	2	2	0	97	2	2	2	2	2	2	0	97	2	2	2	2	2	2	0	97	2	2	2	2	2	2	0	97	2	2	2	2	0	
	8	93	6	4	4	0	0	0	97	2	2	2	2	2	0	0	97	2	2	2	2	2	0	0	97	2	2	2	2	2	2	0	97	2	2	2	2	2	2	0	97	2	2	2	2	0	
	15	93	6	6	6	4	2	2	93	6	4	4	4	2	2	0	95	4	4	4	4	2	2	0	95	4	4	4	4	2	2																

Table 16. Probability of occurrence of drouth days based on 22 years of record, 1949 through 1970, for Fayetteville

1-WEEK PERIOD BEGIN- NING:		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.												
		DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH												
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
MAR	1	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	15	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	22	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	29	86	13	13	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
APR	5	86	13	13	13	13	13	13	13	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	12	86	13	13	13	13	13	13	13	86	13	13	13	13	13	13	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	19	73	26	26	13	13	8	8	8	86	13	13	13	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	26	73	26	26	17	13	13	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	3	52	47	43	43	26	21	21	17	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
MAY	10	60	39	34	26	21	21	21	17	82	17	13	13	13	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	17	60	39	34	34	34	30	21	17	78	21	21	21	21	21	17	13	86	13	13	13	13	13	13	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	24	56	43	39	34	30	26	21	13	78	21	21	21	21	21	17	13	82	17	13	13	13	13	13	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	31	47	52	52	47	34	34	26	26	69	30	30	26	26	17	17	13	82	17	13	13	13	13	13	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
JUN	7	21	78	52	52	47	39	34	30	52	47	34	34	34	26	26	21	86	13	13	13	13	13	13	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	14	21	78	52	52	47	39	34	30	52	47	34	34	34	26	26	21	86	13	13	13	13	13	13	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	21	37	60	56	52	47	39	34	30	47	52	39	34	30	30	30	17	78	21	21	21	21	21	21	13	82	17	17	17	17	17	13	86	13	8	8	8	8	8	8	91	8	8	8	8	8	8	8	
	28	17	82	78	69	60	47	47	47	34	65	65	60	52	47	47	47	73	47	52	43	39	30	26	13	69	30	21	21	21	17	13	78	21	17	13	8	8	8	8	91	8	8	8	8	8	8	8	
JUL	5	30	69	69	56	34	34	34	26	39	60	60	47	30	30	30	21	52	47	47	39	26	26	26	21	69	30	21	21	21	17	13	78	21	17	13	8	8	8	8	91	8	8	8	8	8	8	8	
	12	34	65	60	60	56	43	26	26	34	65	60	60	52	39	21	39	69	56	56	47	34	21	47	52	47	43	43	30	26	26	21	69	30	30	30	26	17	17	17	73	26	26	13	8	4	4	4	
	19	47	52	34	21	21	21	17	60	39	30	21	21	21	21	17	65	34	30	21	21	21	17	13	69	30	30	30	30	26	17	17	73	26	26	13	8	8	8	8	91	8	8	8	8	8	8	8	
	26	26	73	65	47	43	34	34	21	56	43	39	30	30	30	21	60	39	34	26	26	26	21	17	69	30	30	26	26	26	21	65	34	30	21	21	21	17	17	86	13	13	13	13	13	8	8		
AUG	2	26	73	69	65	56	52	43	34	47	52	47	39	34	34	21	56	43	39	34	34	34	21	17	69	30	34	30	26	26	21	65	34	30	21	21	21	17	17	86	13	13	13	13	13	8	8		
	9	30	69	65	60	47	43	43	34	39	60	52	47	39	39	30	34	65	47	43	39	30	26	21	17	69	30	34	30	26	21	65	34	30	21	21	21	17	17	86	13	13	13	13	13	8	8		
	16	21	78	69	52	43	30	26	26	34	65	52	39	34	26	21	21	34	65	47	43	39	30	26	21	17	69	30	34	30	26	21	65	34	30	21	21	21	17	17	86	13	13	13	13	13	8	8	
	23	26	73	65	65	56	39	21	39	60	52	52	43	26	21	17	39	60	52	52	39	21	17	17	13	43	56	47	47	39	21	17	17	52	47	43	43	34	21	17	17	65	34	34	30	21	17	17	17
	30	26	73	69	65	65	39	26	39	60	60	56	47	47	30	26	39	60	60	56	47	47	30	26	13	69	30	60	56	47	47	30	21	52	47	43	39	30	26	21	17	65	34	34	30	21	17	17	17
SEP	6	21	78	73	60	52	47	43	21	52	47	47	39	34	21	21	52	47	43	39	34	30	21	21	52	47	43	39	34	30	21	52	47	43	39	30	26	21	17	17	65	34	30	30	26	21	13	13	
	13	30	69	69	65	56	47	43	21	47	52	47	39	34	26	26	56	43	39	34	30	26	26	26	52	47	43	39	34	30	26	52	47	43	39	34	26	26	65	34	30	30	30	26	21	13	13		
	20	34	65	60	52	47	39	39	30	47	52	47	39	30	30	26	56	43	39	34	30	26	26	26	52	47	43	39	34	30	26	52	47	43	39	34	26	26	65	34	30	30	30	26	21	13	13		
	27	30	69	56	47	39	39	30	26	47	52	47	39	30	30	26	60	39	30	26	17	17	17	13	69	30	26	21	17	13	13	13	69	30	26	21	17	17	17	17	65	34	30	30	30	26	21	13	13
OCT	4	26	73	60	52	47	30	17	13	52	47	34	30	26	21	13	13	69	30	26	17	17	17	13	69	30	26	21	17	13	13	13	69	30	26	21	17	17	17	17	65	34	30	30	30	26	21	13	13
	11	43	56	47	47	39	39	30	30	60	39	34	30	21	21	17	17	69	30	26	17	17	17	13	73	26	21	17	17	17	17	17	69	30	26	21	21	21	21	21	65	34	30	30	30	26	21	13	13
	18	52	47	43	43	34	34	26	26	60	39	39	26	21	21	21	21	69	30	30	30	21	21																										

Table 17. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Franklin, Ky.

1-WEEK PERIOD BEGIN- NING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.												
	DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH												
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7								
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	29	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
APR	5	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	12	190	9	4	4	2	2	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	19	86	13	9	4	4	2	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	26	84	15	11	11	9	2	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
MAY	3	70	29	27	22	15	11	6	2	195	4	2	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	10	70	29	27	22	15	11	6	2	190	9	4	4	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	17	70	29	18	11	11	9	4	2	193	6	6	4	4	2	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	24	59	40	29	20	15	13	9	90	9	9	6	4	4	2	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
JUN	6	45	54	52	45	36	31	24	15	65	34	29	24	20	11	11	6	90	9	6	6	4	4	2	197	2	2	2	2	2	2	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	13	45	54	49	40	38	29	22	15	59	40	38	34	29	22	18	15	77	22	20	18	13	6	6	190	9	2	2	2	2	2	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	21	50	49	45	43	29	18	11	6	70	29	27	24	20	15	6	2	77	22	18	18	11	9	4	2	88	11	11	9	9	4	2	195	4	0	0	0	0	0	1100	0	0	0	0	0	0		
	28	50	49	47	38	29	20	15	6	63	36	31	27	20	13	11	4	81	18	18	15	13	11	4	4	86	13	11	6	4	4	2	193	6	6	6	4	4	2	1100	0	0	0	0	0	0		
JUL	4	52	43	36	34	29	27	9	59	40	29	29	24	22	18	6	75	24	15	15	13	11	11	4	84	15	11	11	11	9	4	190	9	6	6	4	4	2	1100	0	0	0	0	0	0			
	11	40	59	49	40	29	15	11	6	61	38	31	29	20	13	9	4	68	31	22	20	13	9	4	2	86	13	11	11	9	4	2	190	9	6	6	4	4	2	197	2	0	0	0	0	0		
	19	38	61	45	40	29	15	6	56	43	31	29	18	13	11	4	63	36	27	22	11	9	6	2	77	22	15	13	4	2	0	86	13	6	2	0	0	0	197	2	0	0	0	0	0			
	26	34	65	61	43	38	36	24	15	50	49	45	36	29	24	13	56	43	36	29	22	18	15	11	63	36	31	24	18	13	9	6	77	22	15	15	9	4	4	193	6	6	6	4	2	2		
AUG	2	27	72	65	56	43	36	29	20	40	59	56	49	36	34	24	15	47	52	49	40	29	27	22	15	56	43	40	34	27	22	18	11	63	36	36	29	24	22	15	9	86	13	11	9	9	4	2
	9	29	70	68	56	38	34	24	18	38	61	56	47	36	31	22	13	45	54	49	43	31	27	20	13	56	43	36	29	20	20	11	9	70	29	27	20	15	15	9	77	22	18	15	11	4	4	
	16	38	61	54	47	31	27	15	13	47	52	45	36	24	20	13	11	54	45	38	34	22	20	13	11	56	43	36	31	27	20	13	11	65	34	31	20	15	13	11	79	20	18	13	13	11	11	
	23	29	70	65	59	52	38	27	20	47	52	49	43	34	29	22	18	50	49	43	36	31	24	20	13	65	43	31	24	20	20	18	15	68	31	29	24	20	20	15	11	79	20	16	13	11	9	6
SEP	4	54	54	47	43	36	29	22	5	45	43	36	27	24	22	20	6	63	36	34	27	22	20	18	15	65	43	31	24	20	20	18	15	68	31	29	24	20	20	15	11	79	20	16	13	11	9	6
	11	38	61	56	44	31	24	18	12	52	47	43	36	27	20	15	56	43	38	29	22	15	13	11	61	38	38	34	27	20	13	11	63	36	34	29	24	18	11	9	81	18	18	13	15	9	6	
	18	38	61	63	56	38	29	18	12	50	49	52	49	47	29	22	13	50	49	47	47	45	27	22	11	52	47	45	40	27	22	11	54	45	43	40	38	24	20	9	75	24	22	20	15	11	4	
	25	38	61	59	47	40	31	24	18	45	54	52	46	37	22	18	50	49	45	36	29	20	13	11	54	45	43	34	27	15	11	11	56	43	40	31	24	15	11	75	24	22	18	15	9	6		
OCT	4	56	43	38	29	27	24	18	13	65	34	31	24	22	20	13	13	70	29	27	24	20	18	13	11	72	27	24	18	15	11	11	75	24	24	22	15	13	6	77	22	22	20	13	11	6		
	11	56	43	38	31	24	20	15	13	70	29	29	24	18	15	11	11	72	27	27	24	18	15	11	11	75	24	24	22	15	13	6	77	22	22	20	13	11	6	77	22	22	20	13	11	6		
	18	59	40	34	31	29	24	22	18	70	29	24	22	18	15	13	9	72	27	22	20	15	11	9	75	24	20	18	18	15	11	9	72	27	20	18	15	13	9	2	77	22	18	15	11	9	2	
	25	54	45	43	36	29	22	15	15	65	34	27	22	13	11	4	4	72	27	22	20	11	9	2	72	27	22	20	11	9	2	2	77	22	20	11	9	2	2	190	9	6	6	4	4	4		
NOV	1	79	20	20	13	11	11	11	11	86	13	11	11	9	9	9	9	90	9	6	6	6	4	4	4	90	9	9	6	6	4	4	90	9	6	6	6	4	4	93	6	6	6	4	4	4		
	8	79	20	15	13	11	9	9	9	86	13	11	11	11	9	9	9	90	9	6	6	6	4	4	4	90	9	6	6	6	4	4	90	9	6	6	6	4	4	93	6	6	6	4	4	4		
	15	84	15	11	11	4	4	4	4	88	11	9	9	2	2	2	2	93	6	6	6	2	2</																									

Table 18. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Franklin

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.																			
	DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK																			
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7							
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	29	97	2	2	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
APR	5	95	4	2	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	12	86	13	6	4	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	19	90	9	6	6	6	4	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	26	86	13	13	9	6	6	4	95	4	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
MAY	3	65	34	27	24	22	11	2	0	95	4	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	10	45	54	45	36	29	18	11	9	86	13	11	2	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	17	45	54	47	36	20	9	4	77	22	18	13	6	2	2	0	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	24	52	47	45	36	27	24	24	20	75	24	22	18	15	15	13	90	9	6	6	4	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
	31	43	56	52	45	36	24	24	22	59	40	34	39	20	15	11	84	15	13	13	11	9	9	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0							
JUN	7	27	72	60	63	54	47	38	27	52	47	45	38	34	31	22	70	29	24	22	18	18	11	6	86	13	13	11	6	4	2	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0							
	14	25	74	61	59	47	36	31	20	43	56	49	47	40	31	29	20	29	24	22	18	18	11	6	86	13	13	11	6	4	2	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0							
	21	27	72	63	59	49	29	22	18	56	43	40	40	31	24	20	13	59	40	38	34	31	22	18	13	79	20	18	13	11	6	6	0	90	9	6	4	2	2	0	97	2	0	0	0	0	0	0							
	28	25	74	65	54	43	29	20	9	43	56	45	34	24	18	11	4	56	43	38	29	20	13	9	4	81	18	15	11	6	4	0	1	81	18	15	11	6	4	0	95	4	2	2	2	0	0								
JUL	5	29	70	61	49	45	31	22	15	45	54	45	40	34	24	13	13	56	43	29	27	24	18	15	9	70	29	22	22	13	13	9	75	24	20	18	11	9	4	95	4	2	2	0	0	0	0								
	12	22	77	60	63	56	47	38	20	43	56	49	47	43	38	31	18	50	49	45	45	38	29	24	13	61	38	34	31	27	20	6	68	31	24	22	18	13	6	84	15	15	11	9	2	2	0								
	19	15	84	79	63	54	47	40	18	34	65	61	49	40	36	27	13	47	52	49	40	36	34	27	11	54	45	43	38	31	29	27	9	61	38	38	31	24	15	15	9	79	20	18	15	11	9	6							
	26	15	84	77	63	54	43	36	18	36	63	59	54	45	36	27	15	52	47	40	40	36	29	22	15	61	38	38	34	29	22	15	65	34	34	34	29	24	22	15	81	18	18	15	15	13	9								
AUG	2	15	84	70	70	59	47	31	15	34	65	59	59	43	40	29	13	43	56	47	47	31	27	20	9	59	40	36	31	24	20	15	9	65	34	27	24	20	15	9	75	24	20	20	18	11	4								
	9	22	77	68	52	47	40	27	18	31	68	59	49	45	36	24	13	38	61	54	47	40	34	22	11	47	52	43	38	31	27	18	6	59	40	38	34	29	27	18	6	65	34	22	22	20	15	6							
	16	25	74	65	56	49	36	24	22	38	61	52	45	43	36	24	20	43	56	47	38	36	29	22	18	50	49	40	31	29	24	18	13	65	34	31	24	24	18	11	9	75	24	22	18	18	15	9							
	23	9	90	68	63	54	49	31	20	38	61	47	45	40	36	29	20	40	59	45	40	36	31	24	15	47	52	38	36	31	29	22	13	54	45	36	31	24	22	18	9	70	29	27	24	20	18	13	4						
	30	15	84	74	70	56	54	36	29	34	65	56	49	40	40	20	18	45	54	47	43	36	34	20	18	47	52	45	40	36	34	18	15	59	40	36	31	27	27	15	13	72	27	24	22	18	18	9	6						
SEP	6	22	77	70	59	52	40	31	25	38	61	59	54	47	36	27	22	50	49	47	43	36	29	22	18	52	47	45	40	38	29	20	18	54	45	43	40	38	29	20	15	56	43	36	36	27	18	13	70	29	27	27	22	18	13
	13	29	70	65	61	54	40	29	25	47	52	49	47	45	31	20	18	52	47	43	40	38	29	20	18	54	45	43	40	38	29	20	15	56	43	36	36	27	18	13	70	29	27	27	22	18	13								
	20	25	72	62	54	49	34	22	18	38	61	52	45	38	31	22	15	52	47	40	34	29	27	20	13	54	45	36	31	29	27	20	13	59	40	36	31	29	27	20	13	65	34	29	27	24	22	15	9						
	27	15	84	72	65	45	40	31	18	35	56	40	31	29	26	13	11	49	38	36	27	24	20	11	52	47	36	31	24	22	20	11	56	45	34	29	24	22	20	11	63	36	27	22	18	15	15	6							
OCT	4	50	49	43	38	36	24	20	11	61	38	36	31	29	15	13	6	70	29	24	22	20	13	11	4	77	25	22	22	18	13	11	4	79	20	18	18	15	13	9	84	15	15	15	13	11	9	4							
	11	56	43	36	29	27	24	24	13	70	29	27	24	22	20	11	72	27	24	24	22	20	15	4	79	20	22	22	18	15	15	4	79	20	18	18	15	13	9	84	15	15	15	13	11	9	4								
	18	56	43	36	24	20	13	9	63	36	31	29	22	18	13	9	68	31	27	24	20	15	11	6	75	24	22	20	15	11	6	77	22	20	18	15	11	6																	

Table 19. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Gatlinburg

1-WEEK PERIOD BEGINNING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.										
	DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK							
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7						
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	29	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
APR	5	93	4	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	12	95	4	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	19	84	15	11	9	6	4	2	2	97	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	26	88	11	11	6	4	4	0	0	97	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
MAY	3	79	20	11	6	6	2	2	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	10	79	20	13	13	4	4	2	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	17	77	22	18	11	6	6	4	4	95	4	4	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	24	75	24	18	11	9	4	2	0	93	6	6	6	4	4	2	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	31	68	31	20	18	11	9	6	4	93	6	6	6	4	4	2	2	95	4	2	2	2	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
JUN	7	61	38	31	29	18	15	9	6	84	15	9	6	4	4	2	0	95	4	2	2	2	2	0	97	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	14	77	22	20	11	4	4	4	4	90	9	4	2	2	2	2	2	95	4	0	0	0	0	0	97	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	21	56	43	34	27	18	9	6	6	84	15	13	9	6	4	4	4	95	4	4	4	4	4	4	97	2	2	2	2	2	2	97	2	2	2	2	0	0	0	100	0	0	0	0		
	28	59	40	27	22	20	13	6	6	81	18	13	9	4	2	0	0	95	4	2	2	2	0	0	97	4	2	2	2	2	2	97	2	2	2	2	0	0	0	100	0	0	0	0		
JUL	5	70	29	27	22	15	13	9	6	84	15	15	9	6	6	4	2	95	4	2	2	2	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0		
	12	65	34	29	20	15	13	4	2	81	18	15	11	11	9	6	4	2	93	6	6	6	6	4	2	95	4	4	2	2	2	2	97	2	2	0	0	0	0	0	100	0	0	0	0	
	19	59	40	29	20	18	11	6	4	86	13	11	9	6	6	4	4	88	11	9	6	6	4	4	93	6	6	4	4	4	4	2	97	2	2	2	2	2	0	0	100	0	0	0	0	
	26	70	29	20	18	11	11	2	2	86	13	11	11	11	2	2	2	88	13	11	11	9	4	2	90	9	9	9	6	4	4	2	97	2	2	2	2	2	2	2	95	4	2	0	0	
AUG	2	72	27	18	13	9	2	2	0	88	11	6	6	4	4	2	2	88	11	6	6	4	2	2	93	6	2	2	2	2	2	97	2	2	2	2	2	2	2	95	4	2	2	0		
	9	63	36	31	24	18	4	4	4	90	9	6	4	4	4	4	4	95	4	4	4	2	2	2	95	4	4	2	2	2	2	97	2	2	2	2	2	2	2	95	4	2	2	2		
	16	59	40	24	22	20	20	13	13	84	15	11	6	4	4	4	4	95	4	4	2	2	2	2	95	4	4	2	2	2	2	97	2	2	2	2	2	2	2	95	4	2	2	2		
	23	45	54	47	40	32	20	4	4	77	22	18	18	13	6	4	2	90	9	9	6	6	2	0	95	4	4	4	4	4	4	2	97	2	2	2	2	2	2	2	95	4	2	2	2	
	30	47	52	47	38	29	24	20	0	70	29	22	15	13	13	13	2	84	15	13	11	11	11	0	90	9	9	4	4	4	4	2	97	2	2	2	2	2	2	2	95	4	2	2	2	
SEP	6	56	43	43	36	24	13	9	6	76	24	22	20	15	9	6	4	86	13	13	9	6	6	4	90	9	9	6	6	6	4	2	97	2	2	2	2	2	2	2	95	4	2	2	2	
	13	45	54	49	40	29	24	15	9	59	40	31	20	15	11	9	6	81	18	13	11	9	6	6	90	9	9	6	6	6	4	2	97	2	2	2	2	2	2	2	95	4	2	2	2	
	20	50	49	43	36	26	29	15	11	65	34	29	22	22	20	9	6	79	20	15	11	11	11	4	88	11	9	9	6	6	4	2	97	2	2	2	2	2	2	2	95	4	2	2	2	
	27	50	49	40	29	20	15	9	6	65	34	29	20	15	11	6	4	79	20	18	13	11	6	4	2	90	9	9	9	6	6	4	2	97	2	2	2	2	2	2	2	95	4	2	2	2
OCT	4	72	27	22	18	13	9	9	4	84	15	15	13	11	6	6	2	88	11	11	9	6	6	6	2	93	6	6	6	6	6	2	95	4	4	4	4	4	4	4	95	4	4	4	4	
	11	72	27	24	22	20	13	9	4	84	15	13	9	9	6	2	2	90	9	9	9	9	6	2	2	95	4	4	4	4	4	2	97	2	2	2	2	2	2	2	95	4	2	2	2	
	18	70	29	24	20	18	13	9	9	79	20	18	13	13	11	9	9	84	15	13	9	9	6	6	93	6	6	4	4	4	2	97	2	2	2	2	2	2	2	95	4	4	2	2		
	25	75	24	24	20	15	13	9	9	79	20	20	15	13	11	9	9	84	15	15	11	9	9	6	84	15	15	11	4	4	2	97	2	2	2	2	2	2	2	93	6	2	0	0		
NOV	1	84	13	9	9	6	2	0	0	98	11	9	9	4	2	0	0	93	6	4	4	2	2	0	93	6	4	4	2	2	0	0	97	2	2	2	2	0	0	0	97	2	2	2	0	
	8	90	9	6	2	0	0	0	0	95	4	4	2	2	0	0	0	93	6	4	4	2	2	0	93	6	4	4	2	2	0	0	97	2	2	2	2	0	0	0	97	2	2	2	0	
	15	95	4	4	2	2	2	0	0	95	4	4	2	2	0	0	0	95	4	4	2	2	2	0	95	4	4	2	2	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	
	22	100	0	0	0	0	0	0	0	10																																				

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1-WEEK PERIOD BEGINNING:		1 INCH A-W-H-C							2 INCH A-W-H-C							3 INCH A-W-H-C							4 INCH A-W-H-C							5 INCH A-W-H-C							7 INCH A-W-H-C													
		DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK										
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7									
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	29	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
APR	5	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	12	91	8	4	4	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	19	78	21	17	13	8	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	26	86	13	13	8	8	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
MAY	3	73	26	26	21	13	13	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	10	60	39	30	17	13	8	0	91	8	8	4	4	4	4	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	17	52	47	39	34	21	13	8	4	91	8	8	8	4	4	4	95	4	4	4	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	24	47	52	34	26	21	13	13	4	82	17	13	8	4	4	4	95	4	4	4	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	31	34	65	56	47	30	17	13	13	69	30	21	13	4	0	95	4	4	4	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
JUN	7	39	60	52	43	34	26	17	13	52	47	34	17	13	8	8	86	13	8	4	4	0	0	0	95	4	4	4	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
	14	52	47	47	30	26	21	17	13	8	65	34	26	26	21	17	4	82	17	13	13	8	8	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
	21	47	52	34	34	30	17	13	8	78	21	17	13	8	4	4	95	4	4	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
	28	43	56	47	43	26	17	8	0	69	30	30	17	13	8	0	73	26	26	26	13	13	8	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
JUL	5	39	60	39	26	17	13	4	0	73	26	17	13	8	4	0	78	21	17	13	8	8	0	0	95	4	4	4	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
	12	39	60	52	43	26	17	8	0	73	26	21	17	13	8	0	86	13	13	13	8	8	0	0	91	8	8	4	4	4	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
	19	30	69	52	43	26	17	8	0	60	59	20	21	4	4	4	73	26	17	13	4	4	0	0	82	17	13	8	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
	26	30	69	52	43	20	26	17	8	65	34	26	21	17	13	0	69	30	21	17	13	13	8	0	73	26	17	17	13	13	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
AUG	9	26	73	65	47	34	30	13	13	39	60	52	43	26	17	13	8	65	34	21	13	13	13	8	0	69	30	21	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	16	30	69	60	52	39	34	21	17	43	56	43	39	21	17	13	60	39	30	21	17	13	13	4	4	78	21	17	13	8	4	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	23	26	73	69	65	43	34	8	0	43	56	52	39	34	30	8	47	52	52	39	34	26	17	4	65	34	21	17	17	13	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	30	26	73	65	56	52	39	21	17	47	52	52	47	34	21	17	52	47	47	47	43	34	21	17	56	43	43	39	39	26	8	8	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
SEP	6	26	73	69	56	47	34	21	13	34	65	56	47	39	30	17	8	43	56	52	39	30	21	13	8	56	43	39	30	26	17	8	8	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	13	26	73	73	65	52	47	21	13	39	60	56	47	39	39	21	47	52	52	43	39	34	21	13	8	47	52	47	39	34	21	21	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	20	30	69	60	56	39	30	17	13	39	60	52	47	30	26	13	8	43	56	47	43	30	26	13	8	47	52	43	39	26	21	13	8	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	27	43	56	47	43	34	8	8	0	56	43	34	30	21	8	8	86	13	13	13	4	4	4	4	0	60	39	34	30	21	8	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
OCT	4	65	34	34	30	21	13	8	78	21	21	17	17	8	8	0	82	17	17	17	17	8	8	0	82	17	26	26	17	17	17	17	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	11	47	52	47	47	39	26	21	13	60	39	34	26	21	21	13	82	17	26	26	21	21	13	8	60	39	34	26	26	17	17	13	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	18	43	56	47	30	26	21	17	13	52	43	39	26	17	17	13	60	39	34	26	21	17	13	8	60	39	34	26	26	17	17	13	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	25	17	60	52	26	13	13	13	69	30	26	21	17	13	13	13	69	30	26	21	17	13	13	13	69	30	26	21	17	13	13	13	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
NOV	1	82	17	17	17	4	4	4	4	86	13	13	13	4	4	4	86	13	13	13	4	4	4	4	0	86	13	13	13	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	8	91	8	4	4	4	4	4	4	95	4	4	4	4	4	4	95	4	4	4	4	4	4	4	0	95	4	4	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	
	15	95	4	4	4	4	4	4	4	95	4	4	4	4	4	4	95	4	4																															

Table 21. Probability of occurrence of drought days based on 22 years of record, 1949 through 1970, for Huntington

1-WEEK PERIOD BEGIN- NING:		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.												
		DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH												
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
MAR	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	15	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	22	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
APR	29	91	8	8	8	8	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	5	95	4	4	4	4	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	12	95	4	4	4	4	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	19	82	17	8	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
MAY	26	86	13	8	0	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	3	65	34	26	21	21	17	13	8	91	8	4	4	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	10	56	43	26	17	13	8	8	8	86	13	8	8	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	17	65	34	30	17	13	8	4	4	91	8	8	8	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
JUN	24	52	47	34	21	17	13	8	8	91	8	8	4	4	4	4	0	95	4	4	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	31	39	60	47	43	43	26	13	13	73	26	21	17	17	8	4	0	86	13	4	4	4	4	0	0	95	4	4	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	7	34	65	60	47	39	30	26	2	52	47	43	30	21	21	17	17	78	21	17	13	13	8	8	0	91	8	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	14	30	69	60	52	39	26	8	4	60	39	26	21	17	13	4	4	86	13	8	4	4	0	0	0	91	8	4	4	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
JUL	21	21	78	73	65	39	30	26	21	56	43	39	30	21	17	13	69	30	21	17	8	8	4	0	95	4	4	4	4	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	28	21	78	69	52	47	30	26	17	34	65	56	52	47	26	21	13	43	56	43	34	30	13	13	4	78	21	17	13	4	4	4	0	95	4	4	4	4	4	0	100	0	0	0	0	0	0	0	
	5	30	69	65	47	43	21	21	8	52	47	47	34	30	21	21	8	56	43	30	26	21	21	8	69	30	30	21	21	17	17	8	82	17	8	8	8	8	0	100	0	0	0	0	0	0	0		
	12	26	73	69	56	52	47	26	17	52	47	47	30	26	17	13	60	39	39	26	21	21	17	13	73	26	26	21	21	17	17	13	78	21	21	17	17	13	8	91	8	8	8	8	4	0			
AUG	19	21	78	78	60	52	43	26	17	43	56	56	52	34	21	13	56	43	43	39	34	21	13	60	39	39	39	34	26	17	13	69	30	26	26	21	21	17	13	86	13	8	8	8	8	8			
	26	13	86	78	69	52	39	34	30	34	65	56	47	39	26	26	21	56	43	43	39	26	26	21	60	39	39	34	21	21	21	13	65	34	30	30	21	21	21	13	78	21	17	17	13	13	13		
	9	26	73	65	56	78	65	47	21	17	82	78	65	52	34	21	17	34	65	60	52	43	30	21	17	56	43	39	30	30	21	21	17	60	39	34	30	21	21	17	69	30	26	21	17	17	13		
	16	21	78	69	60	34	26	13	26	73	65	60	43	30	26	21	13	30	60	60	60	43	30	26	21	39	60	60	43	30	21	17	56	43	43	26	17	13	8	69	30	17	17	8	8	8			
SEP	23	17	78	73	60	47	39	26	21	34	65	65	56	47	39	21	13	39	60	60	47	39	30	21	39	60	60	47	39	30	21	17	52	52	43	34	34	30	17	69	30	30	26	26	21	13			
	30	26	73	73	60	47	39	30	21	34	65	65	56	47	39	21	13	56	43	43	30	21	17	13	56	43	43	30	21	17	13	13	65	34	39	39	30	21	17	73	26	21	21	13	8	8			
	6	34	65	60	60	47	39	26	21	52	47	43	43	30	21	17	13	65	34	34	34	30	21	17	13	65	34	30	26	26	21	17	13	73	26	21	17	13	73	26	21	17	17	17	13	13			
	13	30	69	63	34	34	30	21	17	52	47	39	34	34	21	17	13	65	34	34	34	30	17	8	4	65	34	34	34	30	13	8	4	65	34	34	34	30	13	8	4	69	30	30	26	26	13	8	4
OCT	20	39	60	56	52	52	39	34	30	52	47	43	43	30	21	13	56	43	43	34	30	17	8	8	60	39	39	39	30	17	8	8	60	39	39	39	30	17	8	8	65	34	34	34	26	13	4	4	
	27	21	78	69	52	52	30	17	8	43	56	52	47	39	17	8	4	65	34	34	34	30	13	8	4	65	34	34	34	30	13	8	4	65	34	34	34	30	13	8	4	69	30	30	26	26	13	8	4
	4	52	47	47	39	30	21	13	8	73	26	26	17	17	13	8	4	82	17	13	13	8	8	4	82	17	17	13	13	8	8	4	62	17	17	13	13	8	4	62	17	17	13	13	8	8	4		
	11	47	52	52	39	34	34	26	21	65	34	30	26	21	21	17	17	65	34	30	26	17	17	13	73	26	26	21	17	17	13	13	73	26	26	21	17	17	13	13	73	26	21	17	17	13	13		
NOV	18	39	60	56	52	30	26	13	8	60	39	39	34	30	26	13	13	65	34	34	30	26	17	13	69	30	30	26	21	17	13	13	69	30	26	21	17	13	13	73	26	26	21	17	13	13			
	25	43	56	47	47	34	26	21	13	65	34	30	30	21	17	13	13	65																															

Table 22. Probability of occurrence of drought days based on 71 years of record, 1900 through 1970, for Jackson

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.												
	DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK												
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
MAR 1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAR 8	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAR 15	95	4	4	4	4	4	4	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAR 22	94	5	5	5	5	5	5	2	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAR 29	93	6	6	6	6	6	6	2	97	2	2	2	2	2	2	2	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
APR 5	90	9	8	5	5	5	5	4	97	2	2	2	2	2	2	2	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
APR 12	90	9	9	8	6	5	4	1	97	2	2	2	2	2	2	2	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
APR 19	84	15	11	6	4	2	2	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
APR 26	83	16	11	8	8	4	4	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAY 3	68	31	23	20	16	15	13	5	95	4	4	4	2	2	2	2	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAY 10	58	41	30	23	19	11	8	8	91	8	6	4	4	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAY 17	54	45	41	34	23	18	13	11	83	16	15	9	5	4	4	4	95	4	4	2	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAY 24	48	51	47	40	36	30	26	22	70	29	24	18	15	11	8	6	95	4	4	4	4	4	2	2	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
MAY 31	33	68	54	40	37	34	30	27	59	40	31	22	19	16	16	12	84	15	12	9	8	8	6	4	95	4	2	2	2	2	2	2	98	1	1	1	1	1	1	1	98	1	1	1	1	1	1	1
JUN 7	29	70	66	56	47	43	36	27	47	52	46	34	27	27	22	15	73	26	20	19	13	11	9	6	90	9	9	6	5	4	4	4	94	5	2	1	1	1	1	1	98	1	1	1	1	1	1	1
JUN 14	31	68	58	52	47	40	30	18	52	47	40	37	30	27	19	13	66	33	27	20	13	11	9	6	84	15	11	9	7	4	4	4	94	5	2	1	1	1	1	1	96	1	1	1	1	1	1	1
JUN 21	20	79	74	63	56	41	26	16	37	62	54	44	40	26	12	6	54	45	40	33	27	19	9	6	75	24	16	12	9	8	2	2	93	6	5	5	5	5	2	2	98	1	1	1	1	1	1	1
JUN 28	20	79	72	62	48	34	26	13	36	63	56	49	37	24	18	9	51	48	40	36	29	18	12	5	70	29	23	19	15	9	9	5	87	12	11	9	8	5	5	4	97	2	2	2	2	2	2	2
JUL 5	22	77	68	55	49	38	36	22	37	62	54	45	41	30	20	20	50	49	44	40	37	27	26	15	61	38	33	30	24	19	15	9	75	24	19	18	13	9	9	6	95	4	2	2	1	1	1	1
JUL 12	11	88	77	69	55	49	38	29	34	65	59	55	41	36	30	20	44	55	49	45	34	30	26	16	65	44	41	38	33	30	26	16	65	34	30	27	22	19	13	11	88	11	9	5	4	2	2	2
JUL 19	11	88	80	65	61	55	43	33	27	72	66	56	49	43	36	22	38	61	54	43	40	36	29	22	47	52	47	38	34	30	23	16	59	40	34	30	26	23	19	12	81	18	15	15	12	8	8	4
JUL 26	12	87	77	70	65	56	45	30	25	74	66	61	52	45	33	27	34	65	56	55	47	40	29	22	45	54	45	44	36	31	23	19	52	47	41	40	33	26	19	15	75	24	20	19	15	12	8	6
AUG 2	12	87	80	74	65	47	38	26	25	74	65	61	47	40	31	25	29	70	59	55	47	37	31	23	37	62	52	48	40	33	26	18	52	47	43	41	33	26	19	15	75	24	22	19	15	12	9	8
AUG 9	27	72	61	55	49	40	36	27	44	55	51	47	45	38	31	25	48	51	49	47	45	37	30	25	52	47	41	41	41	34	29	23	59	40	38	34	31	27	26	20	75	24	22	20	16	16	11	
AUG 16	15	84	79	69	54	47	37	26	33	66	63	56	44	36	29	23	43	56	55	51	41	36	29	23	43	56	55	51	41	36	29	23	45	54	51	45	36	31	24	20	61	38	33	30	26	22	18	15
AUG 23	13	86	77	69	59	44	35	23	29	70	65	62	51	45	38	26	36	63	61	58	45	41	33	22	40	59	56	51	41	36	30	20	45	54	49	47	37	33	27	20	58	41	40	36	29	20	18	16
AUG 30	15	84	76	69	59	49	40	30	26	73	66	58	51	38	34	25	31	68	63	55	47	33	30	22	34	65	61	49	43	33	30	22	38	61	55	45	40	27	24	16	55	44	40	36	30	22	19	13
SEP 6	23	76	72	59	51	44	36	30	36	73	69	54	45	36	29	26	41	58	55	49	43	34	27	25	43	56	54	48	41	33	26	23	45	54	51	43	37	30	23	19	59	40	37	33	29	24	19	16
SEP 13	22	77	70	62	54	45	43	29	43	56	55	52	43	38	37	25	48	51	49	48	41	37	34	25	51	48	47	45	37	33	33	23	54	45	44	43	37	33	33	23	63	36	34	29	26	22	19	
SEP 20	23	76	72	65	56	48	40	31	43	56	54	44	38	37	30	25	52	47	43	36	33	31	24	22	55	44	41	34	31	30	23	20	59	40	37	33	30	25	15	20	69	30	27	24	22	19	18	
SEP 27	20	79	70	65	52	40	26	20	40	59	52	45	38	30	20	13	50	49	44	40	33	24	15	11	54	45	40	37	31	24	15	11	54	45	40	37	31	24	15	11	54	45	40	37	31	24	15	11
OCT 4	38	61	55	45	40	33	26	24	52	47	41	33	30	24	20	19	61	38	33	29	26	24	22	19	69	30	30	27	26	24	22	19	69	30	30	27	26	24	22	19	69	30	30	27	26	24	22	19
OCT 11	55	44	44	38	34	31	27	23	62	37	37	34	31	27	24	22	66	33	31	29	26	24	22	19	72	27	26	22	20	16	13	9	72	27	26	22	20	16	13	9	72	27	26	22	20	16	11	6
OCT 18	51	48	44	36	29	23	18	13	68	31	30	26	24	20	18	13	70	29	29	24	22	16	13	9	72	27	26																					

Table 23. Probability of occurrence of drouth days based on 22 years of record, 1949 through 1970, for Jefferson City

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.								2 INCH A.W.H.C.								3 INCH A.W.H.C.								4 INCH A.W.H.C.								5 INCH A.W.H.C.								7 INCH A.W.H.C.							
	DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK			
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	29	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
APR	5	95	4	4	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	12	91	8	8	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	19	82	17	17	17	13	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	26	82	17	8	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
MAY	3	69	30	26	17	13	8	8	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	10	52	47	34	34	17	17	4	4	91	8	8	8	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	17	60	39	34	26	21	21	17	8	91	8	8	8	4	4	4	95	4	4	4	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	24	52	47	26	17	0	0	0	0	86	13	0	0	0	0	0	95	4	4	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	31	56	43	34	21	17	8	4	0	91	8	0	0	0	0	0	95	4	4	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
JUN	7	34	65	56	52	43	34	26	17	69	30	30	21	17	17	4	86	13	13	13	13	4	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	14	39	60	52	43	34	34	26	17	56	43	30	26	21	17	17	86	13	8	8	8	8	4	0	91	8	4	4	4	4	4	4	95	4	4	0	0	0	0	0	1100	0	0	0	0	0	0	0
	21	39	60	52	39	34	17	17	13	56	43	39	17	17	8	8	86	13	8	8	8	8	4	0	91	8	8	8	8	4	4	4	95	4	4	0	0	0	0	0	1100	0	0	0	0	0	0	0
	28	26	73	65	56	43	34	21	17	56	43	43	34	30	21	17	8	82	17	17	17	13	8	4	91	8	8	8	8	4	4	4	95	4	4	4	4	4	1100	0	0	0	0	0	0	0		
JUL	5	21	78	65	52	39	30	17	13	47	52	43	39	26	13	8	65	34	26	26	17	8	4	0	82	17	8	4	4	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	12	39	60	52	43	34	21	8	4	52	47	43	34	26	17	4	60	39	39	34	26	17	4	0	78	21	21	17	13	8	4	0	86	13	13	13	13	4	4	0	1100	0	0	0	0	0	0	0
	19	34	65	60	43	26	17	8	0	56	43	43	30	17	13	8	65	34	34	26	13	8	8	0	73	26	21	17	8	0	0	0	86	13	13	13	4	0	0	95	4	4	0	0	0	0	0	
	26	34	65	47	43	30	26	21	17	60	39	30	26	26	21	17	13	69	30	26	26	26	21	17	13	69	30	26	26	26	21	17	4	82	17	13	13	13	8	4	91	8	0	0	0	0	0	
AUG	2	26	73	65	60	39	34	30	13	52	47	43	43	34	26	21	13	65	34	30	30	21	21	17	13	65	34	26	26	17	17	13	8	73	26	21	21	17	17	13	4	91	8	8	8	4	0	0
	9	17	82	73	73	65	56	39	34	39	60	52	52	47	34	30	26	52	47	39	39	30	26	17	69	30	26	26	26	17	17	13	73	26	21	21	17	17	13	8	91	8	8	8	4	4	0	
	16	13	86	82	60	47	34	26	26	26	73	65	43	34	26	21	13	34	65	56	39	34	21	8	8	69	30	30	17	17	13	8	8	69	30	30	17	17	13	8	8	8	17	13	4	4	4	4
	23	17	82	82	52	47	43	34	17	34	65	65	47	43	39	34	17	39	60	60	43	39	34	30	17	52	47	43	34	26	26	17	13	69	30	30	17	17	13	13	86	13	13	13	13	13	13	13
	30	17	82	73	65	60	52	30	13	30	69	60	56	47	43	30	13	39	60	56	52	43	34	30	17	52	47	43	34	26	43	34	26	69	30	30	21	21	17	4	82	17	17	13	13	13	4	
SEP	6	17	82	78	69	65	56	52	30	17	82	78	65	60	52	47	43	30	69	60	52	47	43	30	17	56	43	43	39	26	21	21	13	65	34	34	30	21	17	17	65	34	30	30	17	17	13	
	13	13	86	86	69	65	60	52	30	17	82	78	65	60	52	43	34	30	69	60	47	39	34	34	26	43	56	47	43	39	34	34	26	56	43	34	34	30	26	82	17	17	17	17	17	13		
	20	39	60	56	56	43	26	21	21	52	47	52	52	39	26	21	21	52	47	47	39	26	21	21	13	56	43	43	39	26	21	21	13	65	34	34	30	21	17	17	65	34	30	30	17	17	13	
	27	30	69	60	52	43	34	21	8	52	47	43	34	30	17	21	8	52	47	43	34	30	21	21	13	73	26	26	26	21	8	8	8	78	21	21	21	17	8	8	86	13	13	13	13	8	8	
OCT	4	56	43	39	39	39	26	21	17	65	34	34	34	34	30	17	65	34	34	34	34	34	30	21	65	34	34	34	34	34	30	21	65	34	34	26	26	21	17	86	13	13	13	13	13	13		
	11	56	43	39	39	39	26	26	26	65	34	34	34	34	30	26	65	34	39	30	26	26	26	21	65	34	34	26	26	21	21	13	78	21	21	21	21	17	78	21	21	21	21	21	17			
	18	47	52	47	34	30	26	26	26	56	43	43	30	26	26	26	21	60	39	39	30	26	26	26	21	65	34	34	26	21	21	21	13	78	21	21	21	21	17	78	21	21	21	21	21	17		
	25	60	39	34	34	26	21	17	13	65	34	34	30	21	21	17	13	65	34	34	26	21	21	17	13	65	34</																					

Table 24. Probability of occurrence of drouth days based on 40 years of record, 1931 through 1970, for Kingsport

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.								2 INCH A.W.H.C.								3 INCH A.W.H.C.								4 INCH A.W.H.C.								5 INCH A.W.H.C.								7 INCH A.W.H.C.								
	DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	29	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
APR	5	1	97	2	0	0	0	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	12	1	92	7	7	4	4	0	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	19	80	19	19	19	12	7	4	4	100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	26	1	87	12	9	9	7	7	2	95	4	2	2	2	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
MAY	3	1	60	39	24	17	12	4	4	1	95	4	4	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	10	1	53	46	39	26	19	14	9	0	1	90	9	9	7	7	0	1	97	2	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	17	1	51	48	36	29	21	17	7	4	1	90	9	9	7	4	2	0	1	97	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	24	1	41	58	51	36	17	9	4	1	78	21	12	7	7	4	2	0	1	95	4	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
	31	1	39	60	51	48	41	29	17	4	1	68	31	26	24	21	19	4	0	1	90	9	7	7	4	4	0	1	97	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0
JUN	7	1	34	65	60	53	41	29	21	12	58	41	36	31	21	12	12	7	1	80	19	12	7	7	4	4	2	0	1	97	2	2	2	2	2	2	0	1	97	2	2	2	2	2	2	0			
	14	1	31	68	48	34	24	21	19	12	4	51	48	36	29	21	19	14	7	1	73	26	17	14	9	4	4	1	1	90	9	7	7	4	2	2	1	97	2	2	2	2	2	2	0				
	21	1	36	63	56	43	34	21	14	9	1	51	48	43	29	24	17	12	9	1	63	36	34	24	14	12	9	7	1	87	12	12	9	9	7	7	1	92	7	7	4	4	4	2	1				
	28	1	24	75	63	46	31	26	19	9	1	51	48	36	26	24	21	14	9	1	60	39	29	21	19	14	9	7	1	78	21	17	14	12	9	4	2	1	90	9	7	7	7	4	2	1			
JUL	5	1	34	65	51	46	26	26	21	12	1	51	48	36	36	24	17	14	12	1	65	34	26	24	17	14	12	9	1	75	24	17	17	7	7	4	2	1	85	14	9	7	7	4	4	2			
	12	1	36	63	48	43	36	31	19	7	1	51	48	41	31	24	21	14	7	1	68	31	29	24	21	19	12	4	1	78	21	19	14	14	9	2	1	85	14	14	9	7	7	4	2				
	19	1	43	56	43	31	21	17	9	2	1	65	34	26	24	17	14	7	2	1	73	26	19	17	12	7	2	1	80	19	12	12	9	2	0	1	87	12	7	7	4	2	0	1					
	26	1	43	56	43	34	21	12	7	4	1	70	29	21	17	12	9	4	2	1	75	24	19	17	12	9	4	2	1	78	19	17	12	7	4	2	1	90	9	9	4	2	2	1	92				
AUG	2	1	34	65	63	53	41	34	19	9	1	56	43	39	34	21	12	7	2	1	73	26	21	17	14	9	4	2	1	80	21	19	17	14	9	4	2	1	82	17	14	14	12	4	2	0			
	9	1	21	78	65	53	41	34	19	7	1	51	48	46	34	34	26	17	7	1	60	39	34	21	21	17	9	2	1	73	26	26	21	19	14	7	2	1	80	19	17	14	14	12	4	0			
	16	1	36	63	58	46	39	24	17	7	1	51	48	41	36	31	21	12	7	1	60	39	31	29	24	14	9	4	1	75	24	19	19	14	9	4	2	1	80	19	17	12	9	7	2	1			
	23	1	34	65	56	48	29	21	12	1	56	43	36	36	34	21	14	14	1	1	60	39	31	29	29	12	12	1	1	63	36	26	24	21	17	9	9	1	73	26	17	14	12	7	7	1			
	30	1	24	75	70	65	58	48	29	17	1	48	51	46	48	41	29	17	4	1	60	39	36	34	31	24	14	4	1	63	36	34	31	24	14	4	1	70	29	26	21	17	9	4	1				
SEP	6	1	24	75	65	56	53	34	21	12	1	51	48	43	41	26	21	17	1	1	56	43	39	34	31	24	14	4	1	63	36	31	26	21	17	14	4	1	63	36	29	24	19	14	12	85			
	13	1	17	68	65	56	53	48	31	1	36	63	56	48	39	34	31	12	1	1	51	48	43	39	34	34	29	19	1	58	41	34	34	31	26	19	1	60	39	34	31	29	26	19	82				
	20	1	29	70	68	60	53	34	21	1	34	65	63	56	48	41	21	14	1	1	46	53	51	41	34	29	14	12	1	58	41	41	39	29	24	14	12	1	60	39	36	34	24	19	9	7			
	27	1	21	78	75	68	41	29	26	21	1	36	63	60	46	34	29	21	17	1	46	53	53	41	29	24	17	14	1	58	41	41	31	24	19	14	9	1	60	39	36	29	21	17	12	9			
OCT	4	1	43	56	48	43	34	29	24	14	1	51	48	41	34	34	24	19	12	1	56	43	39	29	29	21	14	7	1	68	31	26	17	17	9	7	4	1	75	24	19	12	12	9	7	4			
	11	1	46	53	51	46	41	34	29	21	1	53	46	43	41	39	31	26	21	1	56	43	41	39	39	31	26	21	1	68	31	26	24	21	19	12	1	75	24	21	19	17	14	9	7				
	18	1	48	51	46	36	24	21	17	7	1	58	41	39	34	21	21	17	7	1	60	39	36	31	21	21	17	7	1	65	34	31	26	19	17	7	1	78	21	19	14	14	14	7	1				
	25	1	48	51	39	36	26	26	19	12	1	58	41	34	34	29	19	14	12	1	63	36	29	26	17	12	12																						

Table 25. Probability of occurrence of drouth days based on 61 years of record, 1910 through 1970, for Knoxville AP

1-WEEK PERIOD BEGINNING	1 INCH A.W.H.C.								2 INCH A.W.H.C.								3 INCH A.W.H.C.								4 INCH A.W.H.C.								5 INCH A.W.H.C.								7 INCH A.W.H.C.										
	DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK						
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7			
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	15	98	1	1	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	22	98	1	1	1	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	29	98	1	1	1	1	1	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
APR	5	96	3	3	1	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	12	91	8	8	8	3	3	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	19	80	19	17	16	12	8	6	4	98	1	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	26	82	17	16	9	9	8	6	4	96	3	1	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
MAY	3	62	37	27	20	19	14	6	0	93	6	6	3	3	1	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	10	48	51	40	30	24	20	14	8	90	9	9	8	4	4	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	17	51	48	38	30	27	24	17	9	79	20	20	12	11	8	4	3	95	4	4	1	1	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	24	59	40	38	35	27	17	14	9	77	22	19	16	14	12	4	93	6	6	4	4	3	1	1	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
	31	41	58	51	38	32	17	14	6	72	27	22	17	14	11	6	3	85	14	12	9	8	4	1	0	95	4	4	1	1	1	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0			
JUN	7	30	69	59	51	38	27	14	12	64	35	30	24	17	9	8	6	80	19	11	9	6	3	3	1	0	91	8	8	8	4	3	1	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	14	40	59	45	43	29	12	14	11	53	46	29	25	16	8	6	4	80	19	11	9	6	3	3	1	0	91	8	8	8	4	3	1	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	21	29	70	58	51	35	19	16	11	64	35	32	29	20	16	12	9	69	30	25	19	16	12	9	6	75	24	17	12	11	8	6	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	28	20	79	69	59	43	37	22	6	64	53	41	32	25	24	16	6	74	25	32	25	19	16	12	9	6	88	11	8	8	8	4	3	1	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
JUL	5	22	77	62	49	37	30	16	11	64	51	41	33	27	17	11	6	69	30	25	19	16	12	9	6	75	24	17	12	11	8	6	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	12	30	69	54	49	41	32	14	6	51	48	33	30	22	17	9	4	70	29	22	20	14	11	1	1	0	80	19	14	12	11	8	6	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	19	25	74	59	49	38	27	16	11	50	49	37	30	24	16	11	8	67	32	25	22	14	12	9	6	79	20	17	12	9	8	8	6	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	26	17	82	69	64	51	35	22	14	63	56	51	48	43	27	14	9	54	45	37	32	29	14	8	6	74	25	20	19	17	11	8	6	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
AUG	2	14	82	72	64	53	35	24	9	37	62	58	51	40	25	22	6	48	51	49	41	32	19	17	6	67	32	29	24	17	9	9	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	9	27	75	69	58	51	35	27	14	38	61	58	46	43	32	24	11	46	53	48	40	38	30	20	11	59	40	35	32	30	25	19	9	7	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	16	27	72	66	58	46	37	25	16	43	56	51	46	38	32	22	14	53	46	41	38	30	27	20	12	58	41	38	35	30	25	17	12	6	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	23	14	85	72	62	59	46	25	3	33	66	56	48	43	37	33	25	43	56	51	43	40	32	29	22	53	46	40	35	33	27	22	19	9	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
SEP	6	12	87	79	70	59	53	38	30	30	69	58	51	45	41	30	24	41	58	51	45	41	38	30	24	48	51	46	43	38	33	27	19	56	43	37	35	32	29	20	12	70	29	24	20	17	12	9	6		
	13	19	80	70	59	51	48	40	30	27	72	64	51	45	43	37	29	40	59	54	41	35	32	25	17	43	56	51	46	43	38	30	25	16	51	48	38	29	25	24	20	14	69	30	27	20	12	11	9	6	
	20	14	75	66	62	51	40	29	32	67	59	58	45	35	25	4	41	58	54	49	48	38	29	24	17	48	51	46	45	37	27	22	12	51	48	45	40	38	29	19	16	69	30	27	24	16	12	9	6		
	27	24	75	67	63	52	40	29	32	67	58	49	43	35	25	20	37	62	53	41	33	24	19	17	46	53	48	38	29	20	17	16	48	51	43	37	27	20	17	14	66	33	27	24	17	12	9	9			
OCT	4	38	61	56	48	35	27	24	17	50	49	45	40	30	25	22	16	51	48	43	38	30	27	20	12	48	51	46	38	32	29	20	17	50	49	45	38	32	27	19	62	37	32	27	22	19	12	11			
	11	40	59	53	49	46	38	27	25	54	45	40	38	37	29	19	17	56	43	38	38	37	29	19	17	54	40	35	32	29	22	19	12	67	32	35	32	27	22	19	12	69	30	27	24	17	12	11	11		
	18	48	51	46	40	27	24	19	14	59	40	37	32	22	22	17	12	61	38	37	32	22	22	17	12	62	37	33	27	22	22	17	12	67	32	37	37	27	22	22	19	75	24	20	20	16	11	9	9		
	25	53	46	38	32	27	19	17	11	66	33	29	25	22	16	16	11	67	32	29	25	22	16	16	11	67	32	29	25	22	22	16	16	61	70	29	27	24	20	14	14	74	25	24	20	17	14	8	8		
NOV	1	69	30	24	14	11	9	9	6	77	22	17	8	4	4	4	3	77	22	17	8	4	4	4	3	77	22	17	8	4	4	4	3	79	20	16	8	4	4	4	3	80	19	14	8	4	4	3	3		
	8	88	11	6	3	3	1	1	1	93	6	4	3	3	1	1	1	93	6	4	3	3	1	1	1	93	6	4	3	3	1	1	1	93	6	4	3	3	1	1	1	93									

Table 26. Probability of occurrence of drouth days based on 19 years of record, 1952 through 1970, for Knoxville

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.								2 INCH A.W.H.C.								3 INCH A.W.H.C.								4 INCH A.W.H.C.								5 INCH A.W.H.C.								7 INCH A.W.H.C.								
	DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	29	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
APR	5	89	9	9	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	12	75	24	14	4	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	19	69	29	24	24	14	4	0	0	94	4	4	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	26	73	24	14	9	4	4	4	4	94	4	4	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
MAY	3	59	39	39	39	29	29	9	4	89	9	4	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	10	44	54	49	44	24	19	14	9	84	14	14	14	9	9	4	4	94	4	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	17	50	49	44	39	39	24	19	9	64	34	29	24	24	14	9	9	89	9	4	4	4	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	24	29	69	54	39	24	14	4	4	64	34	19	14	9	4	4	4	89	9	4	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	31	34	64	49	24	14	9	4	0	64	34	14	0	0	0	0	0	84	14	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
JUN	7	39	59	59	49	39	19	9	4	50	49	44	24	19	14	9	4	84	14	9	9	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	14	34	64	54	44	34	29	19	14	50	49	39	34	29	24	19	14	59	39	29	19	9	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	21	29	69	59	69	29	24	14	9	54	44	39	29	19	14	9	9	59	39	34	29	19	14	9	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	28	14	84	64	59	54	44	24	19	50	49	49	34	34	24	19	14	59	39	39	34	29	24	14	4	75	24	24	19	19	14	9	4	79	19	4	4	4	4	4	4	100	0	0	0	0	0	0	0
JUL	5	25	74	69	54	29	24	14	14	39	59	54	34	19	19	9	4	54	44	39	24	9	4	0	69	29	29	9	4	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
	12	25	74	54	44	19	14	9	4	44	54	44	29	29	14	14	9	64	34	24	19	14	14	9	4	69	29	24	14	14	9	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	19	39	59	54	44	29	14	14	9	50	49	44	34	19	9	4	4	64	34	29	24	14	4	4	0	69	29	24	14	14	9	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	26	29	69	64	59	49	29	19	9	50	49	49	39	24	14	9	4	50	44	34	24	9	4	0	54	44	34	24	14	4	4	0	69	29	29	14	9	4	0	0	100	0	0	0	0	0	0	0	
AUG	2	25	74	64	64	49	34	14	50	49	49	49	39	24	24	19	14	54	44	44	29	24	19	14	59	39	39	29	24	19	14	14	69	29	29	19	14	9	4	0	100	0	0	0	0	0	0	0	
	9	25	74	69	59	49	39	34	25	29	69	59	44	29	29	14	14	39	59	49	44	44	29	25	14	54	44	44	39	29	25	14	50	49	49	44	39	29	29	14	75	24	19	14	14	14	9	9	
	16	14	84	74	69	59	59	29	19	19	64	59	54	39	29	25	14	34	64	59	54	39	39	29	25	34	64	59	49	29	29	14	54	44	39	34	29	29	14	59	39	34	24	19	9	9			
	23	19	79	59	54	39	29	25	14	34	64	59	54	39	29	25	14	34	64	59	54	39	39	29	25	34	64	59	54	44	39	29	14	54	44	54	39	29	29	14	54	44	39	34	19	19	14	9	
	30	4	94	84	79	59	54	34	39	29	64	64	64	44	39	29	25	39	59	54	44	39	34	25	14	54	54	54	49	39	34	25	14	54	54	44	34	29	24	19	59	39	39	34	29	24	19	9	
SEP	6	14	84	79	69	54	49	44	34	29	64	64	64	44	39	29	25	29	64	64	54	49	44	34	19	34	64	59	49	44	34	14	54	54	49	44	34	29	24	19	54	44	39	34	24	19	14	9	
	13	14	79	74	69	59	54	29	19	19	79	69	59	54	39	14	14	50	49	39	29	29	14	14	14	54	44	34	29	29	14	14	54	44	34	29	29	19	9	69	29	19	19	14	9	4	4		
	20	25	74	54	44	39	24	14	14	44	54	44	39	34	19	14	14	50	49	39	29	29	14	14	14	54	44	34	29	29	14	14	54	44	34	29	29	19	9	69	29	19	19	14	9	4	4		
	27	25	74	69	49	24	24	14	14	50	49	49	39	19	19	14	14	54	44	34	19	19	14	14	14	59	39	39	29	19	19	14	14	59	39	39	29	19	19	14	75	24	14	14	14	9	9		
OCT	4	50	49	44	39	29	19	14	4	64	34	29	24	19	19	14	4	64	34	24	19	14	14	14	4	69	29	19	14	9	4	0	0	75	24	19	14	9	4	0	0	79	19	14	14	14	9	9	
	11	50	49	44	39	29	25	25	14	64	34	29	24	24	19	14	14	64	34	29	24	19	14	14	4	69	29	24	24	19	14	14	69	29	29	24	19	14	14	68	29	24	19	19	14	9	9		
	18	39	59	49	44	39	29	29	29	59	39	34	29	29	25	25	25	69	29	25	25	25	25	25	14	75	24	19	19	19	14	14	75	24	19	19	19	14	75	24	19	19	19						

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1-WEEK PERIOD BEGINNING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.												
	DROUTH						DAYS PER WEEK	DROUTH						DAYS PER WEEK	DROUTH						DAYS PER WEEK	DROUTH						DAYS PER WEEK	DROUTH						DAYS PER WEEK	DROUTH						DAYS PER WEEK						
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	29	97	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
APR	5	97	2	2	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	12	93	6	6	6	4	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	19	84	15	13	6	4	4	2	2	97	2	2	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	26	86	13	13	9	6	6	6	6	97	2	2	2	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
MAY	3	65	34	29	22	18	9	4	4	95	4	2	2	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	10	56	43	40	27	22	15	11	6	90	9	6	6	4	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
	17	40	59	54	36	27	20	18	11	84	15	15	11	9	6	6	97	2	2	2																												

Table 28. Probability of occurrence of drouth days based on 35 years of record, 1928 through 1962, for Loudon

[illegible]

Table 35. Probability of occurrence of drouth days based on 44 years of record, 1927 through 1970, for Montague

1-WEEK PERIOD BEGIN- NING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.									
	DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK							
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7					
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0
8	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0
15	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0
22	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0
29	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0
APR	5	97	2	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
12	95	4	4	4	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
19	91	8	8	4	2	2	0	0	97	2	2	2	2	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
26	88	11	11	8	8	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
MAY	3	75	24	13	11	11	8	6	2	97	2	2	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
10	62	37	28	17	13	13	8	8	4	91	8	8	8	6	6	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
17	64	35	28	24	19	17	15	6	88	11	8	4	2	2	2	2	97	2	2	2	2	2	2	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
24	63	35	26	24	19	17	13	8	8	8	8	6	6	6	4	4	95	4	4	4	4	4	4	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
31	66	33	26	24	19	17	13	8	82	17	17	15	11	8	8	4	97	2	2	2	2	2	2	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
JUN	7	55	49	42	39	21	17	13	2	77	22	11	8	6	4	2	93	6	6	6	6	6	6	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
14	66	33	26	19	17	13	8	8	82	17	17	15	11	8	8	4	91	8	8	8	8	8	6	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
21	59	39	33	26	17	15	13	8	79	19	19	15	8	8	8	6	93	6	6	6	6	6	4	2	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0
28	48	51	44	35	28	17	13	13	68	31	26	24	22	13	13	8	8	8	8	8	8	8	6	2	95	4	2	2	2	2	2	97	2	2	2	2	2	2	100	0	0	0	0	0	0
JUL	5	57	42	31	28	22	19	13	4	77	22	19	13	11	8	6	82	17	15	13	11	6	4	2	91	8	6	6	4	4	2	97	2	2	2	2	2	2	100	0	0	0	0	0	0
12	66	33	31	19	17	15	13	11	77	22	19	13	11	11	8	6	91	8	8	8	8	8	6	2	97	2	2	2	2	2	2	97	2	2	2	2	2	2	100	0	0	0	0	0	0
19	59	39	33	28	24	13	11	2	68	31	24	17	13	6	6	2	79	19	15	11	4	2	2	2	93	6	6	6	4	4	2	97	2	2	2	2	2	2	97	2	2	2	2	2	2
26	59	39	31	24	22	15	15	6	82	17	17	15	11	11	2	86	13	11	11	11	8	8	2	91	8	8	8	8	8	6	2	95	4	2	2	2	2	2	97	2	2	2	2	2	2
AUG	2	53	46	37	31	19	15	11	2	75	24	15	13	6	6	4	2	79	19	13	8	6	4	2	91	8	6	6	4	4	2	97	2	2	2	2	2	2	97	2	2	2	2	2	2
9	57	42	37	26	22	19	8	4	84	15	15	13	13	6	6	2	88	11	8	8	8	6	2	93	6	6	6	6	6	4	2	95	4	4	4	4	4	4	97	2	2	2	2	2	2
16	48	51	37	35	26	19	13	11	77	22	15	11	8	6	4	88	11	11	11	8	6	6	4	2	91	8	6	6	6	6	2	97	2	2	2	2	2	2	100	0	0	0	0	0	0
23	37	62	53	46	42	31	26	15	64	35	31	28	26	17	15	11	77	22	13	13	8	6	4	88	11	11	8	6	6	4	4	93	6	6	6	4	2	0	100	0	0	0	0	0	0
30	44	55	51	44	37	19	15	5	52	42	39	28	26	11	8	71	28	28	19	15	6	4	86	13	13	8	6	6	4	2	88	11	8	6	6	4	2	97	2	2	2	2	2	2	
SEP	6	59	39	31	26	17	15	6	68	31	31	26	22	15	13	6	75	24	22	17	13	11	4	84	15	15	11	8	6	2	95	4	4	2	2	2	2	95	4	4	2	2	2	2	
13	59	39	33	26	19	15	13	7	71	28	28	26	17	13	11	79	19	19	19	15	13	11	8	84	15	15	15	11	11	8	8	91	8	8	8	4	2	2	97	2	2	2	2	2	2
20	51	48	46	39	33	22	17	11	66	33	31	26	17	13	11	75	24	22	17	13	13	11	8	84	15	15	11	11	11	8	8	84	15	11	8	6	4	95	4	4	2	2	2	2	
27	57	42	35	31	22	17	11	6	82	17	15	11	11	8	6	77	22	17	13	8	6	2	84	15	13	6	4	4	2	2	83	13	11	6	4	2	2	97	2	2	2	2	2	2	
OCT	4	66	33	31	22	22	11	6	82	17	17	15	13	8	4	88	11	11	6	6	6	4	91	8	8	8	4	4	4	4	93	6	6	4	4	4	4	97	2	2	2	2	2	2	
11	68	31	28	26	24	22	15	8	77	22	17	17	13	8	4	82	17	17	15	11	8	6	86	13	13	13	11	6	6	4	91	8	8	8	6	6	4	93	6	6	4	4	2	2	
18	66	33	26	19	17	11	11	11	77	22	22	15	11	8	8	8	79	19	19	11	8	6	6	86	13	13	13	8	6	6	8	84	11	8	6	6	4	4	93	6	6	4	4	2	2
25	71	28	26	19	13	13	11	8	77	22	22	15	11	8	6	82	17	17	13	8	6	6	86	13	13	13	8	6	6	8	84	11	8	6	6	4	4	93	6	6	4	4	2	2	
NOV	1	86	13	11	6	4	4	4	93	6	6	2	0	0	0	0	93	6	6	2	0	0	0	95	4	4	2	0	0	0	0	95	4	4	2	0	0	0	95	4	4	2	0	0	0
8	95	4	2	2	2	0	0	0	97	2	0	0	0	0	0	0	97	2	0	0	0	0	0	97	2	0	0	0	0	0	0	95	4	4	2	0	0	0	95	4	4	2	0	0	0
15	97	2	2	2	0	0</																																							

Table 36. Probability of occurrence of drouth days based on 22 years of record, 1949 through 1970, for Moscow

1-WEEK PERIOD BEGIN- NING:		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.														
		DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK														
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7		
MAR	1	91	8	8	0	0	0	0	0	95	4	4	0	0	0	0	0	95	4	4	0	0	0	0	0	95	4	4	0	0	0	0	0	95	4	4	0	0	0	0	0	95	4	4	0	0	0	0	0		
	8	95	4	4	4	4	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	15	95	4	4	4	4	4	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	22	86	13	13	8	8	8	8	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	29	82	17	13	13	13	8	4	4	95	4	4	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
APR	5	82	17	8	8	8	4	4	4	91	8	4	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	12	69	30	21	13	8	8	8	4	91	8	8	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	19	78	21	17	13	13	13	8	8	86	13	13	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	26	78	21	17	4	4	4	4	4	91	8	8	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
MAY	3	52	47	39	26	26	26	17	8	91	8	8	8	8	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	10	52	47	43	34	30	26	21	17	78	21	17	8	4	4	0	0	95	4	4	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	17	52	47	43	34	30	26	21	17	60	39	39	26	21	17	13	13	91	8	8	8	8	8	8	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	24	39	60	52	39	34	26	13	8	65	34	30	26	26	21	13	8	82	17	17	17	17	17	13	8	91	8	8	8	8	8	8	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	31	43	56	56	39	34	26	17	8	60	39	39	30	30	17	17	8	82	17	13	13	13	13	8	8	91	8	8	8	8	8	8	8	95	4	4	0	0	0	0	0	100	0	0	0	0	0	0	0		
JUN	7	56	43	43	39	30	26	13	8	60	39	34	30	30	26	21	13	78	21	21	21	21	8	8	8	91	8	8	8	8	8	8	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0		
	14	47	52	47	47	34	26	21	17	60	39	34	30	26	26	17	13	73	26	26	21	21	21	17	13	82	17	17	17	13	13	8	8	91	8	8	8	8	8	8	8	91	8	8	4	4	0	0	0		
	21	60	39	39	34	34	30	26	6	65	34	34	34	30	26	21	17	78	21	21	21	21	17	17	13	82	17	21	17	17	17	13	13	8	8	91	8	8	8	8	8	8	8	91	8	8	8	8	8	8	8
	28	39	60	56	47	39	30	21	17	56	43	39	30	21	17	17	17	56	43	39	39	26	21	17	17	69	30	39	30	26	17	17	13	69	30	30	26	17	17	13	8	82	17	13	13	8	8	8	8		
JUL	5	21	78	65	60	47	34	26	13	52	47	47	43	26	21	21	13	60	39	39	34	21	21	21	13	69	30	39	30	26	17	17	13	69	30	30	26	17	17	13	8	82	17	13	13	8	8	8	8		
	12	21	78	65	65	47	34	26	13	47	52	52	43	26	26	17	65	34	34	34	26	26	26	17	69	30	30	30	26	26	17	17	69	30	30	26	21	21	17	76	21	17	13	8	8	8	8				
	19	30	69	65	56	56	43	26	13	34	65	60	47	43	34	21	13	52	47	43	34	26	21	13	69	30	30	26	26	21	17	13	73	26	26	26	21	17	17	82	17	17	17	17	17	17	13				
	26	21	78	65	52	39	34	30	30	34	65	56	43	34	30	30	30	39	60	52	39	30	26	26	56	43	39	34	21	21	17	17	73	26	26	17	17	17	17	78	21	21	21	17	17	17	17				
AUG	2	0	99	78	73	65	56	52	43	21	78	69	65	60	47	47	39	34	65	56	52	47	39	39	34	43	56	47	47	34	30	26	13	56	43	34	26	21	17	13	73	26	21	17	13	13	8	8			
	9	17	82	69	65	56	52	43	30	34	65	56	47	47	39	26	39	60	52	47	47	43	34	17	47	52	43	39	30	26	13	56	43	34	30	26	17	13	73	26	17	8	8	4	0	0	0				
	16	13	86	82	78	65	56	52	39	21	78	60	52	47	39	39	30	43	56	52	47	47	39	39	30	47	52	47	43	34	26	17	52	47	43	39	39	34	30	21	65	34	30	26	21	17	13	13			
	23	17	82	69	65	52	43	34	26	43	56	47	43	39	39	39	21	52	47	39	39	30	26	26	17	65	34	30	30	26	26	17	52	47	39	30	26	26	17	69	30	26	26	17	17	13	13				
	30	17	82	78	69	65	43	39	21	43	56	73	69	65	47	13	13	43	56	52	43	26	17	17	13	56	43	43	43	26	17	13	56	43	43	43	26	17	13	43	43	43	26	17	13	13	13				
SEP	6	30	60	60	52	43	39	30	21	39	60	52	47	39	34	26	21	47	52	43	34	30	26	21	17	56	43	34	30	26	17	17	69	30	30	26	26	21	17	60	39	30	26	26	26	21	17				
	13	13	86	78	69	56	39	21	17	39	60	52	47	39	34	21	17	39	60	60	43	39	34	21	17	47	52	47	34	30	26	17	52	47	43	34	30	21	13	60	39	39	30	26	26	17	13				
	20	13	86	78	73	60	52	43	39	30	69	69	65	52	43	39	34	34	65	65	60	47	39	34	30	39	60	60	56	43	34	26	17	47	52	52	47	34	26	26	21	56	43	39	30	21	21	21			
	27	21	78	69	65	52	30	26	17	34	65	60	60	47	30	26	17	39	60	56	56	39	26	21	17	43	56	52	52	39	21	21	17	47	52	47	43	30	21	21	21	60	39	34	30	21	21	17			
OCT	4	39	60	56	52	47	26	21	21	47	52	47	39	34	21	17	17	52	47	43	34	26	17	17	17	56	43	39	30	26	17	17	17	69	39	39	30	26	17	17	69	30	26	26	17	17	17	17			
	11	34	65	60	52	39	30	26	6	60	39	39	34	30	30	26	26	69	30	30	26	21	21	17	17	73	26	26	21	21	17	17	17	73	26	26	21	21	17	17	78	21	21	21	21	17	17	17			
	18	34	65	60	52	47	43	30	30	60	39	39	39																																						

Table 37. Probability of occurrence of drouth days based on 40 years of record, 1931 through 1970, for Murfreesboro

1-WEEK PERIOD BEGIN- NING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.																				
	DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK																		
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7								
MAR	1	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
8	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
15	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
22	1100	0	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
29	195	4	4	4	4	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
APR	5	195	4	4	4	4	0	0	0	197	2	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
12	192	7	2	2	0	0	0	0	0	197	2	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
19	182	17	17	17	4	4	2	2	1	197	2	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
26	182	17	9	7	7	4	4	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
MAY	3	65	34	31	21	19	14	12	7	195	4	4	2	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
10	148	51	34	26	12	12	12	4	7	87	12	12	12	9	9	4	2	1	97	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0							
17	143	56	39	34	24	24	19	14	7	82	17	12	9	7	7	7	4	1	95	4	4	2	2	2	2	1	97	2	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0						
24	151	48	36	36	26	19	14	7	80	19	19	17	12	9	9	4	92	7	7	7	7	4	4	2	2	1	95	4	4	2	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0						
31	131	68	58	48	34	26	17	14	70	29	19	14	12	7	4	90	9	9	7	7	2	0	0	0	195	4	2	2	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0								
JUN	7	136	63	63	58	56	48	31	46	53	51	43	31	26	17	12	73	26	21	17	14	7	4	90	9	7	7	7	2	2	2	2	1	95	4	2	0	0	0	0	0	1100	0	0	0	0	0	0	0							
14	124	75	60	63	43	29	24	17	34	65	53	41	31	29	24	14	63	36	24	17	17	12	7	80	19	12	7	7	7	7	4	195	4	4	4	4	1100	0	0	0	0	0	0	0	0	0	0	0	0							
21	129	70	68	63	53	39	24	14	43	56	53	46	41	31	24	12	53	46	41	39	31	26	19	12	73	26	24	21	14	9	4	6	85	14	14	12	7	4	195	4	2	0	0	0	0	0										
28	121	78	68	60	51	39	24	17	36	63	46	43	36	21	14	12	53	46	41	39	31	26	17	12	73	26	24	21	14	9	4	6	85	14	14	12	7	4	195	4	2	0	0	0	0	0										
JUL	5	139	60	58	46	41	29	26	19	53	46	46	41	39	26	19	48	51	46	41	39	31	21	14	60	39	39	39	36	31	21	14	68	31	21	17	14	9	0	0	195	4	0	0	0	0	0	0								
12	126	73	60	60	56	48	34	21	41	58	46	43	41	36	24	17	51	48	39	36	31	21	14	60	39	36	36	31	21	14	12	73	26	26	26	19	14	12	74	21	19	17	12	7	4	4										
19	117	82	63	58	53	48	36	24	39	60	58	53	51	41	29	19	48	51	46	41	39	31	21	14	60	39	39	36	31	21	14	68	31	21	17	14	9	0	0	195	4	4	4	0	0	0	0									
26	129	70	65	60	56	43	31	21	43	56	48	46	41	29	21	17	51	48	39	36	31	24	19	17	60	36	36	36	31	21	14	12	73	26	26	26	19	14	12	74	21	19	17	12	7	4	4									
AUG	2	124	75	60	56	46	34	24	39	60	58	56	41	31	21	14	51	48	46	43	36	29	19	12	58	41	39	36	26	21	17	12	73	26	26	26	19	14	12	74	21	19	17	12	7	4	4									
9	117	82	73	60	51	24	19	7	36	63	53	48	43	24	19	7	43	56	51	43	36	21	19	7	51	48	41	39	34	21	17	7	58	41	36	34	31	19	17	7	65	31	29	26	17	17	7	7								
16	124	75	70	56	43	34	26	14	48	51	48	41	36	26	19	9	53	46	43	34	26	21	17	7	58	41	41	34	26	21	14	4	65	34	31	29	19	14	9	2	74	21	19	17	12	7	4	0								
23	117	82	80	65	58	56	41	24	34	65	63	53	51	46	26	14	39	60	58	48	46	41	21	12	48	51	46	36	34	29	17	9	53	46	41	36	34	29	17	9	68	31	26	24	19	14	9	7								
30	190	78	73	56	48	31	19	26	73	60	53	39	31	21	17	31	68	58	51	36	31	21	14	36	63	53	46	43	39	31	19	12	46	53	43	41	29	24	14	9	60	39	31	26	24	14	7	4								
SEP	6	126	73	63	53	48	41	26	21	41	58	51	48	43	34	21	46	53	46	46	41	31	19	17	46	53	46	43	39	31	19	12	46	53	46	43	39	31	19	12	56	43	41	39	34	29	17	12	60	39	34	31	24	17	7	7
13	126	73	65	56	46	36	21	19	43	56	48	46	39	31	19	17	46	53	46	46	41	36	26	14	46	51	46	43	41	36	26	14	46	51	46	43	41	36	26	14	51	48	43	41	36	21	12	60	39	34	31	24	17	7	7	
20	117	82	70	65	56	46	36	19	36	63	53	48	46	39	29	17	46	53	41	34	31	24	19	17	46	51	46	43	41	31	24	19	17	46	51	46	43	41	31	24	19	51	48	41	36	26	19	12	60	39	34	31	24	17	7	7
27	126	73	58	46	36	24	19	17	51	48	48	41	36	26	19	17	46	53	46	43	34	24	19	17	46	51	46	43	41	31	24	19	17	46	51	46	43	41	31	24	19	51	48	41	36	26	19	12	60	39	34	31	24	17	7	7
OCT	4	151	48	43	39	31	29	21	19	56	43	39	36	31	29	21	19	60	39	36	31	26	24	17	46	51	46	43	41	31	24	19	17	46	51	46	43	41	31	24	19	51	48	41	36	26	19	12	60	39	34	31	24	17	7	7
11	143	56	46	39	26	24	19	9	56	43	41	36	24	21	17	9	60	39																																						

Table 38. Probability of occurrence of drouth days based on 23 years of record, 1948 through 1970, for Nashville

1-WEEK PERIOD BEGINNING:		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.														
		DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK											
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7										
MAR	1	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	8	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	15	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	22	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	29	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
APR	5	91	8	8	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	12	91	8	8	4	4	4	4	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	19	79	20	12	4	4	4	4	4	91	8	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	26	87	12	8	4	4	4	4	4	95	4	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
MAY	3	58	41	33	24	20	12	12	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	10	58	41	37	33	16	12	8	4	91	8	8	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	17	54	45	45	41	33	20	16	4	79	20	24	12	12	4	4	4	95	4	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	24	45	54	37	33	29	20	12	12	75	24	12	12	12	12	12	12	87	12	8	8	4	4	4	4	95	4	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	31	33	66	58	54	37	37	20	4	70	29	24	24	12	12	4	4	87	12	8	8	8	8	4	4	91	8	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
JUN	7	25	74	62	62	49	45	29	12	54	45	37	33	29	24	12	8	83	16	12	12	8	8	4	4	95	4	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	14	20	79	58	45	41	37	37	33	33	66	49	41	33	33	25	6	63	33	29	24	20	12	12	12	87	12	8	8	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0			
	21	29	70	66	49	37	29	20	16	41	58	58	41	33	29	20	16	58	41	37	24	20	12	12	12	75	24	24	16	12	8	8	8	8	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0		
	28	25	74	74	70	54	33	25	12	37	62	62	49	33	16	16	8	54	45	45	33	24	16	16	8	70	29	29	20	12	12	4	4	79	20	16	12	8	8	4	4	91	8	4	4	4	0	0	0		
JUL	5	20	79	66	62	58	45	33	29	29	70	54	54	41	37	25	25	41	58	49	45	41	33	20	20	62	37	33	33	29	16	12	6	66	33	24	24	24	20	8	4	91	8	8	8	8	4	4			
	12	16	83	79	62	45	33	16	8	29	70	54	54	45	33	16	8	37	62	58	45	41	33	24	20	4	58	41	37	24	20	16	4	66	33	29	24	16	16	16	4	83	16	12	12	12	8	4			
	19	20	79	62	58	45	33	16	8	29	70	54	54	45	33	16	8	37	62	45	45	37	29	12	8	50	49	41	33	29	12	8	66	33	29	29	29	20	12	8	75	24	16	12	12	8	4				
	26	20	79	70	62	45	37	29	20	41	58	54	49	45	37	29	20	45	54	49	45	41	37	29	20	50	49	45	41	37	29	24	16	62	37	37	29	24	24	12	4	70	29	29	16	12	12	4			
AUG	2	8	91	83	62	62	58	45	20	29	70	70	54	49	41	29	12	37	62	62	33	33	29	20	12	50	49	45	33	29	20	12	50	49	45	33	29	24	12	4	66	33	24	20	8	4	4				
	9	12	87	79	74	49	29	12	4	20	79	70	58	45	33	29	16	20	79	70	66	49	33	29	16	20	79	70	66	49	33	24	16	37	62	54	49	37	33	29	20	16	66	33	33	24	16	12	12		
	16	16	83	83	66	58	49	33	29	29	70	70	58	45	33	29	16	33	66	66	54	49	49	45	33	25	33	66	62	49	45	37	29	20	45	54	49	37	33	29	20	16	1100	0	0	0	0	0	0		
	23	8	91	91	83	62	41	33	16	16	83	79	70	54	33	29	16	20	79	70	66	49	33	29	16	20	79	70	66	49	33	24	16	37	62	54	49	37	33	29	20	16	1100	0	0	0	0	0	0		
	30	25	74	74	66	62	62	58	41	33	66	66	58	54	54	50	37	33	66	66	54	49	49	45	33	27	62	62	49	49	45	33	41	58	58	45	49	45	37	29	54	45	45	33	29	20	16				
SEP	6	29	70	66	58	49	45	41	37	37	62	62	54	49	41	37	37	41	58	58	49	45	37	33	33	45	54	54	49	45	37	33	33	45	54	54	49	45	37	33	33	24	20	20	12	8	4				
	13	29	70	66	58	49	45	41	37	41	58	54	54	45	33	24	16	45	54	45	49	41	29	24	16	54	45	45	41	29	24	16	54	45	45	41	29	24	16	62	37	37	33	24	20	12					
	20	29	70	58	54	49	45	41	29	41	58	49	45	41	33	24	16	45	54	45	37	37	29	24	16	54	45	45	33	24	20	16	50	49	41	33	33	24	20	16	50	49	37	29	16	12	8				
	27	29	70	58	54	49	41	29	20	45	54	45	33	33	20	12	8	58	41	37	29	29	12	8	58	41	37	29	29	12	8	58	41	37	29	29	12	8	58	41	37	29	29	12	8	58	41	37	29	12	8
OCT	4	50	49	45	33	29	16	16	8	62	37	33	20	20	16	8	4	70	29	24	16	16	8	8	4	70	29	24	16	16	8	8	4	75	24	20	12	12	8	4	75	24	20	12	12	8	4				
	11	45	54	49	41	33	33	20	16	54	45	41	33	33	29	16	16	58	41	37	29	20	16	16	16	66	33	29	20	12	12	8	8	66	33	33	29	20	20	20	12	66	33	33	29	20	20	12			
	18	45	54	49	37	24	16	16	16	54	45	41	33	20	16	16	16	62	37	33	29	20	16	4	4	62	37	33	29	20																					

Table 39. Probability of occurrence of drouth days based on 35 years of record, 1936 through 1970, for Neptune

1-WEEK PERIOD BEGINNING		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.										
		DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK							
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7						
MAR	1	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1103	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	
	8	1103	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	
	15	1103	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	
	22	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
	29	197	2	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
APR	5	197	2	2	2	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	197	2	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	88	11	8	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
	26	83	16	16	11	8	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
MAY	3	61	38	33	22	19	16	5	2	194	5	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	55	44	36	22	19	16	13	5	88	11	8	5	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	66	33	30	22	16	8	5	5	86	13	13	11	5	5	2	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24	44	55	44	33	27	16	11	11	86	13	13	11	8	8	8	88	11	8	8	5	2	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
	31	41	58	55	44	37	30	24	5	72	27	19	13	11	11	2	88	11	11	11	8	5	0	0	94	5	5	2	2	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0	
JUN	7	27	72	55	44	33	25	15	54	38	36	33	27	19	13	8	80	19	16	13	11	8	2	2	91	8	5	2	2	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0	
	14	30	69	63	55	38	22	16	11	58	41	30	27	19	13	8	66	33	22	16	13	11	8	8	86	13	11	8	8	5	5	2	0	197	2	2	0	0	1100	0	0	0	0	0	0	0	0
	21	27	72	61	58	52	52	33	25	41	58	47	44	38	38	24	16	61	38	36	33	27	16	8	75	24	22	16	13	8	5	1	88	11	11	8	5	2	2	1100	0	0	0	0	0	0	0
	28	16	83	69	63	44	44	19	8	41	58	52	47	33	33	16	8	55	44	38	30	22	22	11	5	75	24	22	19	13	8	5	1	88	11	11	11	11	8	5	197	2	2	2	2	0	
JUL	5	25	74	66	49	44	30	22	8	52	47	38	30	27	24	16	5	66	33	24	22	16	16	11	5	83	16	13	13	13	8	5	1	88	11	11	11	11	8	5	197	2	2	2	2	0	
	12	13	86	80	66	63	38	24	16	30	69	55	47	41	27	24	16	44	55	38	38	27	19	19	11	63	36	30	27	22	16	13	5	80	19	13	11	8	2	2	88	11	5	2	2	2	
	19	19	80	69	63	52	44	33	22	22	77	58	47	36	33	24	16	47	52	41	36	27	22	19	13	61	38	30	30	22	16	16	11	75	24	22	19	13	11	11	88	11	8	5	2	2	
	26	25	74	61	49	41	33	24	19	38	61	49	38	33	27	24	16	47	52	47	33	27	22	19	13	61	38	36	33	27	19	16	13	66	33	33	27	22	13	11	8	88	11	11	11	8	8
AUG	2	22	77	74	58	44	36	27	16	33	66	63	47	38	27	22	13	36	63	58	41	30	24	22	13	52	47	41	33	22	22	19	11	63	36	33	27	19	13	11	5	86	13	11	11	8	8
	9	19	80	72	63	58	47	36	19	36	63	63	55	49	41	27	16	41	58	58	52	47	38	27	16	47	52	49	41	38	33	27	16	61	38	36	36	27	24	22	13	80	19	16	13	13	13
	16	33	66	61	55	38	27	19	41	58	47	38	27	24	22	16	47	52	41	36	27	24	22	16	50	49	38	33	24	22	19	13	55	44	30	24	19	16	16	11	75	24	15	16	11	8	
	23	14	80	72	69	66	58	44	25	33	66	58	55	49	44	36	22	47	52	47	44	41	36	22	47	52	47	44	38	33	22	16	50	49	44	38	36	27	19	69	30	27	24	22	19		
	30	19	80	74	72	61	47	36	25	33	66	61	55	47	38	27	22	47	52	49	44	36	30	22	16	47	52	47	41	36	30	22	16	50	49	44	38	33	30	19	63	36	33	24	19	16	
SEP	6	25	74	72	55	41	38	33	30	33	66	66	49	33	27	25	25	47	52	52	38	30	27	25	25	47	52	52	38	30	27	25	25	50	49	49	36	27	24	22	22	61	36	36	24	22	19
	13	27	72	58	55	49	44	30	22	38	61	52	47	38	33	25	44	55	47	44	38	33	25	25	50	49	44	41	36	36	27	25	52	47	41	36	33	30	27	25	63	36	33	30	27	22	
	20	27	72	58	52	49	38	30	22	44	55	47	44	36	30	19	52	47	38	36	33	30	24	19	55	44	33	33	30	27	22	16	58	41	33	33	30	27	22	16	63	36	27	24	19	16	
	27	22	77	63	58	49	41	36	27	41	58	47	44	30	24	22	13	52	47	36	33	24	22	22	13	55	44	33	33	24	22	22	13	58	41	30	30	22	19	19	11	66	33	24	16	16	16
OCT	4	50	49	44	30	27	22	16	61	38	38	33	16	16	11	8	75	24	24	19	8	5	5	5	77	22	22	16	5	5	5	1	80	19	19	16	5	5	5	88	11	11	8	8	8		
	11	58	41	41	33	27	27	19	25	66	33	33	27	24	24	22	75	24	24	16	16	13	13	11	83	16	16	16	11	8	8	8	86	13	13	8	8	8	8	88	11	11	8	8	8		
	18	50	49	44	33	24	19	19	11	67	38	36	27	24	13	11	72	27	24	19	16	11	11	8	77	22	19	16	13	11	11	5	77	22	19	16	13	8	8	5	80	19	16	13	8	5	
	25	52	47	38	30	27	24	16	8	72	27	24	19	16	16	11	5	72	27	24	16	13	13	8	2	77	22	19	13	13	8	8	2	77	22	19	13	13									

Table 40. Probability of occurrence of drouth days based on 22 years of record, 1949 through 1970, for Newbern

1-WEEK PERIOD BEGIN- NING	1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.						
	DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK					DROUTH		DAYS PER WEEK				
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7		
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	29	95	4	4	4	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
APR	5	82	17	17	17	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	12	82	17	17	13	13	8	8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	19	69	30	26	13	8	8	4	91	8	8	8	8	8	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	26	73	26	17	13	13	13	8	4	95	4	4	4	4	4	4	95	4	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
MAY	3	47	52	52	34	26	17	8	82	17	13	13	8	4	4	4	95	4	4	4	4	4	4	4	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	10	56	43	39	30	26	26	17	69	30	26	17	13	8	8	8	91	8	4	4	4	4	4	4	95	4	4	4	4	4	4	100	0	0	0	0	0	0	0	0	0	
	17	47	52	47	34	34	26	17	13	73	26	17	17	17	17	13	86	13	13	8	8	8	8	95	4	4	4	4	4	4	4	95	4	4	4	4	4	4	4	4	4	
	24	26	73	56	52	47	30	21	21	69	30	17	17	17	13	8	82	17	8	8	8	8	8	91	8	4	4	4	4	4	4	95	4	4	4	4	4	4	4	4	4	
	31	34	65	60	56	47	3																																			

Table 41. Probability of occurrence of drouth days based on 44 years of record, 1927 through 1970, for Newport

[illegible]

Table 43. Probability of occurrence of drouth days based on 44 years of record, 1927 through 1970, for Palmetto

1-WEEK PERIOD BEGIN- NING	1 INCH A.W.H.C.								2 INCH A.W.H.C.								3 INCH A.W.H.C.								4 INCH A.W.H.C.								5 INCH A.W.H.C.								7 INCH A.W.H.C.														
	DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK				DROUTH				DAYS PER WEEK										
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7							
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
15	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
22	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
29	95	4	4	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
APR	5	95	4	4	4	4	0	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
12	86	13	13	4	2	2	2	2	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
19	77	22	11	8	6	4	4	4	95	4	2	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
26	86	13	11	11	6	6	6	4	97	2	2	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
MAY	3	64	35	31	24	22	13	11	2	95	4	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
10	55	44	39	28	17	13	4	4	91	8	8	6	6	6	6	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
17	44	55	39	35	31	17	15	11	84	15	15	13	11	8	6	2	93	6	4	4	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
24	53	46	35	24	17	15	15	11	84	15	11	8	6	6	6	2	93	6	6	6	6	6	6	2	95	4	4	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0		
31	44	55	44	35	31	24	22	13	73	26	19	17	13	11	8	6	95	4	4	4	2	2	2	2	97	2	2	2	2	2	2	2	97	2	2	2	2	97	2	2	2	2	97	2	2	2	2	2	2	2					
JUN	7	39	59	55	46	33	28	26	15	57	42	39	31	19	17	13	6	73	26	24	17	6	4	2	2	93	6	6	4	2	2	2	2	97	2	2	2	2	97	2	2	2	2	97	2	2	2	2	2	2	2				
14	39	59	55	42	37	28	17	11	59	39	35	31	22	13	8	6	73	26	24	22	13	8	6	88	11	11	11	11	6	4	2	91	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6					
21	37	62	48	42	26	15	13	4	59	39	33	28	17	17	11	11	66	33	28	19	15	15	8	8	75	24	19	13	11	8	4	2	93	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
28	35	64	55	48	37	26	11	4	51	46	42	33	24	11	2	0	64	35	26	22	17	6	2	0	75	24	19	17	15	4	2	0	84	15	11	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
JUL	5	42	57	53	39	26	19	17	11	64	35	33	26	19	15	11	4	77	22	19	17	13	11	8	6	2	82	17	13	11	8	6	4	2	88	11	11	8	8	6	4	2	97	2	2	2	2	2	2	2	2	2	2	2	2
12	44	55	51	46	39	27	17	8	59	39	33	28	19	15	11	8	6	75	24	22	22	15	8	6	2	79	19	13	13	13	11	8	6	88	11	8	8	8	6	4	2	97	2	2	2	2	2	2	2	2	2	2	2	2	
19	22	77	59	46	39	27	28	19	55	39	33	31	28	19	11	8	73	26	22	22	15	8	6	2	79	19	13	13	13	11	8	6	88	11	8	8	8	6	4	2	97	2	2	2	2	2	2	2	2	2	2	2	2		
26	28	71	62	57	42	37	31	19	55	44	35	33	26	24	13	6	59	39	33	28	19	15	4	2	75	24	19	15	8	4	2	66	13	13	8	8	6	4	2	91	8	6	6	6	6	6	6	6	6	6	6	6	6		
AUG	2	22	77	75	68	51	46	22	15	44	53	48	46	42	35	13	11	57	42	37	31	26	26	11	11	64	35	31	28	26	24	11	11	77	22	17	15	13	13	11	6	93	6	4	4	4	4	4	4	4	4	4	4	4	
9	22	77	73	62	48	35	28	11	44	55	53	48	46	42	35	13	11	57	42	37	31	26	26	11	11	64	35	31	28	26	24	11	11	77	22	17	15	13	13	11	6	93	6	4	4	4	4	4	4	4	4	4	4	4	
16	28	71	66	57	57	36	19	15	44	55	51	48	42	31	26	11	51	48	46	42	35	26	22	8	59	39	37	33	26	17	15	4	64	35	38	26	19	11	11	2	88	11	8	8	8	6	4	4	4	4	4	4	4		
23	22	77	77	73	57	53	33	24	31	68	64	59	48	42	34	17	51	48	46	42	35	28	22	13	59	39	37	33	26	17	15	4	64	35	35	26	19	11	11	6	93	6	4	4	4	4	4	4	4	4	4	4	4		
30	15	84	75	66	55	51	37	26	31	68	64	59	51	44	35	24	35	64	59	57	46	39	24	15	42	57	53	51	39	33	22	15	48	51	46	42	28	22	11	6	75	24	24	22	15	11	6	4	4	4	4	4	4		
SEP	6	28	71	62	57	48	42	28	19	42	57	51	46	39	35	24	17	51	48	46	42	35	28	22	13	39	59	55	51	42	39	31	22	46	53	51	48	42	39	31	19	68	31	28	28	22	22	17	11	6	4	4	4	4	
13	28	71	68	62	57	51	44	26	42	57	55	51	48	42	33	22	51	48	46	39	35	28	22	13	57	42	42	37	33	28	19	11	57	42	39	35	31	26	19	11	71	26	26	24	19	11	6	4	4	4	4	4	4		
20	26	73	73	59	51	48	39	31	42	57	57	51	42	39	31	26	51	48	46	39	39	35	28	22	51	59	57	53	42	36	24	19	17	64	35	35	31	28	22	17	8	71	26	26	22	22	15								

Table 44. Probability of occurrence of drouth days based on 33 years of record, 1938 through 1970, for Paris

1-WEEK PERIOD BEGIN- NING:	1 INCH A.W.H.C.								2 INCH A.W.H.C.								3 INCH A.W.H.C.								4 INCH A.W.H.C.								5 INCH A.W.H.C.								7 INCH A.W.H.C.										
	DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK								DROUTH DAYS PER WEEK										
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7			
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	29	97	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
APR	5	91	8	5	5	5	5	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	12	94	5	5	5	5	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	19	91	8	5	5	5	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	26	88	11	8	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
MAY	3	64	35	26	23	14	11	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	10	61	38	29	23	10	14	11	8	91	8	5	5	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	17	67	32	29	23	14	11	8	5	82	17	14	11	8	8	5	2	97	2	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	
	24	61	38	25	23	11	11	11	1	79	20	17	17	11	8	8	5	91	8	5	5	2	2	2	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	31	29	70	52	49	41	32	23	17	70	49	23	20	14	11	8	82	17	11	5	5	5	5	94	5	2	2	2	2	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0		
JUN	7	32	67	58	49	41	38	32	23	44	55	44	29	17	14	11	79	20	20	8	5	5	5	5	91	8	5	5	2	2	2	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	14	44	55	47	44	29	17	14	8	55	44	32	32	26	17	14	8	73	26	17	17	14	5	2	0	91	8	5	2	2	2	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	21	35	64	61	55	44	35	26	14	50	49	41	41	32	29	20	17	55	44	32	29	23	20	17	11	85	14	11	11	8	5	5	94	5	2	2	2	100	0	0	0	0	0	0	0	0	0	0	0		
	28	23	76	64	55	52	49	32	14	38	61	52	47	35	35	20	14	52	47	41	35	35	32	17	11	64	35	29	23	23	11	8	85	14	11	8	5	5	97	2	2	2	2	2	2	2	2	2	2		
JUL	5	26	73	61	44	38	26	20	14	44	55	44	35	32	23	17	11	52	47	38	26	20	11	8	8	64	35	29	23	23	14	2	73	26	20	20	20	11	0	91	8	5	5	2	2	2	2	2	2		
	12	32	67	64	52	44	41	23	8	47	52	47	44	38	35	23	8	52	47	44	38	32	26	17	2	64	35	32	23	23	14	2	73	26	20	20	20	11	0	91	8	5	5	2	2	2	2	2	2		
	19	17	82	73	64	52	41	23	8	32	67	61	55	49	41	32	17	44	55	52	49	47	41	32	14	55	44	44	41	38	32	26	14	61	38	32	26	23	20	14	85	14	11	11	11	8	6	8			
	26	17	82	73	64	55	47	38	20	26	73	70	64	55	49	32	20	35	64	61	55	44	41	26	14	44	55	52	49	41	38	32	26	14	58	41	38	35	29	26	17	14	76	25	20	17	11	8	2		
AUG	2	11	88	76	64	55	47	44	38	32	67	61	55	49	44	41	32	35	64	58	55	49	41	35	26	38	61	52	49	44	35	32	20	50	49	44	38	29	26	20	14	76	25	20	17	11	8	5			
	9	23	76	73	70	64	52	44	32	26	73	67	61	55	44	41	26	32	67	64	55	49	41	38	26	38	61	58	52	47	35	35	26	44	55	49	41	35	35	26	67	32	29	29	25	20	17	17			
	16	26	73	64	61	49	32	29	20	38	61	55	49	41	29	29	20	38	61	52	49	41	29	29	20	38	61	52	49	38	26	26	20	47	55	47	44	39	26	26	14	55	44	38	36	32	20	17			
	23	14	85	79	70	58	47	32	17	38	61	52	52	44	35	26	17	41	58	49	49	41	35	26	17	41	58	49	44	41	35	26	17	47	52	45	44	41	35	26	17	50	49	49	38	36	29	17			
	30	17	82	76	61	58	58	47	29	32	67	64	52	52	41	20	1	38	61	58	46	44	38	26	17	1	58	55	44	44	44	35	20	41	52	55	44	44	41	32	20	50	49	49	38	36	29	17			
SEP	6	26	73	58	49	41	32	26	26	38	61	49	47	38	26	20	17	44	55	44	38	29	20	17	17	50	38	35	29	20	17	17	50	49	38	35	29	20	17	14	55	44	35	29	26	17	14	14			
	13	29	70	61	55	49	44	29	20	47	52	47	44	38	26	20	8	52	47	52	47	44	38	23	14	52	47	47	41	38	32	20	14	52	47	47	41	38	32	20	14	58	41	41	35	32	26	20	11		
	20	32	67	64	58	52	44	32	20	41	58	55	41	32	26	20	8	50	49	47	38	32	26	20	8	50	49	47	35	29	23	17	8	52	47	44	35	29	23	17	8	55	44	41	29	23	17	14	5		
	27	35	64	52	47	44	36	32	17	44	55	44	41	35	29	14	1	55	44	41	38	32	26	11	55	44	41	38	32	26	11	55	44	41	38	32	26	11	58	41	38	35	35	32	26	11	5	5			
OCT	4	50	49	47	41	38	29	23	17	61	38	35	29	29	17	14	14	64	35	32	26	26	14	11	11	67	32	29	23	23	14	8	67	32	29	23	23	14	8	70	29	26	20	17	11	8	6				
	11	55	44	44	32	29	26	23	17	64	35	32	29	26	23	20	14	67	32	29	26	23	20	17	14	70	29	26	23	23	14	17	73	26	20	20	20	11	0	91	8	5	5	2	2	2	2	2	2		
	18	52	47	47	44	38	32	14	1	67	32	29	26	23	20	8	73	26	26	23	23	20	17	8	73	26	26	23	23	20	17	8	76	23	23	23	23	20	17	8	76	23	23	23	17	14	5				
	25	61	38	35	26																																														

Table 45. Probability of occurrence of drouth days based on 44 years of record, 1927 through 1970, for Rogersville

1-WEEK PERIOD BEGIN- NING:		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.															
		DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH															
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7			
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	8	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	15	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0
	22	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	29	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
APR	5	97	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	12	91	8	4	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	19	84	15	13	11	6	4	4	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	26	77	22	15	8	6	6	2	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
MAY	3	66	33	24	15	13	11	6	95	4	2	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	10	55	44	35	23	22	15	8	88	11	8	8	8	4	8	4	2	97	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	17	59	39	37	33	28	22	15	13	79	19	13	13	13	8	6	2	93	6	4	2	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	24	55	44	28	22	17	13	8	4	75	24	22	19	15	11	8	4	4	91	8	8	8	4	4	2	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
	31	37	62	53	46	39	19	15	11	71	28	24	22	19	4	4	4	86	13	11	11	8	6	4	0	95	4	2	2	2	2	2	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
JUN	7	31	68	55	46	39	31	24	13	59	39	35	26	22	17	11	2	79	19	13	6	6	4	0	91	8	8	4	4	4	0	0	97	2	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
	14	37	62	57	44	31	22	11	11	53	46	37	28	19	15	6	6	71	28	24	19	15	8	4	2	88	11	8	6	6	6	2	2	95	4	2	2	2	2	2	2	100	0	0	0	0	0	0	0	0	0	0
	21	42	57	46	44	35	22	15	13	57	42	35	31	24	19	15	13	68	31	26	22	15	13	11	11	82	17	13	13	11	6	4	4	93	6	6	6	6	6	6	6	2	100	0	0	0	0	0	0	0	0	0
	28	28	71	57	44	39	35	26	11	53	46	37	33	22	19	17	8	62	37	26	24	19	17	13	8	77	22	17	15	11	8	8	8	84	15	11	11	8	8	8	8	6	6	6	6	6	6					
JUL	5	35	64	46	39	28	26	19	8	51	48	35	33	24	22	17	6	68	31	28	26	17	15	13	6	79	19	17	15	13	13	11	6	86	13	11	11	8	8	8	8	6	6	6	6	6	6					
	12	42	57	44	28	25	22	13	8	62	37	33	19	17	15	8	4	71	28	26	17	15	15	8	4	77	22	19	13	13	13	6	2	84	15	15	11	11	8	4	4	2	95	4	4	4	4	4	4			
	19	37	62	53	42	31	17	8	4	59	39	33	28	22	13	6	4	68	31	26	24	19	8	4	2	75	24	17	15	11	4	4	4	84	15	13	11	8	4	4	2	95	4	4	4	4	4	4				
	26	31	68	57	46	39	31	17	13	57	42	35	28	26	22	13	8	71	28	24	22	17	13	8	75	24	22	22	17	11	4	4	84	15	13	13	11	6	6	2	91	8	6	6	6	6	6					
AUG	2	26	73	62	46	37	33	19	13	53	46	44	37	33	24	17	13	59	39	37	31	24	19	15	8	68	31	28	22	17	15	13	8	75	24	19	15	13	13	11	6	88	11	11	8	8	8	8				
	9	22	77	66	55	51	37	31	13	53	46	44	37	33	22	19	13	62	37	35	31	28	19	17	8	68	31	31	26	24	17	15	8	75	24	19	15	13	13	8	4	66	13	13	11	11	8	2	2			
	16	35	64	56	48	33	22	13	6	48	51	42	37	33	22	19	6	64	35	28	26	17	11	4	2	71	28	22	17	13	8	4	2	75	24	19	15	11	6	2	2	93	6	6	6	6	6	6				
	23	28	71	57	48	34	28	24	15	46	53	42	37	33	22	19	11	62	37	31	31	28	15	13	11	64	35	28	26	24	13	8	4	73	26	22	22	17	13	13	8	86	13	8	6	6	6	2				
SEP	6	26	73	66	59	44	37	26	15	44	55	46	42	33	31	22	8	62	37	28	22	15	6	73	26	22	22	17	13	13	11	73	26	24	22	17	13	8	4	86	13	13	11	11	8	4	2					
	13	17	82	71	62	57	48	33	26	31	68	57	51	46	37	26	22	46	53	46	42	39	33	22	15	64	35	28	26	22	13	8	8	66	33	31	26	22	17	13	13	86	13	13	11	11	8	8				
	20	31	68	59	55	48	42	28	19	42	57	51	46	44	35	19	13	51	48	42	35	28	17	11	64	35	28	26	22	13	8	8	66	33	31	26	22	17	13	13	86	13	13	11	11	8	8					
	27	31	68	64	53	42	35	26	13	39	59	55	46	37	33	19	11	46	53	48	39	31	22	13	8	57	42	39	35	26	19	13	8	66	33	31	26	22	17	13	13	86	13	13	11	11	8	8				
OCT	4	46	53	48	39	32	26	17	15	55	44	42	35	31	24	15	13	55	44	42	35	28	22	15	13	66	33	31	28	19	15	15	13	82	17	15	13	13	13	11	79	19	17	15	13	11	4					
	11	51	48	46	46	39	37	28	17	66	53	31	31	28	24	15	66	31	31	31	28	24	15	13	73	26	26	24	24	22	17	11	8	82	17	15	13	13	13	11	79	19	17	15	13	11	4					

Table 46. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Samburg

1-WEEK PERIOD BEGIN- NING		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.																				
		DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK																	
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7								
MAR	1	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	8	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	15	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	22	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	29	97	2	2	2	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
APR	5	90	9	6	6	6	6	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	12	93	6	6	4	2	2	2	0	97	2	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	19	90	9	6	4	2	2	0	0	97	2	2	2	2	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	26	88	11	9	6	4	4	2	0	97	2	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
MAY	3	68	31	31	22	15	4	4	2	95	4	4	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	10	65	34	22	13	9	9	9	9	86	13	9	6	4	2	2	1	95	4	4	2	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	17	68	31	27	13	11	11	4	4	90	9	6	6	6	6	2	2	95	4	4	4	4	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	24	59	40	31	22	13	11	9	6	86	13	11	9	6	6	4	1	93	6	4	4	4	2	2	0	95	4	4	4	2	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	31	54	45	33	27	24	13	11	79	20	20	11	9	6	4	86	13	11	11	4	2	2	2	0	95	4	4	4	2	2	2	0	97	2	2	2	2	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0				
JUN	7	52	47	45	40	34	31	27	18	63	36	24	22	20	15	13	11	79	20	13	11	6	4	4	93	6	6	6	4	2	2	0	95	4	4	4	2	2	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0				
	14	56	43	40	36	31	29	20	9	63	36	36	31	27	27	20	9	75	24	20	15	13	11	4	93	6	6	6	4	2	2	0	95	4	4	4	2	2	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0				
	21	43	56	52	45	34	27	20	9	56	43	38	36	27	22	15	6	65	34	29	27	18	11	4	79	20	18	13	9	9	4	2	2	95	4	4	4	2	2	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0			
	28	47	52	49	45	40	38	27	18	54	45	38	29	29	24	20	13	65	34	31	27	27	22	18	13	75	24	22	20	18	13	11	68	31	24	22	22	13	13	11	72	27	20	15	9	9	6	1	93	6	6	4	4	2	0		
JUL	5	43	54	47	43	36	29	22	13	54	45	36	36	31	24	18	11	61	38	31	31	27	20	13	11	65	34	24	24	22	15	11	9	75	24	18	18	11	9	6	86	13	13	11	11	4	2	2	0	0	0	0					
	12	45	54	47	43	36	29	22	13	54	45	36	36	31	24	18	11	61	38	31	31	27	20	13	11	65	34	24	24	22	15	11	9	75	24	18	18	11	9	6	86	13	13	11	11	4	2	2	0	0	0	0					
	19	47	52	49	45	40	31	27	15	54	45	43	38	34	24	20	13	56	43	38	34	29	22	18	11	63	36	34	31	24	18	13	9	72	27	24	20	15	11	6	86	13	13	13	13	13	9	6	1	93	6	6	4	4	2	0	
	26	38	61	59	52	40	38	27	22	47	52	49	45	40	38	24	18	50	49	49	45	38	34	22	15	56	43	43	40	34	31	20	13	61	38	38	31	24	15	9	81	18	15	13	13	6	4	2	0	0	0	0					
AUG	2	38	61	59	49	47	36	27	11	45	54	49	43	36	34	24	18	47	52	49	40	36	34	24	18	52	47	47	38	36	31	24	11	56	43	43	34	29	24	11	77	22	20	18	15	11	6	2	0	0	0	0	0				
	9	40	59	52	49	36	28	20	12	47	52	47	43	36	34	24	18	42	47	45	43	34	24	22	18	54	45	43	38	36	31	24	12	56	43	38	36	31	24	22	18	70	29	27	22	20	18	13	11	4	2	0	0				
	16	43	56	54	52	40	34	31	22	47	52	49	40	37	24	18	11	52	47	45	43	34	24	22	18	54	45	43	43	34	24	22	16	56	43	38	38	31	24	22	18	72	27	24	22	18	13	11	4	2	0	0					
	23	40	59	54	47	45	36	27	25	50	49	47	38	36	29	24	22	54	45	45	38	36	29	22	20	56	45	43	43	36	34	27	22	20	56	43	43	36	34	27	22	20	61	38	34	29	27	20	16	15							
	30	47	52	52	47	40	34	29	22	54	45	43	38	31	29	24	18	65	34	34	34	29	27	22	18	65	34	34	34	29	27	22	18	68	31	31	31	27	24	20	15	70	29	29	24	24	18	13	11	4	2	0	0				
SEP	6	47	52	45	34	29	15	15	15	56	43	38	31	31	27	13	13	63	36	31	24	24	18	11	11	65	34	31	24	22	18	11	11	65	34	31	24	20	18	11	70	29	27	20	18	15	9	9	6	1	93	6	6	4	4	2	0
	13	45	54	49	45	34	27	20	13	52	47	43	40	29	27	20	13	56	43	40	38	27	24	18	9	59	40	38	36	24	22	15	9	59	40	38	36	24	22	15	9	65	34	31	29	18	15	9	6	1	93	6	6	4	4	2	0
	20	56	43	38	36	27	22	22	15	59	40	34	31	22	18	11	11	61	38	34	31	2																																			

Table 47. Probability of occurrence of drouth days based on 44 years of record, 1927 through 1970, for Savannah

1-WEEK PERIOD BEGINNING	1 INCH A.W.H.C.								2 INCH A.W.H.C.								3 INCH A.W.H.C.								4 INCH A.W.H.C.								5 INCH A.W.H.C.								7 INCH A.W.H.C.											
	DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK									
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7				
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	29	1	95	4	4	4	4	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0			
APR	5	95	4	4	4	4	4	2	0	97	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	12	86	13	8	4	4	4	2	0	95	4	4	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	19	75	24	15	11	8	2	2	0	95	4	4	2	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	26	81	25	11	8	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0			
	3	64	35	31	24	22	17	11	4	93	6	6	6	2	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
MAY	10	59	39	35	33	31	17	15	8	88	11	8	4	4	4	2	1	95	4	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	17	53	46	37	28	24	13	4	7	72	22	19	15	11	6	2	1	95	4	2	2	2	2	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0				
	24	57	42	37	31	24	19	17	8	75	24	19	17	15	13	13	6	91	8	8	6	6	6	4	1	97	2	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0			
	31	44	55	53	46	35	24	13	4	71	28	26	24	22	15	11	8	15	15	13	13	8	4	8	4	2	97	2	2	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
	7	37	62	55	48	42	37	31	17	62	53	31	26	22	15	11	7	19	19	17	11	11	11	8	4	91	8	8	6	4	4	4	2	1	97	2	0	0	0	0	0	0	1100	0	0	0	0	0	0	0		
JUN	14	46	53	48	39	28	22	17	6	64	55	35	31	26	15	11	4	77	22	22	19	15	11	8	8	8	8	11	8	8	6	4	6	4	4	1	93	6	2	2	2	0	0	0	1100	0	0	0	0	0	0	0
	21	28	71	64	59	51	37	31	22	55	44	42	37	35	35	26	22	62	37	35	31	26	26	19	15	71	28	28	24	17	15	8	4	86	13	13	8	8	4	97	2	2	2	2	0	0	0					
	28	28	71	66	62	51	31	17	6	48	51	39	35	22	13	6	2	68	31	28	26	19	13	6	2	75	24	22	22	15	11	6	2	82	17	15	13	8	8	2	0	95	4	2	2	2	0	0				
	5	28	71	62	57	51	39	24	19	44	55	48	42	37	33	22	17	59	39	31	24	17	13	8	8	77	22	19	19	13	11	8	8	77	22	17	15	11	8	6	6	95	4	4	2	2	0	0				
	12	22	77	66	66	64	53	44	31	51	68	64	59	57	46	37	22	48	51	46	46	39	35	32	25	59	39	37	28	28	26	24	13	75	24	24	24	22	22	13	84	15	13	13	8	4	2	2				
JUL	19	24	75	68	66	59	55	37	22	39	59	51	51	46	44	31	14	44	55	46	46	42	37	26	19	53	46	37	35	35	33	22	19	66	33	31	26	24	24	13	11	79	19	17	15	13	13	11				
	26	24	75	66	67	44	42	33	13	33	66	55	48	47	37	31	24	13	44	55	46	46	42	37	19	13	48	51	42	37	24	24	17	11	59	39	33	31	19	17	17	11	77	22	19	17	11	11	8			
	3	13	86	75	71	64	48	44	22	28	71	66	62	51	37	35	17	35	64	62	57	48	37	33	15	44	55	53	46	37	28	28	31	55	44	42	35	28	24	22	8	73	26	24	24	19	15	13				
	9	19	75	71	66	62	44	42	28	31	68	66	65	53	39	33	24	13	35	64	59	48	46	33	31	24	42	57	55	44	39	31	28	22	53	46	44	35	33	24	19	13	68	31	26	19	17	6	4			
	16	15	84	76	65	55	44	42	37	17	28	71	59	48	37	33	31	15	28	71	59	42	33	31	28	11	33	66	53	55	38	26	24	6	42	57	44	28	24	19	15	6	68	31	24	17	11	11	4			
AUG	23	28	71	66	63	55	48	42	33	31	42	57	51	44	42	39	31	28	46	53	51	44	42	39	31	28	46	53	51	44	39	37	28	26	53	46	39	37	35	28	26	68	31	26	24	22	22	19	17			
	30	22	77	66	62	55	39	33	26	35	64	55	48	44	35	26	19	37	62	55	46	42	35	26	19	39	59	55	46	42	35	26	19	42	57	51	44	37	28	22	17	55	44	42	37	35	22	15	13			
	6	35	64	59	51	44	39	24	17	42	57	55	46	46	39	33	17	15	46	53	51	42	35	33	17	15	46	53	51	39	33	31	15	13	51	48	46	39	33	31	15	13	68	33	33	26	19	17	11			
	13	26	73	64	64	57	42	37	28	44	55	48	46	39	31	26	19	15	51	48	46	44	37	28	24	17	53	48	44	42	35	26	24	17	55	46	42	39	33	24	22	15	66	33	31	31	22	15	15			
	20	28	75	66	65	54	42	33	14	44	55	46	45	39	31	26	11	51	46	46	46	39	33	28	24	17	53	48	44	42	35	26	24	17	55	46	42	39	33	28	24	24	66	33	35	31	28	24	15			
SEP	27	17	82	68	57	51	37	26	17	42	57	46	42	37	24	19	15	51	48	42	39	35	22	15	11	55	44	44	37	37	39	15	11	55	44	37	37	39	15	11	59	39	33	31	18	11	13	8				
	4	46	53	42	39	28	28	24	17	64	35	31	31	19	19	17	15	71	28	26	24	17	17	15	73	26	24	24	17	17	17	15	73	26	24	24	17	17	15	77	22	19	19	15	15	13	8					
	11	53	46	44	42	33	26	20	17	64	35	35	31	26	22	19	15	68	31	28	26	19	17	11	71	28	28	28	24	19	17	11	71	28	28	24	19	17	11	73	26	26	24	19	15	13	11					
	18	51	48	42	39	31	24	17	17	59	39	33	26	19	15	13	13	68	33	28	24	17	13	13	13	68	31	26	22	17	13	13	13	68	31	26	22	17	13	13	13	71	28	22	17	13	13	11				
	25	42	57	48	37	26	22	17	13	62	37	31	24	13	13	11	8	68	31	26	26	19	8	6	6	71	28	24	17	8	8	6	6	71	28	24	17	8	8	6	6	71	28	24	17	8	8	6				
OCT	1	71	28	22	17	15	13	8	77	22	15	11	6	4	4	4	86	13	8	6	4	4	2	2	88	11	8	6	4	4	2	2	88	11	8	6	4	4	2	2	88	11	8	6</								

Table 48. Probability of occurrence of drouth days based on 22 years of record, 1949 through 1970, for Selmer

1-WEEK PERIOD BEGIN- NING:		1 INCH A-W-H-C-							2 INCH A-W-H-C-							3 INCH A-W-H-C-							4 INCH A-W-H-C-							5 INCH A-W-H-C-							7 INCH A-W-H-C-																		
		DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK							DROUTH DAYS PER WEEK																		
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7						
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
	29	1	95	4	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
APR	5	82	17	13	13	13	8	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
	12	73	26	26	21	17	17	13	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
	19	65	34	34	21	8	8	4	91	8	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0		
	26	78	21	13	8	4	4	4	95	4	4	4	4	4	4	4	95	4	4	4	4	4	4	4	95	4	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0			
MAY	3	56	43	34	30	26	26	21	13	91	8	4	4	4	4	4	95	4	4	4	4	4	4	4	95	4	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0			
	10	52	47	30	30	26	17	17	17	73	26	13	13	13	4	4	95	4	4	4	4	4	4	4	95	4	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0			
	17	47	52	47	34	34	30	26	17	73	26	21	17	17	13	13	91	8	4	4	4	4	4	4	95	4	4	4	4	4	4	4	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0			
	24	52	47	47	39	34	26	21	17	78	21	21	21	21	17	8	86	13	13	13	13	13	8	4	91	8	8	8	4	4	4	4	95	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
	31	34	65	47	39	34	21	17	13	73	26	26	21	17	4	4	82	17	13	13	13	13	0	4	91	8	8	4	4	4	4	4	95	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
JUN	7	43	56	52	47	30	30	26	8	65	34	34	21	17	17	8	78	21	17	8	4	4	4	4	91	8	8	4	4	4	4	4	95	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
	14	30	67	60	39	30	17	17	17	73	26	26	21	17	17	4	73	26	21	17	17	17	17	13	0	73	26	21	17	17	13	0	91	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	21	17	82	73	52	43	39	26	17	65	34	34	21	17	17	4	82	17	13	13	13	13	0	4	91	8	8	4	4	4	4	4	95	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	28	13	86	69	60	43	34	30	8	39	60	47	43	30	26	17	4	60	39	26	21	17	17	13	0	73	26	21	17	17	13	0	91	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
JUL	5	17	82	69	52	43	30	21	13	39	60	47	30	21	17	17	8	56	43	30	21	8	8	8	8	78	21	21	13	8	8	8	8	82	17	17	17	17	13	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
	12	21	78	78	65	52	43	34	26	26	73	65	52	39	34	26	21	56	43	39	30	30	30	21	21	73	26	26	21	21	8	8	8	82	17	17	17	17	17	17	17	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	19	21	78	73	65	56	39	21	6	39	60	60	56	52	34	21	8	47	52	47	39	30	21	13	4	78	21	21	17	13	8	8	8	73	21	21	17	17	13	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	26	26	73	65	56	52	21	13	13	47	52	47	39	39	13	8	8	52	47	39	34	34	13	8	8	73	26	26	21	17	8	8	8	78	21	21	17	17	17	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
AUG	2	4	95	91	82	60	56	21	17	34	65	65	60	47	39	17	13	39	60	60	56	43	34	13	13	47	52	47	43	30	26	17	43	56	56	43	30	17	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
	9	8	91	81	78	65	56	39	26	17	82	82	73	56	43	30	21	34	65	56	47	47	34	26	17	43	56	56	43	34	17	13	13	47	52	47	34	21	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13		
	16	8	91	82	73	65	56	39	21	17	17	82	73	69	56	34	21	21	78	65	56	43	21	17	17	30	69	56	47	34	17	13	13	47	52	47	34	21	13	13	13	13	13	13	13	13	13	13	13	13	13	13			
	23	13	86	82	73	65	47	43	30	10	69	65	60	47	39	30	30	30	69	65	60	47	39	30	30	30	30	69	65	60	47	34	17	13	13	47	52	47	34	21	13	13	13	13	13	13	13	13	13	13	13	13			
	30	6	91	86	86	73	60	63	30	21	78	78	73	65	52	39	21	30	69	65	60	47	39	30	30	30	30	69	65	60	47	34	17	13	13	47	52	47	34	21	13	13	13	13	13	13	13	13	13	13	13	13			
SEP	6	26	73	69	56	52	47	39	26	26	73	69	56	52	47	39	26	30	69	65	56	52	43	34	21	34	65	60	47	43	39	30	21	43	56	52	43	39	34	30	21	17	17	17	17	17	17	17	17	17	17	17			
	13	26	73	65	60	52	52	39	21	43	56	52	52	39	29	26	13	52	47	43	43	39	26	13	13	52	47	43	39	34	21	13	13	56	43	39	34	21	17	13	13	13	13	13	13	13	13	13	13	13	13	13			
	20	17	82	82	69	60	52	47	26	21	78	73	56	47	39	30	17	30	69	60	43	39	26	21	13	30	69	60	43	39	26	21	13	39	60	56	39	34	21	17	13	13	13	13	13	13	13	13	13	13	13	13			
	27	4	95	65	60	34	30	21	17	26	73	52	47	39	26	17	17	34	65	52	47	30	26	17	17	34	65	52	47	30	26	17	17	34	56	47	43	26	17	17	17	17	17	17	17	17	17	17	17	17	17				
OCT	4	56	43	34	34	21	17	13	13	60	39	30	30																																										

Table 50. Probability of occurrence of drouth days based on 28 years of record, 1942 through 1969, for Springfield

1-WEEK PERIOD BEGIN- NING:		1 INCH A.W.H.C.							2 INCH A.W.H.C.							3 INCH A.W.H.C.							4 INCH A.W.H.C.							5 INCH A.W.H.C.							7 INCH A.W.H.C.													
		DROUTH							DROUTH							DROUTH							DROUTH							DROUTH							DROUTH													
		0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7									
MAR	1	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	8	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	15	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	22	1100	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	29	96	3	3	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
APR	5	93	6	3	3	3	3	3	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	12	89	10	6	6	6	6	3	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	19	82	17	13	3	3	3	3	96	3	3	3	3	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	26	86	13	10	6	6	6	3	96	3	3	3	3	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
MAY	3	58	41	34	17	17	6	0	96	3	0	0	0	0	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	10	62	37	31	20	13	10	10	6	96	3	3	3	3	0	0	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	17	79	20	17	13	13	10	10	6	86	13	13	10	6	3	3	1100	0	0	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	24	65	34	27	20	10	3	3	0	82	17	13	10	6	3	0	96	3	3	0	0	0	0	0	1100	0	0	0	0	0	0	1100	0	0	0	0	0	1100	0	0	0	0	0	0	0	0	0	0	0	0
	31	41	58	58	44	34	27	13	10	75	24	20	13	13	13	6	86	13	10	10	10	10	6	89	10	10	10	10	6	3	96	3	3	96	3	3	96	3	3	96	3	3	96	3	3	3	3	3	3	
JUN	7	27	72	65	58	55	51	37	24	55	44	34	34	24	20	17	10	79	20	17	17	17	10	6	93	6	6	6	6	6	3	96	3	3	96	3	3	96	3	3	96	3	3	96	3	3	3	3	3	
	14	31	68	55	44	41	37	27	24	51	48	37	31	24	13	10	72	27	24	20	17	13	6	89	10	10	10	10	6	3	96	3	3	96	3	3	96	3	3	96	3	3	96	3	3	3	3	3		
	21	34	65	58	34	34	31	24	20	51	48	44	27	27	24	17	10	68	31	24	13	10	10	6	82	17	13	10	10	6	3	96	3	3	96	3	3	96	3	3	96	3	3	96	3	3	3	3	3	
	28	27	72	65	58	48	41	27	10	44	55	51	44	37	31	24	10	55	44	37	34	27	17	6	82	17	13	10	10	6	3	96	3	3	96	3	3	96	3	3	96	3	3	96	3	3	3	3	3	
JUL	5	20	79	62	51	48	31	24	24	41	58	44	37	34	24	20	55	44	44	34	31	27	10	58	41	41	34	31	27	27	13	10	68	31	31	27	24	17	17	6	82	17	13	13	6	3	3			
	12	20	79	72	62	58	48	34	10	41	58	58	55	51	37	31	10	55	44	44	34	31	27	10	51	48	41	34	27	17	10	62	37	31	27	13	10	79	20	20	13	10	10	6	3	3	3			
	19	20	79	75	62	48	44	27	10	31	68	62	51	44	37	31	17	41	58	55	48	37	24	20	51	48	41	34	27	10	62	37	34	27	24	13	10	79	20	20	17	17	10	6	3	3	3			
	26	31	68	65	58	51	37	20	17	31	68	62	51	44	37	31	10	55	44	44	34	31	27	10	51	48	44	41	37	10	62	37	31	31	31	13	6	75	24	17	17	17	6	3	3	3				
AUG	2	24	75	72	62	62	51	27	10	44	55	55	48	48	37	13	44	55	44	41	34	34	13	55	44	37	31	27	27	13	6	65	34	31	24	20	20	6	79	20	17	17	13	13	10	6				
	9	17	82	62	62	62	48	41	20	37	62	55	51	44	41	31	44	55	48	48	41	37	27	10	48	51	48	48	41	34	24	44	55	55	37	34	24	13	75	24	17	17	13	13	10	6				
	16	24	75	72	65	62	48	44	27	37	62	55	51	44	41	31	44	55	48	48	41	37	27	10	48	51	48	48	41	34	24	44	55	55	37	34	24	13	75	24	17	17	13	13	10	6				
	23	17	82	72	58	55	51	37	27	31	68	65	48	44	37	27	24	41	58	58	41	37	27	24	41	58	58	41	34	24	10	68	31	31	31	24	17	17	17	17	10	6	3	3	3					
	30	17	82	79	68	62	58	51	31	27	72	65	56	51	44	41	24	37	62	58	51	48	41	37	24	41	58	58	44	41	37	24	41	58	55	44	34	24	17	55	44	37	34	24	20	13				
SEP	6	13	86	79	65	62	48	31	27	27	72	68	55	55	44	31	27	31	62	58	51	48	41	37	24	41	58	58	41	34	24	10	58	41	34	27	24	17	58	41	34	34	24	24	17					
	13	34	65	62	51	51	37	34	24	41	58	58	48	48	34	31	20	48	51	51	41	37	27	20	51	48	48	37	27	24	10	65	34	24	24	24	20	17	65	34	24	24	20	17	10					
	20	31	68	62	51	51	37	17	17	44	55	48	37	37	31	24	13	51	48	41	34	37	24	10	58	41	34	27	27	24	10	72	27	17	17	13	10	72	27	17	13	13	10	6						
	27	34	65	58	48	44	34	27	17	55	44	34	27	27	24	10	13	62	37	31	24	24	20	17	79	20	17	17	13	10	6	86	13	13	13	10	10	6	86	13	13	13	10	10	6					
OCT	4	58	41	37	31	27	24	13	10	75	24	24	17	17	13	10	79	20	17	17	13	13	10	6	82	17	17	17	13	10	6	86	13	13	13	10	10	6	86	13	13	13	10	10	6					
	11	58	41	34	34	27	20	13	10	72	27	24	24	20	17	10	79	20	17	17	13	13	10	6	82	17	17	17	13	10	6	86	13	13	13	10	10	6	86	13	13	13	10	10	6					
	18	58	41	34	31	24	20	17	10	65	34	27	24	17	17	10	75	24	20	20	17	13	10	6	82	17	17	17	13	10	6	86	13	13	13	10	10	6	86	13	13	13	10	10						

Table 51. Probability of occurrence of drouth days based on 43 years of record, 1928 through 1970, for Tullahoma

1-WEEK PERIOD BEGIN- NING:	1 INCH A-W-H-C								2 INCH A-W-H-C								3 INCH A-W-H-C								4 INCH A-W-H-C								5 INCH A-W-H-C								7 INCH A-W-H-C																
	DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK						DROUTH		DAYS PER WEEK														
	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7									
MAR	1	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
8	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
15	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
22	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
29	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
APR	5	97	2	2	2	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
12	88	11	9	4	2	2	0	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
19	81	18	15	13	9	4	2	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
26	86	13	13	11	9	9	4	0	97	2	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
MAY	3	70	29	20	18	11	9	4	95	4	2	2	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
10	63	36	36	31	20	15	11	9	86	13	9	9	6	2	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
17	50	49	40	29	27	24	22	13	81	18	13	13	11	11	9	0	95	4	2	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
24	50	49	40	34	25	15	13	6	77	22	13	13	11	11	9	4	88	11	9	9	9	9	6	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
31	38	61	52	44	29	27	24	20	77	22	18	15	15	13	9	0	88	11	6	6	6	6	6	4	95	4	4	4	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
JUN	7	36	63	63	45	36	34	20	61	43	31	24	20	15	11	9	84	15	9	6	6	6	6	6	95	4	4	4	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
14	45	54	47	40	36	29	11	11	56	43	31	24	20	15	11	9	84	15	9	6	6	6	6	6	95	4	4	4	2	2	2	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
21	29	70	63	52	43	29	29	20	52	47	43	31	24	22	15	11	84	18	13	13	11	11	6	4	90	9	6	6	6	4	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
28	29	70	63	56	47	31	22	15	40	59	45	36	34	24	18	11	56	43	31	27	24	18	11	13	84	15	11	11	11	9	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
JUL	5	31	68	63	52	40	31	18	6	47	52	43	36	24	13	6	61	38	29	24	20	18	9	2	75	24	22	20	11	9	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
12	36	63	56	47	45	38	18	11	47	52	43	31	29	29	18	9	54	45	43	31	27	20	11	6	75	24	22	15	9	9	6	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
19	29	70	56	52	40	31	18	4	45	54	45	40	27	20	13	4	50	49	36	29	22	18	11	4	59	40	27	22	18	13	9	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
26	31	68	61	52	31	18	9	0	50	49	43	36	22	18	9	2	61	38	31	27	13	13	9	2	70	29	24	20	11	11	9	2	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
AUG	2	20	79	79	54	47	31	22	20	50	49	49	40	38	29	18	18	56	43	31	29	18	13	13	68	31	31	24	22	15	11	9	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
9	25	74	63	56	45	38	24	15	38	61	49	45	31	27	18	11	54	45	36	31	24	24	18	11	63	36	27	20	18	11	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
16	22	77	67	47	34	27	18	13	40	59	47	38	27	24	15	9	47	52	43	34	24	22	13	4	54	45	38	29	18	13	4	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
23	22	77	72	68	56	47	36	25	45	54	49	49	45	40	34	25	52	47	43	40	34	31	29	25	54	40	34	31	27	24	22	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	
30	22	77	70	65	59	45	31	18	40	59	56	52	38	34	22	15	47	52	49	45	36	34	22	15	50	49	45	40	27	27	18	11	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
SEP	6	31	68	56	47	45	31	25	47	52	47	45	40	29	27	22	52	47	45	40	34	34	22	18	59	40	40	36	34	22	20	18	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
13	38	61	56	47	38	34	20	15	50	44	43	36	34	29	22	15	56	43	38	34	31	27	20	15	61	38	36	29	27	22	18	15	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
20	36	63	59	49	36	34	22	15	56	43	40	36	34	29	22	15	56	43	38	34	31	27	20	15	61	38	36	29	27	22	18	15	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
27	36	63	54	45	36	29	22	18	59	40	34	27	22	20	15	11	68	31	27	22	18	11	11	9	70	29	29	24	18	18	11	9	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
OCT	4	47	52	43	36	31	20	15	68	31	27	22	20	11	4	4	77	22	18	15	15	6	4	4	75	20	15	11	9	4	2	0	100	0	0	0																					

Table 52. Probability of occurrence of drouth days based on 23 years of record, 1948 through 1970, for Waynesboro

1-WEEK PERIOD BEGIN- NING	1 INCH A-W-H-C							2 INCH A-W-H-C							3 INCH A-W-H-C							4 INCH A-W-H-C							5 INCH A-W-H-C							7 INCH A-W-H-C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK				DROUTH			DAYS PER WEEK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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