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Monthly Precipitation Probabilities by Climatic Divisions

23 Eastern States From the Great Lakes to the Gulf Coast

Miscellaneous Publication No. 1160

U.S. DEPARTMENT OF AGRICULTURE, Economic Research Service and
U.S. DEPARTMENT OF COMMERCE, Environmental Science Services Administration

**United States
Department of
Agriculture**



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PREFACE

This publication provides basic long-term data on the variability and dependability of an area's natural rainfall supply potential. In addition to providing a better understanding of the precipitation phenomena of an area, the data will also aid in the development of water resource management plans for the area. For example, the need for supplemental irrigation can be derived; adequacy of precipitation for municipal and industrial water supply can be determined; and the design and management of reservoir storage for flood control or low-flow augmentation can be estimated. These data will also be used in research work in the evaluation of projects or operations in a given area.

The research report was completed as a cooperative effort between the U.S. Department of Commerce, Environmental Science Services Administration, and the U.S. Department of Agriculture, Economic Research Service. Acknowledgment is made to Grady McKay, ESSA National Weather Records Center, Asheville, N. C., for the basic computer program used and to Priscilla Prophet, Computer Laboratory, Michigan State University, for data processing and programming assistance.

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MONTHLY PRECIPITATION PROBABILITIES BY CLIMATIC DIVISIONS--23 EASTERN STATES
FROM THE GREAT LAKES TO THE GULF COAST

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SUMMARY

This publication presents precipitation probability data by climatic divisions for 23 eastern States. The explanation of the development and application of the data use Maryland as an example. Data for other States can be interpreted in a similar manner.

INTRODUCTION

Through statistical analysis of past weather records, the future weather for an area can be projected. Today, with greater emphasis on area development potential and efficient use of our natural resources, many planners, researchers, and engineers seek more detailed climatological information. Precipitation probabilities interest these people, especially information on the variability and the dependability of the amount that can be expected. Precipitation probabilities derived from historical data can aid understanding of these aspects of precipitation and serve as basic data for the evaluation of an area's natural water supply potential. Precipitation probabilities can

also be used to show the differences between mean precipitation and amount which can be expected to occur half the time--information that is useful for research on irrigation planning and other water resource problems. In considering simple statistical frequency distribution curves, the arithmetic mean is one of the variables used to determine the normal distribution. In the normal distribution, the vertical line of symmetry occurs at the mean of the distribution, and is also the median and the mode value. The normal distribution provides a good fit for most climatological variables that are unbounded above and below, such as temperature. Precipitation is bounded at the lower end by zero. Appropriately, some distribution other than the normal distribution should be expected to provide the best fit for precipitation data.

This publication presents precipitation probability values derived by using the gamma probability function where the frequency distribution presented by Thom (1) 1/ for the random variable x is given by

$$f(x) = \frac{e^{-x/\beta} x^{m-1}}{\beta^m \Gamma(m)}$$

where x = precipitation amount

$$\beta = \frac{\bar{x}}{m}$$

m = gamma parameter as found from the equation:

$$12 (\ln \bar{x} - \frac{1}{N} \sum \ln x) m^2 - 6m - 1 = 0$$

$$\Gamma(m) = \text{gamma function, } \int_0^{\infty} x^{m-1} e^{-x} dx, 0 \leq x < \infty, m > 0$$

1/ Underscored numbers in parentheses refer to items in the Selected References, p. 7.

It does not present the details of the development and application of this method. The user is instead referred to articles by Thom (1, 2, 4, and 6); Friedman and Janes (3); and Barger, Shaw, and Dale (5), all of whom have shown that the gamma probability function gives a good fit for precipitation in a climatological data series. Utilizing this method, monthly precipitation probability values for each climatic division for 23 States have been calculated as have monthly probabilities for at least one major weather station in each of these States.

DATA

The precipitation data for the climatic divisions were compiled at the National Weather Records Center at Asheville, N.C., and were published in summary form in Climatography of the United States No. 85-* 2/ in 1963 and the State Monthly Climatological Data series. These data consist of the arithmetic averages of monthly precipitation data from the cooperative climatological stations within each climatic division for the period 1931-65. The boundaries of climatic divisions have been carefully drawn to give a division as much uniformity in its observed climate as possible. To illustrate how point and area values compare, the precipitation probability totals or values for a single station (point) within one of the climatic divisions of each State have been provided for comparative purposes with the division data. For Maryland, Baltimore, located in the Upper Southern Climatic Division, was used (p. 60). The good agreement between the station and the climatic division averages suggest that in most cases, the division probabilities adequately represent the expected precipitation amounts. In mountainous areas where very substantial terrain changes occur, local climatic differences are substantial

2/ The asterisk represents the special number assigned to each State.

and the point versus division data will exhibit larger departures, particularly in the relatively low and relatively high probability categories. Because of these large climatic changes in short distances in the mountains, extreme care must be used in the application or interpretation of these data. Also, points in the fringe area of the larger climatic divisions might also exhibit somewhat larger departures from the division data. A third factor which could cause some difference is the distribution of the climatological stations within the division. This factor may have produced a greater bias in earlier years when stations tended to be clustered in the urban areas. The effect of this is now minimized by the systematic location of climatological stations on a grid of points, with a single station designed to represent an area of approximately 600 square miles.

The precipitation data for the individual stations used in this study were taken from annual summaries for each station and, in general, cover the period 1931-67.

RESULTS AND INTERPRETATION

The calculated probability values or totals are presented in tables, by months. Included in the tables are the monthly mean precipitation amounts and the two parameters, gamma and beta of the gamma probability function, which describe the incomplete gamma function. As an example, in table 44, the Southern Eastern Shore Climatic Division of Maryland (p. 61), we find under the 30-percentile column (shown in the table as 0.30), and across from January, 2.71. This indicates that in 3 years out of 10, the January precipitation total is expected to be equal to or less than 2.71 inches, or alternatively, that in 7 years out of 10, the January precipitation total is expected to exceed 2.71 inches. At the 70-percentile level for January, we find 4.27, indicating that in 7 years out of 10, the precipitation total is expected to

be equal to or less than 4.27 inches or that in 3 years out of 10, it is expected to be greater than 4.27 inches.

In using the gamma probability function, two parameters must be estimated. The shape parameter, gamma, is inversely related to the skewness. That is, a smaller gamma indicates that a few large values cause positive skewness and that the mean departs further from the median value. A large gamma causes the probability function to approach normality. Beta, the scale parameter, indicates range or dispersion with a larger beta indicating a greater tendency to deviate from either the mean or the median.

These characteristics can be illustrated with data from Maryland's Lower Southern Climatic Division (p. 62). For example, in January, we find the 50-percentile value is 3.24 inches while in August, it is 4.32 inches. In general, this indicates that larger precipitation amounts can be expected in August than in January. By comparing the differences in the expected precipitation amounts for the high and low probabilities for these 2 months, we can assess the dependability of the precipitation. In January, the range between the 5-percentile precipitation amount and the 95-percentile amount is 5.33 inches. In August, the range between the same probabilities is 8.99 inches. Thus, while a larger amount of precipitation can generally be expected in August, relative to January, the August precipitation amounts over a period of years will show greater variation.

This type of information can be extremely valuable in planning for municipal or industrial water supplies or irrigation needs. It indicates both the distribution of the potential supply over the year and the probability that facilities will be necessary for the storage or release of water from month to month. It also emphasizes the inadequacies inherent in using the simple average of area precipitation for planning. In the cases computed for this

study, the 50-percentile value is less than the arithmetic average which has generally been used. This occurs because precipitation totals are bounded by zero on one end of the scale but are unlimited on the other end. Thus, the occurrence of large monthly totals in a series tends to push the monthly average amount above the amount that can be expected one-half of the time; that is, the 50-percentile value.

The mean value, however, has some advantages as it is easily computed, the sum of a number of events divided by the number of events. The mean may be combined directly with further accumulated means, for example, the monthly means can be combined to give the annual mean. The mean is also estimated from sample data as efficiently as any other statistic in a given distribution.

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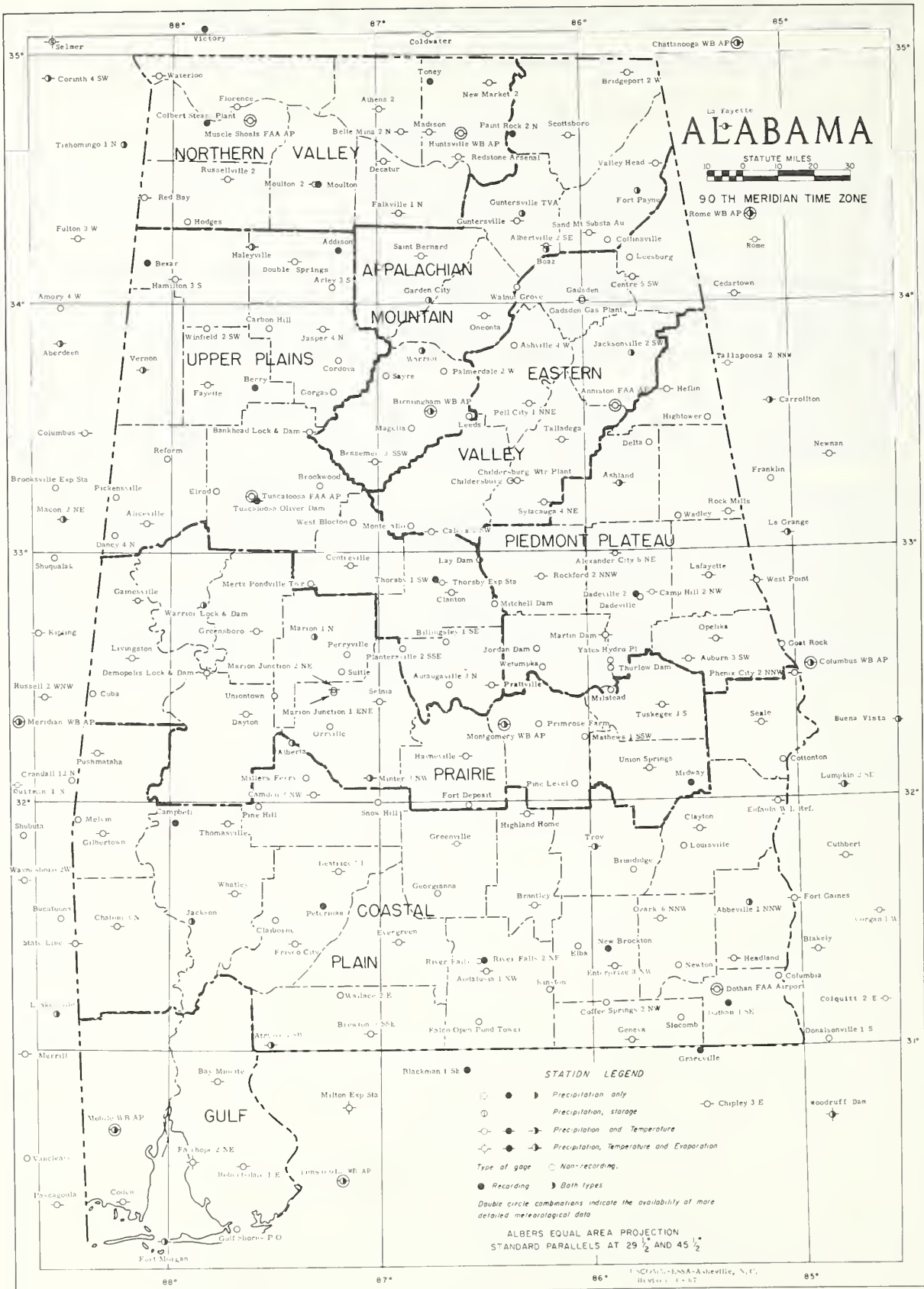


TABLE 1 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Montgomery, Alabama

Probabilities (Based on 37 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.18	4.03	1.04	1.43	1.83	2.41	2.89	3.36	3.84	4.36	4.97	5.76	6.97	8.08
February	4.60	4.58	1.00	1.72	2.15	2.76	3.28	3.77	4.27	4.81	5.44	6.24	7.47	8.60
March	5.97	4.64	1.29	2.25	2.80	3.60	4.27	4.90	5.54	6.24	7.05	8.08	9.67	11.12
April	4.71	2.40	1.97	1.03	1.47	2.16	2.78	3.41	4.08	4.83	5.73	6.91	8.79	10.57
May	3.23	3.15	1.02	0.92	1.22	1.69	2.09	2.48	2.89	3.35	3.88	4.58	5.66	6.68
June	4.06	4.63	0.88	1.53	1.91	2.45	2.90	3.33	3.77	4.25	4.80	5.50	6.58	7.57
July	5.12	5.89	0.87	2.21	2.67	3.31	3.84	4.33	4.82	5.36	5.97	6.74	7.91	8.95
August	3.89	3.44	1.13	1.19	1.56	2.11	2.58	3.04	3.52	4.04	4.66	5.45	6.70	7.85
September	4.01	1.57	2.55	0.51	0.83	1.39	1.95	2.54	3.20	3.96	4.90	6.17	8.26	10.27
October	2.31	1.01	2.29	0.12	0.25	0.52	0.83	1.19	1.61	2.12	2.78	3.72	5.31	6.90
November	3.07	1.67	1.84	0.43	0.68	1.12	1.54	1.99	2.48	3.05	3.75	4.69	6.22	7.69
December	4.90	3.70	1.32	1.58	2.05	2.74	3.32	3.89	4.47	5.11	5.86	6.82	8.31	9.68

Division--Alabama Prairie Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.52	5.11	0.88	1.80	2.22	2.81	3.30	3.76	4.23	4.73	5.32	6.06	7.19	8.23
February	4.72	6.76	0.70	2.18	2.59	3.16	3.62	4.05	4.48	4.94	5.47	6.13	7.13	8.02
March	6.29	7.95	0.79	3.12	3.65	4.37	4.95	5.49	6.02	6.59	7.23	8.03	9.23	10.29
April	5.13	3.58	1.43	1.62	2.10	2.82	3.44	4.04	4.66	5.34	6.13	7.16	8.75	10.22
May	3.41	3.08	1.11	0.95	1.27	1.76	2.19	2.61	3.05	3.53	4.11	4.85	6.02	7.10
June	3.94	5.86	0.67	1.69	2.05	2.55	2.95	3.33	3.71	4.13	4.60	5.19	6.10	6.90
July	5.41	9.83	0.55	2.91	3.35	3.93	4.39	4.81	5.22	5.66	6.16	6.77	7.69	8.49
August	3.97	4.10	0.97	1.38	1.75	2.30	2.76	3.20	3.65	4.14	4.72	5.46	6.60	7.65
September	3.23	2.91	1.11	0.86	1.16	1.63	2.04	2.44	2.86	3.33	3.89	4.61	5.74	6.77
October	2.20	1.42	1.55	0.23	0.40	0.70	1.01	1.34	1.71	2.14	2.68	3.42	4.64	5.83
November	3.23	2.32	1.39	0.68	0.98	1.45	1.88	2.31	2.78	3.30	3.92	4.75	6.07	7.32
December	5.00	4.28	1.17	1.79	2.26	2.94	3.51	4.06	4.62	5.23	5.94	6.84	8.24	9.53

**TABLE 2 - Precipitation Probabilities for
Climatic Divisions**

Alabama Northern Valley Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.44	3.75	1.45	1.77	2.29	3.05	3.70	4.32	4.96	5.67	6.49	7.55	9.19	10.70
February	4.96	3.72	1.33	1.61	2.08	2.77	3.37	3.94	4.52	5.17	5.92	6.89	8.40	9.78
March	6.04	6.76	0.89	2.79	3.32	4.05	4.64	5.19	5.74	6.33	7.01	7.86	9.13	10.28
April	4.63	5.83	0.79	1.99	2.40	2.99	3.46	3.91	4.36	4.85	5.41	6.11	7.17	8.13
May	3.41	4.19	0.81	1.20	1.53	1.99	2.39	2.76	3.15	3.57	4.06	4.68	5.65	6.54
June	3.65	3.94	0.92	1.23	1.58	2.08	2.51	2.92	3.34	3.80	4.33	5.02	6.08	7.03
July	4.40	5.48	0.80	1.83	2.23	2.79	3.26	3.69	4.13	4.61	5.16	5.85	6.91	7.87
August	3.48	4.49	0.78	1.29	1.61	2.08	2.47	2.85	3.23	3.64	4.13	4.74	5.69	6.55
September	3.27	2.79	1.17	0.83	1.14	1.62	2.04	2.45	2.89	3.37	3.95	4.70	5.88	6.98
October	2.68	1.67	1.61	0.37	0.59	0.98	1.35	1.74	2.17	2.67	3.28	4.10	5.44	6.73
November	3.91	2.96	1.32	1.05	1.42	1.99	2.48	2.96	3.47	4.03	4.70	5.56	6.91	8.14
December	5.00	3.53	1.42	1.56	2.03	2.74	3.35	3.93	4.54	5.20	5.99	7.00	8.57	10.02

Alabama Appalachian Mountain Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.54	3.95	1.40	1.88	2.40	3.17	3.81	4.44	5.08	5.78	6.59	7.63	9.24	10.69
February	4.56	2.01	2.27	0.81	1.22	1.89	2.51	3.14	3.83	4.61	5.56	6.83	8.86	10.81
March	6.36	10.13	0.63	3.46	3.97	4.64	5.18	5.67	6.15	6.66	7.23	7.95	9.01	9.96
April	4.89	5.30	0.92	1.99	2.44	3.07	3.60	4.09	4.59	5.12	5.74	6.53	7.73	8.83
May	3.44	4.80	0.72	1.32	1.64	2.10	2.47	2.83	3.20	3.59	4.05	4.63	5.52	6.33
June	4.02	6.40	0.63	1.81	2.17	2.66	3.06	3.44	3.82	4.22	4.68	5.26	6.15	6.94
July	4.95	5.55	0.89	2.07	2.52	3.16	3.68	4.16	4.66	5.19	5.80	6.58	7.76	8.83
August	3.93	5.75	0.68	1.68	2.03	2.53	2.94	3.32	3.71	4.12	4.60	5.20	6.12	6.94
September	3.10	2.70	1.15	0.77	1.06	1.51	1.91	2.31	2.73	3.19	3.75	4.47	5.62	6.69
October	2.81	1.46	1.92	0.32	0.53	0.92	1.31	1.73	2.20	2.75	3.43	4.36	5.89	7.38
November	4.00	3.03	1.32	1.10	1.48	2.06	2.56	3.05	3.57	4.14	4.82	5.70	7.08	8.37
December	5.20	3.76	1.38	1.70	2.19	2.91	3.53	4.13	4.74	5.41	6.20	7.21	8.77	10.21

TABLE 3 - Precipitation Probabilities for Climatic Divisions

Alabama Upper Plains Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.38	4.61	1.17	2.02	2.52	3.24	3.84	4.41	4.99	5.62	6.36	7.29	8.73	10.04
February	5.00	3.96	1.26	1.69	2.17	2.86	3.44	4.00	4.58	5.21	5.94	6.88	8.32	9.63
March	6.35	11.03	0.58	3.57	4.06	4.71	5.23	5.70	6.16	6.65	7.20	7.88	8.90	9.79
April	5.15	4.57	1.13	1.92	2.40	3.09	3.67	4.22	4.78	5.38	6.09	6.99	8.37	9.63
May	3.61	4.05	0.89	1.24	1.58	2.08	2.50	2.90	3.32	3.77	4.29	4.97	6.01	6.97
June	4.20	6.41	0.65	1.89	2.26	2.78	3.20	3.59	3.98	4.40	4.88	5.49	6.41	7.24
July	5.20	6.60	0.79	2.38	2.83	3.47	3.98	4.46	4.94	5.46	6.05	6.78	7.90	8.91
August	4.18	4.67	0.90	1.58	1.97	2.53	3.00	3.44	3.89	4.38	4.94	5.67	6.77	7.78
September	3.16	3.02	1.05	0.87	1.17	1.62	2.02	2.41	2.82	3.28	3.81	4.51	5.61	6.63
October	2.49	1.47	1.70	0.28	0.47	0.82	1.16	1.53	1.95	2.43	3.04	3.86	5.21	6.52
November	3.65	3.20	1.14	1.05	1.40	1.92	2.37	2.82	3.28	3.79	4.39	5.16	6.38	7.52
December	5.24	4.01	1.31	1.79	2.29	3.01	3.63	4.21	4.82	5.47	6.24	7.23	8.76	10.16

Alabama Eastern Valley Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.33	4.45	1.20	1.95	2.45	3.17	3.77	4.35	4.93	5.57	6.31	7.25	8.70	10.03
February	5.33	6.06	0.88	2.34	2.81	3.48	4.02	4.53	5.04	5.59	6.22	7.02	8.23	9.32
March	6.31	9.58	0.66	3.37	3.88	4.57	5.11	5.60	6.09	6.61	7.20	7.93	9.02	9.99
April	5.04	4.16	1.21	1.77	2.25	2.94	3.52	4.07	4.65	5.27	5.99	6.92	8.36	9.68
May	3.15	3.00	1.05	0.86	1.16	1.61	2.01	2.40	2.81	3.26	3.80	4.49	5.58	6.61
June	4.29	6.30	0.68	1.91	2.29	2.82	3.26	3.66	4.06	4.50	4.99	5.62	6.57	7.43
July	4.89	5.31	0.92	1.99	2.44	3.08	3.60	4.09	4.59	5.12	5.74	6.53	7.73	8.82
August	4.05	5.09	0.80	1.61	1.99	2.52	2.96	3.37	3.79	4.25	4.77	5.44	6.46	7.39
September	3.22	2.35	1.37	0.69	0.99	1.46	1.89	2.32	2.78	3.30	3.92	4.73	6.04	7.27
October	2.57	1.40	1.84	0.27	0.46	0.81	1.17	1.56	1.99	2.51	3.14	4.01	5.45	6.86
November	3.41	2.85	1.19	0.89	1.21	1.70	2.14	2.56	3.01	3.51	4.11	4.88	6.09	7.21
December	5.19	3.11	1.67	1.46	1.95	2.70	3.35	3.98	4.65	5.38	6.25	7.37	9.14	10.78

TABLE 4 - Precipitation Probabilities for Climatic Divisions

Alabama Piedmont Plateau Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
				- Inches -										
January	4.96	4.57	1.08	1.85	2.31	2.98	3.54	4.06	4.60	5.19	5.87	6.73	8.06	9.28
February	5.06	5.76	0.88	2.16	2.62	3.26	3.78	4.27	4.77	5.31	5.92	6.69	7.87	8.93
March	6.51	10.11	0.64	3.55	4.06	4.76	5.30	5.80	6.30	6.82	7.41	8.14	9.24	10.21
April	5.48	3.96	1.38	1.86	2.38	3.13	3.77	4.39	5.02	5.71	6.51	7.54	9.12	10.55
May	3.32	3.46	0.96	1.02	1.33	1.80	2.21	2.60	3.00	3.45	3.97	4.65	5.71	6.68
June	4.16	7.80	0.53	2.05	2.40	2.88	3.27	3.62	3.98	4.36	4.79	5.33	6.13	6.85
July	5.33	7.83	0.68	2.63	3.08	3.70	4.19	4.65	5.11	5.59	6.14	6.83	7.86	8.78
August	4.40	5.45	0.81	1.82	2.22	2.79	3.26	3.69	4.14	4.61	5.17	5.86	6.93	7.89
September	3.48	2.82	1.23	0.90	1.23	1.73	2.18	2.62	3.08	3.59	4.20	5.00	6.24	7.40
October	2.26	1.07	2.12	0.14	0.27	0.54	0.85	1.20	1.61	2.10	2.74	3.62	5.13	6.63
November	3.47	2.29	1.51	0.72	1.04	1.55	2.01	2.48	2.98	3.54	4.21	5.11	6.53	7.88
December	5.10	3.71	1.37	1.65	2.14	2.85	3.46	4.04	4.65	5.32	6.09	7.09	8.64	10.07

Alabama Coastal Plain Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
				- Inches -										
January	4.65	4.72	0.99	1.77	2.20	2.82	3.34	3.83	4.33	4.87	5.49	6.29	7.51	8.62
February	4.66	5.36	0.87	1.91	2.34	2.94	3.44	3.90	4.38	4.89	5.47	6.22	7.36	8.39
March	6.30	4.41	1.43	2.30	2.89	3.74	4.46	5.13	5.83	6.59	7.47	8.59	10.32	11.90
April	5.51	4.31	1.28	1.98	2.50	3.25	3.88	4.48	5.09	5.76	6.54	7.53	9.07	10.48
May	3.91	3.31	1.18	1.16	1.53	2.09	2.57	3.04	3.53	4.06	4.69	5.51	6.79	7.98
June	4.64	6.39	0.73	2.08	2.50	3.07	3.53	3.96	4.40	4.86	5.40	6.07	7.09	8.01
July	6.75	10.89	0.62	3.77	4.30	5.00	5.55	6.05	6.54	7.07	7.65	8.38	9.45	10.39
August	5.16	5.63	0.92	2.17	2.64	3.30	3.84	4.34	4.86	5.41	6.04	6.84	8.06	9.17
September	4.34	4.15	1.04	1.52	1.93	2.52	3.02	3.50	3.99	4.53	5.15	5.95	7.19	8.32
October	2.21	1.15	1.93	0.16	0.29	0.58	0.88	1.22	1.61	2.08	2.68	3.51	4.92	6.31
November	3.36	2.05	1.64	0.62	0.92	1.41	1.87	2.33	2.84	3.41	4.10	5.02	6.50	7.91
December	5.09	4.17	1.22	1.79	2.27	2.96	3.55	4.11	4.69	5.31	6.04	6.98	8.42	9.75

TABLE 5 - Precipitation Probabilities for Climatic Divisions

Month	Mean Inches	Gamma	Beta	Alabama Gulf Division												
				Probabilities (Based on 35 years of data)												
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95		
January	4.65	4.13	1.12	1.62	2.06	2.70	3.24	3.75	4.28	4.85	5.52	6.38	7.71	8.93		
February	4.40	4.42	1.00	1.61	2.02	2.61	3.11	3.58	4.07	4.60	5.21	5.99	7.20	8.30		
March	6.51	3.36	1.94	1.95	2.57	3.49	4.29	5.07	5.88	6.76	7.81	9.16	11.27	13.23		
April	5.88	2.68	2.19	1.44	1.99	2.85	3.61	4.36	5.16	6.05	7.11	8.49	10.67	12.72		
May	4.65	3.19	1.46	1.34	1.78	2.45	3.02	3.59	4.18	4.82	5.59	6.58	8.14	9.59		
June	6.14	4.46	1.38	2.26	2.83	3.66	4.35	5.01	5.69	6.42	7.27	8.36	10.03	11.56		
July	8.71	6.28	1.39	3.88	4.66	5.74	6.61	7.43	8.25	9.14	10.15	11.42	13.35	15.10		
August	6.21	6.40	0.97	2.79	3.34	4.11	4.73	5.30	5.89	6.51	7.22	8.12	9.48	10.71		
September	6.26	3.16	1.98	1.78	2.38	3.27	4.05	4.81	5.61	6.49	7.52	8.87	10.98	12.94		
October	2.80	1.13	2.48	0.19	0.36	0.72	1.10	1.53	2.03	2.63	3.39	4.46	6.26	8.04		
November	3.49	1.71	2.04	0.50	0.79	1.29	1.78	2.28	2.84	3.48	4.27	5.32	7.04	8.69		
December	5.07	4.74	1.07	1.93	2.41	3.08	3.64	4.18	4.72	5.31	5.99	6.86	8.18	9.39		

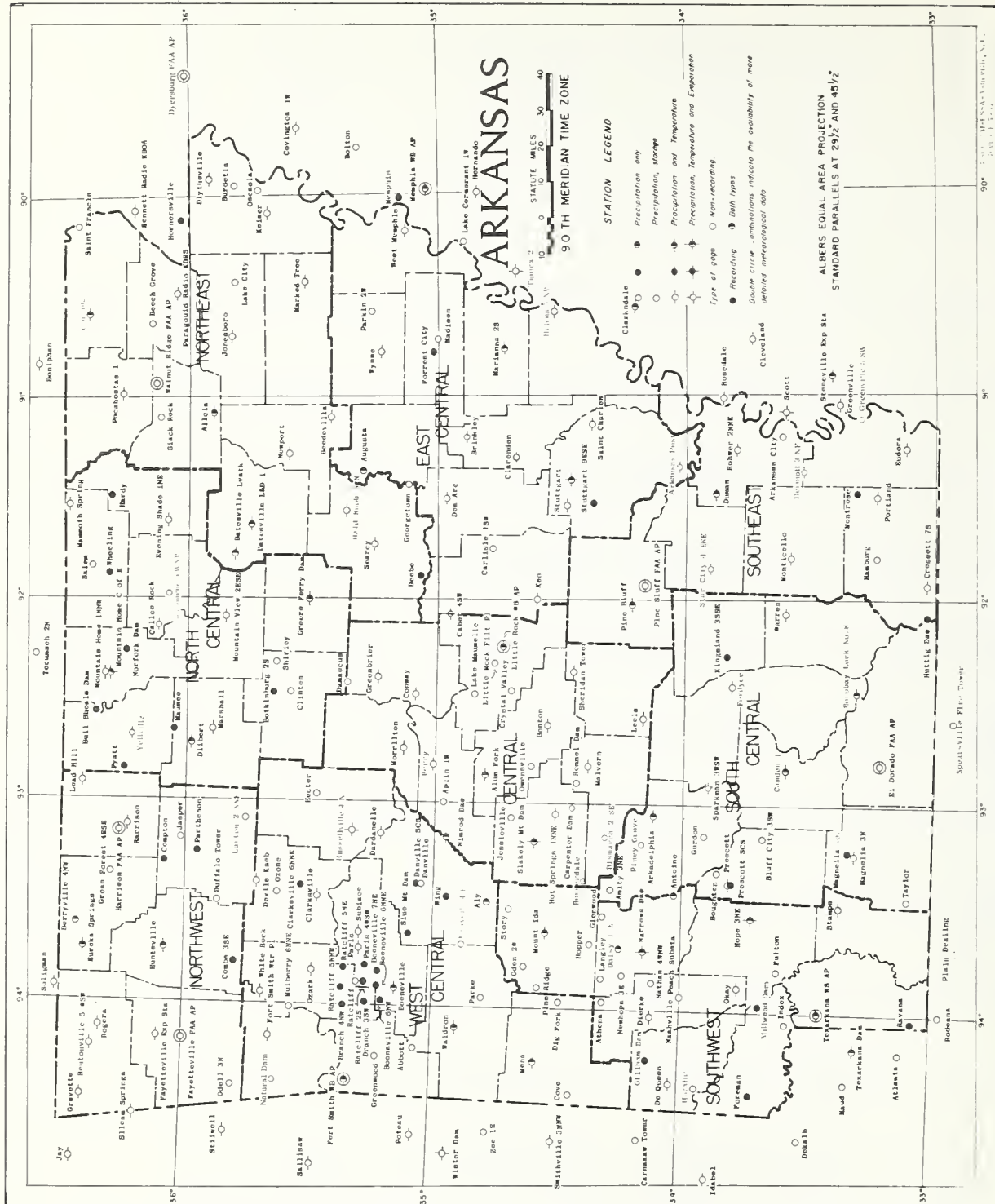


TABLE 6 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Little Rock, Arkansas

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	- Inches -										
	Inches			0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.75	1.65	2.87	0.65	1.04	1.71	2.37	3.06	3.83	4.71	5.79	7.26	9.65	11.95
February	4.31	3.07	1.40	1.20	1.61	2.23	2.77	3.30	3.85	4.46	5.19	6.13	7.61	8.99
March	4.78	3.53	1.35	1.49	1.94	2.62	3.20	3.76	4.34	4.97	5.72	6.69	8.19	9.58
April	4.99	3.64	1.37	1.59	2.06	2.76	3.36	3.94	4.54	5.19	5.96	6.95	8.48	9.89
May	5.01	2.92	1.72	1.33	1.80	2.53	3.16	3.79	4.44	5.17	6.03	7.15	8.89	10.51
June	3.35	1.23	2.72	0.27	0.50	0.94	1.40	1.91	2.50	3.20	4.07	5.29	7.32	9.32
July	3.39	3.65	0.93	1.08	1.41	1.88	2.29	2.68	3.09	3.53	4.05	4.73	5.77	6.73
August	3.04	1.73	1.76	0.45	0.70	1.14	1.56	2.00	2.48	3.04	3.71	4.63	6.11	7.53
September	3.38	2.00	1.69	0.60	0.90	1.39	1.85	2.32	2.83	3.41	4.11	5.03	6.52	7.91
October	2.66	1.15	2.31	0.19	0.35	0.69	1.06	1.47	1.94	2.50	3.22	4.22	5.91	7.58
November	3.94	2.36	1.67	0.85	1.21	1.79	2.32	2.84	3.40	4.03	4.79	5.79	7.38	8.88
December	4.04	4.29	0.94	1.45	1.83	2.38	2.84	3.28	3.73	4.22	4.79	5.52	6.65	7.69

Division--Arkansas Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
	Inches			0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.87	2.24	2.17	0.99	1.44	2.15	2.80	3.46	4.17	4.97	5.93	7.19	9.22	11.15
February	4.36	2.69	1.62	1.07	1.48	2.12	2.68	3.24	3.83	4.49	5.28	6.30	7.92	9.43
March	4.94	4.14	1.19	1.73	2.20	2.87	3.44	3.99	4.55	5.16	5.88	6.79	8.20	9.49
April	5.43	4.67	1.16	2.05	2.56	3.29	3.89	4.46	5.05	5.68	6.42	7.36	8.79	10.10
May	5.71	4.68	1.22	2.16	2.69	3.45	4.09	4.69	5.30	5.97	6.74	7.72	9.23	10.60
June	4.21	2.63	1.60	1.02	1.41	2.03	2.57	3.12	3.69	4.34	5.10	6.10	7.69	9.18
July	3.76	3.30	1.14	1.11	1.47	2.01	2.47	2.92	3.39	3.91	4.52	5.31	6.54	7.69
August	3.15	2.74	1.15	0.79	1.09	1.55	1.95	2.36	2.78	3.25	3.81	4.54	5.70	6.78
September	3.32	2.71	1.22	0.82	1.14	1.62	2.05	2.47	2.92	3.42	4.01	4.78	6.00	7.14
October	3.25	2.53	1.29	0.75	1.06	1.53	1.96	2.38	2.84	3.34	3.94	4.73	5.99	7.17
November	4.37	2.21	1.97	0.88	1.27	1.92	2.50	3.10	3.73	4.45	5.32	6.46	8.30	10.04
December	4.38	3.98	1.10	1.49	1.90	2.51	3.02	3.51	4.02	4.57	5.21	6.03	7.29	8.43

TABLE 7 - Precipitation Probabilities for Climatic Divisions

Arkansas Northwest Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.57	1.64	1.56	0.35	0.56	0.92	1.28	1.66	2.07	2.55	3.13	3.93	5.22	6.47
February	3.13	2.45	1.27	0.70	0.99	1.45	1.86	2.27	2.71	3.20	3.79	4.57	5.80	6.96
March	3.53	2.79	1.26	0.90	1.23	1.75	2.20	2.65	3.12	3.64	4.26	5.07	6.35	7.53
April	4.59	5.41	0.85	1.89	2.31	2.90	3.39	3.85	4.31	4.81	5.39	6.12	7.23	8.24
May	6.08	3.33	1.83	1.81	2.39	3.25	4.00	4.73	5.48	6.31	7.29	8.56	10.54	12.38
June	5.14	2.48	2.07	1.17	1.65	2.40	3.08	3.75	4.47	5.27	6.23	7.50	9.51	11.40
July	3.59	2.56	1.40	0.84	1.18	1.70	2.17	2.64	3.13	3.69	4.35	5.21	6.59	7.88
August	3.31	2.49	1.33	0.76	1.06	1.55	1.99	2.42	2.88	3.40	4.02	4.83	6.12	7.33
September	4.08	1.66	2.45	0.56	0.90	1.48	2.05	2.64	3.30	4.05	4.98	6.23	8.28	10.24
October	3.57	2.35	1.52	0.77	1.09	1.62	2.09	2.57	3.08	3.66	4.34	5.25	6.70	8.07
November	3.25	2.20	1.48	0.65	0.94	1.42	1.86	2.30	2.78	3.31	3.96	4.82	6.19	7.50
December	2.57	2.56	1.00	0.60	0.84	1.22	1.56	1.89	2.25	2.64	3.12	3.74	4.72	5.65

Arkansas North Central Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.43	1.65	2.07	0.47	0.75	1.24	1.71	2.21	2.76	3.40	4.18	5.24	6.96	8.62
February	3.55	2.63	1.35	0.86	1.19	1.71	2.17	2.63	3.11	3.65	4.30	5.14	6.48	7.73
March	4.00	2.59	1.55	0.95	1.32	1.91	2.43	2.95	3.50	4.11	4.85	5.81	7.33	8.76
April	4.50	5.23	0.86	1.82	2.23	2.82	3.30	3.75	4.21	4.71	5.29	6.02	7.13	8.14
May	5.37	4.18	1.28	1.89	2.40	3.13	3.75	4.34	4.95	5.61	6.38	7.37	8.89	10.29
June	4.27	2.31	1.85	0.90	1.29	1.92	2.49	3.06	3.67	4.37	5.20	6.29	8.04	9.70
July	3.45	4.56	0.76	1.28	1.61	2.07	2.45	2.82	3.20	3.60	4.08	4.68	5.60	6.45
August	3.14	2.93	1.07	0.84	1.13	1.59	1.98	2.37	2.78	3.24	3.77	4.47	5.56	6.57
September	3.08	1.99	1.54	0.54	0.81	1.26	1.68	2.11	2.57	3.10	3.74	4.58	5.94	7.20
October	3.17	2.41	1.32	0.70	0.99	1.45	1.87	2.29	2.74	3.24	3.84	4.64	5.90	7.09
November	3.70	2.28	1.63	0.77	1.10	1.65	2.14	2.64	3.17	3.78	4.50	5.45	6.98	8.43
December	3.24	2.67	1.21	0.79	1.10	1.57	1.99	2.40	2.84	3.33	3.91	4.68	5.88	7.01

TABLE 8 - Precipitation Probabilities for Climatic Divisions

Arkansas Northeast Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.88	2.14	2.28	0.94	1.38	2.10	2.76	3.43	4.15	4.96	5.94	7.25	9.34	11.32
February	4.22	2.98	1.42	1.14	1.54	2.15	2.68	3.21	3.75	4.36	5.08	6.00	7.45	8.78
March	4.84	4.09	1.18	1.68	2.14	2.80	3.36	3.90	4.45	5.05	5.75	6.65	8.04	9.32
April	4.46	4.91	0.91	1.74	2.15	2.74	3.23	3.69	4.16	4.67	5.25	6.00	7.13	8.15
May	4.71	4.01	1.17	1.61	2.06	2.71	3.26	3.78	4.32	4.91	5.60	6.49	7.86	9.12
June	3.75	2.60	1.44	0.89	1.24	1.79	2.28	2.77	3.28	3.86	4.55	5.44	6.87	8.20
July	3.73	4.94	0.75	1.46	1.80	2.29	2.70	3.08	3.47	3.89	4.38	5.00	5.94	6.79
August	3.23	3.31	0.98	0.96	1.27	1.73	2.12	2.51	2.91	3.36	3.88	4.56	5.62	6.60
September	2.96	2.92	1.01	0.79	1.07	1.49	1.87	2.24	2.62	3.05	3.56	4.22	5.25	6.20
October	3.20	2.77	1.15	0.81	1.11	1.58	1.99	2.39	2.82	3.30	3.86	4.60	5.76	6.84
November	4.15	2.39	1.73	0.91	1.29	1.90	2.45	3.00	3.59	4.25	5.04	6.08	7.74	9.30
December	4.08	4.66	0.88	1.54	1.92	2.47	2.92	3.35	3.79	4.27	4.82	5.53	6.61	7.60

Arkansas West Central Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.85	1.65	2.34	0.52	0.84	1.39	1.92	2.49	3.11	3.82	4.70	5.89	7.84	9.71
February	4.08	2.36	1.73	0.88	1.25	1.85	2.40	2.94	3.52	4.17	4.96	5.99	7.64	9.19
March	4.44	3.24	1.37	1.29	1.71	2.35	2.90	3.43	3.99	4.61	5.33	6.27	7.74	9.11
April	5.10	5.98	0.85	2.21	2.67	3.31	3.83	4.32	4.81	5.33	5.94	6.70	7.84	8.86
May	5.99	6.29	0.95	2.67	3.20	3.94	4.54	5.11	5.67	6.28	6.97	7.85	9.17	10.37
June	4.57	2.28	2.00	0.95	1.37	2.04	2.65	3.26	3.92	4.66	5.56	6.73	8.62	10.40
July	3.82	3.64	1.05	1.22	1.58	2.12	2.57	3.02	3.47	3.97	4.56	5.32	6.49	7.58
August	3.47	3.20	1.08	1.00	1.33	1.82	2.25	2.67	3.11	3.60	4.17	4.91	6.07	7.14
September	3.63	2.31	1.57	0.76	1.09	1.63	2.11	2.60	3.12	3.70	4.41	5.34	6.82	8.23
October	3.55	2.52	1.41	0.82	1.15	1.67	2.14	2.60	3.09	3.64	4.30	5.17	6.54	7.83
November	3.83	2.51	1.52	0.88	1.24	1.80	2.30	2.80	3.34	3.93	4.64	5.58	7.06	8.46
December	3.68	3.18	1.16	1.06	1.41	1.93	2.39	2.84	3.31	3.82	4.43	5.22	6.46	7.61

TABLE 9 - Precipitation Probabilities for Climatic Divisions

Arkansas East Central Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.61	2.53	2.22	1.30	1.83	2.65	3.38	4.12	4.89	5.76	6.80	8.17	10.34	12.37
February	4.67	3.11	1.50	1.31	1.76	2.43	3.01	3.58	4.18	4.84	5.62	6.63	8.22	9.71
March	5.20	5.96	0.87	2.26	2.72	3.37	3.91	4.40	4.91	5.45	6.06	6.84	8.01	9.06
April	4.89	5.04	0.97	1.93	2.39	3.03	3.56	4.06	4.57	5.12	5.76	6.56	7.80	8.93
May	4.64	3.85	1.20	1.54	1.98	2.62	3.17	3.70	4.24	4.83	5.52	6.41	7.78	9.03
June	3.56	3.03	1.17	0.98	1.32	1.83	2.28	2.72	3.18	3.68	4.29	5.07	6.30	7.45
July	3.91	3.25	1.20	1.14	1.51	2.07	2.56	3.03	3.52	4.06	4.70	5.53	6.82	8.02
August	2.79	2.56	1.09	0.65	0.92	1.32	1.69	2.05	2.44	2.87	3.38	4.06	5.13	6.14
September	3.05	3.44	0.88	0.93	1.22	1.65	2.02	2.38	2.76	3.17	3.65	4.27	5.25	6.15
October	3.08	2.24	1.38	0.63	0.91	1.36	1.77	2.19	2.64	3.14	3.75	4.55	5.84	7.06
November	4.33	2.89	1.50	1.14	1.55	2.18	2.73	3.27	3.84	4.47	5.22	6.19	7.71	9.12
December	4.62	3.93	1.17	1.56	2.00	2.63	3.18	3.69	4.23	4.81	5.49	6.36	7.70	8.92

Arkansas Southwest Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.60	2.11	2.17	0.87	1.29	1.96	2.58	3.21	3.89	4.67	5.60	6.84	8.82	10.71
February	4.20	3.12	1.35	1.19	1.58	2.19	2.71	3.23	3.76	4.36	5.06	5.96	7.39	8.72
March	4.70	4.57	1.03	1.75	2.19	2.82	3.35	3.85	4.36	4.91	5.55	6.37	7.63	8.78
April	5.50	4.38	1.26	2.00	2.51	3.26	3.88	4.48	5.09	5.71	6.52	7.50	9.02	10.41
May	5.65	4.42	1.28	2.06	2.59	3.36	4.00	4.61	5.23	5.91	6.69	7.70	9.25	10.66
June	3.91	1.93	2.02	0.66	1.00	1.57	2.11	2.66	3.25	3.93	4.75	5.85	7.61	9.27
July	3.95	3.81	1.04	1.30	1.68	2.23	2.70	3.15	3.61	4.12	4.71	5.47	6.65	7.73
August	3.06	2.09	1.47	0.57	0.85	1.29	1.71	2.13	2.59	3.10	3.73	4.56	5.89	7.16
September	3.49	2.35	1.48	0.75	1.07	1.58	2.05	2.51	3.01	3.57	4.24	5.13	6.54	7.88
October	3.36	2.09	1.61	0.63	0.93	1.42	1.88	2.34	2.84	3.41	4.09	5.00	6.46	7.85
November	4.27	2.21	1.93	0.85	1.24	1.87	2.44	3.02	3.64	4.35	5.19	6.31	8.11	9.81
December	4.36	2.90	1.50	1.15	1.56	2.19	2.75	3.29	3.86	4.50	5.25	6.22	7.75	9.16

TABLE 10 - Precipitation Probabilities for
Climatic Divisions

Arkansas South Central Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.25	3.15	1.67	1.49	1.99	2.74	3.40	4.04	4.71	5.44	6.31	7.45	9.22	10.87
February	4.62	3.72	1.24	1.50	1.94	2.59	3.14	3.67	4.22	4.82	5.52	6.42	7.83	9.12
March	5.12	7.98	0.64	2.54	2.97	3.56	4.03	4.46	4.90	5.36	5.88	6.53	7.50	8.35
April	5.42	4.52	1.20	2.01	2.52	3.24	3.85	4.43	5.02	5.67	6.41	7.37	8.83	10.17
May	4.87	5.35	0.91	2.00	2.44	3.07	3.59	4.08	4.57	5.10	5.72	6.50	7.69	8.77
June	3.55	2.42	1.46	0.79	1.12	1.64	2.11	2.58	3.08	3.64	4.31	5.19	6.60	7.93
July	4.12	3.12	1.32	1.16	1.55	2.14	2.66	3.16	3.69	4.27	4.95	5.84	7.24	8.54
August	2.86	2.27	1.26	0.59	0.85	1.27	1.65	2.04	2.45	2.92	3.48	4.22	5.40	6.52
September	2.99	2.71	1.11	0.74	1.02	1.46	1.85	2.23	2.63	3.08	3.62	4.32	5.42	6.45
October	3.09	1.48	2.09	0.35	0.59	1.02	1.46	1.92	2.43	3.03	3.78	4.79	6.47	8.09
November	4.77	2.69	1.78	1.18	1.62	2.32	2.94	3.55	4.19	4.91	5.77	6.89	8.66	10.32
December	4.97	3.76	1.32	1.62	2.09	2.79	3.38	3.95	4.53	5.18	5.93	6.89	8.39	9.76

Arkansas Southeast Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.73	3.19	1.79	1.65	2.19	3.01	3.73	4.42	5.15	5.95	6.89	8.12	10.03	11.82
February	4.82	4.70	1.02	1.83	2.28	2.92	3.45	3.96	4.48	5.04	5.69	6.52	7.78	8.94
March	5.51	8.73	0.63	2.84	3.29	3.91	4.40	4.85	5.30	5.77	6.31	6.98	7.98	8.87
April	5.06	4.56	1.11	1.89	2.36	3.04	3.61	4.14	4.70	5.29	5.99	6.87	8.23	9.47
May	4.55	3.66	1.24	1.46	1.89	2.53	3.07	3.60	4.14	4.74	5.44	6.34	7.73	9.02
June	3.34	1.96	1.71	0.58	0.87	1.36	1.81	2.28	2.79	3.36	4.06	4.99	6.48	7.88
July	4.40	3.13	1.41	1.25	1.66	2.30	2.85	3.38	3.95	4.57	5.30	6.25	7.74	9.13
August	2.83	2.90	0.98	0.75	1.01	1.42	1.78	2.14	2.51	2.92	3.41	4.04	5.03	5.95
September	3.06	2.44	1.25	0.68	0.97	1.42	1.82	2.22	2.65	3.14	3.71	4.47	5.68	6.82
October	2.83	1.58	1.78	0.36	0.59	0.99	1.38	1.80	2.26	2.79	3.45	4.34	5.81	7.22
November	4.42	2.95	1.50	1.19	1.60	2.24	2.80	3.35	3.92	4.56	5.31	6.29	7.82	9.22
December	5.21	3.51	1.48	1.61	2.11	2.84	3.48	4.09	4.72	5.42	6.23	7.29	8.93	10.45

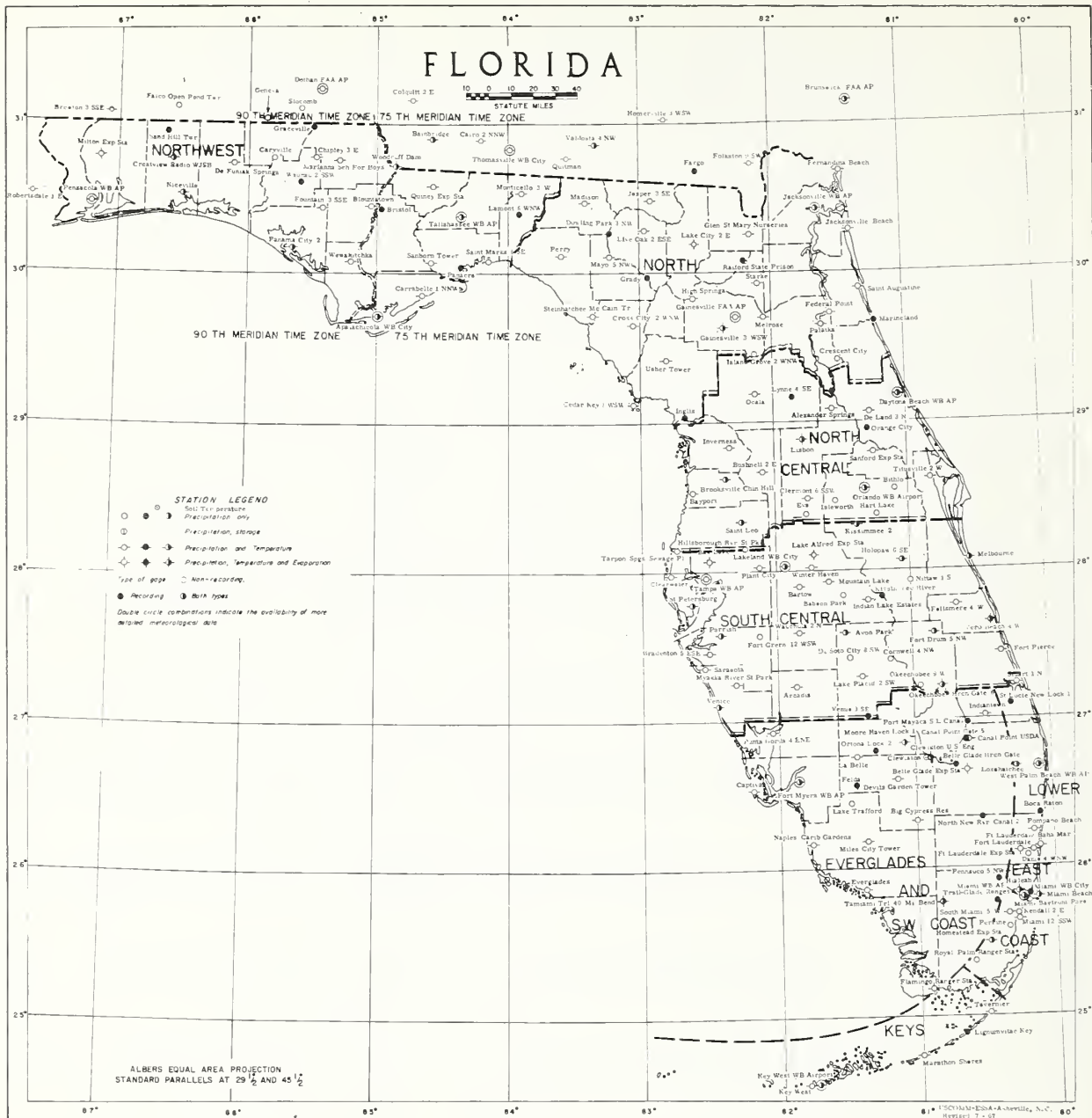


TABLE 11 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Lakeland, Florida														
Probabilities (Based on 37 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.17	1.49	1.46	0.25	0.42	0.72	1.03	1.35	1.71	2.13	2.66	3.37	4.54	5.68
February	2.68	1.41	1.91	0.28	0.48	0.85	1.22	1.63	2.08	2.61	3.27	4.17	5.67	7.13
March	3.95	2.67	1.48	0.97	1.34	1.91	2.42	2.93	3.46	4.06	4.77	5.70	7.17	8.55
April	3.09	1.05	2.94	0.18	0.36	0.73	1.15	1.63	2.18	2.86	3.73	4.95	7.03	9.10
May	3.40	2.28	1.49	0.71	1.02	1.52	1.97	2.43	2.92	3.47	4.13	5.01	6.41	7.74
June	7.05	5.83	1.21	3.02	3.66	4.55	5.27	5.96	6.64	7.38	8.23	9.30	10.92	12.38
July	7.82	6.89	1.13	3.64	4.33	5.27	6.03	6.73	7.44	8.20	9.06	10.14	11.76	13.21
August	7.30	7.81	0.93	3.60	4.22	5.06	5.74	6.36	6.99	7.65	8.41	9.35	10.76	12.02
September	6.22	4.16	1.49	2.18	2.77	3.62	4.34	5.02	5.73	6.49	7.39	8.53	10.30	11.93
October	2.59	1.52	1.70	0.31	0.51	0.88	1.24	1.62	2.05	2.55	3.16	4.00	5.37	6.70
November	1.56	0.77	2.02	0.04	0.09	0.24	0.43	0.66	0.96	1.33	1.83	2.55	3.82	5.12
December	1.89	1.37	1.39	0.19	0.33	0.59	0.85	1.13	1.46	1.84	2.31	2.96	4.04	5.09

Division--Florida South Central Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.09	1.78	1.18	0.32	0.49	0.80	1.09	1.39	1.71	2.09	2.55	3.17	4.17	5.12
February	2.64	1.83	1.44	0.42	0.64	1.02	1.39	1.76	2.17	2.64	3.22	3.98	5.22	6.40
March	3.59	2.28	1.58	0.74	1.07	1.60	2.08	2.57	3.08	3.67	4.37	5.30	6.78	8.19
April	3.38	2.70	1.25	0.84	1.15	1.65	2.08	2.52	2.97	3.48	4.09	4.88	6.13	7.30
May	3.54	3.87	0.91	1.18	1.51	2.01	2.42	2.82	3.23	3.68	4.21	4.88	5.92	6.87
June	7.27	6.05	1.20	3.18	3.83	4.74	5.48	6.18	6.88	7.63	8.49	9.57	11.22	12.72
July	8.14	15.42	0.53	5.06	5.62	6.37	6.94	7.46	7.97	8.50	9.09	9.82	10.89	11.83
August	7.63	11.72	0.65	4.37	4.95	5.72	6.32	6.87	7.41	7.98	8.62	9.41	10.58	11.60
September	7.79	9.41	0.83	4.13	4.76	5.61	6.29	6.90	7.51	8.16	8.90	9.81	11.17	12.38
October	4.14	3.16	1.31	1.18	1.57	2.17	2.68	3.19	3.71	4.29	4.98	5.87	7.26	8.56
November	1.77	1.69	1.05	0.25	0.39	0.65	0.89	1.15	1.43	1.76	2.16	2.69	3.57	4.41
December	1.86	1.89	0.99	0.31	0.47	0.74	0.99	1.25	1.54	1.87	2.26	2.79	3.65	4.45

TABLE 12 - Precipitation Probabilities for Climatic Divisions

Florida Northwest Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.79	3.32	1.14	1.13	1.49	2.03	2.49	2.95	3.42	3.94	4.55	5.34	6.58	7.73
February	4.12	3.84	1.07	1.37	1.76	2.33	2.81	3.28	3.76	4.29	4.90	5.69	6.91	8.02
March	5.54	3.68	1.51	1.78	2.31	3.09	3.75	4.39	5.05	5.77	6.62	7.71	9.41	10.97
April	4.92	3.40	1.45	1.49	1.96	2.65	3.26	3.84	4.45	5.11	5.90	6.91	8.50	9.96
May	4.16	4.64	0.90	1.57	1.96	2.51	2.98	3.42	3.87	4.35	4.92	5.64	6.74	7.75
June	5.31	4.53	1.17	1.97	2.47	3.18	3.78	4.35	4.93	5.56	6.29	7.22	8.65	9.97
July	7.96	10.92	0.73	4.45	5.07	5.89	6.54	7.13	7.71	8.33	9.02	9.87	11.13	12.23
August	7.09	6.64	1.07	3.25	3.87	4.74	5.43	6.09	6.74	7.44	8.24	9.24	10.76	12.13
September	6.15	3.65	1.68	1.97	2.55	3.41	4.15	4.86	5.60	6.40	7.35	8.56	10.45	12.19
October	2.60	1.46	1.78	0.29	0.49	0.85	1.21	1.60	2.03	2.54	3.17	4.03	5.45	6.82
November	2.92	1.51	1.93	0.35	0.58	0.99	1.39	1.82	2.31	2.87	3.56	4.51	6.06	7.57
December	3.85	3.00	1.29	1.05	1.41	1.97	2.45	2.93	3.43	3.98	4.63	5.47	6.79	7.99

Florida North Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.53	2.38	1.06	0.55	0.78	1.15	1.49	1.82	2.18	2.59	3.07	3.70	4.72	5.67
February	3.24	3.54	0.91	1.01	1.32	1.77	2.17	2.54	2.94	3.37	3.87	4.52	5.54	6.48
March	4.02	2.06	1.95	0.74	1.10	1.69	2.23	2.79	3.39	4.08	4.90	6.00	7.77	9.45
April	3.44	3.16	1.09	0.98	1.31	1.80	2.23	2.65	3.08	3.57	4.14	4.88	6.03	7.11
May	3.35	3.78	0.89	1.10	1.42	1.88	2.28	2.66	3.06	3.49	4.00	4.64	5.65	6.57
June	6.13	6.96	0.88	2.87	3.40	4.14	4.73	5.28	5.83	6.42	7.09	7.93	9.19	10.31
July	7.62	15.10	0.50	4.71	5.24	5.94	6.49	6.98	7.46	7.96	8.52	9.21	10.22	11.11
August	6.90	11.24	0.61	3.90	4.43	5.14	5.69	6.20	6.70	7.22	7.81	8.55	9.63	10.60
September	6.55	5.59	1.17	2.75	3.34	4.18	4.87	5.51	6.16	6.86	7.67	8.69	10.25	11.66
October	4.40	1.93	2.27	0.75	1.13	1.77	2.37	2.99	3.66	4.42	5.35	6.58	8.56	10.42
November	1.95	1.85	1.05	0.31	0.48	0.76	1.03	1.30	1.61	1.95	2.37	2.93	3.84	4.70
December	2.52	1.50	1.68	0.29	0.49	0.84	1.19	1.57	1.98	2.47	3.07	3.89	5.24	6.55

TABLE 13 - Precipitation Probabilities for Climatic Divisions

Florida North Central Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.10	2.09	1.01	0.39	0.58	0.89	1.18	1.47	1.78	2.13	2.56	3.13	4.05	4.92
February	2.72	1.89	1.44	0.45	0.68	1.08	1.45	1.84	2.25	2.73	3.31	4.09	5.33	6.51
March	3.92	2.10	1.87	0.74	1.09	1.67	2.20	2.74	3.32	3.98	4.78	5.84	7.54	9.16
April	3.39	3.54	0.96	1.06	1.38	1.86	2.27	2.66	3.07	3.53	4.06	4.74	5.80	6.78
May	3.40	4.23	0.80	1.21	1.53	1.99	2.38	2.75	3.13	3.55	4.03	4.65	5.61	6.49
June	7.07	6.91	1.02	3.30	3.91	4.76	5.45	6.09	6.73	7.41	8.19	9.16	10.63	11.93
July	8.16	12.43	0.66	4.76	5.37	6.17	6.81	7.38	7.94	8.53	9.19	10.01	11.23	12.30
August	7.12	11.01	0.65	3.99	4.54	5.28	5.86	6.38	6.90	7.45	8.07	8.83	9.97	10.98
September	7.21	6.75	1.07	3.33	3.96	4.83	5.54	6.20	6.86	7.56	8.37	9.38	10.91	12.28
October	4.27	2.96	1.44	1.15	1.56	2.17	2.71	3.24	3.80	4.41	5.14	6.08	7.55	8.90
November	1.85	1.49	1.24	0.22	0.36	0.62	0.88	1.15	1.46	1.82	2.26	2.87	3.87	4.83
December	2.03	1.84	1.10	0.32	0.50	0.79	1.07	1.36	1.68	2.04	2.48	3.07	4.01	4.92

Florida Everglades and SW Coast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.63	1.45	1.13	0.18	0.31	0.53	0.76	1.01	1.28	1.60	2.00	2.54	3.43	4.30
February	1.91	1.68	1.14	0.27	0.43	0.70	0.97	1.24	1.55	1.90	2.34	2.92	3.87	4.79
March	2.65	1.48	1.80	0.30	0.51	0.88	1.25	1.64	2.08	2.60	3.24	4.11	5.55	6.94
April	2.98	2.86	1.04	0.78	1.06	1.49	1.87	2.24	2.64	3.07	3.59	4.26	5.32	6.30
May	4.32	4.63	0.93	1.63	2.03	2.61	3.09	3.54	4.01	4.52	5.10	5.85	7.00	8.05
June	8.29	6.73	1.23	3.82	4.55	5.56	6.37	7.12	7.88	8.70	9.62	10.79	12.55	14.12
July	8.18	17.12	0.48	5.22	5.77	6.48	7.04	7.53	8.02	8.52	9.09	9.78	10.79	11.68
August	7.47	18.22	0.41	4.84	5.33	5.97	6.46	6.90	7.33	7.78	8.28	8.89	9.78	10.56
September	8.47	9.35	0.91	4.48	5.17	6.10	6.83	7.50	8.17	8.88	9.68	10.67	12.16	13.48
October	4.39	2.69	1.63	1.08	1.49	2.14	2.70	3.27	3.86	4.52	5.31	6.34	7.97	9.49
November	1.53	1.96	0.78	0.26	0.40	0.62	0.83	1.04	1.27	1.54	1.86	2.28	2.96	3.60
December	1.42	1.50	0.94	0.17	0.28	0.48	0.67	0.88	1.12	1.39	1.73	2.19	2.95	3.69

TABLE 14 - Precipitation Probabilities for Climatic Divisions

Florida Lower East Coast Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.16	1.93	1.12	0.37	0.55	0.87	1.17	1.47	1.80	2.18	2.63	3.24	4.22	5.14
February	2.02	2.11	0.96	0.38	0.56	0.86	1.14	1.41	1.71	2.05	2.46	3.01	3.89	4.72
March	2.82	2.18	1.30	0.56	0.81	1.22	1.60	1.99	2.40	2.87	3.43	4.18	5.38	6.51
April	3.90	2.27	1.72	0.80	1.16	1.73	2.26	2.78	3.35	3.98	4.75	5.76	7.37	8.90
May	5.49	2.91	1.89	1.46	1.97	2.77	3.47	4.15	4.87	5.67	6.61	7.84	9.76	11.53
June	7.43	3.15	2.36	2.11	2.82	3.89	4.81	5.72	6.66	7.71	8.94	10.54	13.05	15.38
July	6.65	5.60	1.19	2.79	3.40	4.24	4.94	5.59	6.26	6.97	7.79	8.82	10.40	11.83
August	6.82	6.21	1.10	3.02	3.63	4.48	5.17	5.81	6.46	7.16	7.95	8.96	10.48	11.86
September	9.47	5.89	1.61	4.08	4.93	6.12	7.10	8.01	8.93	9.91	11.04	12.47	14.63	16.56
October	8.15	5.72	1.43	3.46	4.20	5.23	6.08	6.88	7.68	8.54	9.54	10.79	12.70	14.42
November	2.84	2.18	1.30	0.56	0.82	1.23	1.62	2.01	2.42	2.89	3.46	4.21	5.42	6.56
December	2.17	1.96	1.11	0.37	0.56	0.88	1.18	1.48	1.81	2.19	2.64	3.24	4.21	5.12

Florida Keys Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.71	1.51	1.13	0.20	0.34	0.58	0.82	1.07	1.35	1.68	2.09	2.64	3.56	4.44
February	1.88	0.95	1.98	0.08	0.18	0.39	0.64	0.93	1.27	1.70	2.25	3.03	4.38	5.73
March	1.92	1.50	1.28	0.23	0.37	0.64	0.91	1.20	1.52	1.89	2.35	2.97	4.00	5.00
April	2.29	1.58	1.45	0.29	0.47	0.80	1.11	1.45	1.82	2.26	2.79	3.51	4.70	5.85
May	3.10	1.76	1.76	0.47	0.73	1.17	1.60	2.05	2.53	3.09	3.78	4.70	6.19	7.61
June	4.33	2.49	1.74	0.99	1.39	2.03	2.60	3.17	3.77	4.45	5.26	6.32	8.01	9.60
July	4.54	4.35	1.04	1.64	2.07	2.68	3.20	3.69	4.20	4.74	5.38	6.20	7.45	8.60
August	4.68	5.43	0.86	1.93	2.36	2.96	3.46	3.92	4.40	4.90	5.49	6.23	7.36	8.39
September	7.05	5.06	1.39	2.80	3.45	4.37	5.13	5.85	6.59	7.38	8.30	9.46	11.24	12.86
October	6.73	3.32	2.03	2.00	2.64	3.60	4.43	5.23	6.07	6.99	8.08	9.49	11.69	13.73
November	2.43	1.52	1.60	0.29	0.48	0.82	1.16	1.52	1.92	2.38	2.96	3.75	5.04	6.29
December	1.88	1.63	1.15	0.25	0.40	0.67	0.93	1.21	1.51	1.86	2.29	2.88	3.83	4.75

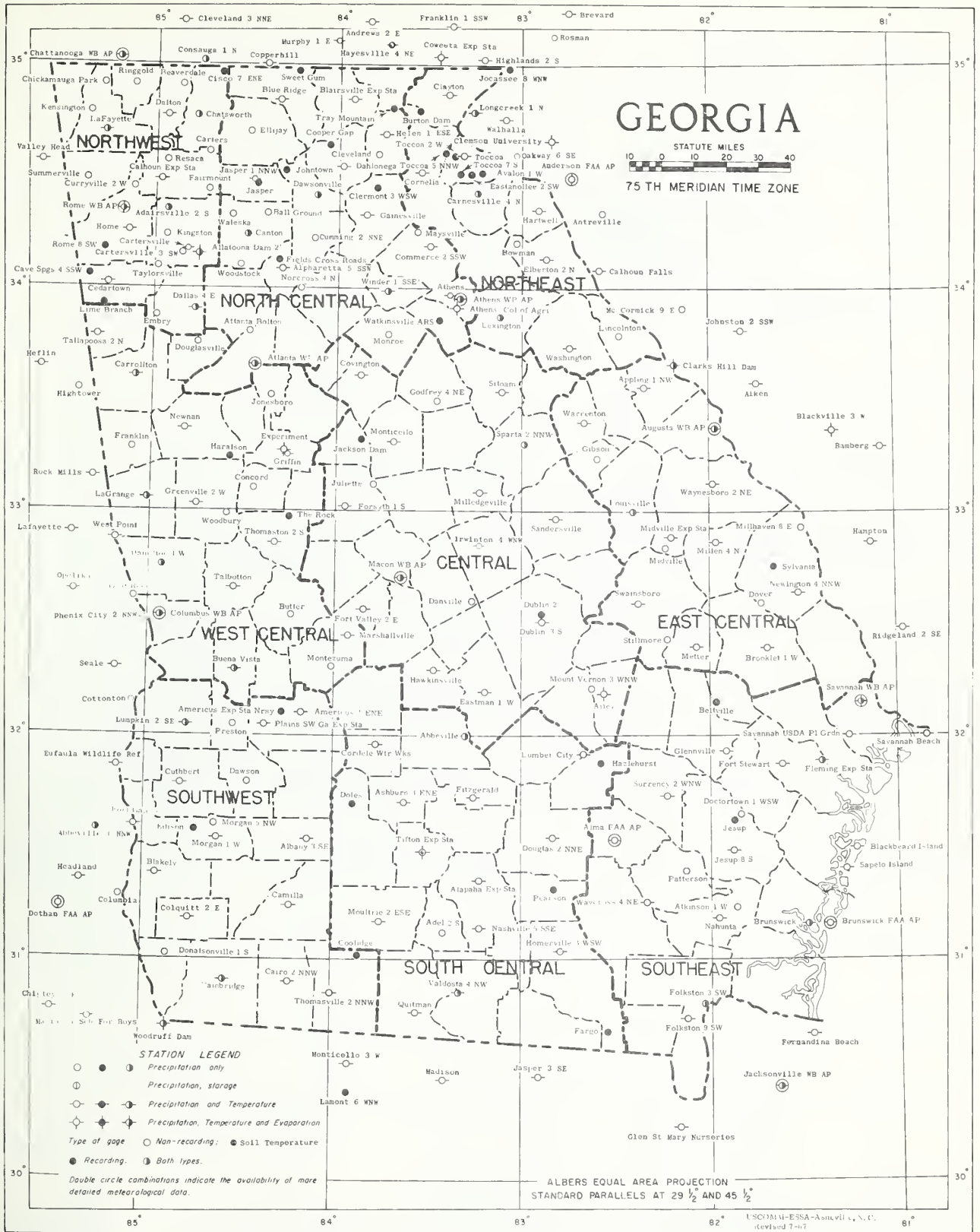


TABLE 15 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Atlanta, Georgia														
Month	Mean Inches	Gamma	Beta	Probabilities (based on 37 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.48	4.19	1.07	1.58	2.00	2.62	3.13	3.62	4.13	4.68	5.32	6.14	7.41	8.58
February	4.72	4.25	1.11	1.68	2.13	2.77	3.31	3.83	4.36	4.93	5.61	6.47	7.79	9.01
March	5.52	7.86	0.70	2.72	3.19	3.83	4.34	4.81	5.28	5.78	6.35	7.06	8.12	9.07
April	4.59	4.13	1.11	1.60	2.04	2.67	3.20	3.70	4.22	4.79	5.46	6.30	7.61	8.82
May	3.21	2.49	1.29	0.73	1.03	1.50	1.93	2.35	2.79	3.30	3.90	4.68	5.94	7.12
June	4.04	3.16	1.28	1.15	1.53	2.11	2.62	3.11	3.62	4.19	4.86	5.72	7.09	8.35
July	4.83	3.97	1.22	1.64	2.10	2.76	3.33	3.87	4.42	5.03	5.74	6.64	8.03	9.29
August	3.61	2.68	1.34	0.89	1.23	1.75	2.22	2.68	3.17	3.71	4.36	5.21	6.55	7.80
September	3.15	3.00	1.05	0.86	1.16	1.61	2.01	2.40	2.80	3.25	3.79	4.48	5.55	6.54
October	2.51	0.85	2.97	0.08	0.19	0.45	0.77	1.15	1.62	2.21	2.98	4.09	6.03	7.99
November	3.16	1.79	1.76	0.48	0.75	1.21	1.64	2.10	2.59	3.16	3.85	4.78	6.28	7.71
December	4.52	3.05	1.48	1.25	1.68	2.33	2.90	3.46	4.04	4.69	5.45	6.44	8.00	9.45

Division--Georgia North Central Division

Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.08	4.74	1.07	1.94	2.41	3.09	3.65	4.18	4.73	5.31	6.00	6.86	8.19	9.40
February	5.01	4.48	1.12	1.85	2.32	2.99	3.56	4.09	4.64	5.24	5.94	6.82	8.19	9.43
March	5.89	8.63	0.68	3.02	3.51	4.17	4.70	5.18	5.66	6.17	6.75	7.47	8.55	9.51
April	4.96	4.54	1.09	1.84	2.31	2.97	3.53	4.06	4.60	5.19	5.87	6.74	8.08	9.30
May	3.57	4.24	0.84	1.27	1.61	2.09	2.50	2.89	3.29	3.73	4.24	4.89	5.89	6.81
June	4.09	5.83	0.70	1.75	2.12	2.64	3.06	3.45	3.85	4.28	4.77	5.39	6.33	7.18
July	5.18	5.94	0.87	2.24	2.71	3.36	3.89	4.38	4.88	5.42	6.04	6.81	7.98	9.02
August	3.94	4.58	0.86	1.47	1.84	2.37	2.81	3.23	3.66	4.12	4.66	5.35	6.40	7.37
September	3.30	3.31	1.00	0.98	1.29	1.76	2.17	2.56	2.97	3.42	3.96	4.65	5.73	6.73
October	3.00	1.07	2.79	0.18	0.36	0.73	1.14	1.60	2.14	2.79	3.63	4.80	6.79	8.77
November	3.35	2.46	1.36	0.76	1.07	1.56	2.00	2.44	2.91	3.44	4.07	4.89	6.21	7.45
December	4.96	3.24	1.53	1.44	1.92	2.62	3.24	3.84	4.46	5.15	5.96	7.01	8.65	10.18

TABLE 16 - Precipitation Probabilities for Climatic Divisions

Georgia Northwest Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)									0.95	
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80		0.90
January	5.24	4.86	1.08	2.03	2.51	3.21	3.78	4.32	4.88	5.48	6.17	7.05	8.39	9.60
February	4.49	2.07	2.17	0.83	1.23	1.89	2.50	3.12	3.79	4.55	5.48	6.70	8.67	10.55
March	6.04	8.78	0.69	3.12	3.62	4.29	4.83	5.32	5.81	6.33	6.92	7.65	8.75	9.72
April	4.82	5.37	0.90	1.98	2.42	3.04	3.55	4.04	4.52	5.05	5.66	6.43	7.60	8.67
May	3.60	4.63	0.78	1.35	1.69	2.17	2.57	2.95	3.34	3.76	4.25	4.88	5.83	6.71
June	3.99	6.39	0.62	1.79	2.15	2.64	3.04	3.41	3.78	4.18	4.64	5.22	6.10	6.89
July	4.74	4.65	1.02	1.79	2.23	2.86	3.39	3.89	4.41	4.96	5.60	6.42	7.68	8.83
August	4.04	5.04	0.80	1.60	1.97	2.50	2.94	3.36	3.78	4.24	4.76	5.43	6.45	7.39
September	3.27	2.27	1.44	0.68	0.98	1.45	1.89	2.33	2.80	3.34	3.98	4.82	6.17	7.45
October	2.81	1.62	1.73	0.37	0.60	1.00	1.40	1.81	2.26	2.79	3.44	4.31	5.74	7.13
November	3.51	2.45	1.43	0.79	1.11	1.63	2.09	2.55	3.04	3.60	4.26	5.13	6.51	7.82
December	5.03	2.95	1.70	1.35	1.82	2.55	3.19	3.81	4.46	5.19	6.04	7.16	8.89	10.49

Georgia Northeast Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)									0.95	
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80		0.90
January	5.24	4.64	1.13	1.97	2.46	3.17	3.75	4.31	4.87	5.49	6.20	7.11	8.50	9.77
February	4.70	1.23	3.82	0.38	0.70	1.32	1.97	2.69	3.51	4.48	5.72	7.42	10.28	13.09
March	6.03	8.02	0.75	3.01	3.51	4.21	4.76	5.27	5.78	6.33	6.94	7.72	8.87	9.91
April	4.96	4.61	1.07	1.86	2.32	2.99	3.54	4.07	4.60	5.19	5.86	6.72	8.04	9.25
May	3.59	4.44	0.81	1.31	1.65	2.13	2.54	2.93	3.32	3.75	4.25	4.89	5.87	6.77
June	4.35	6.48	0.67	1.97	2.36	2.89	3.32	3.73	4.13	4.57	5.06	5.69	6.64	7.49
July	5.38	5.87	0.92	2.31	2.80	3.47	4.03	4.55	5.07	5.63	6.28	7.09	8.32	9.42
August	4.68	4.52	1.03	1.73	2.17	2.80	3.33	3.82	4.34	4.89	5.53	6.36	7.62	8.77
September	3.70	2.68	1.38	0.91	1.25	1.79	2.27	2.75	3.25	3.81	4.47	5.34	6.72	8.00
October	3.25	1.40	2.32	0.34	0.58	1.03	1.48	1.97	2.52	3.16	3.97	5.06	6.88	8.66
November	3.62	2.66	1.36	0.88	1.22	1.75	2.22	2.68	3.18	3.72	4.38	5.23	6.58	7.85
December	5.11	3.13	1.63	1.45	1.93	2.66	3.30	3.93	4.58	5.30	6.14	7.25	8.98	10.59

TABLE 17 - Precipitation Probabilities for Climatic Divisions

Georgia West Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.58	4.36	1.05	1.66	2.09	2.71	3.23	3.73	4.23	4.79	5.43	6.25	7.51	8.67
February	4.65	4.95	0.94	1.82	2.25	2.86	3.37	3.85	4.34	4.87	5.47	6.25	7.42	8.48
March	5.99	8.39	0.71	3.04	3.54	4.22	4.76	5.26	5.76	6.28	6.88	7.63	8.75	9.75
April	4.90	4.59	1.07	1.83	2.29	2.95	3.50	4.02	4.55	5.12	5.79	6.65	7.96	9.15
May	3.34	3.20	1.04	0.96	1.28	1.76	2.17	2.57	3.00	3.46	4.01	4.72	5.83	6.87
June	4.11	9.04	0.45	2.15	2.48	2.94	3.30	3.63	3.96	4.31	4.70	5.19	5.93	6.58
July	5.60	10.14	0.55	3.05	3.50	4.09	4.56	4.99	5.41	5.86	6.37	7.00	7.93	8.77
August	4.16	8.30	0.50	2.10	2.45	2.92	3.30	3.64	3.99	4.36	4.78	5.30	6.08	6.78
September	3.34	3.67	0.91	1.07	1.39	1.86	2.26	2.64	3.04	3.48	3.99	4.65	5.68	6.62
October	2.29	1.04	2.21	0.13	0.26	0.53	0.84	1.20	1.61	2.12	2.77	3.68	5.23	6.78
November	2.92	2.12	1.38	0.56	0.82	1.25	1.64	2.05	2.48	2.97	3.56	4.34	5.60	6.80
December	4.63	3.19	1.45	1.33	1.77	2.44	3.01	3.57	4.16	4.80	5.57	6.56	8.10	9.55

Georgia Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.15	3.58	1.16	1.31	1.70	2.29	2.79	3.27	3.77	4.32	4.97	5.80	7.09	8.28
February	4.51	3.87	1.16	1.50	1.93	2.56	3.09	3.60	4.12	4.70	5.37	6.23	7.55	8.76
March	5.18	5.91	0.88	2.24	2.70	3.35	3.88	4.38	4.88	5.42	6.04	6.82	8.00	9.05
April	4.30	4.10	1.05	1.49	1.90	2.49	2.99	3.47	3.96	4.49	5.11	5.91	7.14	8.28
May	3.49	3.31	1.06	1.03	1.37	1.86	2.29	2.71	3.15	3.63	4.19	4.93	6.07	7.13
June	3.88	8.14	0.48	1.94	2.27	2.71	3.07	3.40	3.72	4.07	4.46	4.95	5.69	6.35
July	5.33	13.84	0.38	3.21	3.59	4.10	4.49	4.85	5.20	5.56	5.97	6.47	7.21	7.86
August	4.10	7.74	0.53	2.01	2.36	2.84	3.22	3.57	3.92	4.30	4.73	5.26	6.06	6.77
September	3.36	3.90	0.86	1.13	1.45	1.91	2.31	2.69	3.08	3.50	4.00	4.64	5.62	6.52
October	2.34	1.27	1.84	0.20	0.36	0.67	1.00	1.35	1.76	2.24	2.85	3.68	5.06	6.45
November	2.48	1.86	1.34	0.40	0.61	0.97	1.32	1.67	2.05	2.49	3.03	3.74	4.89	5.99
December	4.11	3.22	1.28	1.19	1.58	2.17	2.68	3.18	3.70	4.27	4.94	5.82	7.19	8.46

TABLE 18 - Precipitation Probabilities for Climatic Divisions

Georgia East Central Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.38	3.68	0.92	1.09	1.41	1.88	2.28	2.67	3.08	3.52	4.03	4.70	5.73	6.68
February	4.06	3.77	1.08	1.33	1.71	2.28	2.76	3.22	3.70	4.23	4.84	5.63	6.85	7.96
March	4.48	4.12	1.09	1.56	1.98	2.60	3.11	3.61	4.12	4.67	5.32	6.15	7.43	8.61
April	3.82	4.08	0.94	1.32	1.69	2.21	2.66	3.08	3.52	3.99	4.55	5.26	6.36	7.38
May	3.33	3.27	1.02	0.98	1.29	1.77	2.18	2.58	3.00	3.46	4.00	4.70	5.80	6.82
June	3.94	5.98	0.66	1.71	2.07	2.56	2.96	3.34	3.72	4.13	4.59	5.18	6.07	6.86
July	4.98	9.11	0.55	2.61	3.02	3.56	4.00	4.40	4.80	5.22	5.70	6.29	7.18	7.97
August	4.59	5.21	0.88	1.85	2.27	2.87	3.36	3.82	4.30	4.80	5.39	6.13	7.27	8.31
September	3.82	3.92	0.97	1.28	1.65	2.17	2.62	3.05	3.49	3.97	4.54	5.26	6.37	7.38
October	2.51	1.03	2.44	0.14	0.28	0.58	0.92	1.31	1.76	2.32	3.03	4.04	5.75	7.46
November	2.21	1.78	1.24	0.34	0.52	0.84	1.15	1.46	1.81	2.21	2.69	3.34	4.40	5.41
December	3.46	3.09	1.12	0.97	1.30	1.80	2.23	2.65	3.10	3.59	4.17	4.92	6.11	7.21

Georgia Southwest Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.03	3.58	1.12	1.27	1.65	2.22	2.71	3.18	3.66	4.20	4.82	5.63	6.88	8.04
February	4.49	3.95	1.14	1.52	1.94	2.57	3.09	3.60	4.11	4.68	5.34	6.19	7.49	8.66
March	5.31	4.17	1.27	1.87	2.37	3.10	3.71	4.29	4.89	5.55	6.31	7.29	8.80	10.19
April	4.77	4.29	1.11	1.71	2.16	2.81	3.35	3.87	4.41	4.99	5.66	6.52	7.86	9.08
May	3.58	3.63	0.99	1.14	1.48	1.98	2.41	2.83	3.25	3.72	4.28	4.99	6.09	7.11
June	4.70	6.80	0.69	2.18	2.59	3.16	3.62	4.04	4.47	4.93	5.45	6.11	7.09	7.98
July	6.27	18.39	0.34	4.07	4.49	5.02	5.43	5.80	6.16	6.53	6.95	7.46	8.20	8.85
August	5.20	10.49	0.50	2.87	3.28	3.83	4.26	4.65	5.04	5.45	5.91	6.49	7.34	8.10
September	4.22	3.85	1.10	1.40	1.80	2.39	2.88	3.36	3.85	4.39	5.02	5.83	7.08	8.22
October	2.11	0.86	2.44	0.07	0.17	0.39	0.66	0.98	1.38	1.87	2.51	3.44	5.04	6.66
November	2.54	1.38	1.83	0.26	0.45	0.79	1.15	1.53	1.96	2.46	3.09	3.96	5.39	6.78
December	4.14	2.87	1.44	1.08	1.48	2.08	2.60	3.12	3.67	4.28	4.99	5.93	7.39	8.75

TABLE 19 - Precipitation Probabilities for Climatic Divisions

Georgia South Central Division

Probabilities (based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.44	3.73	0.92	1.12	1.44	1.92	2.33	2.73	3.14	3.58	4.10	4.78	5.82	6.77
February	4.07	3.25	1.25	1.19	1.57	2.15	2.66	3.15	3.66	4.22	4.88	5.74	7.09	8.34
March	4.71	3.40	1.38	1.43	1.87	2.54	3.12	3.68	4.26	4.89	5.65	6.61	8.13	9.53
April	4.18	3.75	1.12	1.36	1.76	2.34	2.84	3.32	3.82	4.36	4.99	5.81	7.07	8.23
May	3.40	4.12	0.83	1.19	1.51	1.97	2.37	2.74	3.13	3.55	4.04	4.67	5.65	6.54
June	4.71	7.02	0.67	2.21	2.62	3.19	3.64	4.07	4.49	4.94	5.46	6.11	7.08	7.96
July	6.20	10.16	0.61	3.38	3.87	4.53	5.05	5.53	6.00	6.49	7.05	7.75	8.79	9.71
August	5.41	10.57	0.51	2.99	3.41	3.98	4.43	4.83	5.24	5.66	6.14	6.73	7.61	8.40
September	4.13	4.10	1.01	1.44	1.83	2.40	2.87	3.33	3.80	4.32	4.92	5.68	6.87	7.96
October	2.27	0.86	2.64	0.08	0.18	0.41	0.70	1.05	1.47	2.00	2.70	3.69	5.42	7.17
November	1.98	1.54	1.29	0.24	0.40	0.68	0.95	1.25	1.57	1.95	2.42	3.06	4.10	5.11
December	3.38	2.51	1.35	0.78	1.09	1.58	2.03	2.47	2.94	3.47	4.10	4.92	6.24	7.47

Georgia Southeast Division

Probabilities (based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.71	2.72	1.00	0.68	0.93	1.33	1.68	2.02	2.39	2.79	3.28	3.91	4.91	5.84
February	3.36	3.02	1.11	0.92	1.24	1.73	2.15	2.57	3.00	3.48	4.05	4.79	5.96	7.04
March	3.95	2.41	1.64	0.87	1.24	1.82	2.34	2.86	3.42	4.05	4.80	5.79	7.37	8.85
April	3.26	3.84	0.85	1.08	1.39	1.84	2.23	2.60	2.98	3.40	3.88	4.51	5.47	6.36
May	3.28	3.29	1.00	0.97	1.28	1.75	2.15	2.54	2.95	3.40	3.94	4.62	5.70	6.70
June	5.36	6.20	0.87	2.38	2.85	3.52	4.06	4.57	5.08	5.63	6.25	7.04	8.24	9.33
July	6.93	9.65	0.72	3.71	4.27	5.02	5.61	6.16	6.69	7.26	7.91	8.70	9.90	10.95
August	6.25	9.37	0.67	3.31	3.82	4.50	5.04	5.54	6.03	6.55	7.14	7.87	8.97	9.94
September	6.24	3.78	1.65	2.05	2.64	3.51	4.25	4.96	5.70	6.50	7.45	8.65	10.52	12.24
October	3.09	1.20	2.58	0.24	0.44	0.84	1.27	1.74	2.28	2.93	3.75	4.89	6.80	8.68
November	1.79	2.27	0.79	0.37	0.53	0.80	1.03	1.28	1.53	1.82	2.17	2.63	3.37	4.07
December	2.76	2.09	1.32	0.52	0.77	1.17	1.54	1.92	2.33	2.80	3.36	4.11	5.30	6.45

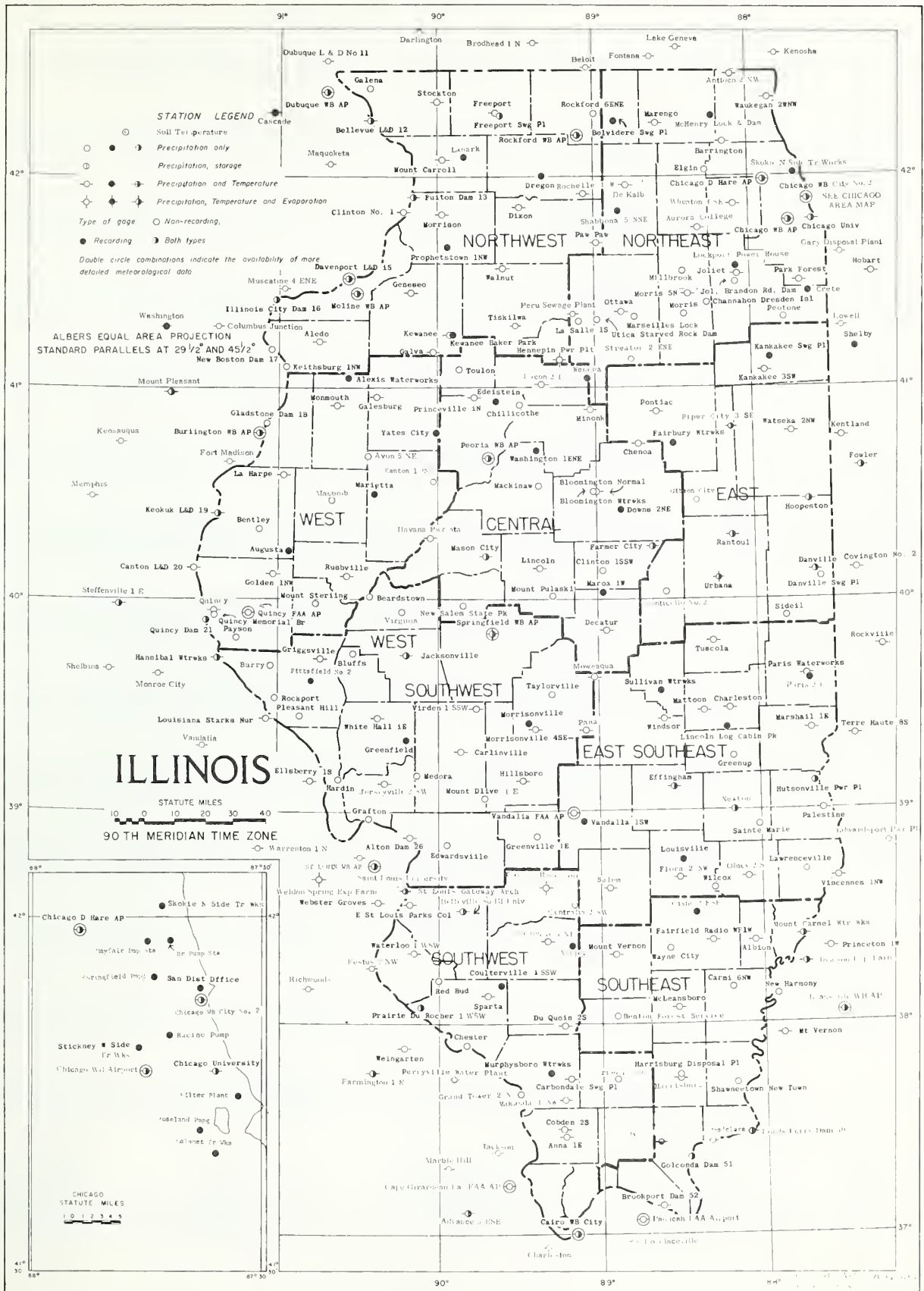


TABLE 20 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Peoria, Illinois														
Probabilities (Based on 37 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.92	2.07	0.93	0.36	0.53	0.81	1.07	1.33	1.62	1.95	2.34	2.86	3.70	4.50
February	1.60	2.87	0.56	0.42	0.57	0.80	1.01	1.21	1.42	1.65	1.93	2.29	2.86	3.39
March	2.91	4.12	0.70	1.01	1.29	1.69	2.02	2.35	2.68	3.04	3.46	3.99	4.83	5.59
April	4.01	4.05	0.99	1.38	1.76	2.32	2.78	3.23	3.69	4.19	4.78	5.53	6.69	7.75
May	4.04	3.23	1.25	1.17	1.56	2.13	2.63	3.12	3.63	4.19	4.85	5.71	7.05	8.29
June	3.75	2.93	1.28	1.00	1.36	1.90	2.37	2.84	3.33	3.87	4.52	5.35	6.66	7.86
July	3.58	2.65	1.35	0.87	1.20	1.73	2.19	2.65	3.14	3.68	4.33	5.18	6.52	7.78
August	2.94	3.61	0.81	0.93	1.21	1.62	1.98	2.32	2.67	3.06	3.51	4.10	5.01	5.84
September	3.38	1.95	1.73	0.58	0.88	1.37	1.83	2.31	2.82	3.40	4.11	5.05	6.57	7.99
October	2.45	1.69	1.45	0.35	0.55	0.90	1.24	1.60	1.99	2.44	2.99	3.74	4.95	6.11
November	2.13	2.72	0.78	0.53	0.73	1.04	1.32	1.59	1.87	2.19	2.57	3.07	3.85	4.58
December	1.93	2.51	0.77	0.44	0.62	0.90	1.16	1.41	1.68	1.98	2.33	2.80	3.55	4.25

Division--Illinois Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.97	2.42	0.81	0.44	0.62	0.91	1.17	1.43	1.70	2.02	2.39	2.88	3.66	4.40
February	1.68	3.18	0.53	0.48	0.64	0.88	1.09	1.29	1.50	1.74	2.02	2.38	2.94	3.46
March	2.89	4.96	0.58	1.13	1.40	1.78	2.10	2.39	2.70	3.02	3.40	3.88	4.61	5.26
April	3.84	4.49	0.86	1.42	1.78	2.29	2.73	3.14	3.56	4.02	4.55	5.22	6.27	7.22
May	3.93	3.80	1.03	1.29	1.67	2.21	2.68	3.13	3.59	4.09	4.68	5.44	6.62	7.69
June	4.02	3.50	1.15	1.25	1.63	2.20	2.68	3.16	3.64	4.18	4.81	5.63	6.90	8.07
July	3.45	4.25	0.81	1.23	1.55	2.02	2.42	2.80	3.18	3.61	4.10	4.72	5.69	6.58
August	3.25	6.52	0.50	1.47	1.76	2.16	2.48	2.78	3.08	3.40	3.77	4.24	4.94	5.58
September	3.27	2.18	1.50	0.64	0.94	1.42	1.86	2.31	2.79	3.33	3.99	4.85	6.24	7.56
October	2.55	2.22	1.15	0.51	0.74	1.12	1.46	1.81	2.18	2.60	3.10	3.77	4.84	5.86
November	2.28	3.21	0.71	0.66	0.87	1.20	1.48	1.76	2.05	2.36	2.74	3.22	3.98	4.69
December	1.90	3.00	0.63	0.52	0.70	0.97	1.21	1.45	1.69	1.96	2.29	2.70	3.35	3.95

TABLE 21 - Precipitation Probabilities for Climatic Divisions

Illinois Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.72	3.01	0.57	0.47	0.64	0.88	1.10	1.31	1.54	1.79	2.08	2.46	3.06	3.61
February	1.30	3.87	0.34	0.44	0.56	0.74	0.89	1.04	1.19	1.36	1.55	1.80	2.19	2.54
March	2.45	4.22	0.58	0.87	1.10	1.43	1.72	1.98	2.26	2.56	2.91	3.36	4.05	4.68
April	3.29	4.26	0.77	1.17	1.48	1.93	2.30	2.66	3.03	3.43	3.90	4.50	5.42	6.27
May	3.81	5.07	0.75	1.51	1.87	2.37	2.78	3.17	3.56	3.99	4.49	5.12	6.08	6.95
June	4.22	7.26	0.58	2.01	2.38	2.88	3.28	3.66	4.03	4.43	4.88	5.45	6.31	7.09
July	3.89	5.35	0.73	1.60	1.95	2.46	2.87	3.26	3.65	4.08	4.57	5.19	6.15	7.01
August	3.63	7.12	0.51	1.72	2.03	2.47	2.82	3.14	3.47	3.81	4.21	4.70	5.45	6.13
September	3.54	2.36	1.50	0.76	1.09	1.61	2.08	2.55	3.06	3.63	4.31	5.20	6.64	7.99
October	2.53	1.50	1.69	0.30	0.49	0.85	1.20	1.57	1.99	2.48	3.09	3.91	5.27	6.59
November	2.22	2.70	0.82	0.55	0.76	1.08	1.37	1.66	1.96	2.29	2.69	3.21	4.03	4.80
December	1.69	3.14	0.54	0.48	0.64	0.88	1.10	1.30	1.52	1.76	2.04	2.40	2.98	3.51

Illinois Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.86	3.23	0.58	0.54	0.71	0.98	1.21	1.43	1.67	1.93	2.23	2.62	3.24	3.81
February	1.48	3.53	0.42	0.46	0.60	0.81	0.99	1.16	1.34	1.54	1.77	2.07	2.54	2.97
March	2.57	4.12	0.62	0.90	1.14	1.49	1.79	2.07	2.36	2.68	3.05	3.53	4.27	4.94
April	3.28	4.70	0.70	1.25	1.55	1.99	2.35	2.70	3.05	3.43	3.87	4.44	5.30	6.09
May	3.64	4.96	0.73	1.43	1.76	2.24	2.64	3.01	3.39	3.80	4.28	4.88	5.80	6.62
June	3.80	8.78	0.43	1.96	2.28	2.70	3.04	3.35	3.66	3.98	4.35	4.81	5.50	6.11
July	3.45	4.23	0.81	1.22	1.55	2.02	2.41	2.79	3.18	3.60	4.09	4.72	5.69	6.58
August	3.38	6.18	0.55	1.49	1.79	2.21	2.55	2.87	3.20	3.54	3.93	4.43	5.19	5.87
September	3.29	2.10	1.57	0.62	0.92	1.40	1.84	2.30	2.79	3.34	4.01	4.90	6.33	7.68
October	2.50	1.83	1.37	0.39	0.61	0.97	1.31	1.67	2.06	2.50	3.05	3.77	4.95	6.07
November	2.10	3.64	0.58	0.67	0.87	1.17	1.42	1.66	1.91	2.19	2.51	2.93	3.58	4.17
December	1.80	3.00	0.60	0.49	0.66	0.92	1.15	1.37	1.61	1.87	2.17	2.57	3.20	3.78

TABLE 22 - Precipitation Probabilities for Climatic Divisions

Illinois West Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.85	2.18	0.85	0.36	0.53	0.80	1.05	1.30	1.58	1.88	2.25	2.74	3.52	4.27
February	1.50	3.50	0.43	0.46	0.61	0.82	1.00	1.17	1.36	1.56	1.79	2.10	2.57	3.01
March	2.84	3.28	0.87	0.84	1.11	1.51	1.86	2.20	2.56	2.95	3.42	4.01	4.95	5.82
April	3.60	4.83	0.75	1.39	1.72	2.20	2.60	2.97	3.35	3.77	4.25	4.85	5.78	6.62
May	4.03	4.24	0.95	1.43	1.81	2.36	2.83	3.27	3.72	4.21	4.79	5.52	6.66	7.70
June	4.65	4.60	1.01	1.74	2.18	2.80	3.32	3.81	4.32	4.87	5.50	6.31	7.55	8.69
July	3.78	3.29	1.15	1.11	1.47	2.01	2.48	2.93	3.41	3.93	4.54	5.34	6.58	7.74
August	3.60	4.90	0.74	1.40	1.73	2.21	2.60	2.98	3.36	3.77	4.24	4.84	5.76	6.58
September	3.53	1.86	1.89	0.57	0.88	1.39	1.87	2.37	2.92	3.54	4.30	5.32	6.95	8.50
October	2.64	2.02	1.31	0.48	0.71	1.10	1.46	1.83	2.22	2.68	3.22	3.95	5.13	6.25
November	2.18	2.49	0.87	0.50	0.70	1.02	1.30	1.59	1.89	2.23	2.64	3.18	4.03	4.83
December	1.77	3.31	0.53	0.52	0.69	0.94	1.16	1.37	1.59	1.84	2.12	2.49	3.07	3.61

Illinois East Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.92	2.58	0.74	0.45	0.63	0.91	1.16	1.41	1.67	1.97	2.32	2.78	3.51	4.20
February	1.85	3.20	0.58	0.53	0.71	0.98	1.21	1.43	1.66	1.92	2.23	2.62	3.24	3.82
March	2.84	4.71	0.60	1.08	1.35	1.72	2.04	2.34	2.64	2.97	3.36	3.85	4.59	5.27
April	3.76	5.43	0.69	1.55	1.90	2.38	2.78	3.16	3.53	3.94	4.42	5.01	5.92	6.75
May	3.99	3.58	1.11	1.26	1.64	2.20	2.68	3.15	3.63	4.16	4.78	5.58	6.82	7.97
June	4.14	3.80	1.09	1.36	1.75	2.33	2.82	3.29	3.78	4.31	4.93	5.73	6.96	8.09
July	3.76	3.60	1.04	1.19	1.54	2.07	2.52	2.96	3.41	3.91	4.49	5.24	6.40	7.48
August	3.06	6.52	0.47	1.39	1.66	2.03	2.34	2.62	2.90	3.21	3.56	3.99	4.66	5.25
September	3.02	2.26	1.33	0.62	0.89	1.34	1.74	2.15	2.58	3.08	3.67	4.45	5.70	6.88
October	2.71	2.44	1.11	0.61	0.86	1.25	1.61	1.97	2.35	2.78	3.29	3.97	5.04	6.05
November	2.35	4.29	0.55	0.84	1.06	1.38	1.65	1.91	2.17	2.46	2.79	3.22	3.88	4.48
December	1.91	3.08	0.62	0.53	0.71	0.99	1.23	1.46	1.70	1.98	2.30	2.71	3.36	3.97

TABLE 23 - Precipitation Probabilities for Climatic Divisions

Illinois West Southwest Division

Probabilities (Based on 35 years of data)

Month	Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.97	2.15	0.92	0.38	0.56	0.85	1.12	1.39	1.68	2.00	2.40	2.93	3.77	4.57
February	1.90	3.02	0.63	0.52	0.70	0.98	1.22	1.45	1.70	1.97	2.29	2.71	3.37	3.98
March	3.09	4.06	0.76	1.07	1.36	1.78	2.14	2.48	2.84	3.22	3.67	4.25	5.14	5.96
April	3.63	5.34	0.68	1.48	1.82	2.29	2.67	3.04	3.41	3.80	4.26	4.84	5.73	6.54
May	4.08	3.72	1.10	1.32	1.71	2.28	2.77	3.24	3.72	4.25	4.88	5.67	6.91	8.05
June	4.37	3.34	1.31	1.30	1.72	2.34	2.88	3.40	3.94	4.54	5.24	6.15	7.57	8.89
July	3.32	3.19	1.04	0.95	1.27	1.75	2.16	2.56	2.98	3.45	4.00	4.71	5.82	6.86
August	3.46	3.19	1.08	0.99	1.32	1.82	2.25	2.67	3.11	3.59	4.16	4.90	6.06	7.13
September	3.00	2.29	1.31	0.63	0.90	1.34	1.74	2.15	2.58	3.06	3.65	4.42	5.65	6.82
October	2.80	2.59	1.08	0.66	0.93	1.34	1.70	2.06	2.45	2.88	3.39	4.07	5.13	6.13
November	2.59	3.24	0.80	0.75	1.00	1.37	1.69	2.00	2.33	2.69	3.11	3.66	4.52	5.32
December	1.89	3.52	0.54	0.59	0.77	1.03	1.26	1.48	1.71	1.96	2.26	2.64	3.23	3.78

Illinois Southwest Division

Probabilities (Based on 35 years of data)

Month	Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.21	1.87	1.72	0.52	0.80	1.26	1.71	2.16	2.66	3.22	3.92	4.84	6.32	7.73
February	2.90	2.78	1.04	0.74	1.01	1.43	1.80	2.17	2.56	2.99	3.50	4.17	5.22	6.19
March	4.17	3.80	1.10	1.37	1.77	2.35	2.84	3.32	3.81	4.34	4.97	5.78	7.02	8.16
April	4.08	6.45	0.63	1.84	2.20	2.71	3.11	3.49	3.87	4.28	4.75	5.34	6.23	7.03
May	4.44	3.92	1.13	1.49	1.91	2.53	3.05	3.55	4.06	4.62	5.28	6.12	7.41	8.59
June	4.22	3.56	1.18	1.32	1.73	2.32	2.83	3.32	3.83	4.39	5.05	5.89	7.21	8.43
July	3.40	5.24	0.65	1.38	1.69	2.13	2.49	2.84	3.18	3.56	3.99	4.54	5.39	6.15
August	3.72	2.84	1.31	0.96	1.31	1.85	2.33	2.80	3.29	3.84	4.48	5.33	6.65	7.88
September	3.43	3.27	1.05	1.01	1.33	1.82	2.24	2.66	3.09	3.56	4.12	4.84	5.97	7.02
October	2.86	2.24	1.28	0.58	0.84	1.26	1.65	2.03	2.45	2.92	3.48	4.23	5.43	6.56
November	3.39	2.93	1.16	0.90	1.22	1.71	2.14	2.56	3.01	3.50	4.08	4.83	6.01	7.09
December	2.82	3.97	0.71	0.96	1.22	1.61	1.94	2.26	2.58	2.94	3.35	3.88	4.69	5.42

TABLE 24 - Precipitation Probabilities for
Climatic Divisions

Illinois East Southeast Division														
Probabilities (Based on 35 years of data)														
Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
				- Inches -										
January	2.71	2.08	1.30	0.50	0.75	1.14	1.51	1.88	2.29	2.75	3.30	4.04	5.22	6.35
February	2.34	2.75	0.85	0.59	0.81	1.15	1.45	1.75	2.06	2.41	2.82	3.37	4.22	5.02
March	3.66	3.46	1.06	1.12	1.47	1.99	2.44	2.87	3.32	3.81	4.39	5.13	6.30	7.38
April	3.73	5.92	0.63	1.61	1.95	2.42	2.80	3.16	3.52	3.91	4.36	4.92	5.76	6.52
May	4.37	3.49	1.25	1.35	1.77	2.38	2.91	3.43	3.96	4.55	5.23	6.12	7.50	8.78
June	4.37	4.09	1.07	1.52	1.93	2.53	3.04	3.52	4.02	4.56	5.20	6.01	7.27	8.42
July	3.57	5.35	0.67	1.46	1.79	2.25	2.63	2.98	3.35	3.74	4.19	4.76	5.63	6.42
August	3.22	4.34	0.74	1.16	1.47	1.90	2.27	2.62	2.98	3.37	3.82	4.40	5.29	6.11
September	3.09	2.82	1.10	0.80	1.09	1.54	1.93	2.32	2.73	3.19	3.73	4.44	5.55	6.58
October	2.74	2.45	1.12	0.62	0.87	1.27	1.63	1.99	2.38	2.81	3.33	4.00	5.08	6.10
November	3.18	3.60	0.88	1.01	1.31	1.76	2.14	2.51	2.89	3.31	3.81	4.44	5.43	6.34
December	2.51	4.31	0.58	0.90	1.14	1.48	1.77	2.04	2.32	2.62	2.98	3.43	4.13	4.77

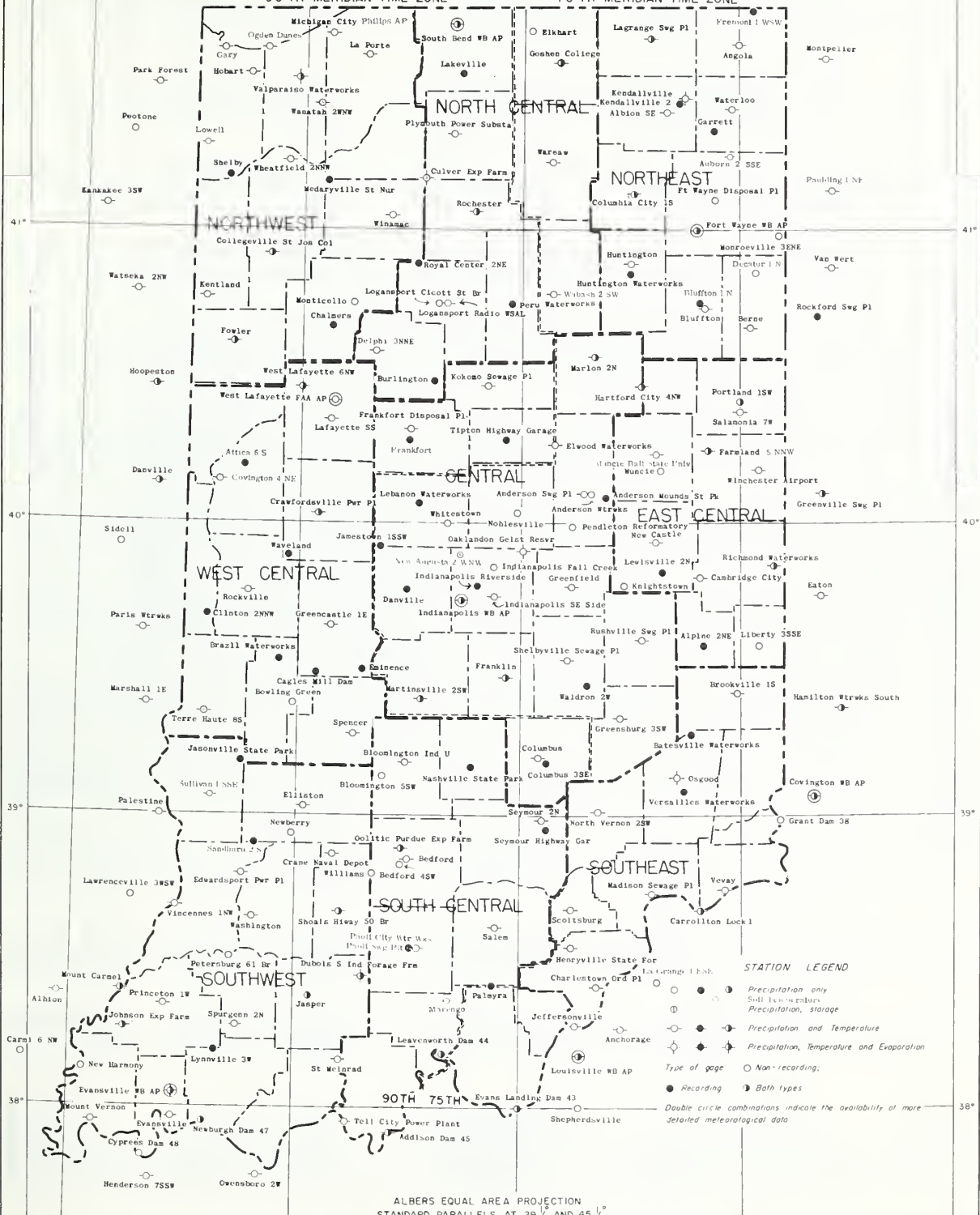
Illinois Southeast Division														
Probabilities (Based on 35 years of data)														
Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
				- Inches -										
January	3.59	1.85	1.95	0.57	0.88	1.40	1.90	2.41	2.96	3.60	4.38	5.41	7.09	8.68
February	3.00	2.33	1.29	0.64	0.91	1.35	1.75	2.15	2.58	3.06	3.64	4.41	5.63	6.78
March	4.39	3.47	1.27	1.35	1.77	2.39	2.92	3.44	3.98	4.57	5.26	6.15	7.55	8.84
April	4.09	6.55	0.62	1.86	2.22	2.72	3.13	3.50	3.88	4.29	4.75	5.34	6.22	7.02
May	4.46	3.56	1.25	1.40	1.82	2.45	2.99	3.51	4.05	4.64	5.34	6.23	7.62	8.91
June	3.93	4.33	0.91	1.42	1.79	2.32	2.77	3.19	3.63	4.11	4.66	5.37	6.46	7.46
July	3.62	4.84	0.75	1.40	1.73	2.21	2.61	2.98	3.37	3.78	4.26	4.87	5.80	6.64
August	3.42	2.94	1.16	0.92	1.24	1.73	2.17	2.59	3.04	3.53	4.12	4.88	6.06	7.15
September	3.31	2.53	1.31	0.77	1.08	1.56	1.99	2.43	2.89	3.40	4.01	4.82	6.09	7.29
October	2.69	2.11	1.27	0.51	0.75	1.15	1.51	1.88	2.28	2.73	3.28	4.00	5.17	6.27
November	3.49	3.21	1.09	1.01	1.34	1.84	2.27	2.70	3.14	3.62	4.20	4.94	6.10	7.19
December	3.05	3.76	0.81	1.00	1.29	1.71	2.07	2.42	2.78	3.18	3.64	4.23	5.15	5.99

INDIANA

STATUTE MILES



90 TH MERIDIAN TIME ZONE 75 TH MERIDIAN TIME ZONE



STATION LEGEND

- Precipitation only
 - Soil temperatures
 - Precipitation, storage
 - Precipitation and Temperature
 - Precipitation, Temperature and Evaporation
 - Type of gage
 - Non-recording;
 - Recording
 - Both types
- Double circle combinations indicate the availability of more detailed meteorological data

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2° AND 45 1/2°

USCOMM-ESSA-Ashville, N.C.
Revised 7-67

TABLE 25 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Indianapolis, Indiana														
Month	Mean	Gamma	Beta	Probabilities (Based on 37 years of Data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.90	1.65	1.76	0.40	0.63	1.05	1.45	1.88	2.34	2.88	3.54	4.44	5.90	7.31
February	2.31	2.95	0.78	0.62	0.84	1.17	1.46	1.75	2.05	2.39	2.78	3.29	4.09	4.83
March	3.76	3.03	1.24	1.03	1.39	1.93	2.40	2.87	3.35	3.89	4.53	5.36	6.66	7.87
April	3.87	4.54	0.85	1.44	1.80	2.32	2.76	3.17	3.59	4.05	4.58	5.26	6.31	7.26
May	3.86	2.53	1.52	0.90	1.25	1.82	2.32	2.83	3.36	3.96	4.67	5.61	7.10	8.49
June	4.25	2.96	1.44	1.15	1.55	2.16	2.70	3.23	3.78	4.39	5.11	6.05	7.52	8.87
July	3.55	4.15	0.86	1.24	1.58	2.06	2.47	2.87	3.27	3.71	4.22	4.87	5.88	6.81
August	2.95	4.93	0.60	1.15	1.43	1.81	2.14	2.44	2.75	3.09	3.47	3.96	4.71	5.38
September	3.22	2.61	1.23	0.77	1.07	1.54	1.96	2.38	2.82	3.31	3.90	4.66	5.88	7.02
October	2.48	1.84	1.35	0.40	0.61	0.97	1.31	1.66	2.05	2.49	3.03	3.74	4.90	6.00
November	3.03	4.83	0.63	1.17	1.45	1.85	2.18	2.50	2.82	3.16	3.57	4.08	4.86	5.56
December	2.74	3.31	0.83	0.81	1.07	1.46	1.80	2.13	2.47	2.85	3.29	3.87	4.77	5.60

Division--Indiana Central Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.89	1.90	1.52	0.48	0.73	1.15	1.54	1.95	2.39	2.90	3.51	4.33	5.65	6.90
February	2.34	3.08	0.76	0.65	0.88	1.21	1.51	1.80	2.10	2.43	2.82	3.33	4.14	4.88
March	3.64	3.86	0.94	1.21	1.55	2.06	2.49	2.90	3.32	3.79	4.33	5.02	6.10	7.07
April	3.90	4.92	0.79	1.52	1.88	2.40	2.82	3.23	3.64	4.08	4.59	5.24	6.23	7.12
May	4.15	3.75	1.11	1.35	1.75	2.33	2.82	3.29	3.78	4.32	4.95	5.76	7.01	8.15
June	4.12	5.04	0.82	1.63	2.01	2.55	3.00	3.43	3.86	4.32	4.86	5.54	6.58	7.54
July	3.73	5.17	0.72	1.50	1.84	2.33	2.73	3.11	3.49	3.91	4.39	5.00	5.93	6.77
August	3.04	13.46	0.23	1.81	2.04	2.33	2.55	2.76	2.96	3.17	3.41	3.70	4.13	4.51
September	3.23	2.41	1.34	0.71	1.01	1.48	1.91	2.34	2.80	3.31	3.93	4.74	6.03	7.24
October	2.47	2.24	1.10	0.50	0.73	1.09	1.42	1.75	2.11	2.52	3.00	3.64	4.67	5.64
November	2.87	4.76	0.60	1.10	1.36	1.74	2.06	2.36	2.67	3.00	3.38	3.87	4.62	5.30
December	2.41	3.37	0.72	0.73	0.95	1.30	1.59	1.88	2.18	2.51	2.89	3.39	4.17	4.90

TABLE 26 - Precipitation Probabilities for Climatic Divisions

Indiana Northwest Division
Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.10	3.85	0.55	0.70	0.90	1.19	1.44	1.68	1.92	2.19	2.50	2.90	3.52	4.09
February	1.94	4.25	0.46	0.69	0.87	1.13	1.36	1.57	1.79	2.02	2.30	2.65	3.19	3.69
March	2.87	6.49	0.44	1.30	1.55	1.90	2.19	2.45	2.72	3.01	3.33	3.75	4.37	4.93
April	3.87	5.94	0.65	1.67	2.02	2.51	2.90	3.27	3.65	4.05	4.51	5.09	5.96	6.74
May	3.96	4.52	0.88	1.47	1.84	2.37	2.81	3.24	3.67	4.14	4.68	5.38	6.45	7.43
June	4.23	5.43	0.78	1.74	2.13	2.67	3.12	3.54	3.97	4.43	4.96	5.63	6.65	7.58
July	3.63	3.24	1.12	1.06	1.40	1.92	2.37	2.81	3.26	3.77	4.36	5.13	6.33	7.44
August	3.43	7.38	0.46	1.65	1.94	2.35	2.67	2.98	3.28	3.60	3.96	4.42	5.11	5.74
September	3.37	2.57	1.31	0.80	1.11	1.60	2.04	2.48	2.95	3.47	4.08	4.90	6.18	7.39
October	3.10	2.12	1.46	0.59	0.87	1.32	1.74	2.17	2.63	3.15	3.77	4.61	5.94	7.22
November	2.54	6.82	0.37	1.18	1.40	1.71	1.96	2.19	2.42	2.66	2.95	3.30	3.83	4.31
December	2.10	3.60	0.58	0.66	0.86	1.16	1.41	1.66	1.91	2.19	2.51	2.93	3.58	4.18

Indiana North Central Division
Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.13	2.78	0.77	0.54	0.74	1.05	1.32	1.59	1.88	2.20	2.57	3.06	3.83	4.55
February	1.92	4.02	0.48	0.66	0.84	1.10	1.33	1.54	1.76	2.00	2.28	2.64	3.20	3.71
March	2.76	7.08	0.39	1.30	1.54	1.87	2.14	2.38	2.63	2.90	3.20	3.57	4.14	4.66
April	3.79	5.15	0.74	1.52	1.87	2.36	2.77	3.16	3.55	3.97	4.46	5.08	6.03	6.89
May	3.67	5.34	0.69	1.50	1.84	2.31	2.70	3.07	3.44	3.84	4.31	4.89	5.79	6.60
June	4.05	8.35	0.49	2.05	2.39	2.85	3.22	3.55	3.89	4.25	4.65	5.16	5.92	6.60
July	3.72	4.08	0.91	1.29	1.64	2.15	2.58	2.99	3.42	3.88	4.42	5.11	6.19	7.17
August	3.35	8.84	0.38	1.74	2.01	2.39	2.68	2.96	3.23	3.51	3.84	4.24	4.85	5.38
September	3.13	3.70	0.85	1.01	1.31	1.75	2.12	2.48	2.85	3.26	3.74	4.35	5.30	6.18
October	2.94	2.19	1.34	0.58	0.85	1.28	1.67	2.07	2.50	2.99	3.58	4.35	5.59	6.77
November	2.49	7.72	0.32	1.22	1.43	1.72	1.95	2.17	2.38	2.61	2.87	3.20	3.68	4.12
December	1.96	3.20	0.61	0.57	0.75	1.03	1.28	1.52	1.76	2.04	2.36	2.78	3.44	4.05

TABLE 27 - Precipitation Probabilities for
Climatic Divisions

Month	Indiana Northeast Division													
	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.31	2.61	0.88	0.55	0.77	1.11	1.41	1.71	2.02	2.38	2.80	3.35	4.22	5.04
February	1.99	4.13	0.48	0.69	0.88	1.15	1.38	1.60	1.83	2.08	2.36	2.73	3.30	3.82
March	2.92	5.53	0.53	1.22	1.49	1.86	2.17	2.46	2.75	3.06	3.43	3.88	4.58	5.22
April	3.53	6.19	0.57	1.56	1.88	2.31	2.67	3.00	3.34	3.70	4.11	4.63	5.42	6.14
May	3.66	4.83	0.76	1.41	1.75	2.23	2.64	3.02	3.41	3.83	4.31	4.93	5.87	6.73
June	3.94	7.75	0.51	1.94	2.27	2.73	3.10	3.44	3.78	4.14	4.55	5.06	5.83	6.51
July	3.54	6.45	0.55	1.60	1.91	2.35	2.70	3.03	3.36	3.72	4.12	4.63	5.41	6.10
August	3.14	11.97	0.26	1.81	2.05	2.36	2.61	2.83	3.05	3.28	3.54	3.86	4.33	4.74
September	2.96	3.63	0.81	0.94	1.22	1.64	2.00	2.34	2.69	3.08	3.54	4.13	5.04	5.88
October	2.69	2.29	1.18	0.56	0.81	1.20	1.56	1.92	2.31	2.75	3.27	3.96	5.07	6.12
November	2.50	6.27	0.40	1.11	1.34	1.64	1.90	2.13	2.37	2.62	2.91	3.28	3.83	4.34
December	2.05	3.25	0.63	0.60	0.79	1.09	1.34	1.59	1.84	2.13	2.46	2.89	3.57	4.20

Month	Indiana West Central Division													
	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.62	2.03	1.29	0.47	0.71	1.09	1.45	1.81	2.20	2.65	3.20	3.92	5.08	6.19
February	2.22	2.94	0.75	0.59	0.80	1.12	1.40	1.68	1.97	2.29	2.67	3.16	3.93	4.63
March	3.32	4.24	0.78	1.18	1.49	1.94	2.33	2.69	3.06	3.47	3.94	4.54	5.48	6.33
April	3.80	6.07	0.63	1.66	2.01	2.48	2.87	3.23	3.59	3.98	4.43	5.00	5.86	6.64
May	4.44	3.50	1.27	1.37	1.80	2.42	2.96	3.48	4.02	4.61	5.31	6.21	7.61	8.91
June	4.68	3.60	1.30	1.48	1.92	2.58	3.15	3.69	4.25	4.87	5.60	6.53	7.98	9.33
July	3.71	4.07	0.91	1.28	1.63	2.15	2.58	2.99	3.42	3.88	4.42	5.11	6.18	7.17
August	3.35	10.36	0.32	1.84	2.11	2.46	2.74	2.99	3.25	3.51	3.81	4.18	4.74	5.23
September	3.29	2.73	1.20	0.82	1.13	1.61	2.04	2.46	2.90	3.39	3.98	4.74	5.95	7.07
October	2.71	2.34	1.16	0.58	0.83	1.22	1.59	1.95	2.33	2.77	3.29	3.98	5.08	6.12
November	2.95	5.73	0.51	1.25	1.52	1.89	2.20	2.49	2.78	3.09	3.45	3.90	4.59	5.21
December	2.28	3.50	0.65	0.70	0.92	1.24	1.52	1.79	2.07	2.37	2.73	3.19	3.91	4.58

TABLE 28 - Precipitation Probabilities for Climatic Divisions

Month	Indiana East Central Division													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches													
January	2.92	1.90	1.54	0.48	0.74	1.16	1.56	1.97	2.42	2.93	3.55	4.38	5.71	6.97
February	2.34	3.50	0.67	0.72	0.95	1.28	1.56	1.84	2.12	2.43	2.80	3.28	4.01	4.70
March	3.61	3.86	0.94	1.20	1.54	2.04	2.47	2.88	3.30	3.76	4.30	4.99	6.06	7.03
April	4.00	4.40	0.91	1.46	1.83	2.37	2.83	3.26	3.70	4.18	4.74	5.45	6.55	7.56
May	3.95	3.31	1.19	1.17	1.55	2.11	2.60	3.07	3.56	4.10	4.74	5.57	6.86	8.06
June	4.28	3.45	1.24	1.31	1.72	2.33	2.85	3.35	3.88	4.46	5.13	6.01	7.37	8.64
July	3.77	7.77	0.48	1.85	2.17	2.61	2.96	3.28	3.61	3.95	4.34	4.83	5.56	6.21
August	2.93	8.22	0.36	1.47	1.72	2.05	2.32	2.56	2.81	3.07	3.36	3.73	4.29	4.78
September	3.19	1.93	1.65	0.54	0.82	1.28	1.72	2.17	2.65	3.21	3.88	4.78	6.22	7.57
October	2.64	1.76	1.50	0.40	0.62	1.00	1.37	1.75	2.16	2.64	3.22	4.01	5.28	6.50
November	2.77	4.70	0.59	1.05	1.31	1.68	1.99	2.28	2.58	2.90	3.27	3.75	4.48	5.14
December	2.39	3.42	0.70	0.73	0.96	1.29	1.59	1.87	2.16	2.49	2.87	3.36	4.13	4.84

Month	Indiana Southwest Division													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches													
January	3.62	1.84	1.96	0.58	0.89	1.41	1.91	2.43	2.99	3.63	4.41	5.46	7.15	8.75
February	2.85	2.20	1.29	0.57	0.83	1.24	1.63	2.01	2.43	2.90	3.46	4.21	5.41	6.55
March	4.34	3.16	1.37	1.24	1.65	2.27	2.82	3.34	3.90	4.51	5.22	6.16	7.62	8.98
April	3.90	4.96	0.79	1.53	1.89	2.40	2.83	3.23	3.63	4.08	4.58	5.23	6.21	7.09
May	4.42	3.73	1.18	1.43	1.85	2.47	3.00	3.50	4.03	4.60	5.27	6.13	7.47	8.70
June	4.20	4.63	0.91	1.58	1.97	2.53	3.00	3.45	3.90	4.40	4.97	5.69	6.81	7.83
July	3.64	6.82	0.53	1.69	2.00	2.44	2.80	3.13	3.46	3.81	4.21	4.72	5.48	6.16
August	3.27	3.82	0.86	1.08	1.39	1.84	2.23	2.60	2.99	3.40	3.89	4.52	5.49	6.38
September	3.21	2.99	1.07	0.87	1.17	1.64	2.04	2.44	2.85	3.31	3.85	4.56	5.66	6.66
October	2.45	2.06	1.19	0.45	0.67	1.03	1.36	1.70	2.07	2.49	2.99	3.66	4.74	5.76
November	3.19	3.61	0.88	1.01	1.31	1.76	2.14	2.51	2.90	3.32	3.81	4.44	5.43	6.34
December	2.88	3.93	0.73	0.97	1.24	1.64	1.98	2.30	2.63	3.00	3.42	3.96	4.80	5.56

TABLE 29 - Precipitation Probabilities for Climatic Divisions

Indiana South Central Division														
Month	Probabilities (Based on 35 years of data)													
	Mean Inches	Beta	Gamma	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.02	2.09	1.92	0.68	1.03	1.61	2.16	2.73	3.34	4.04	4.89	6.02	7.83	9.55
February	3.12	1.28	2.44	0.70	0.99	1.44	1.86	2.27	2.71	3.20	3.79	4.56	5.80	6.96
March	4.68	1.50	3.11	1.32	1.76	2.43	3.02	3.59	4.19	4.85	5.63	6.65	8.24	9.72
April	3.89	0.86	4.52	1.44	1.80	2.33	2.76	3.18	3.61	4.07	4.60	5.29	6.34	7.30
May	4.24	1.04	4.08	1.47	1.87	2.45	2.94	3.41	3.90	4.42	5.04	5.83	7.05	8.17
June	4.50	1.20	3.75	1.47	1.90	2.52	3.06	3.57	4.11	4.69	5.37	6.24	7.60	8.85
July	3.81	0.56	6.82	1.77	2.10	2.56	2.93	3.28	3.62	3.99	4.42	4.95	5.75	6.46
August	3.15	0.64	4.96	1.23	1.53	1.94	2.28	2.61	2.94	3.29	3.71	4.23	5.02	5.73
September	3.22	1.05	3.06	0.89	1.20	1.66	2.07	2.47	2.88	3.34	3.88	4.59	5.69	6.73
October	2.49	1.19	2.09	0.47	0.69	1.06	1.40	1.74	2.11	2.53	3.04	3.71	4.80	5.83
November	3.24	0.94	3.45	0.99	1.30	1.76	2.16	2.54	2.94	3.37	3.89	4.55	5.58	6.54
December	3.07	0.82	3.77	1.01	1.30	1.73	2.09	2.44	2.81	3.20	3.67	4.26	5.19	6.04

Indiana Southeast Division														
Month	Probabilities (Based on 35 years of data)													
	Mean Inches	Beta	Gamma	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.89	1.89	2.06	0.72	1.06	1.63	2.16	2.70	3.28	3.94	4.74	5.81	7.52	9.15
February	3.26	1.39	2.34	0.70	1.00	1.48	1.91	2.35	2.81	3.34	3.96	4.79	6.12	7.37
March	4.74	1.47	3.21	1.37	1.82	2.50	3.08	3.66	4.25	4.91	5.69	6.70	8.28	9.75
April	3.79	0.97	3.91	1.27	1.63	2.16	2.60	3.03	3.47	3.95	4.51	5.22	6.33	7.33
May	3.92	1.14	3.43	1.19	1.57	2.12	2.60	3.07	3.55	4.08	4.70	5.51	6.76	7.92
June	4.26	1.26	3.38	1.28	1.69	2.29	2.81	3.32	3.85	4.43	5.11	5.99	7.36	8.64
July	3.86	0.65	5.94	1.67	2.02	2.50	2.90	3.27	3.64	4.04	4.50	5.08	5.95	6.73
August	3.15	0.68	4.59	1.18	1.47	1.89	2.24	2.58	2.92	3.29	3.72	4.27	5.11	5.88
September	2.91	0.84	3.48	0.90	1.17	1.59	1.94	2.28	2.64	3.03	3.49	4.08	5.00	5.86
October	2.45	1.08	2.28	0.51	0.73	1.09	1.42	1.75	2.11	2.51	2.99	3.62	4.63	5.59
November	3.07	0.95	3.23	0.89	1.18	1.62	2.00	2.37	2.76	3.18	3.69	4.34	5.36	6.30
December	2.93	0.81	3.60	0.93	1.21	1.62	1.97	2.31	2.67	3.05	3.51	4.09	5.00	5.84

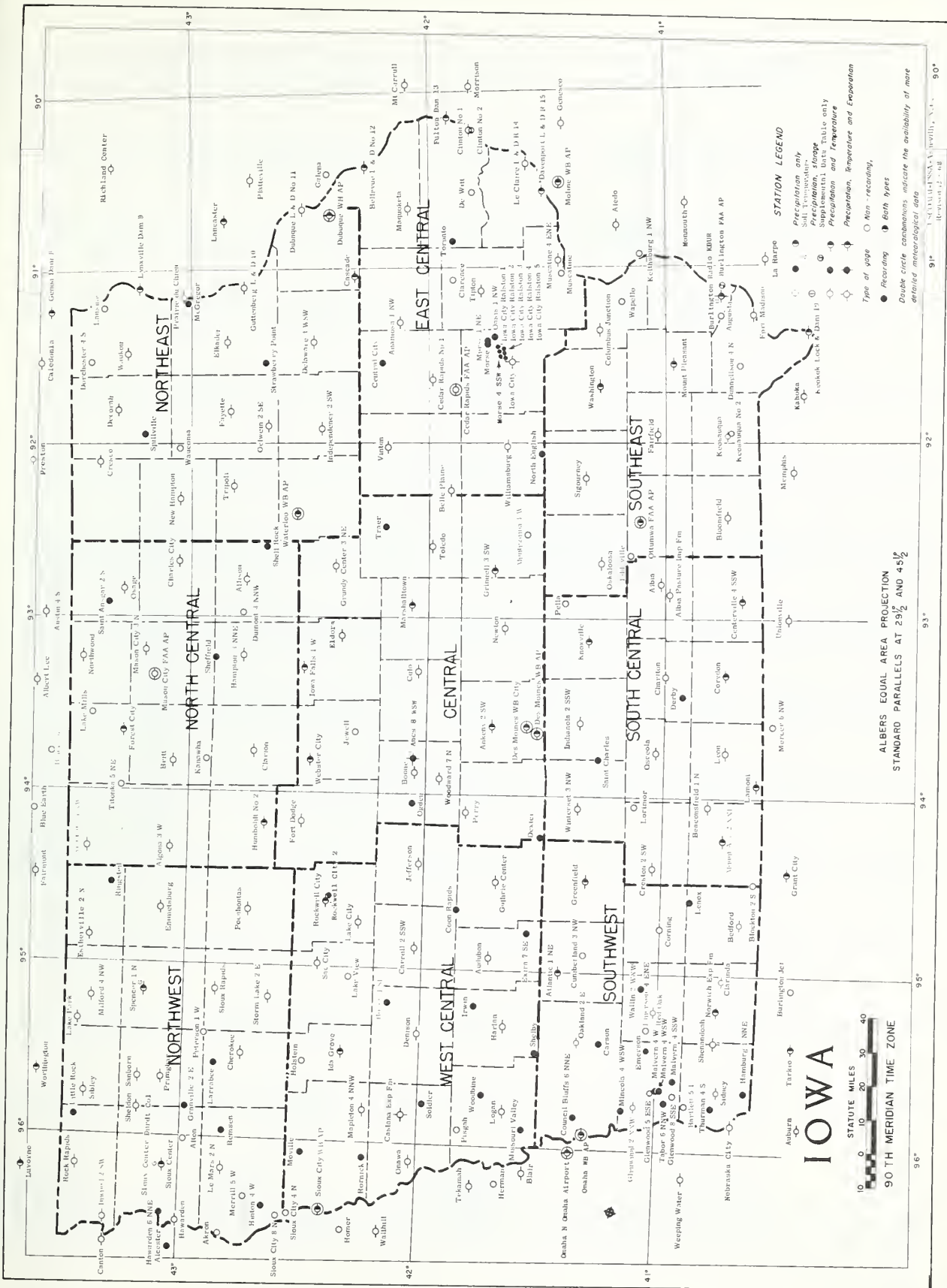


TABLE 30 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Des Moines, Iowa														
Probabilities (Based on 37 years of data)														
Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
				- Inches -										
January	1.21	2.18	0.56	0.24	0.35	0.52	0.69	0.85	1.03	1.23	1.47	1.79	2.30	2.79
February	1.08	1.65	0.65	0.15	0.24	0.39	0.54	0.70	0.87	1.07	1.32	1.65	2.19	2.71
March	2.16	3.41	0.63	0.66	0.86	1.17	1.43	1.69	1.95	2.25	2.59	3.04	3.73	4.38
April	2.58	3.43	0.75	0.79	1.03	1.40	1.72	2.02	2.34	2.69	3.10	3.63	4.46	5.22
May	4.02	3.73	1.08	1.30	1.69	2.25	2.73	3.19	3.66	4.19	4.80	5.58	6.80	7.92
June	4.70	3.03	1.55	1.29	1.74	2.42	3.01	3.59	4.20	4.87	5.66	6.70	8.32	9.84
July	3.11	2.37	1.31	0.67	0.96	1.42	1.83	2.25	2.69	3.19	3.78	4.57	5.82	7.01
August	3.48	2.45	1.42	0.78	1.11	1.62	2.08	2.53	3.02	3.57	4.23	5.09	6.46	7.75
September	3.13	1.75	1.79	0.46	0.73	1.18	1.61	2.06	2.56	3.12	3.82	4.75	6.27	7.72
October	1.99	1.15	1.74	0.14	0.27	0.52	0.79	1.10	1.45	1.88	2.42	3.17	4.44	5.70
November	1.67	1.45	1.15	0.18	0.31	0.54	0.77	1.02	1.30	1.63	2.04	2.59	3.50	4.39
December	1.11	2.27	0.49	0.23	0.33	0.49	0.64	0.79	0.95	1.13	1.35	1.63	2.09	2.52

Division--Iowa Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
				- Inches -										
January	1.10	2.33	0.47	0.23	0.33	0.49	0.64	0.79	0.94	1.12	1.33	1.61	2.06	2.48
February	1.06	2.08	0.51	0.20	0.29	0.45	0.59	0.74	0.90	1.08	1.30	1.59	2.05	2.49
March	2.11	3.73	0.57	0.69	0.89	1.18	1.43	1.67	1.92	2.20	2.52	2.93	3.57	4.16
April	2.77	3.56	0.78	0.87	1.13	1.52	1.86	2.18	2.51	2.88	3.31	3.87	4.74	5.54
May	4.14	4.57	0.91	1.54	1.93	2.49	2.95	3.39	3.84	4.33	4.90	5.62	6.74	7.75
June	4.77	4.70	1.01	1.81	2.25	2.89	3.42	3.92	4.43	4.99	5.63	6.44	7.70	8.84
July	3.77	4.02	0.94	1.29	1.65	2.17	2.61	3.03	3.46	3.93	4.48	5.19	6.28	7.29
August	3.75	4.38	0.86	1.36	1.71	2.22	2.65	3.05	3.47	3.92	4.44	5.11	6.15	7.09
September	3.52	2.41	1.46	0.78	1.10	1.62	2.08	2.55	3.05	3.60	4.27	5.15	6.55	7.87
October	1.97	1.70	1.16	0.28	0.44	0.73	1.00	1.29	1.60	1.97	2.41	3.01	3.98	4.92
November	1.77	1.64	1.08	0.24	0.38	0.63	0.88	1.14	1.42	1.75	2.16	2.71	3.60	4.47
December	1.10	3.30	0.33	0.32	0.43	0.59	0.72	0.85	0.99	1.14	1.32	1.55	1.91	2.25

TABLE 31 - Precipitation Probabilities for
Climatic Divisions

Iowa Northwest Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.63	2.19	0.29	0.12	0.18	0.27	0.36	0.44	0.54	0.64	0.76	0.93	1.19	1.45
February	0.97	1.85	0.52	0.16	0.24	0.38	0.51	0.65	0.80	0.97	1.18	1.46	1.91	2.34
March	1.61	4.07	0.40	0.56	0.71	0.93	1.12	1.30	1.48	1.68	1.92	2.22	2.68	3.11
April	2.31	4.17	0.55	0.81	1.03	1.35	1.61	1.87	2.13	2.41	2.75	3.17	3.83	4.43
May	3.79	3.47	1.09	1.17	1.53	2.06	2.52	2.97	3.43	3.94	4.54	5.31	6.51	7.62
June	4.59	6.31	0.73	2.05	2.46	3.03	3.49	3.92	4.35	4.81	5.35	6.02	7.03	7.95
July	3.55	3.98	0.89	1.21	1.54	2.03	2.45	2.84	3.25	3.70	4.22	4.88	5.90	6.82
August	3.57	4.67	0.76	1.35	1.68	2.16	2.56	2.94	3.32	3.74	4.22	4.84	5.78	6.64
September	3.17	2.10	1.51	0.60	0.88	1.34	1.77	2.21	2.68	3.21	3.86	4.71	6.09	7.39
October	1.48	1.31	1.13	0.14	0.24	0.44	0.65	0.87	1.13	1.43	1.80	2.32	3.19	4.04
November	1.11	1.33	0.84	0.11	0.18	0.34	0.49	0.66	0.85	1.07	1.35	1.74	2.38	3.01
December	0.78	2.42	0.32	0.17	0.25	0.36	0.46	0.57	0.68	0.80	0.95	1.15	1.46	1.75

Iowa North Central Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.92	2.44	0.38	0.21	0.29	0.43	0.55	0.67	0.80	0.95	1.12	1.35	1.71	2.06
February	1.00	1.95	0.51	0.17	0.26	0.40	0.54	0.68	0.83	1.00	1.21	1.49	1.94	2.36
March	2.01	4.27	0.47	0.72	0.90	1.18	1.41	1.63	1.85	2.10	2.38	2.74	3.31	3.82
April	2.54	3.54	0.72	0.79	1.03	1.39	1.70	2.00	2.30	2.64	3.04	3.55	4.35	5.08
May	3.98	5.38	0.74	1.63	2.00	2.51	2.93	3.33	3.73	4.17	4.67	5.30	6.27	7.15
June	4.71	5.93	0.79	2.04	2.46	3.06	3.54	3.99	4.45	4.94	5.50	6.20	7.27	8.23
July	3.82	3.98	0.96	1.30	1.66	2.19	2.63	3.06	3.50	3.98	4.53	5.25	6.34	7.33
August	3.94	4.11	0.96	1.37	1.75	2.29	2.74	3.18	3.63	4.12	4.69	5.42	6.55	7.59
September	3.55	2.12	1.67	0.68	1.00	1.52	2.00	2.49	3.01	3.60	4.32	5.28	6.81	8.26
October	1.79	1.36	1.32	0.18	0.31	0.55	0.80	1.07	1.37	1.73	2.18	2.80	3.82	4.82
November	1.58	1.68	0.94	0.22	0.35	0.58	0.79	1.02	1.28	1.57	1.93	2.41	3.19	3.95
December	0.99	3.33	0.30	0.29	0.39	0.53	0.65	0.77	0.89	1.02	1.18	1.39	1.71	2.01

TABLE 32 - Precipitation Probabilities for
Climatic Divisions

Iowa Northeast Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.08	2.58	0.42	0.25	0.36	0.51	0.65	0.79	0.94	1.11	1.30	1.56	1.97	2.36
February	0.99	2.13	0.47	0.19	0.28	0.43	0.56	0.70	0.84	1.01	1.21	1.48	1.90	2.31
March	2.16	4.56	0.47	0.80	1.01	1.30	1.54	1.77	2.00	2.26	2.56	2.93	3.51	4.04
April	2.82	3.98	0.71	0.96	1.23	1.62	1.94	2.26	2.58	2.94	3.35	3.88	4.69	5.42
May	3.93	6.26	0.63	1.75	2.10	2.59	2.98	3.35	3.73	4.12	4.58	5.16	6.03	6.82
June	4.54	5.61	0.81	1.91	2.32	2.90	3.37	3.82	4.27	4.76	5.31	6.02	7.10	8.07
July	3.96	4.39	0.90	1.44	1.81	2.35	2.80	3.22	3.66	4.14	4.69	5.40	6.49	7.49
August	3.85	5.70	0.68	1.63	1.98	2.47	2.87	3.25	3.63	4.04	4.51	5.10	6.01	6.82
September	3.78	2.74	1.38	0.95	1.30	1.85	2.34	2.82	3.33	3.90	4.57	5.45	6.83	8.12
October	2.13	1.38	1.54	0.22	0.37	0.67	0.97	1.29	1.65	2.07	2.61	3.33	4.54	5.71
November	1.93	1.97	0.98	0.34	0.50	0.79	1.05	1.32	1.61	1.94	2.34	2.87	3.73	4.53
December	1.16	5.47	0.21	0.48	0.59	0.74	0.86	0.97	1.09	1.22	1.36	1.55	1.83	2.08

Iowa West Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	0.87	2.43	0.36	0.19	0.27	0.40	0.51	0.63	0.75	0.89	1.05	1.27	1.61	1.93
February	1.01	2.16	0.47	0.20	0.29	0.44	0.57	0.71	0.86	1.03	1.23	1.50	1.93	2.34
March	1.82	3.28	0.56	0.54	0.71	0.97	1.20	1.41	1.64	1.89	2.19	2.57	3.17	3.73
April	2.57	3.50	0.73	0.80	1.04	1.40	1.72	2.02	2.33	2.67	3.08	3.60	4.41	5.16
May	3.93	3.65	1.08	1.26	1.63	2.18	2.65	3.11	3.58	4.10	4.70	5.48	6.69	7.80
June	4.70	5.01	0.94	1.85	2.29	2.90	3.41	3.90	4.39	4.92	5.53	6.31	7.50	8.59
July	3.62	4.21	0.86	1.28	1.62	2.11	2.53	2.93	3.34	3.78	4.30	4.96	5.98	6.92
August	3.84	5.33	0.72	1.57	1.92	2.42	2.83	3.21	3.60	4.02	4.51	5.12	6.06	6.92
September	3.11	2.25	1.38	0.63	0.92	1.37	1.79	2.21	2.66	3.17	3.78	4.59	5.88	7.11
October	1.67	1.32	1.26	0.16	0.28	0.50	0.73	0.99	1.27	1.61	2.04	2.62	3.59	4.54
November	1.31	1.21	1.08	0.10	0.19	0.36	0.54	0.74	0.97	1.25	1.60	2.08	2.88	3.68
December	0.81	1.94	0.42	0.14	0.21	0.33	0.44	0.55	0.68	0.82	0.99	1.22	1.58	1.93

TABLE 33 - Precipitation Probabilities for Climatic Divisions

Iowa East Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.40	2.69	0.52	0.34	0.48	0.68	0.86	1.04	1.23	1.44	1.69	2.02	2.54	3.03
February	1.11	2.39	0.46	0.24	0.34	0.51	0.65	0.80	0.96	1.14	1.35	1.63	2.07	2.49
March	2.29	3.90	0.59	0.77	0.98	1.30	1.57	1.83	2.09	2.38	2.72	3.16	3.83	4.44
April	3.08	3.78	0.81	1.01	1.30	1.73	2.10	2.45	2.81	3.21	3.67	4.27	5.19	6.04
May	3.83	5.58	0.69	1.60	1.95	2.44	2.84	3.22	3.60	4.01	4.48	5.08	5.99	6.82
June	4.50	6.34	0.71	2.01	2.41	2.97	3.42	3.84	4.26	4.72	5.24	5.89	6.89	7.78
July	3.74	4.66	0.80	1.41	1.76	2.26	2.68	3.07	3.48	3.91	4.42	5.07	6.06	6.96
August	3.51	5.17	0.68	1.41	1.73	2.19	2.57	2.92	3.28	3.67	4.13	4.70	5.57	6.37
September	3.65	2.63	1.39	0.88	1.22	1.75	2.23	2.70	3.20	3.76	4.42	5.29	6.67	7.96
October	2.39	1.16	2.06	0.17	0.33	0.63	0.96	1.33	1.75	2.26	2.91	3.80	5.31	6.80
November	2.19	2.06	1.06	0.40	0.60	0.92	1.22	1.52	1.85	2.22	2.67	3.26	4.23	5.14
December	1.47	4.03	0.37	0.51	0.65	0.85	1.02	1.18	1.35	1.54	1.75	2.03	2.46	2.85

Iowa Southwest Division

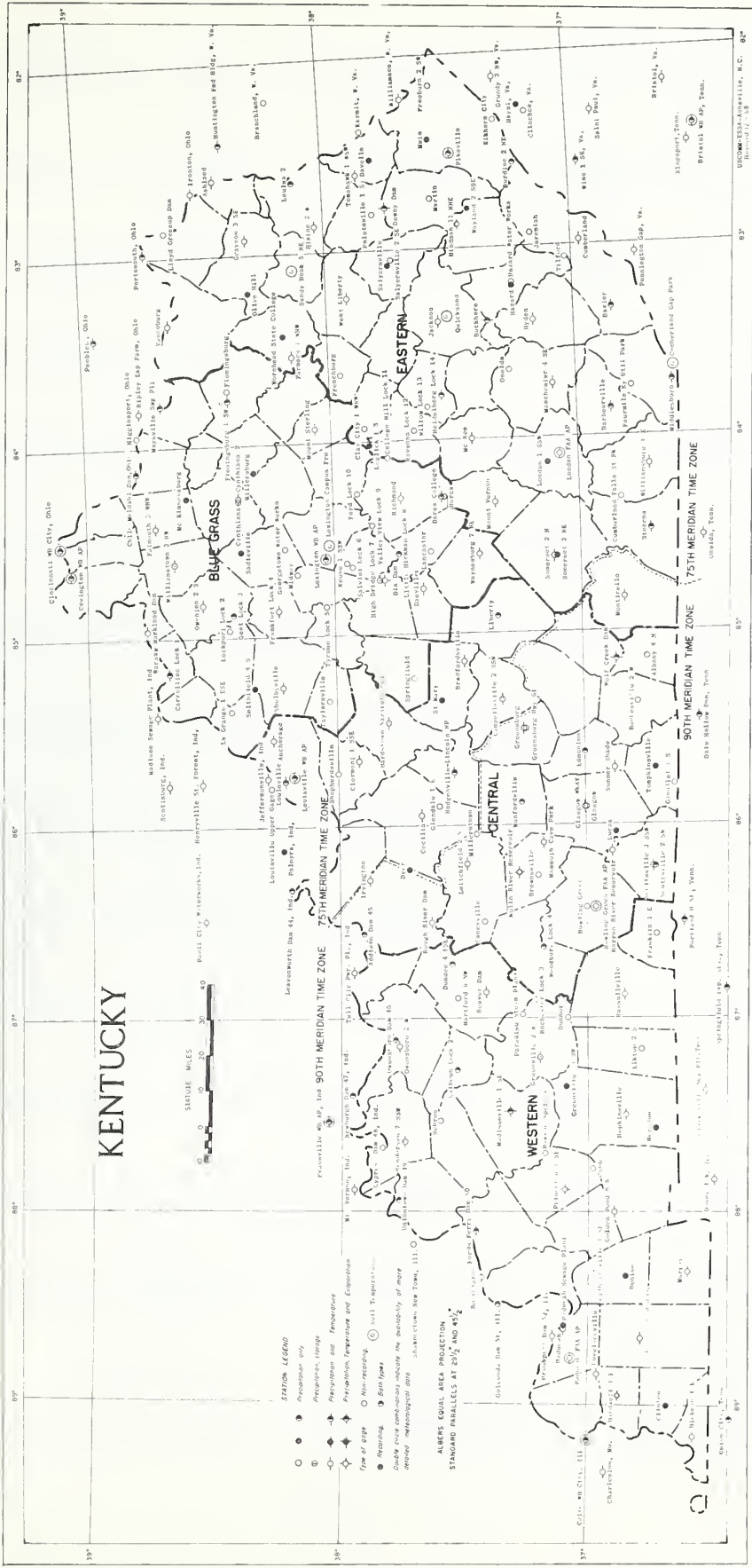
Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.92	1.78	0.52	0.14	0.22	0.35	0.48	0.61	0.75	0.92	1.12	1.39	1.83	2.25
February	1.01	2.09	0.48	0.19	0.28	0.43	0.56	0.70	0.85	1.02	1.23	1.50	1.94	2.36
March	2.03	2.38	0.85	0.44	0.63	0.92	1.19	1.46	1.75	2.07	2.46	2.97	3.78	4.55
April	2.67	3.11	0.86	0.75	1.00	1.39	1.72	2.05	2.39	2.76	3.21	3.79	4.69	5.54
May	4.10	4.22	0.97	1.45	1.84	2.40	2.87	3.32	3.78	4.28	4.86	5.61	6.77	7.83
June	5.11	5.02	1.02	2.02	2.49	3.16	3.72	4.24	4.78	5.35	6.02	6.87	8.16	9.35
July	3.58	2.75	1.30	0.90	1.24	1.76	2.22	2.67	3.15	3.69	4.32	5.15	6.45	7.67
August	4.52	3.93	1.15	1.53	1.95	2.58	3.11	3.62	4.14	4.71	5.38	6.23	7.55	8.74
September	3.76	2.47	1.52	0.85	1.20	1.75	2.24	2.74	3.27	3.86	4.56	5.49	6.96	8.35
October	2.05	1.30	1.58	0.19	0.33	0.61	0.89	1.20	1.56	1.98	2.50	3.23	4.43	5.61
November	1.54	1.46	1.05	0.17	0.29	0.50	0.72	0.95	1.20	1.50	1.87	2.38	3.22	4.03
December	0.90	1.78	0.51	0.14	0.21	0.34	0.47	0.60	0.74	0.90	1.10	1.37	1.80	2.21

TABLE 34 - Precipitation Probabilities for Climatic Divisions

Iowa South Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.21	2.07	0.59	0.23	0.33	0.51	0.68	0.84	1.03	1.23	1.48	1.81	2.34	2.85
February	1.06	2.64	0.40	0.26	0.35	0.51	0.65	0.78	0.93	1.09	1.28	1.53	1.93	2.30
March	2.25	2.90	0.78	0.59	0.81	1.13	1.42	1.70	1.99	2.32	2.71	3.21	4.00	4.73
April	2.97	4.12	0.72	1.04	1.32	1.73	2.07	2.40	2.74	3.11	3.54	4.09	4.94	5.72
May	3.97	5.35	0.74	1.63	1.99	2.50	2.93	3.32	3.73	4.16	4.66	5.30	6.27	7.15
June	4.88	4.19	1.16	1.72	2.18	2.85	3.41	3.95	4.50	5.10	5.80	6.69	8.07	9.34
July	3.35	3.13	1.07	0.95	1.26	1.74	2.16	2.57	3.00	3.47	4.03	4.75	5.88	6.94
August	4.19	3.77	1.11	1.37	1.77	2.35	2.85	3.33	3.82	4.36	5.00	5.81	7.07	8.22
September	3.78	1.87	2.01	0.62	0.94	1.49	2.01	2.54	3.13	3.79	4.60	5.68	7.42	9.07
October	2.15	1.36	1.58	0.21	0.37	0.66	0.96	1.29	1.65	2.09	2.63	3.36	4.59	5.79
November	1.90	1.64	1.16	0.26	0.41	0.68	0.95	1.23	1.53	1.89	2.32	2.91	3.88	4.80
December	1.20	2.38	0.51	0.26	0.37	0.55	0.71	0.87	1.04	1.23	1.46	1.76	2.25	2.70

Iowa Southeast Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.49	2.68	0.56	0.37	0.51	0.72	0.92	1.11	1.31	1.53	1.80	2.15	2.71	3.22
February	1.19	2.92	0.41	0.32	0.43	0.60	0.75	0.90	1.06	1.23	1.44	1.70	2.12	2.50
March	2.47	3.05	0.81	0.68	0.92	1.27	1.59	1.89	2.21	2.56	2.98	3.52	4.37	5.16
April	3.28	4.48	0.73	1.21	1.51	1.96	2.33	2.68	3.04	3.43	3.88	4.46	5.35	6.16
May	3.81	5.37	0.71	1.56	1.91	2.40	2.81	3.19	3.57	3.99	4.47	5.08	6.00	6.85
June	4.72	4.60	1.02	1.77	2.21	2.84	3.37	3.87	4.38	4.94	5.58	6.40	7.66	8.81
July	3.71	2.80	1.33	0.95	1.30	1.84	2.32	2.79	3.28	3.83	4.48	5.33	6.67	7.92
August	3.73	3.48	1.07	1.15	1.50	2.03	2.48	2.92	3.38	3.88	4.46	5.22	6.40	7.49
September	3.54	1.71	2.07	0.51	0.80	1.31	1.80	2.31	2.87	3.52	4.32	5.39	7.13	8.80
October	2.38	1.48	1.61	0.27	0.46	0.79	1.12	1.48	1.87	2.34	2.91	3.69	4.98	6.23
November	2.05	2.05	1.00	0.38	0.56	0.86	1.14	1.42	1.72	2.07	2.49	3.05	3.96	4.81
December	1.52	3.01	0.51	0.42	0.56	0.78	0.97	1.16	1.36	1.57	1.83	2.17	2.69	3.19



KENTUCKY



- STATION LEGEND**
- Precipitation only
 - Precipitation, wind
 - Precipitation and temperature
 - Precipitation, temperature and exposure
 - Type of data
 - Non-recording
 - Rain gauge
 - Wind tower
 - Double circle combination indicate the probability of major stream hydrological data

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 35° AND 45°

USDA/USGS
1987

USDA/USGS
1987

TABLE 35 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Lexington, Kentucky														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 37 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.48	2.47	1.81	1.01	1.43	2.09	2.68	3.27	3.89	4.60	5.44	6.54	8.30	9.96
February	3.53	3.72	0.95	1.15	1.48	1.98	2.40	2.80	3.22	3.68	4.22	4.91	5.98	6.97
March	4.82	4.10	1.18	1.67	2.13	2.79	3.35	3.88	4.43	5.03	5.73	6.63	8.01	9.29
April	3.88	5.15	0.75	1.56	1.91	2.42	2.84	3.23	3.63	4.07	4.57	5.20	6.17	7.05
May	3.91	3.25	1.20	1.14	1.51	2.07	2.56	3.03	3.52	4.06	4.70	5.53	6.82	8.03
June	4.41	4.71	0.94	1.68	2.09	2.67	3.16	3.63	4.10	4.61	5.21	5.96	7.12	8.17
July	5.01	4.35	1.15	1.81	2.28	2.96	3.53	4.08	4.63	5.24	5.94	6.84	8.23	9.50
August	3.37	5.40	0.62	1.39	1.70	2.13	2.49	2.83	3.17	3.54	3.96	4.50	5.32	6.06
September	2.70	3.00	0.90	0.74	0.99	1.38	1.72	2.05	2.40	2.79	3.25	3.84	4.78	5.65
October	2.18	3.04	0.72	0.60	0.81	1.12	1.40	1.67	1.95	2.26	2.63	3.10	3.86	4.56
November	3.17	4.10	0.77	1.10	1.40	1.83	2.20	2.55	2.91	3.31	3.77	4.35	5.26	6.10
December	3.55	3.57	0.99	1.12	1.45	1.95	2.38	2.79	3.22	3.69	4.24	4.95	6.06	7.08

Division--Kentucky Blue Grass Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.37	2.90	1.51	1.15	1.57	2.20	2.75	3.30	3.87	4.51	5.26	6.24	7.77	9.18
February	3.56	3.24	1.10	1.04	1.37	1.88	2.32	2.75	3.20	3.70	4.28	5.03	6.22	7.31
March	4.97	4.96	1.00	1.95	2.41	3.06	3.60	4.11	4.63	5.19	5.84	6.66	7.92	9.04
April	3.87	7.13	0.54	1.83	2.17	2.63	3.00	3.35	3.69	4.06	4.48	5.01	5.81	6.52
May	3.90	4.67	0.83	1.47	1.84	2.36	2.79	3.20	3.62	4.08	4.60	5.27	6.30	7.24
June	4.33	5.68	0.76	1.83	2.22	2.77	3.23	3.65	4.08	4.54	5.07	5.73	6.75	7.67
July	4.70	10.30	0.46	2.58	2.95	3.44	3.83	4.19	4.55	4.92	5.34	5.86	6.64	7.33
August	3.53	7.10	0.50	1.67	1.98	2.40	2.74	3.05	3.37	3.71	4.09	4.57	5.30	5.96
September	2.99	4.32	0.69	1.07	1.36	1.76	2.10	2.43	2.76	3.12	3.54	4.08	4.91	5.67
October	2.24	3.09	0.72	0.62	0.84	1.16	1.44	1.71	2.00	2.32	2.69	3.18	3.94	4.65
November	3.17	4.30	0.74	1.14	1.43	1.86	2.23	2.57	2.92	3.31	3.76	4.33	5.21	6.02
December	3.26	3.80	0.86	1.07	1.38	1.84	2.22	2.60	2.98	3.40	3.89	4.52	5.50	6.39

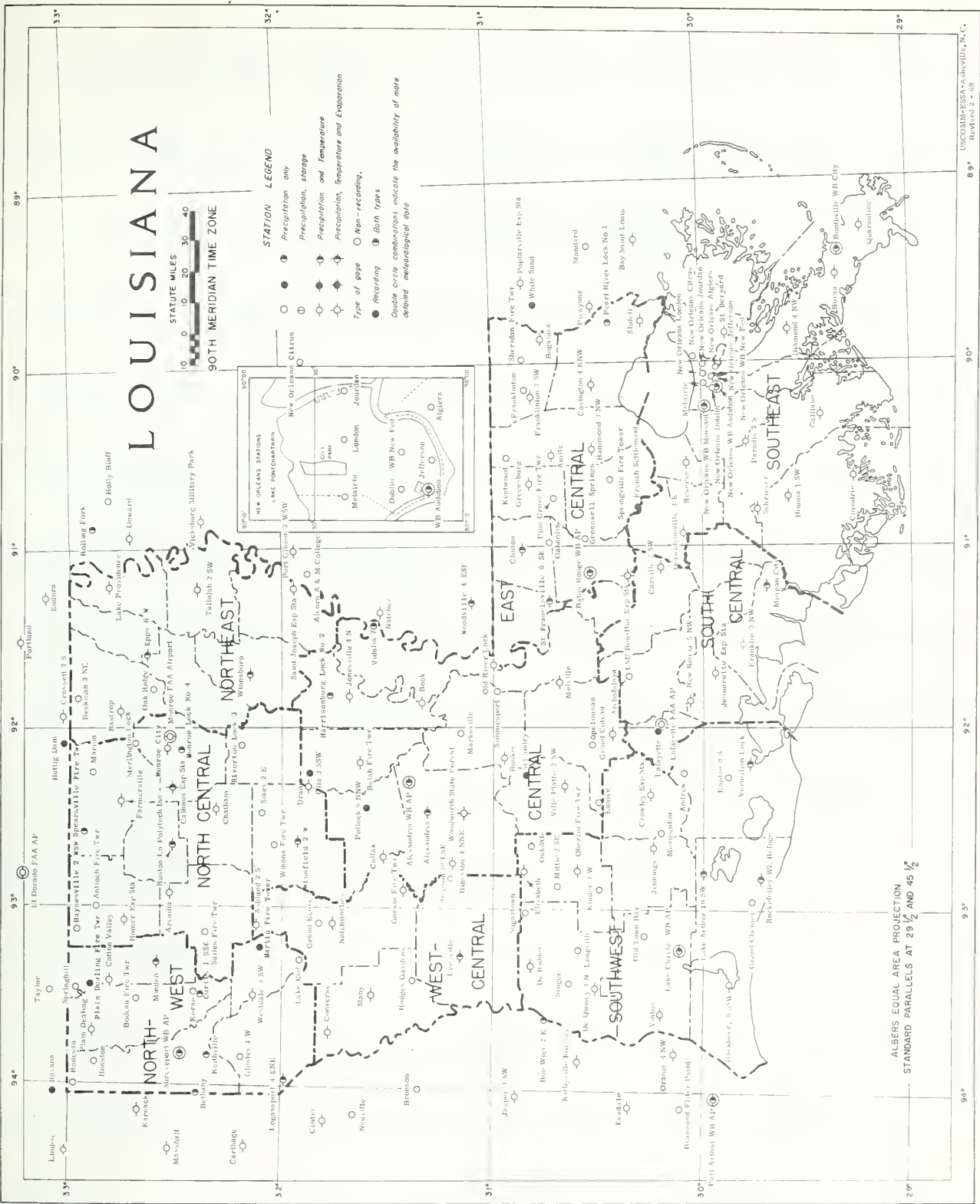
TABLE 36 - Precipitation Probabilities for Climatic Divisions

Kentucky Western Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.69	2.18	2.15	0.92	1.35	2.03	2.67	3.30	3.99	4.77	5.71	6.95	8.94	10.82
February	3.92	2.82	1.39	1.01	1.38	1.95	2.45	2.94	3.46	4.04	4.73	5.62	7.02	8.33
March	5.44	4.07	1.33	1.88	2.39	3.14	3.77	4.38	5.00	5.68	6.47	7.48	9.04	10.48
April	4.09	8.77	0.47	2.11	2.45	2.90	3.27	3.60	3.93	4.28	4.68	5.18	5.92	6.57
May	4.13	4.42	0.94	1.51	1.90	2.45	2.92	3.37	3.82	4.32	4.89	5.63	6.76	7.80
June	3.86	3.42	1.13	1.17	1.54	2.09	2.56	3.01	3.49	4.01	4.62	5.41	6.65	7.79
July	3.97	6.59	0.60	1.81	2.16	2.64	3.04	3.40	3.77	4.16	4.61	5.18	6.03	6.80
August	3.37	5.32	0.63	1.38	1.68	2.12	2.48	2.82	3.16	3.53	3.96	4.50	5.33	6.08
September	3.25	2.93	1.11	0.87	1.17	1.64	2.06	2.46	2.88	3.35	3.91	4.63	5.76	6.80
October	2.46	2.60	0.95	0.59	0.82	1.18	1.50	1.82	2.15	2.53	2.98	3.57	4.50	5.38
November	3.69	3.49	1.06	1.14	1.49	2.01	2.46	2.89	3.34	3.84	4.42	5.16	6.33	7.41
December	3.69	4.24	0.87	1.31	1.66	2.16	2.59	2.99	3.40	3.86	4.38	5.05	6.09	7.05

Kentucky Central Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.82	2.40	2.01	1.06	1.50	2.21	2.85	3.49	4.17	4.93	5.85	7.06	8.99	10.80
February	3.91	2.72	1.44	0.97	1.34	1.91	2.41	2.91	3.44	4.03	4.73	5.64	7.08	8.43
March	5.31	4.89	1.09	2.07	2.56	3.26	3.84	4.39	4.95	5.56	6.26	7.15	8.50	9.72
April	3.95	8.32	0.48	2.00	2.33	2.78	3.14	3.47	3.80	4.14	4.54	5.04	5.78	6.44
May	3.98	3.96	1.01	1.35	1.72	2.27	2.74	3.19	3.65	4.15	4.73	5.48	6.63	7.67
June	4.28	4.02	1.06	1.47	1.87	2.46	2.96	3.44	3.93	4.47	5.09	5.90	7.14	8.28
July	4.28	6.96	0.61	2.00	2.37	2.89	3.30	3.68	4.07	4.48	4.95	5.53	6.41	7.19
August	3.43	6.24	0.55	1.52	1.83	2.25	2.60	2.92	3.25	3.60	4.00	4.50	5.27	5.96
September	3.10	3.62	0.85	0.98	1.28	1.71	2.09	2.44	2.82	3.22	3.70	4.32	5.27	6.16
October	2.41	2.98	0.81	0.65	0.88	1.23	1.53	1.83	2.14	2.48	2.89	3.42	4.25	5.00
November	3.51	4.19	0.84	1.24	1.57	2.05	2.45	2.84	3.24	3.67	4.17	4.82	5.81	6.72
December	3.77	3.91	0.97	1.27	1.62	2.15	2.59	3.01	3.45	3.93	4.49	5.20	6.30	7.30

TABLE 37 - Precipitation Probabilities for Climatic Divisions

Month	Kentucky Eastern Division													
	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)								Inches -		
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.36	4.12	1.06	1.52	1.93	2.53	3.04	3.52	4.02	4.56	5.19	5.99	7.24	8.39
February	4.05	3.97	1.02	1.37	1.76	2.32	2.79	3.24	3.71	4.22	4.81	5.57	6.73	7.79
March	4.89	7.10	0.69	2.31	2.73	3.32	3.79	4.22	4.66	5.13	5.66	6.33	7.34	8.24
April	3.79	8.29	0.46	1.91	2.23	2.66	3.00	3.32	3.64	3.97	4.35	4.83	5.54	6.18
May	3.90	4.96	0.79	1.53	1.89	2.40	2.83	3.23	3.64	4.08	4.59	5.24	6.22	7.10
June	4.28	8.25	0.52	2.15	2.51	3.00	3.39	3.75	4.10	4.48	4.91	5.45	6.26	6.98
July	4.93	9.30	0.53	2.60	3.00	3.54	3.97	4.36	4.75	5.17	5.63	6.21	7.08	7.85
August	3.68	7.58	0.49	1.79	2.10	2.54	2.88	3.20	3.52	3.86	4.25	4.73	5.46	6.11
September	2.85	7.30	0.39	1.37	1.61	1.95	2.22	2.47	2.72	2.99	3.30	3.68	4.26	4.78
October	2.27	2.42	0.94	0.50	0.71	1.05	1.35	1.65	1.97	2.33	2.76	3.33	4.23	5.08
November	3.20	4.28	0.75	1.14	1.45	1.88	2.25	2.60	2.95	3.34	3.80	4.38	5.27	6.09
December	3.57	4.17	0.85	1.25	1.59	2.08	2.49	2.88	3.28	3.72	4.24	4.89	5.90	6.83



ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 25 1/2 AND 45 1/2

TABLE 38 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Baton Rouge, Louisiana														
Month	Mean	Gamma	Beta	Probabilities (Based on 37 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.87	5.00	0.97	1.92	2.37	3.01	3.54	4.04	4.55	5.10	5.73	6.54	7.78	8.91
February	4.83	3.43	1.41	1.48	1.94	2.62	3.21	3.78	4.37	5.03	5.79	6.79	8.33	9.76
March	4.70	2.43	1.93	1.05	1.48	2.17	2.79	3.41	4.08	4.82	5.71	6.88	8.74	10.50
April	5.01	3.36	1.49	1.50	1.98	2.69	3.30	3.90	4.52	5.20	6.00	7.04	8.66	10.17
May	4.56	2.61	1.75	1.09	1.52	2.19	2.78	3.37	4.00	4.69	5.53	6.62	8.34	9.96
June	4.05	2.15	1.89	0.79	1.15	1.75	2.29	2.85	3.44	4.12	4.94	6.02	7.75	9.40
July	6.53	4.87	1.34	2.53	3.14	4.00	4.72	5.39	6.08	6.83	7.69	8.79	10.46	11.97
August	5.14	3.76	1.37	1.68	2.16	2.88	3.49	4.08	4.68	5.35	6.13	7.12	8.67	10.09
September	3.68	2.16	1.71	0.72	1.05	1.59	2.09	2.59	3.13	3.74	4.48	5.46	7.04	8.53
October	2.56	0.97	2.65	0.12	0.25	0.55	0.89	1.28	1.75	2.33	3.08	4.14	5.95	7.77
November	3.99	1.44	2.77	0.44	0.74	1.29	1.85	2.44	3.11	3.89	4.87	6.20	8.39	10.53
December	5.02	5.48	0.92	2.08	2.54	3.19	3.72	4.21	4.72	5.26	5.89	6.68	7.88	8.98

Division--Louisiana East Central Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.87	6.40	0.76	2.19	2.62	3.22	3.71	4.16	4.62	5.11	5.67	6.38	7.45	8.41
February	4.94	6.01	0.82	2.15	2.60	3.22	3.72	4.20	4.67	5.18	5.77	6.51	7.64	8.66
March	5.91	3.03	1.95	1.63	2.19	3.04	3.79	4.51	5.28	6.12	7.12	8.42	10.46	12.37
April	5.26	5.20	1.01	2.12	2.60	3.29	3.85	4.38	4.92	5.51	6.18	7.03	8.34	9.53
May	5.17	3.45	1.50	1.59	2.08	2.81	3.44	4.05	4.68	5.38	6.20	7.26	8.90	10.43
June	4.94	3.16	1.56	1.41	1.88	2.59	3.20	3.80	4.43	5.12	5.94	7.00	8.67	10.22
July	6.67	8.18	0.82	3.35	3.91	4.67	5.28	5.84	6.40	6.99	7.67	8.51	9.78	10.91
August	5.31	8.27	0.64	2.68	3.12	3.73	4.21	4.66	5.10	5.57	6.10	6.77	7.77	8.67
September	4.28	2.73	1.57	1.07	1.47	2.10	2.65	3.19	3.77	4.41	5.17	6.17	7.74	9.20
October	2.80	1.34	2.09	0.27	0.47	0.85	1.24	1.66	2.14	2.70	3.41	4.38	5.99	7.57
November	4.11	1.88	2.18	0.67	1.03	1.63	2.19	2.77	3.40	4.13	5.01	6.18	8.07	9.86
December	5.67	5.32	1.07	2.31	2.83	3.57	4.17	4.74	5.32	5.94	6.66	7.57	8.96	10.23

TABLE 39 - Precipitation Probabilities for Climatic Divisions

Louisiana Northwest Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.19	3.70	1.40	1.68	2.17	2.89	3.51	4.11	4.73	5.40	6.19	7.21	8.79	10.24
February	4.42	4.77	0.93	1.70	2.11	2.69	3.18	3.65	4.12	4.63	5.22	5.97	7.12	8.17
March	4.45	6.15	0.72	1.96	2.36	2.92	3.37	3.79	4.21	4.67	5.19	5.85	6.85	7.76
April	4.97	4.54	1.09	1.85	2.31	2.98	3.54	4.07	4.61	5.20	5.89	6.76	8.10	9.32
May	5.02	3.42	1.47	1.53	2.00	2.72	3.33	3.92	4.54	5.22	6.02	7.05	8.66	10.15
June	3.18	1.33	2.39	0.30	0.53	0.96	1.40	1.89	2.43	3.07	3.88	4.98	6.82	8.62
July	3.96	2.56	1.55	0.93	1.30	1.88	2.40	2.92	3.46	4.07	4.80	5.76	7.28	8.70
August	2.99	2.46	1.22	0.67	0.95	1.39	1.78	2.18	2.59	3.06	3.63	4.37	5.54	6.65
September	2.63	2.12	1.24	0.50	0.74	1.12	1.48	1.84	2.23	2.67	3.20	3.91	5.04	6.12
October	2.78	1.32	2.11	0.26	0.46	0.83	1.22	1.64	2.12	2.68	3.39	4.36	5.98	7.57
November	4.60	2.43	1.89	1.02	1.45	2.12	2.73	3.34	3.99	4.71	5.58	6.73	8.55	10.27
December	5.13	3.01	1.70	1.40	1.89	2.63	3.28	3.91	4.58	5.31	6.18	7.32	9.09	10.75

Louisiana North Central Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.80	4.32	1.34	2.09	2.63	3.42	4.08	4.71	5.36	6.06	6.88	7.92	9.53	11.01
February	4.91	5.37	0.91	2.02	2.47	3.10	3.62	4.11	4.61	5.15	5.77	6.55	7.75	8.83
March	4.91	9.20	0.53	2.58	2.98	3.52	3.95	4.34	4.73	5.15	5.61	6.19	7.06	7.84
April	5.15	4.75	1.08	1.97	2.45	3.13	3.70	4.24	4.79	5.39	6.08	6.96	8.30	9.52
May	5.18	4.08	1.27	1.79	2.28	2.99	3.59	4.17	4.76	5.41	6.16	7.12	8.62	9.99
June	3.98	2.02	1.98	0.71	1.07	1.65	2.19	2.75	3.35	4.03	4.86	5.96	7.73	9.43
July	5.02	3.33	1.51	1.49	1.97	2.69	3.30	3.90	4.53	5.21	6.02	7.07	8.71	10.22
August	3.21	3.47	0.93	0.99	1.29	1.75	2.14	2.52	2.91	3.34	3.85	4.51	5.53	6.47
September	2.93	1.91	1.53	0.49	0.74	1.17	1.57	1.98	2.43	2.94	3.56	4.39	5.72	6.97
October	2.82	1.16	2.43	0.20	0.38	0.74	1.13	1.56	2.06	2.66	3.42	4.48	6.26	8.02
November	4.47	2.44	1.83	1.00	1.41	2.07	2.66	3.25	3.87	4.58	5.42	6.53	8.30	9.96
December	5.48	3.61	1.52	1.74	2.26	3.03	3.69	4.33	4.98	5.71	6.56	7.65	9.34	10.91

TABLE 40 - Precipitation Probabilities for
Climatic Divisions

Louisiana Northeast Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.60	3.59	1.56	1.77	2.30	3.09	3.76	4.41	5.09	5.83	6.69	7.81	9.55	11.16
February	5.28	4.44	1.19	1.93	2.43	3.14	3.74	4.30	4.89	5.52	6.25	7.19	8.63	9.95
March	5.51	11.53	0.48	3.14	3.56	4.12	4.56	4.96	5.35	5.77	6.23	6.81	7.66	8.42
April	4.97	3.62	1.37	1.58	2.05	2.75	3.35	3.93	4.52	5.18	5.95	6.94	8.47	9.89
May	4.61	3.60	1.28	1.46	1.90	2.55	3.10	3.64	4.19	4.80	5.51	6.43	7.86	9.18
June	3.77	2.59	1.45	0.90	1.25	1.80	2.29	2.78	3.30	3.88	4.57	5.47	6.90	8.25
July	4.59	3.06	1.50	1.27	1.71	2.37	2.95	3.51	4.10	4.76	5.53	6.54	8.12	9.59
August	3.15	3.13	1.01	0.89	1.19	1.64	2.03	2.42	2.82	3.26	3.79	4.47	5.53	6.52
September	2.61	1.80	1.45	0.40	0.62	1.00	1.36	1.74	2.14	2.61	3.18	3.95	5.19	6.37
October	2.37	1.10	2.16	0.15	0.30	0.59	0.92	1.28	1.71	2.22	2.88	3.79	5.34	6.88
November	4.67	1.74	2.69	0.69	1.08	1.75	2.40	3.07	3.81	4.66	5.70	7.10	9.37	11.55
December	5.37	4.57	1.18	2.01	2.51	3.23	3.83	4.40	4.99	5.62	6.36	7.30	8.74	10.05

Louisiana West Central Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.42	4.19	1.29	1.91	2.42	3.17	3.79	4.39	5.00	5.67	6.44	7.44	8.98	10.39
February	4.77	4.40	1.08	1.74	2.18	2.83	3.37	3.88	4.41	4.98	5.65	6.50	7.81	9.01
March	4.57	6.71	0.68	2.11	2.51	3.06	3.51	3.93	4.35	4.80	5.31	5.95	6.92	7.80
April	5.13	2.71	1.89	1.27	1.76	2.50	3.17	3.82	4.51	5.29	6.20	7.40	9.29	11.06
May	5.57	2.52	2.21	1.29	1.80	2.62	3.35	4.08	4.85	5.72	6.75	8.11	10.26	12.29
June	4.07	1.20	3.38	0.32	0.58	1.11	1.67	2.30	3.01	3.86	4.94	6.44	8.94	11.42
July	4.60	3.23	1.43	1.34	1.78	2.43	3.00	3.56	4.14	4.78	5.53	6.51	8.04	9.46
August	3.57	2.84	1.26	0.93	1.26	1.78	2.24	2.69	3.16	3.69	4.31	5.12	6.40	7.58
September	3.19	2.18	1.46	0.63	0.92	1.39	1.82	2.25	2.72	3.25	3.89	4.73	6.09	7.37
October	2.89	1.02	2.82	0.16	0.32	0.66	1.05	1.49	2.02	2.66	3.48	4.64	6.61	8.58
November	4.70	2.01	2.34	0.84	1.26	1.94	2.59	3.24	3.95	4.76	5.74	7.04	9.14	11.15
December	5.34	4.28	1.25	1.91	2.41	3.14	3.75	4.33	4.93	5.58	6.34	7.31	8.80	10.17

TABLE 41 - Precipitation Probabilities for Climatic Divisions

Louisiana Central Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.64	5.11	1.10	2.25	2.77	3.51	4.12	4.69	5.27	5.91	6.63	7.56	8.97	10.26
February	4.91	5.43	0.90	2.03	2.47	3.10	3.62	4.11	4.61	5.14	5.75	6.53	7.72	8.80
March	5.28	4.83	1.09	2.04	2.53	3.22	3.80	4.35	4.91	5.52	6.22	7.11	8.47	9.70
April	5.32	4.13	1.29	1.86	2.36	3.09	3.70	4.29	4.90	5.56	6.32	7.31	8.83	10.22
May	5.83	2.84	2.05	1.51	2.06	2.91	3.65	4.39	5.16	6.01	7.03	8.35	10.43	12.35
June	4.54	2.58	1.76	1.07	1.50	2.16	2.75	3.34	3.97	4.66	5.50	6.59	8.32	9.94
July	5.55	5.55	1.00	2.32	2.83	3.54	4.12	4.67	5.22	5.82	6.50	7.37	8.70	9.90
August	4.44	3.53	1.26	1.38	1.81	2.43	2.97	3.49	4.03	4.62	5.31	6.20	7.60	8.89
September	3.64	3.01	1.21	0.99	1.34	1.86	2.32	2.77	3.24	3.76	4.38	5.18	6.45	7.62
October	2.99	1.48	2.03	0.34	0.57	0.99	1.41	1.85	2.35	2.94	3.66	4.64	6.26	7.84
November	4.60	2.01	2.29	0.82	1.23	1.90	2.53	3.17	3.87	4.66	5.61	6.89	8.94	10.90
December	5.75	6.93	0.83	2.68	3.18	3.87	4.43	4.95	5.47	6.02	6.65	7.44	8.63	9.68

Louisiana Southwest Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	5.24	4.52	1.16	1.94	2.43	3.14	3.72	4.28	4.86	5.48	6.20	7.12	8.54	9.83
February	4.58	4.38	1.04	1.66	2.09	2.71	3.23	3.73	4.23	4.78	5.42	6.24	7.50	8.66
March	4.27	2.94	1.45	1.14	1.54	2.16	2.70	3.23	3.79	4.40	5.13	6.08	7.56	8.93
April	4.41	4.09	1.08	1.53	1.95	2.55	3.06	3.55	4.05	4.60	5.24	6.06	7.33	8.49
May	5.35	2.35	2.28	1.15	1.64	2.42	3.13	3.85	4.61	5.47	6.50	7.85	10.02	12.07
June	4.79	1.81	2.65	0.74	1.15	1.84	2.50	3.19	3.93	4.79	5.84	7.23	9.50	11.66
July	6.59	5.29	1.24	2.68	3.29	4.14	4.84	5.51	6.18	6.91	7.74	8.80	10.42	11.90
August	5.46	3.62	1.51	1.73	2.25	3.02	3.67	4.31	4.96	5.68	6.52	7.61	9.29	10.85
September	4.42	2.98	1.49	1.20	1.61	2.25	2.81	3.36	3.93	4.57	5.32	6.29	7.81	9.20
October	3.16	1.40	2.26	0.33	0.56	1.00	1.44	1.92	2.45	3.08	3.86	4.93	6.70	8.43
November	4.53	2.69	1.68	1.12	1.54	2.20	2.79	3.37	3.98	4.66	5.48	6.54	8.22	9.79
December	5.46	6.48	0.84	2.47	2.95	3.62	4.16	4.67	5.18	5.72	6.35	7.13	8.32	9.39

TABLE 42 - Precipitation Probabilities for Climatic Divisions

Louisiana South Central Division

Probabilities (Based on 30 years of data)

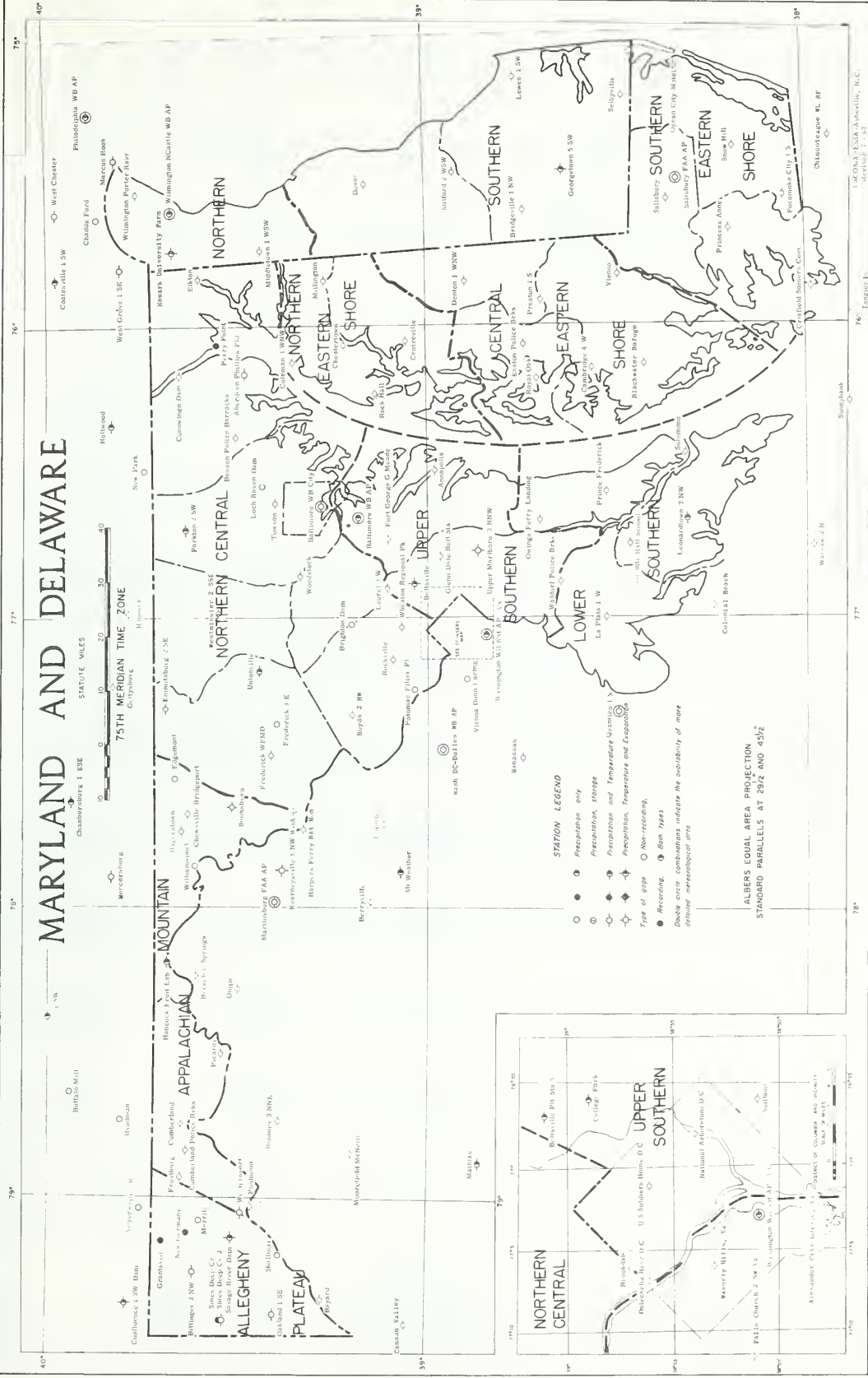
Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.58	4.76	0.96	1.75	2.18	2.79	3.29	3.77	4.26	4.79	5.40	6.18	7.38	8.46
February	4.61	5.01	0.92	1.82	2.24	2.85	3.35	3.82	4.30	4.82	5.43	6.19	7.36	8.43
March	4.67	1.98	2.36	0.82	1.23	1.91	2.55	3.20	3.90	4.70	5.67	6.96	9.03	10.96
April	4.55	6.16	0.74	2.01	2.42	2.98	3.44	3.87	4.31	4.77	5.31	5.98	7.00	7.92
May	4.80	3.88	1.24	1.60	2.06	2.73	3.29	3.83	4.39	5.00	5.72	6.63	8.04	9.32
June	5.44	3.44	1.58	1.66	2.18	2.95	3.61	4.26	4.92	5.66	6.52	7.63	9.37	10.98
July	7.60	7.98	0.95	3.77	4.42	5.29	5.99	6.63	7.28	7.96	8.73	9.70	11.14	12.41
August	6.44	5.53	1.16	2.69	3.27	4.10	4.77	5.41	6.05	6.75	7.55	8.56	10.10	11.49
September	5.35	3.30	1.62	1.58	2.09	2.85	3.51	4.15	4.82	5.55	6.42	7.54	9.29	10.92
October	2.98	1.30	2.29	0.27	0.48	0.88	1.29	1.75	2.26	2.87	3.63	4.68	6.43	8.14
November	4.02	1.85	2.17	0.65	0.99	1.57	2.13	2.70	3.32	4.03	4.90	6.06	7.93	9.71
December	5.28	6.18	0.85	2.33	2.80	3.46	3.99	4.49	4.99	5.53	6.15	6.93	8.11	9.18

Louisiana Southeast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.26	4.69	0.91	1.61	2.01	2.58	3.05	3.50	3.96	4.45	5.03	5.76	6.88	7.90
February	4.51	4.19	1.08	1.59	2.01	2.63	3.15	3.65	4.16	4.71	5.36	6.18	7.46	8.63
March	5.14	2.33	2.20	1.09	1.56	2.32	3.00	3.69	4.42	5.25	6.24	7.55	9.64	11.61
April	4.72	4.64	1.02	1.78	2.22	2.85	3.38	3.87	4.38	4.94	5.58	6.39	7.65	8.79
May	4.69	3.53	1.33	1.46	1.91	2.57	3.14	3.69	4.26	4.88	5.62	6.56	8.04	9.40
June	5.26	3.31	1.59	1.56	2.06	2.81	3.45	4.08	4.74	5.46	6.31	7.41	9.13	10.73
July	7.52	12.21	0.62	4.36	4.92	5.67	6.26	6.79	7.31	7.86	8.48	9.24	10.37	11.37
August	6.66	9.03	0.74	3.48	4.03	4.76	5.35	5.89	6.42	6.99	7.63	8.42	9.62	10.68
September	6.63	4.20	1.58	2.34	2.97	3.87	4.64	5.37	6.11	6.93	7.88	9.09	10.97	12.69
October	3.30	1.29	2.56	0.30	0.53	0.97	1.43	1.93	2.50	3.17	4.02	5.19	7.14	9.06
November	3.92	1.68	2.33	0.55	0.87	1.43	1.98	2.55	3.17	3.89	4.78	5.98	7.92	9.80
December	4.75	5.30	0.90	1.94	2.37	2.99	3.50	3.97	4.46	4.98	5.58	6.35	7.52	8.58

MARYLAND AND DELAWARE



- STATION LEGEND**
- Precipitation only
 - Precipitation, storage
 - Precipitation and Temperature (minutes 15)
 - Precipitation, Temperature and Evaporation
 - Type of gage ○ Non-recording, ● Rain types
 - Recording, ● Rain types
- Double circle combinations indicate the availability of more detailed meteorological data

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½ AND 45½

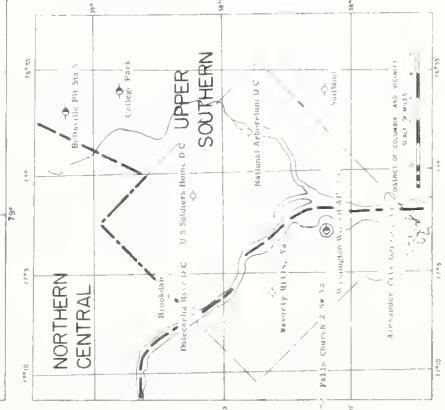


TABLE 43 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Baltimore, Maryland														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.37	4.01	0.84	1.15	1.47	1.94	2.33	2.70	3.09	3.51	4.01	4.64	5.62	6.52
February	3.08	6.56	0.47	1.40	1.67	2.05	2.35	2.64	2.92	3.23	3.58	4.02	4.69	5.28
March	3.93	6.31	0.62	1.75	2.10	2.59	2.98	3.35	3.72	4.12	4.57	5.15	6.02	6.80
April	3.69	4.13	0.89	1.29	1.64	2.14	2.57	2.98	3.40	3.86	4.39	5.07	6.13	7.10
May	3.83	4.22	0.91	1.36	1.72	2.24	2.68	3.10	3.53	4.00	4.55	5.25	6.33	7.32
June	3.76	2.72	1.39	0.94	1.29	1.84	2.32	2.80	3.31	3.88	4.55	5.43	6.81	8.11
July	4.06	2.80	1.45	1.04	1.42	2.01	2.53	3.05	3.59	4.19	4.90	5.83	7.30	8.66
August	4.28	1.95	2.19	0.74	1.11	1.74	2.32	2.92	3.57	4.31	5.21	6.40	8.32	10.12
September	3.43	1.99	1.73	0.60	0.91	1.41	1.87	2.35	2.87	3.46	4.17	5.12	6.63	8.04
October	2.98	1.94	1.54	0.51	0.77	1.21	1.61	2.03	2.49	3.00	3.63	4.46	5.80	7.06
November	3.21	2.51	1.28	0.74	1.04	1.51	1.93	2.35	2.80	3.30	3.90	4.68	5.93	7.11
December	3.13	3.43	0.91	0.95	1.25	1.70	2.08	2.45	2.83	3.25	3.75	4.39	5.39	6.32

Division--Maryland Upper Southern Division

Division--Maryland Upper Southern Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.24	4.26	0.76	1.16	1.46	1.90	2.27	2.63	2.99	3.39	3.85	4.44	5.34	6.18
February	2.81	7.99	0.35	1.40	1.63	1.96	2.21	2.45	2.69	2.94	3.23	3.58	4.12	4.58
March	3.76	6.14	0.61	1.65	1.99	2.46	2.84	3.20	3.55	3.94	4.38	4.94	5.78	6.55
April	3.39	4.51	0.75	1.26	1.57	2.03	2.41	2.78	3.15	3.55	4.02	4.61	5.53	6.37
May	3.80	4.34	0.88	1.37	1.73	2.25	2.68	3.09	3.51	3.97	4.51	5.19	6.25	7.21
June	3.72	4.98	0.75	1.46	1.80	2.29	2.70	3.08	3.47	3.89	4.37	4.99	5.92	6.76
July	4.07	4.26	0.96	1.45	1.84	2.39	2.86	3.30	3.76	4.26	4.83	5.57	6.71	7.76
August	4.85	2.95	1.64	1.30	1.76	2.46	3.08	3.68	4.31	5.01	5.84	6.91	8.59	10.13
September	3.62	2.57	1.41	0.86	1.19	1.72	2.20	2.67	3.17	3.72	4.39	5.26	6.64	7.94
October	2.97	1.89	1.57	0.49	0.75	1.18	1.59	2.00	2.46	2.98	3.61	4.45	5.81	7.10
November	3.13	2.57	1.22	0.74	1.03	1.49	1.90	2.30	2.74	3.22	3.79	4.55	5.75	6.87
December	2.90	3.51	0.83	0.90	1.18	1.59	1.94	2.28	2.63	3.02	3.48	4.06	4.98	5.83

TABLE 44 - Precipitation Probabilities for Climatic Divisions

Maryland Southern Eastern Shore Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.65	5.59	0.65	1.53	1.86	2.33	2.71	3.07	3.43	3.82	4.27	4.84	5.71	6.49
February	3.32	5.98	0.56	1.44	1.74	2.16	2.50	2.81	3.13	3.48	3.87	4.36	5.11	5.77
March	4.28	7.92	0.54	2.12	2.48	2.97	3.37	3.73	4.09	4.48	4.92	5.46	6.28	7.00
April	3.36	6.27	0.54	1.50	1.80	2.21	2.55	2.87	3.19	3.53	3.92	4.41	5.16	5.83
May	3.38	2.55	1.32	0.79	1.10	1.60	2.04	2.48	2.95	3.47	4.09	4.91	6.20	7.42
June	3.53	4.76	0.74	1.35	1.68	2.15	2.54	2.91	3.28	3.69	4.16	4.76	5.68	6.52
July	4.48	4.00	1.12	1.53	1.95	2.57	3.09	3.60	4.11	4.67	5.33	6.17	7.48	8.68
August	5.20	3.87	1.34	1.74	2.23	2.95	3.56	4.15	4.76	5.42	6.19	7.18	8.71	10.11
September	4.22	3.43	1.23	1.29	1.69	2.29	2.80	3.30	3.82	4.39	5.06	5.93	7.28	8.54
October	3.43	3.27	1.05	1.01	1.33	1.82	2.24	2.65	3.08	3.56	4.11	4.84	5.96	7.01
November	3.33	2.98	1.12	0.90	1.22	1.70	2.11	2.53	2.96	3.43	4.00	4.73	5.87	6.92
December	3.12	4.69	0.67	1.18	1.48	1.89	2.24	2.57	2.90	3.27	3.69	4.23	5.05	5.80

Maryland Central Eastern Shore Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.53	4.87	0.72	1.37	1.69	2.16	2.55	2.91	3.29	3.69	4.15	4.74	5.65	6.46
February	3.05	7.83	0.39	1.50	1.76	2.11	2.40	2.66	2.92	3.19	3.51	3.90	4.49	5.01
March	3.98	7.41	0.54	1.91	2.26	2.72	3.10	3.45	3.80	4.17	4.59	5.12	5.92	6.64
April	3.40	6.40	0.53	1.53	1.83	2.25	2.59	2.91	3.23	3.57	3.96	4.45	5.20	5.88
May	3.71	3.17	1.17	1.06	1.41	1.94	2.40	2.85	3.32	3.84	4.46	5.25	6.50	7.66
June	3.60	6.34	0.57	1.61	1.93	2.37	2.74	3.07	3.41	3.77	4.19	4.71	5.51	6.23
July	4.65	3.77	1.23	1.52	1.97	2.62	3.17	3.70	4.25	4.85	5.55	6.45	7.85	9.13
August	4.88	2.07	2.36	0.91	1.34	2.06	2.72	3.40	4.13	4.95	5.95	7.28	9.42	11.45
September	3.97	2.65	1.50	0.96	1.33	1.91	2.43	2.94	3.48	4.08	4.80	5.74	7.22	8.61
October	3.07	2.94	1.04	0.82	1.11	1.56	1.94	2.33	2.73	3.17	3.69	4.37	5.44	6.42
November	3.53	3.10	1.14	0.99	1.33	1.83	2.28	2.71	3.16	3.66	4.25	5.02	6.22	7.34
December	3.11	4.49	0.69	1.15	1.44	1.86	2.21	2.54	2.88	3.25	3.68	4.23	5.07	5.84

TABLE 45 - Precipitation Probability Values for Climatic Divisions

Maryland Lower Southern Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.50	4.43	0.79	1.28	1.61	2.08	2.48	2.86	3.24	3.66	4.15	4.77	5.73	6.61
February	2.93	6.95	0.42	1.37	1.63	1.98	2.26	2.52	2.79	3.07	3.39	3.79	4.40	4.93
March	3.73	6.68	0.56	1.71	2.04	2.50	2.86	3.21	3.55	3.92	4.34	4.86	5.66	6.37
April	3.46	5.04	0.69	1.37	1.69	2.14	2.52	2.87	3.24	3.63	4.08	4.65	5.53	6.32
May	3.67	3.05	1.20	1.01	1.36	1.89	2.35	2.81	3.28	3.80	4.42	5.23	6.49	7.67
June	3.63	6.75	0.54	1.67	1.99	2.43	2.79	3.12	3.45	3.80	4.21	4.72	5.49	6.18
July	4.72	4.34	1.09	1.70	2.14	2.79	3.32	3.83	4.36	4.93	5.59	6.44	7.75	8.95
August	4.88	2.89	1.69	1.28	1.74	2.45	3.07	3.68	4.32	5.03	5.87	6.97	8.68	10.27
September	3.83	2.00	1.91	0.68	1.02	1.58	2.10	2.64	3.22	3.87	4.67	5.73	7.45	9.08
October	3.20	2.98	1.07	0.86	1.17	1.63	2.03	2.43	2.84	3.30	3.84	4.54	5.64	6.65
November	3.28	2.83	1.16	0.85	1.16	1.63	2.05	2.47	2.90	3.38	3.95	4.70	5.87	6.96
December	3.06	3.95	0.77	1.04	1.33	1.75	2.11	2.45	2.80	3.19	3.64	4.21	5.10	5.90

Maryland Upper Southern Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.24	4.26	0.76	1.16	1.46	1.90	2.27	2.63	2.99	3.39	3.85	4.44	5.34	6.18
February	2.81	7.99	0.35	1.40	1.63	1.96	2.21	2.45	2.69	2.94	3.23	3.58	4.12	4.58
March	3.76	6.14	0.61	1.65	1.99	2.46	2.84	3.20	3.55	3.94	4.38	4.94	5.78	6.55
April	3.39	4.51	0.75	1.26	1.57	2.03	2.41	2.78	3.15	3.55	4.02	4.61	5.53	6.37
May	3.80	4.34	0.88	1.37	1.73	2.25	2.68	3.09	3.51	3.97	4.51	5.19	6.25	7.21
June	3.72	4.98	0.75	1.46	1.80	2.29	2.70	3.08	3.47	3.89	4.37	4.99	5.92	6.76
July	4.07	4.26	0.96	1.45	1.84	2.39	2.86	3.30	3.76	4.26	4.83	5.57	6.71	7.76
August	4.85	2.95	1.64	1.30	1.76	2.46	3.08	3.68	4.31	5.01	5.84	6.91	8.59	10.13
September	3.62	2.57	1.41	0.86	1.19	1.72	2.20	2.67	3.17	3.72	4.39	5.26	6.64	7.94
October	2.97	1.89	1.57	0.49	0.75	1.18	1.59	2.00	2.46	2.98	3.61	4.45	5.81	7.10
November	3.13	2.57	1.22	0.74	1.03	1.49	1.90	2.30	2.74	3.22	3.79	4.55	5.75	6.87
December	2.90	3.51	0.83	0.90	1.18	1.59	1.94	2.28	2.63	3.02	3.48	4.06	4.98	5.83

TABLE 46 - Precipitation Probabilities for Climatic Divisions

Maryland Northern Eastern Shore Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.54	4.20	0.84	1.25	1.58	2.07	2.47	2.86	3.26	3.69	4.20	4.85	5.85	6.76
February	2.97	10.31	0.29	1.63	1.86	2.18	2.42	2.65	2.87	3.11	3.38	3.71	4.20	4.63
March	3.93	7.71	0.51	1.93	2.26	2.72	3.08	3.42	3.76	4.12	4.53	5.04	5.81	6.50
April	3.39	4.65	0.73	1.28	1.59	2.05	2.43	2.78	3.15	3.55	4.01	4.59	5.49	6.31
May	3.80	4.09	0.93	1.32	1.68	2.20	2.64	3.07	3.50	3.97	4.52	5.23	6.33	7.33
June	3.44	4.29	0.80	1.23	1.55	2.02	2.41	2.79	3.17	3.59	4.08	4.70	5.66	6.54
July	4.22	4.76	0.89	1.61	2.01	2.57	3.03	3.48	3.93	4.42	4.98	5.70	6.80	7.80
August	4.48	2.97	1.51	1.21	1.63	2.28	2.84	3.40	3.98	4.63	5.39	6.38	7.92	9.33
September	3.53	2.38	1.49	0.77	1.09	1.61	2.08	2.55	3.05	3.61	4.29	5.18	6.60	7.94
October	2.77	3.03	0.91	0.76	1.02	1.42	1.77	2.11	2.47	2.86	3.33	3.94	4.89	5.79
November	3.37	3.17	1.06	0.96	1.28	1.77	2.19	2.60	3.03	3.50	4.06	4.78	5.91	6.97
December	3.09	4.28	0.72	1.10	1.39	1.81	2.17	2.50	2.85	3.23	3.66	4.22	5.09	5.88

Maryland Northern Central Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.24	4.98	0.65	1.27	1.57	2.00	2.35	2.68	3.02	3.39	3.81	4.35	5.16	5.89
February	2.83	9.41	0.30	1.50	1.73	2.04	2.28	2.51	2.73	2.96	3.23	3.56	4.06	4.50
March	3.86	8.23	0.47	1.94	2.27	2.71	3.06	3.38	3.71	4.05	4.44	4.93	5.66	6.31
April	3.57	5.04	0.71	1.41	1.74	2.21	2.60	2.97	3.34	3.74	4.20	4.79	5.70	6.52
May	3.87	4.44	0.87	1.42	1.78	2.31	2.74	3.16	3.59	4.05	4.59	5.27	6.33	7.30
June	3.79	6.18	0.61	1.67	2.01	2.48	2.87	3.22	3.58	3.97	4.42	4.97	5.82	6.59
July	4.08	5.58	0.73	1.71	2.08	2.60	3.03	3.43	3.83	4.27	4.78	5.41	6.38	7.26
August	4.38	3.71	1.18	1.42	1.83	2.44	2.97	3.47	3.99	4.56	5.23	6.09	7.42	8.64
September	3.54	3.51	1.01	1.10	1.43	1.93	2.36	2.78	3.21	3.68	4.23	4.95	6.07	7.10
October	3.11	2.72	1.14	0.78	1.07	1.52	1.92	2.32	2.74	3.21	3.76	4.49	5.63	6.70
November	3.27	3.23	1.01	0.95	1.26	1.73	2.13	2.53	2.94	3.39	3.93	4.62	5.71	6.72
December	3.11	3.61	0.86	0.99	1.28	1.72	2.09	2.45	2.83	3.24	3.72	4.34	5.30	6.19

TABLE 47 - Precipitation Probabilities for Climatic Divisions

Maryland Appalachian Mountain Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.76	4.84	0.57	1.07	1.32	1.69	1.99	2.28	2.57	2.89	3.25	3.72	4.43	5.07
February	2.39	4.98	0.48	0.94	1.16	1.48	1.74	1.98	2.23	2.50	2.81	3.21	3.81	4.34
March	3.66	5.73	0.64	1.56	1.89	2.35	2.73	3.09	3.45	3.84	4.28	4.84	5.70	6.47
April	3.38	5.22	0.65	1.36	1.67	2.11	2.47	2.82	3.16	3.54	3.97	4.52	5.35	6.11
May	3.69	4.56	0.81	1.37	1.72	2.21	2.63	3.02	3.42	3.86	4.36	5.01	6.00	6.90
June	3.72	9.90	0.38	2.01	2.31	2.71	3.02	3.31	3.60	3.90	4.24	4.66	5.28	5.83
July	3.54	7.76	0.46	1.74	2.04	2.45	2.78	3.08	3.38	3.71	4.07	4.53	5.22	5.83
August	3.72	5.46	0.68	1.54	1.88	2.36	2.75	3.12	3.50	3.90	4.36	4.95	5.85	6.66
September	3.03	3.87	0.78	1.01	1.30	1.72	2.07	2.42	2.77	3.16	3.61	4.18	5.07	5.89
October	2.87	2.15	1.34	0.56	0.82	1.24	1.63	2.02	2.44	2.92	3.50	4.27	5.50	6.67
November	2.59	3.93	0.66	0.87	1.12	1.48	1.78	2.07	2.37	2.70	3.08	3.57	4.32	5.00
December	2.59	3.68	0.70	0.83	1.08	1.44	1.75	2.05	2.36	2.70	3.10	3.61	4.40	5.13

Maryland Allegheny Plateau Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.90	5.84	0.67	1.67	2.02	2.52	2.92	3.29	3.67	4.08	4.55	5.14	6.04	6.84
February	3.31	8.39	0.39	1.68	1.96	2.33	2.63	2.91	3.18	3.47	3.80	4.21	4.83	5.39
March	4.47	8.95	0.50	2.32	2.69	3.18	3.58	3.94	4.30	4.68	5.10	5.64	6.43	7.12
April	4.14	8.91	0.46	2.15	2.49	2.95	3.31	3.65	3.98	4.33	4.73	5.23	5.96	6.61
May	4.26	5.51	0.77	1.77	2.16	2.71	3.16	3.58	4.01	4.47	5.00	5.67	6.69	7.61
June	4.51	7.19	0.63	2.14	2.54	3.07	3.50	3.91	4.31	4.74	5.22	5.84	6.76	7.59
July	4.52	7.41	0.61	2.18	2.57	3.10	3.53	3.93	4.32	4.75	5.23	5.83	6.74	7.56
August	4.20	4.66	0.90	1.59	1.98	2.54	3.01	3.45	3.90	4.39	4.96	5.69	6.80	7.82
September	3.20	3.92	0.82	1.07	1.38	1.82	2.19	2.55	2.92	3.33	3.80	4.41	5.34	6.18
October	3.00	2.63	1.14	0.72	1.01	1.44	1.83	2.22	2.63	3.09	3.63	4.35	5.47	6.53
November	3.00	7.89	0.38	1.48	1.74	2.08	2.36	2.62	2.87	3.14	3.45	3.84	4.41	4.92
December	3.39	5.50	0.62	1.41	1.72	2.15	2.51	2.85	3.19	3.55	3.98	4.51	5.33	6.06

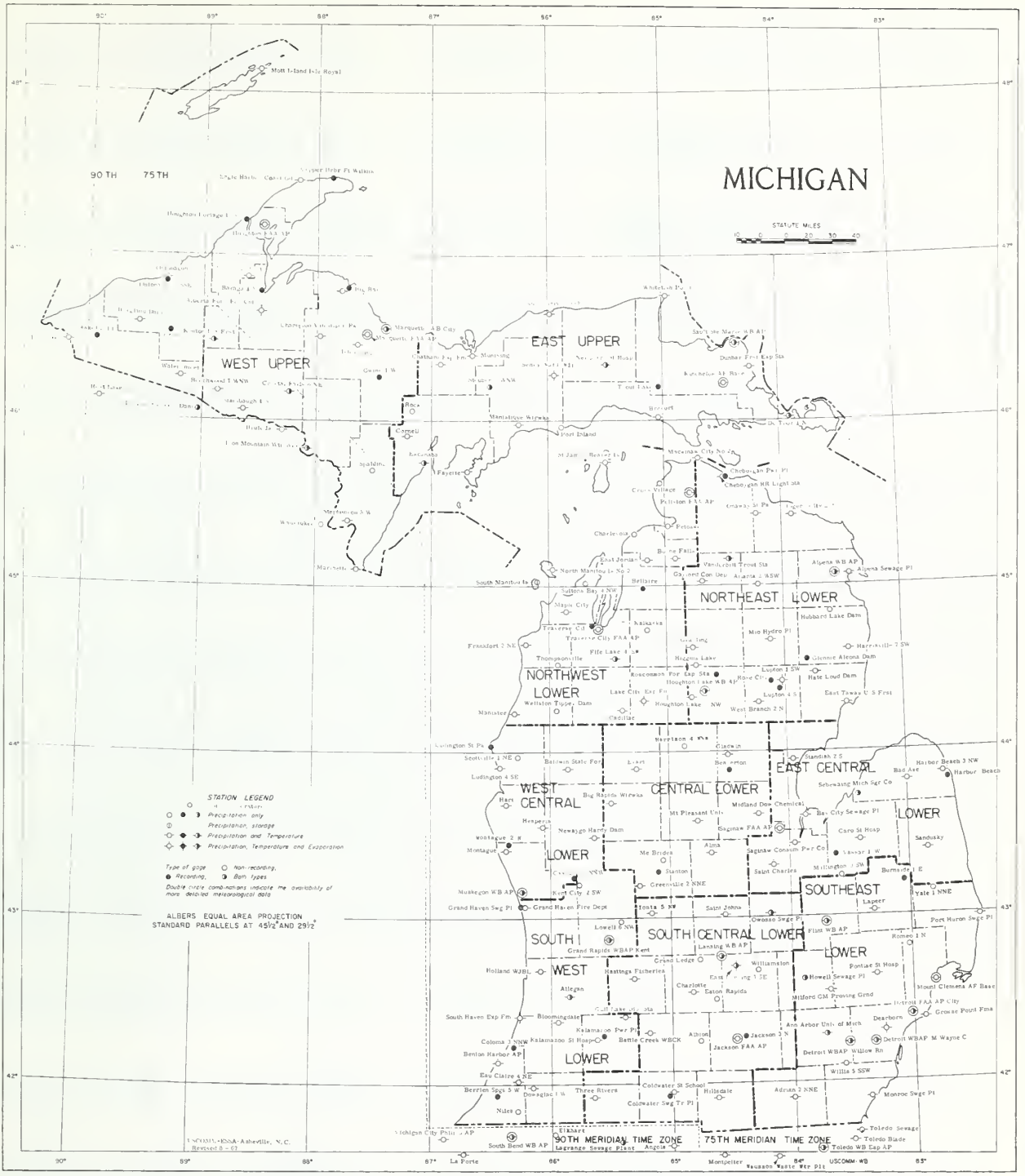


TABLE 48 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Lansing, Michigan														
Probabilities (Based on 37 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.91	4.78	0.40	0.73	0.91	1.16	1.37	1.57	1.77	1.99	2.25	2.57	3.07	3.52
February	1.83	2.77	0.66	0.46	0.64	0.90	1.14	1.37	1.62	1.89	2.21	2.63	3.30	3.92
March	2.36	5.20	0.45	0.95	1.17	1.48	1.73	1.97	2.21	2.48	2.78	3.16	3.75	4.28
April	2.84	5.06	0.56	1.13	1.39	1.76	2.07	2.36	2.65	2.97	3.34	3.81	4.53	5.18
May	3.33	3.06	1.09	0.92	1.24	1.72	2.14	2.55	2.98	3.45	4.01	4.74	5.89	6.96
June	3.42	5.97	0.57	1.48	1.79	2.22	2.57	2.90	3.23	3.58	3.99	4.50	5.27	5.95
July	2.48	2.63	0.94	0.60	0.83	1.19	1.51	1.83	2.17	2.55	3.00	3.59	4.52	5.39
August	3.03	5.11	0.59	1.21	1.49	1.89	2.21	2.52	2.84	3.18	3.57	4.07	4.83	5.52
September	2.70	3.18	0.85	0.77	1.03	1.42	1.75	2.08	2.42	2.80	3.24	3.82	4.73	5.57
October	2.30	1.97	1.17	0.40	0.60	0.94	1.25	1.57	1.92	2.32	2.80	3.43	4.45	5.41
November	2.18	3.82	0.57	0.72	0.92	1.23	1.48	1.73	1.99	2.27	2.59	3.01	3.66	4.25
December	2.01	3.82	0.53	0.67	0.86	1.14	1.37	1.60	1.84	2.10	2.40	2.79	3.39	3.93

Division - Michigan South Central Lower Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.83	4.37	0.42	0.66	0.83	1.08	1.29	1.49	1.69	1.91	2.17	2.49	3.00	3.46
February	1.69	3.69	0.46	0.54	0.70	0.94	1.14	1.34	1.54	1.76	2.02	2.35	2.86	3.34
March	2.25	5.45	0.41	0.93	1.14	1.43	1.66	1.89	2.11	2.36	2.64	2.99	3.54	4.03
April	2.98	5.23	0.57	1.21	1.48	1.87	2.19	2.49	2.79	3.12	3.50	3.98	4.72	5.39
May	3.43	4.10	0.86	1.23	1.56	2.05	2.46	2.85	3.26	3.70	4.21	4.87	5.89	6.82
June	3.76	9.41	0.40	1.99	2.30	2.71	3.03	3.33	3.62	3.94	4.29	4.73	5.39	5.97
July	2.89	5.63	0.51	1.22	1.48	1.85	2.15	2.43	2.72	3.03	3.38	3.83	4.51	5.13
August	3.20	7.51	0.43	1.55	1.82	2.20	2.50	2.78	3.05	3.35	3.69	4.11	4.75	5.32
September	3.02	4.38	0.69	1.10	1.38	1.79	2.13	2.46	2.79	3.16	3.58	4.12	4.95	5.72
October	2.50	2.27	1.10	0.52	0.75	1.11	1.45	1.79	2.15	2.55	3.04	3.69	4.72	5.70
November	2.26	6.61	0.34	1.03	1.23	1.51	1.73	1.94	2.15	2.37	2.63	2.95	3.44	3.87
December	1.84	3.46	0.53	0.57	0.74	1.00	1.22	1.44	1.67	1.92	2.21	2.58	3.17	3.71

TABLE 49 - Precipitation Probabilities for Climatic Divisions

Michigan West Upper Division

Probabilities (Based on 35 years of data)

Month	Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.78	6.88	0.26	0.83	0.99	1.20	1.37	1.53	1.70	1.87	2.06	2.31	2.68	3.01
February	1.54	4.97	0.31	0.60	0.75	0.95	1.11	1.27	1.43	1.61	1.81	2.06	2.45	2.79
March	1.73	4.89	0.35	0.67	0.83	1.06	1.25	1.43	1.61	1.80	2.03	2.32	2.76	3.16
April	2.37	5.35	0.44	0.97	1.19	1.49	1.75	1.98	2.22	2.48	2.78	3.16	3.74	4.27
May	3.21	6.60	0.49	1.47	1.75	2.14	2.46	2.75	3.05	3.37	3.73	4.19	4.88	5.50
June	3.78	5.23	0.72	1.53	1.88	2.37	2.78	3.16	3.55	3.96	4.45	5.06	6.00	6.85
July	3.29	6.01	0.55	1.43	1.73	2.14	2.48	2.79	3.11	3.45	3.84	4.33	5.08	5.76
August	3.63	9.74	0.37	1.95	2.24	2.63	2.94	3.22	3.50	3.80	4.13	4.55	5.17	5.71
September	3.48	5.90	0.59	1.50	1.82	2.26	2.61	2.95	3.29	3.65	4.07	4.59	5.38	6.09
October	2.31	4.22	0.55	0.82	1.04	1.35	1.62	1.87	2.13	2.41	2.74	3.16	3.81	4.41
November	2.74	7.50	0.36	1.33	1.56	1.88	2.14	2.38	2.62	2.87	3.16	3.52	4.07	4.56
December	1.80	11.21	0.16	1.02	1.16	1.34	1.49	1.62	1.75	1.89	2.04	2.23	2.52	2.77

Michigan East Upper Division

Probabilities (Based on 35 years of data)

Month	Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.06	7.40	0.28	0.99	1.17	1.41	1.60	1.78	1.97	2.16	2.38	2.65	3.07	3.44
February	1.69	6.47	0.26	0.76	0.91	1.12	1.29	1.45	1.61	1.77	1.97	2.21	2.58	2.91
March	1.82	6.44	0.28	0.82	0.98	1.21	1.39	1.56	1.73	1.91	2.12	2.38	2.78	3.14
April	2.21	5.67	0.39	0.93	1.13	1.42	1.65	1.86	2.08	2.32	2.59	2.93	3.45	3.92
May	2.96	7.96	0.37	1.47	1.72	2.06	2.33	2.59	2.84	3.10	3.41	3.78	4.35	4.84
June	3.26	5.50	0.59	1.36	1.65	2.07	2.42	2.74	3.07	3.42	3.83	4.34	5.13	5.84
July	2.91	5.40	0.54	1.20	1.46	1.84	2.14	2.43	2.73	3.04	3.41	3.87	4.58	5.22
August	3.07	8.65	0.35	1.58	1.83	2.18	2.45	2.70	2.95	3.22	3.52	3.90	4.46	4.96
September	3.78	7.26	0.52	1.80	2.13	2.58	2.94	3.27	3.61	3.96	4.37	4.88	5.65	6.34
October	2.55	4.20	0.61	0.90	1.14	1.49	1.78	2.06	2.35	2.66	3.02	3.49	4.21	4.87
November	3.05	7.73	0.39	1.50	1.76	2.11	2.40	2.66	2.92	3.20	3.52	3.92	4.51	5.04
December	2.23	13.32	0.17	1.33	1.49	1.71	1.87	2.02	2.17	2.33	2.51	2.72	3.04	3.32

TABLE 50 - Precipitation Probabilities for Climatic Divisions

Michigan Northwest Lower Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.90	8.11	0.23	0.95	1.11	1.33	1.50	1.66	1.82	1.99	2.18	2.43	2.79	3.11
February	1.45	5.56	0.26	0.61	0.74	0.92	1.07	1.22	1.36	1.52	1.70	1.92	2.27	2.58
March	1.71	4.94	0.35	0.67	0.82	1.05	1.23	1.41	1.59	1.78	2.01	2.29	2.72	3.11
April	2.39	5.28	0.45	0.97	1.19	1.50	1.75	2.00	2.24	2.50	2.81	3.19	3.78	4.31
May	2.90	6.09	0.48	1.27	1.53	1.90	2.19	2.47	2.74	3.04	3.39	3.82	4.47	5.07
June	2.95	5.75	0.51	1.25	1.52	1.89	2.20	2.49	2.78	3.09	3.44	3.89	4.58	5.20
July	2.74	6.80	0.40	1.27	1.51	1.84	2.10	2.35	2.60	2.87	3.17	3.55	4.13	4.64
August	3.01	5.07	0.59	1.20	1.48	1.87	2.20	2.50	2.82	3.16	3.55	4.04	4.81	5.50
September	3.83	4.43	0.86	1.40	1.76	2.28	2.71	3.12	3.55	4.01	4.54	5.22	6.27	7.23
October	2.75	3.42	0.80	0.84	1.10	1.49	1.82	2.15	2.48	2.86	3.29	3.86	4.74	5.55
November	2.87	7.15	0.40	1.36	1.61	1.95	2.22	2.48	2.73	3.01	3.32	3.71	4.30	4.83
December	1.93	15.62	0.12	1.20	1.34	1.51	1.65	1.77	1.89	2.02	2.16	2.33	2.58	2.80

Michigan Northeast Lower Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.61	5.52	0.29	0.67	0.82	1.03	1.20	1.36	1.52	1.69	1.89	2.15	2.53	2.88
February	1.36	5.00	0.27	0.54	0.66	0.84	0.99	1.13	1.27	1.42	1.60	1.83	2.17	2.47
March	1.73	5.08	0.34	0.69	0.85	1.08	1.26	1.44	1.62	1.81	2.04	2.32	2.76	3.16
April	2.34	6.67	0.35	1.07	1.28	1.56	1.79	2.01	2.22	2.45	2.71	3.04	3.54	3.99
May	2.94	5.42	0.54	1.21	1.48	1.86	2.17	2.47	2.76	3.08	3.45	3.92	4.63	5.28
June	2.88	6.56	0.44	1.31	1.57	1.92	2.21	2.47	2.74	3.03	3.35	3.76	4.39	4.95
July	2.84	7.62	0.37	1.39	1.63	1.96	2.23	2.47	2.72	2.98	3.28	3.65	4.22	4.72
August	3.02	6.26	0.48	1.34	1.61	1.98	2.29	2.57	2.86	3.16	3.51	3.96	4.63	5.23
September	3.60	4.87	0.74	1.40	1.73	2.20	2.60	2.97	3.35	3.76	4.24	4.84	5.76	6.59
October	2.43	2.84	0.86	0.63	0.86	1.21	1.53	1.83	2.15	2.51	2.94	3.49	4.36	5.16
November	2.44	8.12	0.30	1.22	1.43	1.71	1.93	2.14	2.34	2.56	2.81	3.12	3.58	4.00
December	1.67	8.92	0.19	0.87	1.01	1.19	1.34	1.48	1.61	1.75	1.91	2.11	2.41	2.68

TABLE 51 - Precipitation Probabilities for
Climatic Divisions

Michigan West Central Lower Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.21	6.15	0.36	0.97	1.17	1.45	1.67	1.88	2.09	2.32	2.58	2.90	3.40	3.85
February	1.79	4.60	0.39	0.67	0.84	1.08	1.28	1.47	1.66	1.87	2.12	2.43	2.91	3.34
March	1.99	5.59	0.36	0.84	1.02	1.27	1.48	1.68	1.88	2.09	2.33	2.65	3.12	3.55
April	2.64	3.92	0.67	0.89	1.14	1.50	1.81	2.11	2.41	2.75	3.14	3.64	4.41	5.10
May	2.88	6.06	0.48	1.26	1.52	1.88	2.17	2.45	2.73	3.02	3.36	3.79	4.45	5.04
June	2.91	5.42	0.54	1.20	1.47	1.84	2.15	2.44	2.73	3.05	3.41	3.88	4.58	5.22
July	2.60	4.66	0.56	0.98	1.22	1.57	1.86	2.13	2.41	2.72	3.07	3.52	4.20	4.83
August	3.05	5.95	0.51	1.32	1.60	1.98	2.29	2.59	2.88	3.20	3.56	4.02	4.71	5.32
September	3.53	3.78	0.93	1.16	1.49	1.98	2.40	2.80	3.22	3.67	4.21	4.89	5.95	6.92
October	2.68	2.80	0.96	0.69	0.94	1.33	1.67	2.01	2.37	2.76	3.23	3.85	4.81	5.71
November	2.92	6.09	0.48	1.28	1.54	1.91	2.20	2.48	2.76	3.06	3.40	3.84	4.50	5.09
December	2.09	7.18	0.29	0.99	1.17	1.42	1.62	1.81	1.99	2.19	2.42	2.70	3.13	3.51

Michigan Central Lower Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.70	3.58	0.47	0.54	0.70	0.94	1.14	1.34	1.54	1.77	2.03	2.37	2.90	3.39
February	1.52	3.63	0.42	0.48	0.63	0.84	1.02	1.20	1.38	1.58	1.81	2.12	2.58	3.02
March	1.95	5.72	0.34	0.83	1.01	1.25	1.46	1.65	1.84	2.05	2.29	2.59	3.04	3.46
April	2.65	4.60	0.58	0.99	1.24	1.59	1.89	2.17	2.46	2.77	3.13	3.59	4.30	4.95
May	3.00	5.64	0.53	1.26	1.54	1.92	2.23	2.52	2.82	3.14	3.51	3.97	4.68	5.32
June	3.10	6.81	0.46	1.44	1.71	2.08	2.39	2.67	2.95	3.25	3.60	4.03	4.68	5.26
July	2.66	3.83	0.69	0.88	1.13	1.50	1.82	2.12	2.43	2.77	3.17	3.68	4.47	5.19
August	3.16	5.77	0.55	1.35	1.64	2.04	2.36	2.67	2.98	3.32	3.70	4.18	4.92	5.58
September	3.37	4.62	0.73	1.27	1.58	2.03	2.41	2.77	3.13	3.53	3.99	4.57	5.47	6.29
October	2.52	2.22	1.13	0.51	0.74	1.11	1.45	1.79	2.15	2.57	3.07	3.73	4.78	5.79
November	2.45	4.85	0.51	0.95	1.18	1.50	1.77	2.03	2.29	2.57	2.89	3.31	3.94	4.51
December	1.81	4.21	0.43	0.64	0.81	1.06	1.27	1.47	1.67	1.89	2.15	2.48	3.00	3.46

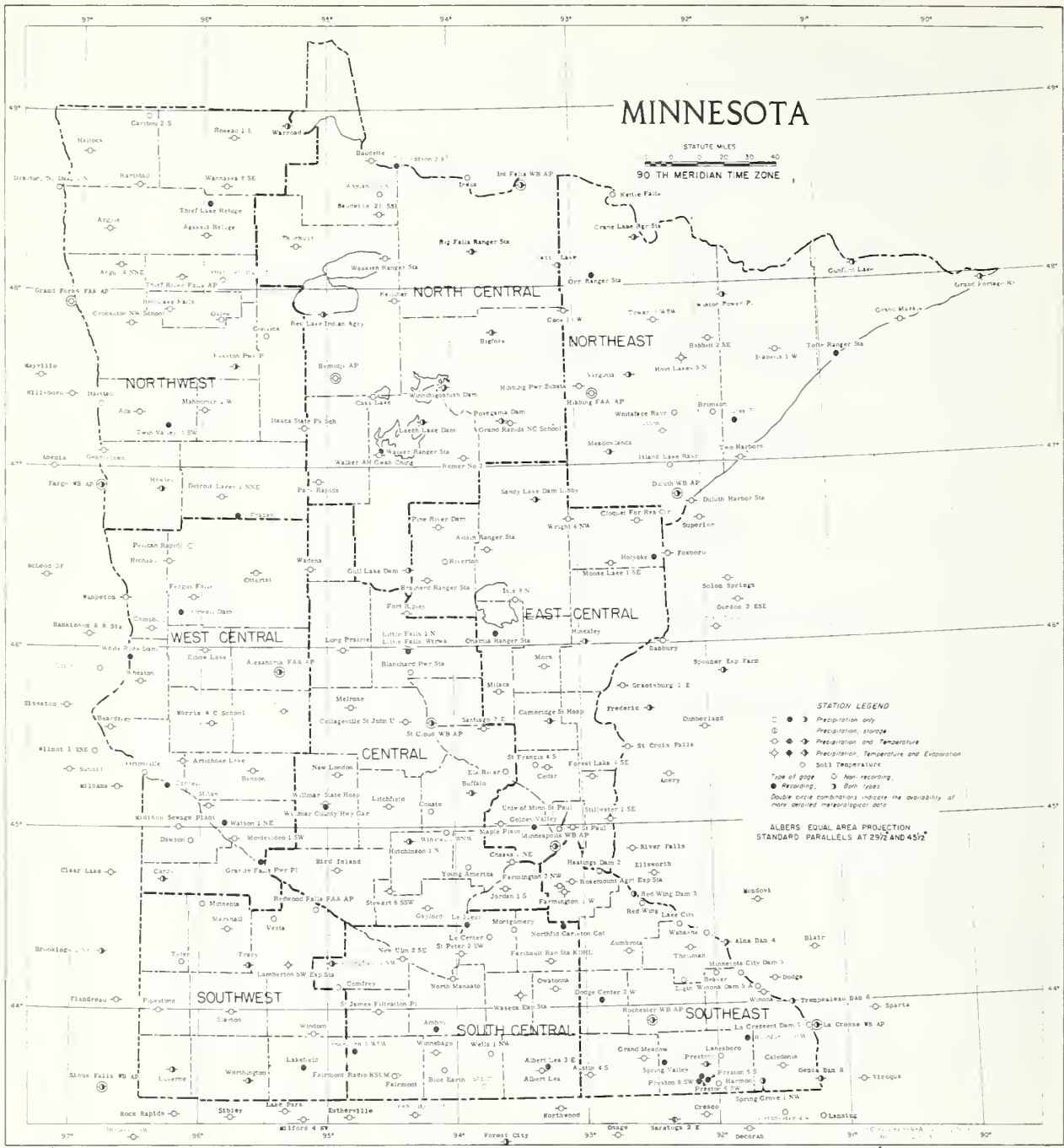
TABLE 52 - Precipitation Probabilities for
Climatic Divisions

Michigan East Central Lower Division														
Probabilities (Based on 35 years of data)														
Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.62	3.68	0.44	0.52	0.67	0.90	1.09	1.28	1.47	1.68	1.93	2.25	2.74	3.20
February	1.59	3.86	0.41	0.53	0.68	0.90	1.09	1.27	1.45	1.65	1.89	2.19	2.66	3.09
March	1.84	4.76	0.39	0.70	0.88	1.12	1.32	1.52	1.71	1.92	2.17	2.48	2.96	3.40
April	2.43	4.92	0.49	0.95	1.17	1.50	1.76	2.01	2.27	2.55	2.86	3.27	3.89	4.44
May	2.87	4.63	0.62	1.08	1.35	1.73	2.05	2.36	2.67	3.00	3.39	3.89	4.65	5.35
June	2.98	6.73	0.44	1.37	1.64	2.00	2.29	2.56	2.83	3.13	3.46	3.88	4.51	5.08
July	2.66	4.61	0.58	1.00	1.25	1.60	1.90	2.18	2.47	2.78	3.15	3.61	4.32	4.96
August	2.84	5.76	0.49	1.21	1.47	1.82	2.12	2.39	2.67	2.97	3.32	3.75	4.41	5.00
September	2.93	6.72	0.44	1.35	1.60	1.96	2.25	2.51	2.78	3.07	3.40	3.81	4.43	4.99
October	2.43	2.58	0.94	0.57	0.80	1.16	1.47	1.79	2.12	2.50	2.94	3.53	4.45	5.32
November	2.21	5.84	0.38	0.95	1.15	1.42	1.65	1.86	2.08	2.31	2.58	2.91	3.42	3.87
December	1.78	5.44	0.33	0.74	0.90	1.13	1.32	1.50	1.68	1.87	2.09	2.38	2.81	3.20

Michigan Southwest Lower Division														
Probabilities (Based on 35 years of data)														
Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.21	6.27	0.35	0.99	1.18	1.46	1.68	1.89	2.10	2.32	2.58	2.90	3.39	3.84
February	1.82	5.91	0.31	0.79	0.95	1.18	1.36	1.54	1.71	1.90	2.12	2.39	2.81	3.18
March	2.45	5.87	0.42	1.06	1.28	1.59	1.84	2.07	2.31	2.57	2.86	3.23	3.79	4.30
April	3.14	4.57	0.69	1.17	1.47	1.89	2.24	2.57	2.92	3.29	3.72	4.27	5.11	5.88
May	3.53	4.49	0.78	1.30	1.63	2.11	2.50	2.88	3.27	3.69	4.18	4.80	5.75	6.63
June	3.54	8.57	0.41	1.81	2.10	2.50	2.82	3.11	3.40	3.71	4.06	4.49	5.14	5.72
July	2.87	4.78	0.60	1.10	1.37	1.75	2.07	2.37	2.67	3.01	3.39	3.88	4.63	5.30
August	3.17	5.20	0.61	1.28	1.57	1.98	2.32	2.65	2.97	3.32	3.73	4.25	5.03	5.75
September	3.33	3.59	0.93	1.05	1.37	1.83	2.23	2.62	3.02	3.46	3.98	4.64	5.68	6.63
October	2.92	2.11	1.38	0.55	0.82	1.24	1.64	2.04	2.47	2.96	3.55	4.34	5.60	6.80
November	2.66	8.11	0.33	1.33	1.56	1.86	2.10	2.33	2.55	2.79	3.06	3.40	3.91	4.36
December	2.29	5.88	0.39	0.99	1.19	1.48	1.72	1.94	2.16	2.40	2.68	3.02	3.55	4.02

TABLE 53 - Precipitation Probabilities for
Climatic Divisions

Month	Michigan Southeast Lower Division													
	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
	Inches			0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.83	3.54	0.52	0.57	0.74	1.00	1.22	1.44	1.66	1.90	2.19	2.56	3.13	3.66
February	1.83	3.14	0.58	0.52	0.69	0.96	1.19	1.41	1.64	1.90	2.20	2.60	3.22	3.80
March	2.26	5.70	0.40	0.96	1.16	1.45	1.68	1.90	2.13	2.37	2.64	2.99	3.52	4.00
April	2.98	6.21	0.48	1.32	1.59	1.96	2.26	2.54	2.82	3.13	3.47	3.91	4.58	5.18
May	3.26	4.45	0.73	1.20	1.50	1.94	2.31	2.66	3.02	3.41	3.86	4.44	5.33	6.14
June	3.24	8.20	0.39	1.63	1.90	2.27	2.56	2.83	3.11	3.39	3.72	4.13	4.74	5.29
July	2.73	7.48	0.36	1.32	1.55	1.87	2.13	2.37	2.60	2.86	3.15	3.51	4.05	4.54
August	3.06	6.83	0.45	1.42	1.68	2.05	2.35	2.63	2.91	3.20	3.54	3.97	4.61	5.18
September	2.66	5.57	0.48	1.12	1.36	1.70	1.98	2.24	2.51	2.79	3.12	3.54	4.17	4.75
October	2.44	2.66	0.92	0.60	0.82	1.18	1.50	1.81	2.14	2.51	2.95	3.53	4.44	5.29
November	2.10	5.75	0.36	0.89	1.08	1.35	1.57	1.77	1.98	2.20	2.45	2.77	3.26	3.70
December	1.90	3.85	0.49	0.63	0.81	1.08	1.30	1.52	1.74	1.98	2.27	2.63	3.19	3.71



**TABLE 54 - Comparison of Station Data with Corresponding
Climate Division Data**

Station--St. Cloud, Minnesota														
Probabilities (Based on 37 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	0.71	1.71	0.41	0.10	0.16	0.26	0.36	0.46	0.57	0.70	0.86	1.08	1.42	1.75
February	0.79	1.56	0.50	0.10	0.16	0.27	0.38	0.50	0.63	0.78	0.96	1.21	1.62	2.02
March	1.30	2.75	0.47	0.33	0.45	0.64	0.81	0.97	1.15	1.34	1.57	1.87	2.35	2.79
April	2.06	2.73	0.76	0.51	0.71	1.01	1.27	1.54	1.81	2.12	2.49	2.97	3.73	4.43
May	3.65	2.97	1.23	0.99	1.33	1.86	2.32	2.77	3.25	3.77	4.39	5.20	6.46	7.61
June	4.34	3.58	1.21	1.37	1.78	2.39	2.91	3.42	3.94	4.52	5.19	6.06	7.41	8.66
July	3.24	3.71	0.87	1.05	1.35	1.81	2.19	2.56	2.95	3.37	3.86	4.50	5.48	6.39
August	3.90	2.96	1.32	1.05	1.42	1.98	2.47	2.96	3.46	4.02	4.69	5.55	6.89	8.12
September	2.46	2.34	1.05	0.53	0.75	1.11	1.44	1.77	2.12	2.52	2.99	3.62	4.62	5.57
October	1.50	1.38	1.09	0.15	0.26	0.47	0.68	0.91	1.16	1.46	1.84	2.35	3.20	4.02
November	1.21	1.15	1.05	0.09	0.16	0.32	0.48	0.67	0.89	1.14	1.47	1.93	2.70	3.46
December	0.73	1.36	0.54	0.07	0.13	0.23	0.33	0.44	0.56	0.71	0.89	1.14	1.56	1.97

Division--Minnesota Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	0.63	1.87	0.34	0.10	0.16	0.25	0.33	0.42	0.52	0.63	0.76	0.94	1.24	1.51
February	0.73	1.84	0.40	0.12	0.18	0.28	0.38	0.49	0.60	0.73	0.88	1.09	1.43	1.76
March	1.38	2.77	0.50	0.35	0.48	0.68	0.86	1.03	1.22	1.42	1.66	1.98	2.48	2.95
April	2.21	4.02	0.55	0.76	0.97	1.27	1.53	1.78	2.03	2.31	2.63	3.05	3.69	4.28
May	3.64	3.65	1.00	1.16	1.51	2.02	2.45	2.87	3.31	3.79	4.35	5.07	6.18	7.21
June	4.32	5.74	0.75	1.84	2.23	2.78	3.22	3.64	4.07	4.53	5.05	5.71	6.72	7.62
July	3.43	5.11	0.67	1.37	1.69	2.13	2.50	2.85	3.21	3.59	4.04	4.60	5.46	6.24
August	3.75	5.14	0.73	1.50	1.84	2.33	2.74	3.12	3.51	3.92	4.41	5.02	5.96	6.81
September	2.58	2.97	0.87	0.70	0.94	1.31	1.64	1.96	2.29	2.66	3.10	3.67	4.56	5.37
October	1.49	1.69	0.89	0.21	0.33	0.55	0.75	0.97	1.21	1.48	1.82	2.28	3.02	3.73
November	1.19	1.98	0.60	0.21	0.31	0.49	0.65	0.81	0.99	1.20	1.45	1.78	2.30	2.79
December	0.71	1.60	0.45	0.09	0.15	0.25	0.35	0.46	0.57	0.71	0.87	1.10	1.46	1.82

TABLE 55 - Precipitation Probabilities for
Climatic Divisions

Minnesota Northwest Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.59	2.47	0.24	0.13	0.19	0.27	0.35	0.43	0.51	0.60	0.71	0.86	1.09	1.30
February	0.52	2.26	0.23	0.11	0.16	0.23	0.30	0.37	0.45	0.53	0.64	0.77	0.99	1.20
March	0.85	2.98	0.28	0.23	0.31	0.43	0.54	0.64	0.75	0.87	1.02	1.20	1.49	1.76
April	1.67	2.61	0.64	0.40	0.56	0.80	1.02	1.24	1.46	1.72	2.02	2.42	3.06	3.65
May	2.56	4.19	0.61	0.90	1.14	1.49	1.79	2.07	2.36	2.67	3.04	3.51	4.23	4.90
June	3.56	6.63	0.54	1.63	1.94	2.38	2.73	3.06	3.38	3.74	4.14	4.64	5.41	6.09
July	3.24	5.49	0.59	1.35	1.64	2.06	2.40	2.72	3.04	3.40	3.80	4.31	5.09	5.79
August	3.18	5.39	0.59	1.31	1.60	2.01	2.34	2.66	2.98	3.33	3.73	4.24	5.01	5.71
September	2.27	2.54	0.89	0.53	0.74	1.07	1.37	1.67	1.98	2.33	2.75	3.31	4.18	5.00
October	1.25	2.19	0.57	0.25	0.36	0.55	0.71	0.89	1.07	1.28	1.52	1.85	2.38	2.89
November	0.95	2.90	0.33	0.25	0.34	0.48	0.60	0.71	0.84	0.98	1.14	1.35	1.68	1.99
December	0.64	3.19	0.20	0.18	0.24	0.33	0.41	0.49	0.57	0.66	0.76	0.90	1.11	1.31

Minnesota North Central Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.70	2.65	0.26	0.17	0.24	0.34	0.43	0.52	0.62	0.72	0.85	1.02	1.28	1.53
February	0.64	1.94	0.33	0.11	0.16	0.26	0.35	0.43	0.53	0.64	0.78	0.96	1.24	1.51
March	1.04	3.88	0.27	0.35	0.45	0.59	0.71	0.83	0.95	1.09	1.24	1.44	1.74	2.02
April	2.03	3.62	0.56	0.64	0.84	1.12	1.37	1.60	1.85	2.11	2.43	2.83	3.46	4.04
May	3.14	4.27	0.74	1.12	1.42	1.84	2.20	2.55	2.90	3.28	3.73	4.30	5.18	5.98
June	3.82	5.57	0.69	1.60	1.95	2.43	2.84	3.21	3.59	4.00	4.48	5.07	5.98	6.81
July	3.65	4.31	0.85	1.31	1.66	2.15	2.57	2.97	3.38	3.82	4.34	5.00	6.01	6.95
August	3.59	6.49	0.55	1.63	1.94	2.39	2.74	3.08	3.41	3.77	4.18	4.69	5.48	6.18
September	2.67	3.49	0.77	0.82	1.08	1.46	1.78	2.09	2.42	2.78	3.20	3.74	4.59	5.37
October	1.47	2.50	0.59	0.34	0.47	0.69	0.88	1.08	1.28	1.51	1.79	2.15	2.72	3.26
November	1.25	3.08	0.41	0.35	0.47	0.65	0.80	0.96	1.12	1.29	1.50	1.78	2.20	2.60
December	0.79	3.00	0.26	0.21	0.29	0.40	0.50	0.60	0.70	0.81	0.95	1.12	1.39	1.63

TABLE 56 - Precipitation Probabilities for Climatic Divisions

Minnesota Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.89	3.67	0.24	0.28	0.37	0.49	0.60	0.70	0.81	0.92	1.06	1.23	1.50	1.75
February	0.74	2.76	0.27	0.19	0.26	0.37	0.46	0.56	0.65	0.77	0.90	1.07	1.34	1.59
March	1.18	3.39	0.35	0.36	0.47	0.64	0.78	0.92	1.07	1.23	1.42	1.66	2.04	2.40
April	2.14	3.67	0.59	0.69	0.89	1.19	1.45	1.70	1.95	2.23	2.56	2.99	3.64	4.25
May	3.18	5.58	0.57	1.33	1.62	2.03	2.36	2.67	2.99	3.33	3.72	4.22	4.98	5.66
June	3.83	5.90	0.65	1.65	2.00	2.48	2.88	3.24	3.62	4.02	4.47	5.05	5.93	6.71
July	3.56	5.71	0.62	1.51	1.83	2.28	2.65	3.00	3.35	3.73	4.16	4.71	5.54	6.29
August	3.74	6.62	0.57	1.71	2.04	2.50	2.86	3.21	3.55	3.92	4.35	4.88	5.68	6.40
September	3.28	3.47	0.94	1.01	1.32	1.78	2.18	2.57	2.97	3.41	3.92	4.59	5.63	6.60
October	1.92	2.43	0.79	0.43	0.61	0.89	1.14	1.40	1.67	1.97	2.33	2.81	3.58	4.29
November	1.64	3.63	0.45	0.52	0.68	0.91	1.10	1.29	1.49	1.70	1.96	2.28	2.79	3.25
December	0.98	2.81	0.35	0.25	0.34	0.49	0.61	0.74	0.87	1.01	1.18	1.41	1.76	2.08

Minnesota West Central Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.58	1.62	0.36	0.08	0.12	0.20	0.29	0.37	0.46	0.57	0.70	0.88	1.18	1.46
February	0.69	1.50	0.46	0.08	0.13	0.23	0.33	0.43	0.54	0.68	0.84	1.07	1.44	1.80
March	1.20	3.11	0.39	0.34	0.45	0.63	0.78	0.92	1.08	1.25	1.45	1.71	2.12	2.50
April	2.27	3.37	0.67	0.68	0.90	1.22	1.50	1.77	2.05	2.36	2.73	3.20	3.93	4.61
May	3.14	3.97	0.79	1.07	1.36	1.80	2.16	2.51	2.87	3.27	3.73	4.32	5.22	6.04
June	4.10	7.36	0.56	1.97	2.32	2.81	3.20	3.56	3.92	4.30	4.74	5.29	6.12	6.86
July	3.18	4.85	0.65	1.23	1.52	1.95	2.29	2.62	2.96	3.32	3.74	4.28	5.09	5.83
August	3.25	5.41	0.60	1.34	1.64	2.06	2.40	2.73	3.05	3.41	3.82	4.33	5.12	5.84
September	2.20	2.76	0.80	0.56	0.76	1.08	1.37	1.65	1.94	2.27	2.66	3.17	3.97	4.71
October	1.29	1.43	0.90	0.14	0.24	0.41	0.59	0.79	1.00	1.26	1.57	2.00	2.71	3.40
November	0.97	1.85	0.52	0.16	0.24	0.38	0.51	0.65	0.80	0.98	1.19	1.47	1.92	2.35
December	0.63	1.86	0.34	0.10	0.16	0.25	0.34	0.43	0.52	0.64	0.77	0.95	1.25	1.53

TABLE 57 - Precipitation Probabilities for Climatic Divisions

Minnesota East Central Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.76	2.47	0.31	0.17	0.24	0.35	0.45	0.55	0.66	0.78	0.92	1.11	1.40	1.68
February	0.78	2.01	0.39	0.14	0.21	0.32	0.43	0.54	0.66	0.79	0.95	1.17	1.52	1.85
March	1.42	3.72	0.38	0.46	0.60	0.79	0.96	1.13	1.29	1.48	1.69	1.97	2.40	2.80
April	2.22	5.12	0.43	0.88	1.09	1.38	1.62	1.84	2.07	2.32	2.61	2.97	3.53	4.03
May	3.75	4.29	0.87	1.34	1.69	2.20	2.63	3.04	3.46	3.91	4.44	5.12	6.17	7.13
June	4.34	5.23	0.83	1.75	2.15	2.72	3.18	3.62	4.06	4.55	5.10	5.80	6.88	7.86
July	3.51	4.21	0.83	1.24	1.57	2.05	2.45	2.84	3.23	3.66	4.16	4.81	5.80	6.71
August	3.94	5.70	0.69	1.67	2.03	2.53	2.94	3.33	3.72	4.13	4.62	5.22	6.15	6.98
September	2.81	3.65	0.77	0.90	1.16	1.56	1.90	2.22	2.56	2.93	3.36	3.92	4.78	5.58
October	1.74	2.07	0.84	0.32	0.48	0.73	0.97	1.21	1.47	1.76	2.12	2.59	3.36	4.08
November	1.44	2.71	0.53	0.36	0.49	0.71	0.89	1.08	1.27	1.49	1.75	2.08	2.62	3.11
December	0.84	2.05	0.41	0.15	0.23	0.35	0.47	0.58	0.71	0.85	1.03	1.26	1.63	1.98

Minnesota Southwest Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.48	1.82	0.27	0.08	0.12	0.19	0.25	0.32	0.40	0.49	0.59	0.73	0.96	1.18
February	0.75	1.51	0.50	0.09	0.15	0.25	0.36	0.47	0.59	0.73	0.91	1.16	1.56	1.94
March	1.41	3.17	0.45	0.40	0.54	0.74	0.92	1.09	1.27	1.46	1.70	2.00	2.48	2.92
April	2.12	3.37	0.63	0.64	0.84	1.14	1.40	1.65	1.92	2.21	2.55	2.99	3.67	4.31
May	3.50	3.97	0.88	1.19	1.52	2.00	2.41	2.80	3.20	3.64	4.15	4.81	5.81	6.72
June	4.32	8.71	0.50	2.22	2.58	3.06	3.45	3.80	4.15	4.52	4.95	5.47	6.26	6.96
July	3.29	3.51	0.94	1.02	1.33	1.80	2.19	2.58	2.98	3.42	3.93	4.60	5.64	6.59
August	3.15	4.92	0.64	1.23	1.52	1.93	2.28	2.60	2.93	3.29	3.70	4.23	5.02	5.74
September	2.83	2.98	0.95	0.77	1.04	1.44	1.80	2.15	2.52	2.93	3.41	4.03	5.00	5.89
October	1.34	1.29	1.03	0.12	0.21	0.39	0.58	0.78	1.01	1.29	1.63	2.10	2.89	3.66
November	1.05	1.41	0.74	0.11	0.19	0.33	0.48	0.64	0.81	1.02	1.28	1.63	2.21	2.78
December	0.62	1.80	0.35	0.10	0.15	0.24	0.33	0.42	0.51	0.62	0.76	0.94	1.24	1.52

TABLE 58 - Precipitation Probabilities for Climatic Divisions

Minnesota South Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.75	1.98	0.38	0.13	0.20	0.31	0.41	0.51	0.63	0.75	0.91	1.12	1.45	1.76
February	0.90	2.16	0.42	0.17	0.26	0.39	0.51	0.63	0.76	0.91	1.09	1.33	1.72	2.08
March	1.69	4.29	0.39	0.61	0.77	1.00	1.19	1.38	1.57	1.77	2.01	2.32	2.79	3.22
April	2.30	4.53	0.51	0.85	1.07	1.38	1.63	1.88	2.13	2.40	2.72	3.12	3.74	4.31
May	3.87	4.19	0.92	1.37	1.73	2.26	2.71	3.13	3.57	4.04	4.60	5.31	6.40	7.41
June	4.47	6.04	0.74	1.95	2.35	2.91	3.37	3.80	4.23	4.69	5.22	5.89	6.90	7.82
July	3.62	3.57	1.01	1.14	1.48	1.99	2.43	2.85	3.29	3.77	4.33	5.05	6.18	7.23
August	3.80	5.87	0.65	1.64	1.98	2.46	2.85	3.22	3.59	3.98	4.44	5.01	5.88	6.66
September	3.02	2.64	1.15	0.73	1.01	1.46	1.85	2.24	2.65	3.11	3.66	4.38	5.51	6.57
October	1.56	1.34	1.16	0.15	0.26	0.48	0.69	0.93	1.20	1.51	1.91	2.45	3.34	4.22
November	1.34	1.81	0.74	0.21	0.32	0.52	0.70	0.89	1.10	1.34	1.63	2.03	2.66	3.27
December	0.91	2.36	0.38	0.20	0.28	0.41	0.53	0.65	0.78	0.93	1.10	1.33	1.70	2.04

Minnesota Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.86	2.11	0.41	0.16	0.24	0.36	0.48	0.60	0.73	0.87	1.04	1.27	1.65	2.00
February	0.89	1.68	0.53	0.12	0.20	0.32	0.45	0.58	0.72	0.88	1.08	1.36	1.80	2.22
March	1.83	4.14	0.44	0.64	0.81	1.06	1.27	1.47	1.68	1.91	2.17	2.51	3.03	3.51
April	2.32	5.54	0.42	0.97	1.18	1.48	1.72	1.95	2.18	2.43	2.72	3.09	3.64	4.14
May	3.79	4.75	0.80	1.45	1.80	2.31	2.72	3.12	3.53	3.97	4.47	5.12	6.11	7.01
June	4.35	5.80	0.75	1.86	2.26	2.81	3.26	3.68	4.10	4.56	5.09	5.75	6.76	7.66
July	3.62	3.78	0.96	1.19	1.53	2.04	2.47	2.88	3.31	3.77	4.32	5.02	6.11	7.10
August	3.93	5.77	0.68	1.68	2.03	2.53	2.93	3.32	3.70	4.11	4.59	5.19	6.10	6.92
September	3.37	2.27	1.49	0.69	1.00	1.50	1.95	2.40	2.89	3.44	4.10	4.97	6.37	7.69
October	1.74	2.08	0.84	0.32	0.48	0.74	0.97	1.21	1.47	1.76	2.12	2.59	3.35	4.08
November	1.66	1.97	0.84	0.29	0.43	0.68	0.90	1.13	1.38	1.67	2.02	2.47	3.21	3.90
December	0.94	1.88	0.50	0.15	0.24	0.37	0.50	0.64	0.78	0.95	1.15	1.42	1.86	2.27

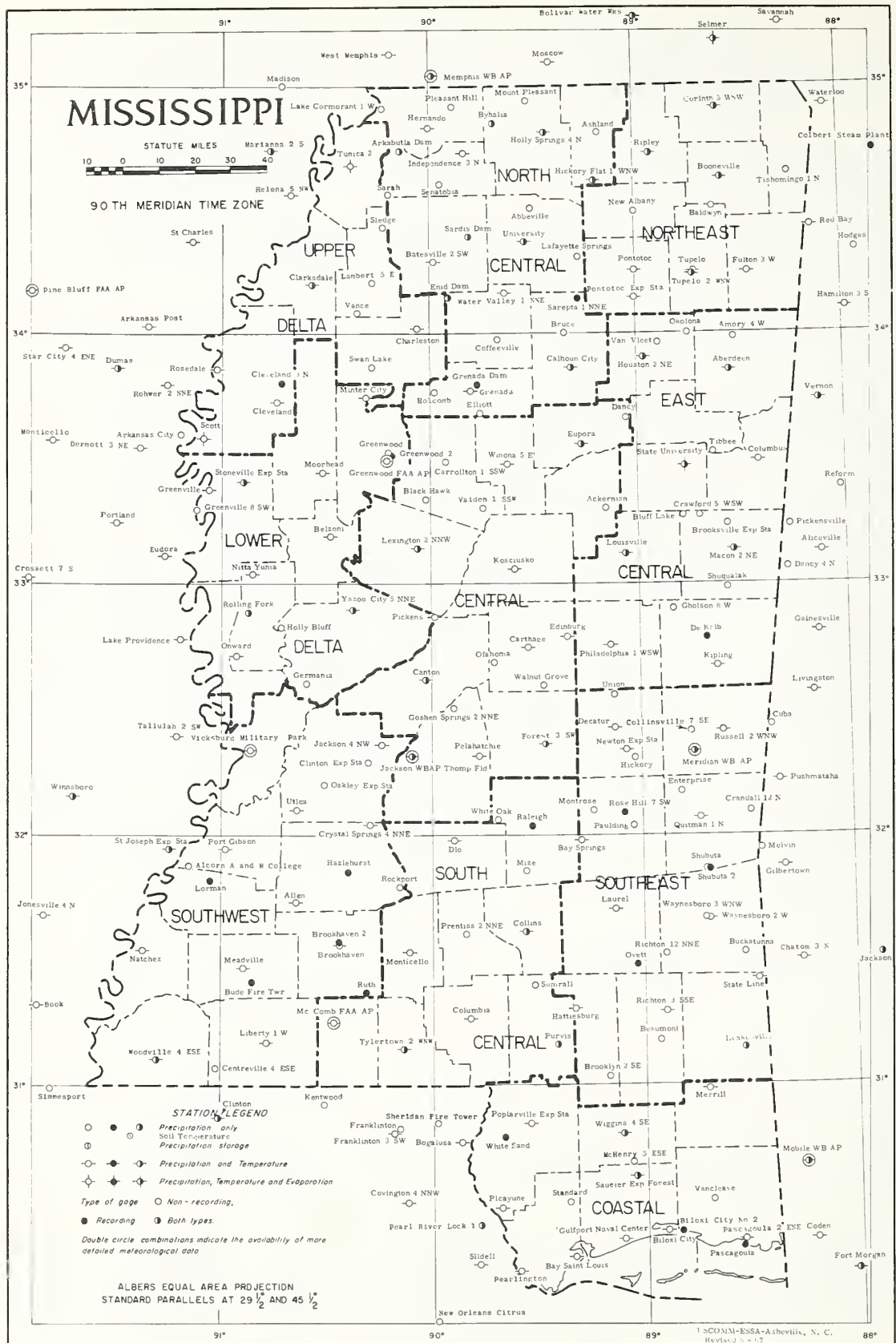


TABLE 59 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Meridian, Mississippi														
Probabilities (Based on 37 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.77	3.26	1.46	1.39	1.85	2.53	3.12	3.69	4.29	4.95	5.73	6.73	8.31	9.77
February	5.30	3.46	1.53	1.63	2.13	2.88	3.53	4.15	4.80	5.51	6.35	7.43	9.12	10.68
March	6.23	4.63	1.35	2.34	2.92	3.76	4.45	5.11	5.79	6.52	7.36	8.44	10.10	11.61
April	5.19	2.75	1.89	1.31	1.79	2.55	3.22	3.88	4.57	5.35	6.27	7.47	9.37	11.13
May	3.94	1.84	2.14	0.63	0.97	1.54	2.08	2.64	3.25	3.95	4.80	5.94	7.77	9.52
June	4.14	4.31	0.96	1.49	1.88	2.44	2.91	3.36	3.82	4.32	4.91	5.65	6.81	7.86
July	5.84	2.46	2.38	1.32	1.86	2.71	3.48	4.25	5.07	5.99	7.09	8.53	10.83	12.99
August	3.51	2.96	1.19	0.94	1.27	1.78	2.22	2.66	3.11	3.62	4.22	4.99	6.20	7.31
September	3.00	2.39	1.26	0.65	0.93	1.37	1.77	2.17	2.59	3.07	3.65	4.40	5.60	6.74
October	2.16	0.79	2.73	0.06	0.14	0.35	0.61	0.94	1.34	1.86	2.54	3.53	5.26	7.02
November	3.45	1.89	1.82	0.57	0.87	1.37	1.84	2.33	2.86	3.46	4.20	5.18	6.76	8.25
December	5.64	5.52	1.02	2.35	2.87	3.59	4.18	4.74	5.31	5.92	6.62	7.50	8.86	10.08

Division--Mississippi Southeast Division														
Probabilities (Based on 30 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.89	6.06	0.81	2.14	2.58	3.19	3.69	4.15	4.62	5.12	5.70	6.43	7.54	8.54
February	5.09	6.88	0.74	2.37	2.81	3.42	3.92	4.38	4.84	5.33	5.89	6.60	7.66	8.60
March	6.57	5.38	1.22	2.70	3.30	4.15	4.84	5.50	6.17	6.88	7.71	8.76	10.36	11.81
April	5.39	5.25	1.03	2.18	2.68	3.38	3.95	4.50	5.05	5.65	6.33	7.20	8.54	9.75
May	4.49	3.29	1.37	1.32	1.75	2.39	2.95	3.49	4.05	4.67	5.40	6.34	7.81	9.18
June	4.30	5.21	0.83	1.74	2.13	2.69	3.15	3.59	4.03	4.51	5.06	5.76	6.83	7.80
July	6.77	6.16	1.10	2.99	3.59	4.43	5.12	5.76	6.41	7.10	7.89	8.89	10.41	11.79
August	4.22	6.28	0.67	1.88	2.26	2.78	3.20	3.60	4.00	4.43	4.92	5.54	6.47	7.32
September	3.82	2.90	1.32	1.01	1.37	1.92	2.40	2.88	3.38	3.94	4.60	5.45	6.79	8.03
October	2.49	1.28	1.94	0.22	0.39	0.73	1.07	1.45	1.88	2.39	3.03	3.92	5.39	6.84
November	3.90	2.11	1.85	0.74	1.09	1.66	2.19	2.73	3.31	3.96	4.76	5.81	7.50	9.10
December	5.37	5.47	0.98	2.23	2.72	3.41	3.98	4.51	5.05	5.63	6.30	7.15	8.44	9.62

**TABLE 60 - Precipitation Probabilities for
Climatic Divisions**

Mississippi Upper Delta Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	6.06	2.92	2.08	1.61	2.18	3.06	3.83	4.58	5.38	6.26	7.30	8.65	10.77	12.72
February	5.04	3.89	1.30	1.69	2.16	2.86	3.45	4.02	4.61	5.25	6.00	6.96	8.43	9.78
March	5.87	6.85	0.86	2.73	3.24	3.95	4.52	5.05	5.58	6.15	6.80	7.61	8.84	9.93
April	4.89	4.92	0.99	1.91	2.36	3.00	3.54	4.04	4.55	5.11	5.75	6.56	7.80	8.92
May	4.22	3.19	1.32	1.21	1.61	2.21	2.74	3.25	3.78	4.37	5.07	5.97	7.38	8.69
June	3.58	3.46	1.03	1.10	1.44	1.94	2.38	2.80	3.24	3.72	4.28	5.01	6.15	7.20
July	3.93	2.81	1.40	1.01	1.38	1.95	2.45	2.95	3.47	4.05	4.74	5.63	7.05	8.36
August	2.38	2.80	0.85	0.61	0.83	1.18	1.48	1.78	2.10	2.45	2.87	3.41	4.27	5.07
September	2.98	1.82	1.64	0.47	0.72	1.15	1.56	1.99	2.45	2.99	3.64	4.51	5.92	7.26
October	2.60	1.28	2.03	0.23	0.41	0.76	1.12	1.52	1.97	2.50	3.17	4.10	5.64	7.16
November	4.46	2.82	1.58	1.15	1.57	2.22	2.79	3.35	3.94	4.60	5.38	6.40	8.00	9.48
December	4.95	3.28	1.51	1.45	1.93	2.63	3.24	3.84	4.46	5.14	5.95	6.99	8.62	10.13

Mississippi North Central Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	6.03	3.08	1.96	1.68	2.25	3.12	3.88	4.62	5.39	6.25	7.26	8.58	10.64	12.57
February	5.18	3.86	1.34	1.72	2.21	2.93	3.54	4.13	4.73	5.39	6.16	7.15	8.68	10.07
March	5.80	6.44	0.90	2.62	3.13	3.84	4.42	4.96	5.50	6.08	6.74	7.58	8.85	9.99
April	5.05	5.44	0.93	2.09	2.55	3.20	3.74	4.24	4.75	5.30	5.93	6.73	7.95	9.06
May	4.07	4.77	0.85	1.56	1.94	2.48	2.93	3.35	3.79	4.26	4.80	5.49	6.55	7.51
June	3.78	2.48	1.52	0.86	1.21	1.76	2.26	2.76	3.28	3.87	4.58	5.51	6.99	8.38
July	4.20	3.57	1.17	1.32	1.72	2.31	2.82	3.31	3.81	4.37	5.02	5.86	7.17	8.38
August	3.07	3.69	0.83	0.99	1.28	1.71	2.08	2.43	2.80	3.20	3.67	4.27	5.20	6.06
September	3.35	2.58	1.30	0.79	1.10	1.59	2.03	2.47	2.93	3.44	4.06	4.86	6.14	7.34
October	2.79	2.16	1.29	0.54	0.79	1.20	1.58	1.96	2.37	2.83	3.39	4.13	5.32	6.46
November	4.60	3.19	1.44	1.32	1.76	2.42	2.99	3.55	4.13	4.77	5.53	6.51	8.05	9.49
December	5.17	3.38	1.53	1.56	2.05	2.78	3.41	4.03	4.67	5.37	6.20	7.26	8.93	10.48

TABLE 61 - Precipitation Probabilities for Climatic Divisions

Mississippi Northeast Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.91	3.55	1.66	1.85	2.41	3.25	3.96	4.65	5.37	6.15	7.07	8.26	10.11	11.82
February	5.39	3.79	1.42	1.77	2.28	3.03	3.67	4.28	4.92	5.61	6.42	7.46	9.07	10.55
March	6.02	6.89	0.87	2.80	3.33	4.05	4.64	5.18	5.73	6.31	6.97	7.80	9.05	10.17
April	4.80	7.57	0.63	2.33	2.74	3.31	3.76	4.17	4.59	5.03	5.54	6.17	7.12	7.98
May	3.96	4.85	0.82	1.53	1.90	2.42	2.86	3.27	3.69	4.14	4.66	5.33	6.35	7.26
June	3.84	3.11	1.23	1.08	1.44	2.00	2.48	2.94	3.43	3.98	4.62	5.45	6.75	7.97
July	4.35	5.74	0.76	1.85	2.24	2.80	3.25	3.67	4.10	4.56	5.09	5.75	6.77	7.68
August	3.07	3.10	0.99	0.86	1.15	1.59	1.98	2.36	2.75	3.18	3.70	4.37	5.41	6.39
September	3.28	1.70	1.93	0.47	0.74	1.21	1.66	2.14	2.66	3.27	4.00	5.00	6.62	8.18
October	2.76	1.82	1.52	0.43	0.67	1.07	1.45	1.85	2.28	2.77	3.37	4.17	5.47	6.71
November	4.57	2.65	1.73	1.11	1.54	2.20	2.80	3.39	4.01	4.70	5.53	6.61	8.32	9.93
December	5.17	3.77	1.37	1.69	2.19	2.91	3.52	4.11	4.72	5.39	6.17	7.17	8.72	10.14

Mississippi Lower Delta Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.61	3.27	1.71	1.65	2.18	2.98	3.68	4.35	5.05	5.83	6.74	7.92	9.77	11.49
February	5.05	4.80	1.05	1.94	2.41	3.08	3.64	4.16	4.70	5.28	5.95	6.81	8.12	9.30
March	5.63	10.12	0.56	3.07	3.51	4.11	4.58	5.01	5.44	5.89	6.40	7.04	7.98	8.81
April	5.05	4.56	1.11	1.88	2.35	3.03	3.60	4.13	4.68	5.28	5.97	6.86	8.21	9.45
May	3.86	3.43	1.13	1.18	1.55	2.09	2.56	3.02	3.50	4.02	4.63	5.42	6.66	7.80
June	3.76	2.68	1.40	0.92	1.28	1.82	2.31	2.79	3.30	3.87	4.55	5.43	6.83	8.13
July	4.22	3.32	1.27	1.25	1.66	2.26	2.78	3.28	3.81	4.39	5.07	5.95	7.33	8.61
August	2.78	3.79	0.73	0.91	1.18	1.56	1.89	2.21	2.54	2.90	3.31	3.85	4.68	5.45
September	2.85	1.81	1.57	0.45	0.69	1.10	1.49	1.90	2.35	2.86	3.48	4.31	5.66	6.94
October	2.52	1.68	1.50	0.35	0.56	0.92	1.27	1.64	2.04	2.51	3.08	3.85	5.10	6.30
November	4.54	2.64	1.72	1.10	1.52	2.19	2.78	3.36	3.98	4.67	5.49	6.57	8.27	9.87
December	5.23	3.82	1.37	1.73	2.22	2.95	3.57	4.16	4.78	5.45	6.23	7.24	8.79	10.21

TABLE 62 - Precipitation Probabilities for Climatic Divisions

Mississippi Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.51	3.44	1.60	1.68	2.21	2.99	3.66	4.31	4.98	5.73	6.60	7.73	9.48	11.11
February	5.22	5.09	1.03	2.08	2.56	3.25	3.81	4.34	4.89	5.47	6.15	7.01	8.33	9.52
March	5.95	9.40	0.63	3.15	3.63	4.28	4.80	5.27	5.74	6.23	6.79	7.49	8.53	9.45
April	4.72	5.04	0.94	1.87	2.30	2.92	3.43	3.92	4.41	4.94	5.56	6.34	7.53	8.62
May	4.03	4.93	0.82	1.57	1.95	2.48	2.92	3.34	3.76	4.22	4.75	5.42	6.44	7.35
June	3.74	3.86	0.97	1.24	1.60	2.12	2.56	2.98	3.42	3.89	4.45	5.16	6.27	7.27
July	5.21	4.06	1.28	1.80	2.29	3.01	3.61	4.19	4.79	5.44	6.20	7.17	8.68	10.06
August	3.25	5.41	0.60	1.34	1.64	2.05	2.40	2.72	3.05	3.41	3.81	4.33	5.12	5.84
September	2.81	2.75	1.02	0.71	0.97	1.38	1.74	2.10	2.47	2.89	3.39	4.04	5.06	6.02
October	2.31	1.54	1.50	0.28	0.46	0.79	1.11	1.45	1.83	2.27	2.82	3.56	4.78	5.95
November	4.14	2.14	1.93	0.80	1.17	1.78	2.33	2.90	3.51	4.20	5.04	6.14	7.92	9.61
December	5.17	5.25	0.98	2.10	2.57	3.24	3.79	4.32	4.85	5.42	6.08	6.91	8.19	9.35

Mississippi East Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.44	3.15	1.73	1.55	2.06	2.84	3.52	4.18	4.87	5.64	6.54	7.71	9.55	11.25
February	5.52	4.71	1.17	2.10	2.61	3.35	3.96	4.54	5.13	5.77	6.52	7.46	8.91	10.23
March	5.93	9.92	0.60	3.20	3.68	4.31	4.81	5.27	5.72	6.20	6.74	7.41	8.40	9.27
April	4.47	5.06	0.88	1.77	2.19	2.77	3.25	3.71	4.18	4.68	5.26	6.00	7.13	8.15
May	3.76	5.88	0.64	1.62	1.96	2.43	2.82	3.18	3.54	3.94	4.39	4.95	5.81	6.58
June	3.48	3.75	0.93	1.14	1.47	1.95	2.37	2.77	3.18	3.63	4.16	4.83	5.89	6.85
July	5.27	4.23	1.25	1.87	2.37	3.09	3.69	4.27	4.86	5.50	6.26	7.22	8.70	10.06
August	3.20	4.96	0.64	1.25	1.55	1.97	2.32	2.64	2.98	3.34	3.76	4.29	5.09	5.81
September	3.10	2.63	1.18	0.75	1.04	1.49	1.89	2.29	2.71	3.18	3.75	4.48	5.65	6.74
October	2.54	1.60	1.59	0.33	0.53	0.89	1.25	1.62	2.03	2.51	3.10	3.90	5.20	6.46
November	3.93	2.40	1.64	0.86	1.22	1.80	2.32	2.84	3.40	4.02	4.77	5.76	7.33	8.81
December	4.84	5.75	0.84	2.06	2.50	3.11	3.61	4.08	4.56	5.07	5.66	6.40	7.53	8.54

TABLE 63 - Precipitation Probabilities for Climatic Divisions

Mississippi Southwest Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.44	4.50	1.21	2.01	2.52	3.25	3.86	4.45	5.04	5.69	6.44	7.40	8.87	10.22
February	5.21	5.54	0.94	2.18	2.65	3.32	3.87	4.38	4.90	5.46	6.11	6.93	8.17	9.30
March	5.94	6.87	0.86	2.76	3.28	4.00	4.57	5.11	5.65	6.22	6.88	7.70	8.94	10.04
April	5.15	3.60	1.43	1.63	2.12	2.84	3.46	4.06	4.68	5.36	6.16	7.19	8.79	10.26
May	4.77	3.71	1.29	1.54	1.99	2.66	3.23	3.78	4.34	4.96	5.69	6.62	8.07	9.40
June	4.17	3.62	1.15	1.33	1.72	2.31	2.81	3.29	3.79	4.34	4.98	5.81	7.10	8.29
July	5.14	4.84	1.06	1.99	2.46	3.14	3.71	4.24	4.79	5.37	6.06	6.92	8.24	9.44
August	3.70	5.43	0.68	1.53	1.87	2.34	2.73	3.10	3.48	3.88	4.34	4.93	5.83	6.64
September	2.99	2.69	1.11	0.74	1.02	1.45	1.84	2.22	2.62	3.07	3.61	4.31	5.42	6.45
October	2.32	1.65	1.40	0.32	0.51	0.84	1.16	1.50	1.87	2.30	2.83	3.54	4.71	5.83
November	4.21	1.79	2.35	0.65	1.01	1.62	2.20	2.80	3.46	4.22	5.14	6.38	8.38	10.29
December	5.59	7.69	0.73	2.74	3.21	3.86	4.39	4.87	5.35	5.86	6.45	7.18	8.27	9.25

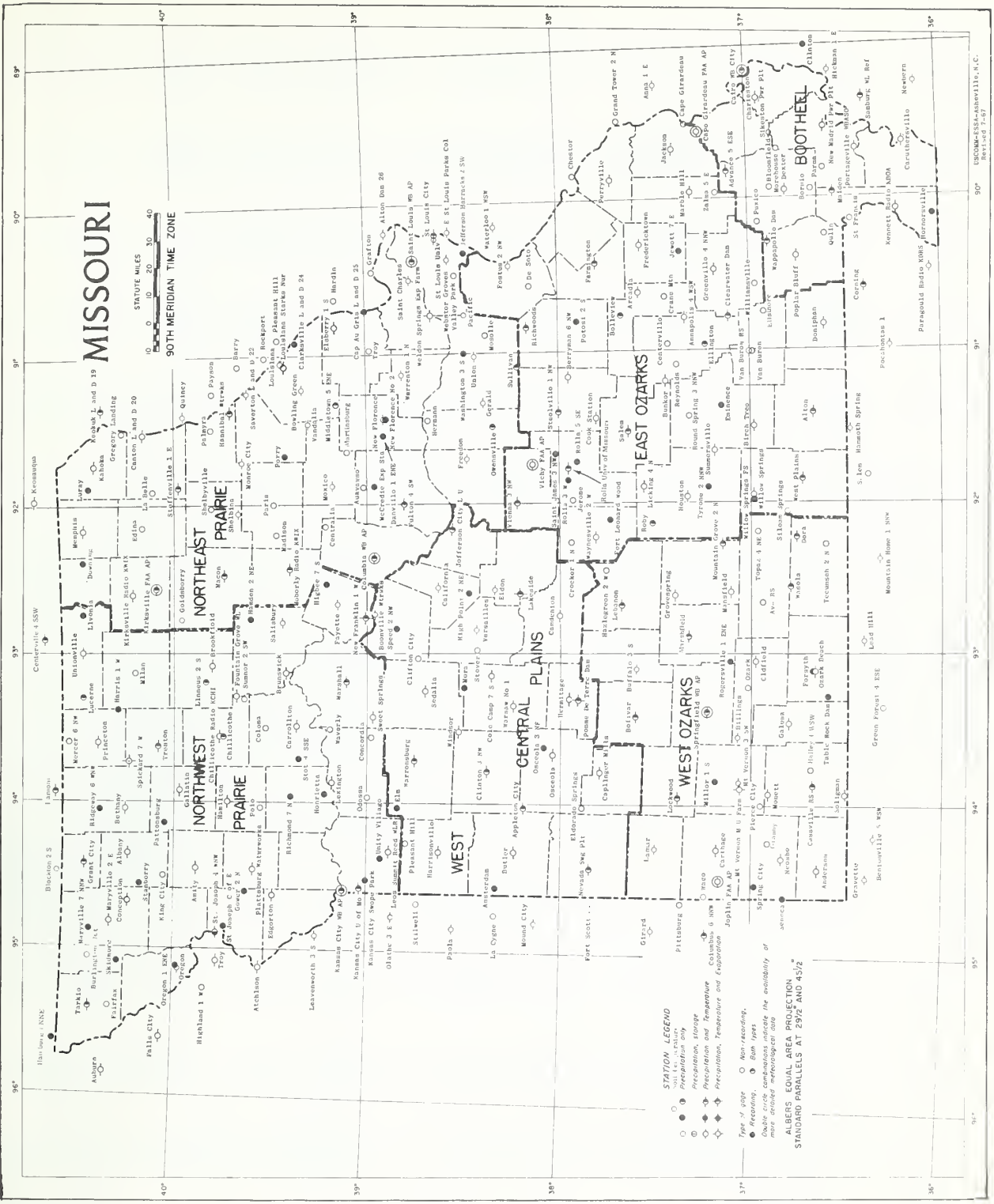
Mississippi South Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.15	4.84	1.06	1.99	2.47	3.15	3.72	4.25	4.80	5.39	6.07	6.94	8.27	9.47
February	5.17	6.64	0.78	2.37	2.82	3.45	3.96	4.44	4.91	5.42	6.00	6.74	7.84	8.84
March	6.24	3.91	1.60	2.10	2.69	3.55	4.29	4.99	5.71	6.50	7.43	8.61	10.43	12.08
April	5.44	3.68	1.48	1.75	2.27	3.03	3.68	4.31	4.96	5.67	6.50	7.57	9.24	10.77
May	4.81	2.97	1.62	1.30	1.75	2.45	3.05	3.65	4.27	4.96	5.78	6.84	8.49	10.00
June	4.57	2.30	1.98	0.96	1.38	2.05	2.66	3.27	3.93	4.67	5.55	6.73	8.60	10.37
July	6.12	3.86	1.58	2.04	2.62	3.47	4.19	4.88	5.59	6.37	7.29	8.45	10.26	11.90
August	4.26	6.00	0.71	1.85	2.24	2.77	3.20	3.61	4.02	4.46	4.96	5.60	6.55	7.40
September	3.88	2.36	1.65	0.84	1.19	1.76	2.28	2.80	3.35	3.97	4.72	5.70	7.26	8.74
October	2.62	1.68	1.56	0.37	0.58	0.96	1.33	1.71	2.13	2.61	3.20	4.00	5.31	6.56
November	3.71	1.93	1.92	0.63	0.95	1.49	2.00	2.52	3.09	3.73	4.52	5.56	7.23	8.81
December	5.58	5.58	1.00	2.34	2.84	3.56	4.14	4.69	5.25	5.85	6.54	7.41	8.73	9.94

TABLE 64 - Precipitation Probabilities for
Climatic Divisions

Month	Mean Inches	Gamma	Beta	Mississippi Coastal Division										
				Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.31	4.53	0.95	1.60	2.00	2.58	3.06	3.52	3.99	4.51	5.10	5.85	7.02	8.08
February	4.59	4.47	1.03	1.69	2.12	2.74	3.25	3.74	4.25	4.80	5.43	6.24	7.49	8.63
March	6.23	2.75	2.26	1.57	2.15	3.06	3.86	4.66	5.49	6.42	7.53	8.97	11.24	13.36
April	5.38	3.44	1.56	1.64	2.15	2.91	3.57	4.20	4.86	5.59	6.44	7.54	9.26	10.85
May	4.82	2.78	1.73	1.23	1.68	2.38	3.00	3.61	4.26	4.97	5.82	6.93	8.68	10.30
June	5.17	3.49	1.48	1.60	2.09	2.82	3.45	4.06	4.69	5.38	6.19	7.24	8.88	10.39
July	7.81	6.02	1.30	3.41	4.11	5.09	5.89	6.63	7.39	8.19	9.12	10.29	12.07	13.68
August	5.94	6.63	0.90	2.72	3.24	3.97	4.55	5.10	5.65	6.23	6.90	7.75	9.02	10.17
September	5.90	2.38	2.47	1.29	1.83	2.69	3.48	4.26	5.09	6.03	7.16	8.64	11.01	13.24
October	2.67	0.95	2.81	0.12	0.26	0.56	0.91	1.32	1.81	2.42	3.20	4.32	6.23	8.15
November	3.71	1.58	2.35	0.47	0.77	1.29	1.81	2.36	2.96	3.66	4.53	5.70	7.62	9.48
December	5.21	5.04	1.03	2.06	2.54	3.23	3.79	4.33	4.87	5.46	6.14	7.00	8.32	9.52



MISSOURI

STATUTE MILES
0 10 20 30 40

90th MERIDIAN TIME ZONE

STATION LEGEND

- Not recorded
- Precipitation only
- Precipitation only
- Precipitation and Temperature
- Precipitation, Temperature and Evaporation
- Type of year
- Non-recording
- Recording
- Both types

Double circle combinations indicate the availability of more extensive meteorological data

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 45 1/2

U.S. GOVERNMENT PRINTING OFFICE: 1967 O 345-111-1
Revised 1967

TABLE 65 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Springfield, Missouri														
Probabilities (Based on 37 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	1.84	1.38	1.33	0.19	0.32	0.57	0.83	1.11	1.42	1.78	2.24	2.86	3.90	4.91
February	2.21	2.73	0.81	0.55	0.76	1.08	1.37	1.65	1.94	2.27	2.67	3.18	3.99	4.75
March	2.93	3.02	0.97	0.80	1.08	1.50	1.87	2.23	2.61	3.03	3.53	4.17	5.18	6.13
April	4.19	3.56	1.18	1.32	1.71	2.31	2.81	3.30	3.81	4.36	5.02	5.86	7.17	8.38
May	4.99	3.98	1.25	1.70	2.17	2.86	3.44	4.00	4.57	5.19	5.92	6.86	8.29	9.58
June	4.83	2.31	2.09	1.02	1.46	2.17	2.82	3.46	4.16	4.94	5.88	7.11	9.09	10.96
July	3.55	2.28	1.56	0.74	1.06	1.58	2.06	2.54	3.05	3.63	4.32	5.24	6.71	8.09
August	3.05	1.86	1.64	0.49	0.76	1.20	1.62	2.05	2.52	3.06	3.72	4.60	6.01	7.36
September	3.79	1.58	2.40	0.48	0.79	1.33	1.85	2.41	3.03	3.75	4.64	5.83	7.80	9.70
October	3.22	2.38	1.35	0.70	1.00	1.47	1.90	2.32	2.78	3.29	3.91	4.72	6.01	7.23
November	2.45	2.15	1.14	0.48	0.70	1.06	1.39	1.72	2.08	2.49	2.99	3.64	4.69	5.68
December	2.30	1.95	1.18	0.40	0.60	0.93	1.25	1.57	1.92	2.32	2.80	3.44	4.47	5.44

Division--Missouri West Ozarks Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.15	1.78	1.20	0.33	0.51	0.82	1.12	1.42	1.76	2.15	2.62	3.25	4.28	5.26
February	2.39	3.45	0.69	0.73	0.96	1.30	1.59	1.87	2.17	2.49	2.87	3.36	4.12	4.83
March	3.05	3.30	0.92	0.90	1.19	1.63	2.00	2.37	2.75	3.17	3.66	4.30	5.30	6.23
April	4.14	4.85	0.85	1.60	1.99	2.54	2.99	3.42	3.86	4.33	4.88	5.58	6.65	7.61
May	5.41	3.91	1.38	1.82	2.33	3.08	3.71	4.32	4.95	5.64	6.44	7.46	9.04	10.48
June	4.95	2.26	2.19	1.02	1.47	2.19	2.86	3.53	4.24	5.05	6.02	7.30	9.35	11.30
July	3.56	3.02	1.18	0.98	1.31	1.83	2.27	2.71	3.17	3.68	4.28	5.07	6.30	7.45
August	3.19	3.11	1.03	0.90	1.20	1.66	2.06	2.45	2.86	3.31	3.84	4.54	5.62	6.63
September	3.91	1.92	2.04	0.66	1.00	1.57	2.10	2.65	3.25	3.93	4.76	5.86	7.63	9.31
October	3.65	2.88	1.27	0.96	1.31	1.83	2.30	2.76	3.24	3.77	4.40	5.22	6.51	7.70
November	2.82	2.15	1.31	0.55	0.80	1.22	1.60	1.99	2.40	2.87	3.44	4.19	5.40	6.54
December	2.27	2.73	0.83	0.57	0.78	1.11	1.40	1.69	2.00	2.34	2.75	3.27	4.11	4.89

TABLE 66 - Precipitation Probabilities for Climatic Divisions

Missouri Northwest Prairie Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.40	2.29	0.61	0.29	0.42	0.63	0.81	1.00	1.21	1.43	1.71	2.07	2.64	3.19
February	1.33	3.89	0.34	0.45	0.57	0.75	0.91	1.06	1.22	1.38	1.58	1.83	2.22	2.58
March	2.37	2.91	0.81	0.63	0.85	1.19	1.50	1.79	2.10	2.45	2.85	3.38	4.21	4.97
April	3.21	6.93	0.46	1.50	1.78	2.16	2.47	2.76	3.05	3.36	3.71	4.15	4.81	5.40
May	4.50	10.82	0.42	2.51	2.86	3.33	3.70	4.03	4.36	4.71	5.11	5.59	6.31	6.95
June	5.43	3.80	1.43	1.79	2.30	3.06	3.70	4.32	4.96	5.66	6.48	7.52	9.15	10.63
July	3.43	3.21	1.07	0.99	1.32	1.81	2.23	2.65	3.08	3.56	4.12	4.85	6.00	7.06
August	4.06	3.96	1.03	1.38	1.76	2.32	2.79	3.25	3.72	4.23	4.83	5.59	6.76	7.82
September	3.53	2.08	1.70	0.66	0.97	1.49	1.97	2.45	2.98	3.58	4.30	5.25	6.79	8.26
October	2.63	2.05	1.28	0.48	0.72	1.10	1.46	1.82	2.22	2.67	3.21	3.93	5.09	6.20
November	1.93	1.41	1.37	0.20	0.35	0.62	0.89	1.18	1.50	1.88	2.36	3.01	4.09	5.14
December	1.54	3.08	0.50	0.43	0.57	0.80	0.99	1.18	1.37	1.59	1.85	2.18	2.71	3.20

Missouri Northeast Prairie Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.83	2.79	0.66	0.47	0.64	0.90	1.14	1.37	1.61	1.88	2.21	2.63	3.29	3.90
February	1.79	3.61	0.50	0.57	0.74	0.99	1.21	1.42	1.63	1.87	2.14	2.50	3.06	3.57
March	2.83	4.15	0.68	0.99	1.26	1.64	1.97	2.28	2.60	2.95	3.36	3.88	4.69	5.43
April	3.51	6.31	0.56	1.57	1.88	2.32	2.67	3.00	3.33	3.69	4.09	4.60	5.38	6.08
May	4.20	5.22	0.80	1.69	2.08	2.63	3.08	3.50	3.93	4.40	4.93	5.61	6.65	7.60
June	4.61	4.35	1.06	1.67	2.10	2.72	3.25	3.75	4.26	4.82	5.47	6.29	7.57	8.74
July	3.47	2.83	1.23	0.90	1.22	1.73	2.17	2.61	3.07	3.58	4.19	4.98	6.23	7.38
August	3.50	3.59	0.98	1.11	1.44	1.93	2.35	2.76	3.18	3.65	4.19	4.89	5.98	6.98
September	3.29	1.98	1.66	0.57	0.86	1.34	1.79	2.25	2.74	3.31	3.99	4.90	6.36	7.72
October	2.95	2.95	1.00	0.79	1.07	1.50	1.87	2.24	2.62	3.05	3.55	4.20	5.22	6.16
November	2.47	2.79	0.89	0.63	0.86	1.22	1.54	1.85	2.18	2.54	2.98	3.54	4.44	5.27
December	1.92	3.38	0.57	0.58	0.76	1.03	1.27	1.50	1.73	1.99	2.30	2.70	3.32	3.89

TABLE 67 - Precipitation Probabilities for Climatic Divisions

Missouri West Central Plains Division

Probabilities (Based on 30 years of data)

Month	- Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.76	2.46	0.71	0.40	0.56	0.82	1.05	1.28	1.52	1.80	2.13	2.56	3.25	3.90
February	1.89	3.68	0.51	0.61	0.79	1.05	1.28	1.50	1.72	1.97	2.26	2.63	3.21	3.74
March	2.61	3.92	0.66	0.88	1.12	1.48	1.79	2.08	2.39	2.71	3.10	3.59	4.35	5.04
April	3.66	4.57	0.80	1.37	1.71	2.20	2.61	3.00	3.40	3.83	4.33	4.97	5.96	6.85
May	4.93	6.15	0.80	2.18	2.62	3.23	3.73	4.20	4.67	5.17	5.75	6.48	7.59	8.59
June	5.07	2.42	2.10	1.12	1.59	2.34	3.01	3.68	4.40	5.20	6.16	7.43	9.44	11.35
July	3.38	2.61	1.29	0.81	1.13	1.62	2.06	2.50	2.96	3.47	4.09	4.90	6.17	7.37
August	3.84	2.99	1.28	1.04	1.41	1.96	2.44	2.92	3.42	3.97	4.62	5.46	6.77	7.97
September	4.01	1.76	2.28	0.60	0.94	1.52	2.07	2.65	3.28	4.01	4.90	6.09	8.03	9.88
October	3.40	2.33	1.46	0.72	1.03	1.53	1.98	2.44	2.92	3.47	4.13	4.99	6.38	7.68
November	2.41	1.87	1.29	0.39	0.60	0.95	1.28	1.62	1.99	2.42	2.94	3.63	4.74	5.80
December	1.91	3.28	0.58	0.56	0.74	1.02	1.25	1.48	1.72	1.99	2.30	2.70	3.33	3.91

Missouri East Ozarks Division

Probabilities (Based on 30 years of data)

Month	- Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.98	1.71	1.74	0.43	0.68	1.11	1.52	1.95	2.42	2.97	3.64	4.54	6.01	7.41
February	2.85	3.03	0.94	0.78	1.05	1.46	1.82	2.18	2.54	2.95	3.43	4.06	5.05	5.97
March	3.76	3.61	1.04	1.19	1.55	2.08	2.53	2.97	3.42	3.91	4.49	5.24	6.40	7.48
April	4.32	5.23	0.83	1.74	2.14	2.70	3.16	3.60	4.04	4.52	5.07	5.77	6.84	7.81
May	5.01	3.86	1.30	1.67	2.14	2.84	3.43	3.99	4.58	5.21	5.96	6.92	8.39	9.74
June	4.43	2.64	1.68	1.07	1.49	2.13	2.71	3.28	3.88	4.56	5.36	6.42	8.08	9.64
July	3.35	5.20	0.64	1.35	1.66	2.09	2.45	2.79	3.14	3.51	3.94	4.49	5.32	6.08
August	3.42	4.16	0.82	1.20	1.52	1.99	2.38	2.76	3.15	3.57	4.06	4.69	5.66	6.55
September	3.42	2.76	1.24	0.86	1.19	1.68	2.13	2.56	3.02	3.53	4.14	4.93	6.17	7.33
October	3.32	2.93	1.13	0.88	1.20	1.68	2.10	2.51	2.95	3.43	3.99	4.73	5.89	6.95
November	3.44	2.96	1.16	0.93	1.25	1.75	2.18	2.61	3.06	3.55	4.14	4.90	6.09	7.18
December	2.83	3.04	0.93	0.78	1.05	1.46	1.82	2.16	2.53	2.93	3.41	4.03	5.01	5.92

TABLE 62 - Precipitation Probabilities for Climatic Divisions

Missouri Bootheel Division

Probabilities (Based on 30 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.33	1.92	2.26	0.73	1.10	1.74	2.33	2.94	3.60	4.36	5.27	6.50	8.46	10.32
February	3.71	2.98	1.24	1.01	1.36	1.89	2.36	2.82	3.30	3.83	4.46	5.28	6.55	7.71
March	4.86	3.34	1.45	1.45	1.91	2.60	3.20	3.78	4.38	5.05	5.83	6.84	8.42	9.89
April	4.29	4.94	0.87	1.68	2.07	2.64	3.11	3.55	4.00	4.48	5.05	5.76	6.84	7.81
May	4.46	3.86	1.16	1.48	1.91	2.53	3.05	3.56	4.08	4.65	5.31	6.17	7.48	8.68
June	3.94	2.39	1.65	0.86	1.22	1.80	2.32	2.85	3.40	4.03	4.78	5.77	7.35	8.84
July	3.34	4.66	0.72	1.26	1.57	2.02	2.39	2.75	3.11	3.50	3.95	4.53	5.41	6.22
August	3.19	3.20	1.00	0.92	1.22	1.68	2.07	2.46	2.86	3.31	3.83	4.51	5.58	6.57
September	3.41	2.55	1.33	0.80	1.12	1.61	2.06	2.50	2.97	3.50	4.13	4.95	6.26	7.48
October	3.12	3.10	1.00	0.88	1.17	1.62	2.01	2.39	2.79	3.23	3.75	4.43	5.49	6.48
November	3.89	2.44	1.60	0.87	1.23	1.80	2.31	2.83	3.37	3.99	4.72	5.69	7.22	8.67
December	3.67	4.14	0.89	1.28	1.63	2.13	2.56	2.96	3.38	3.83	4.36	5.04	6.09	7.05

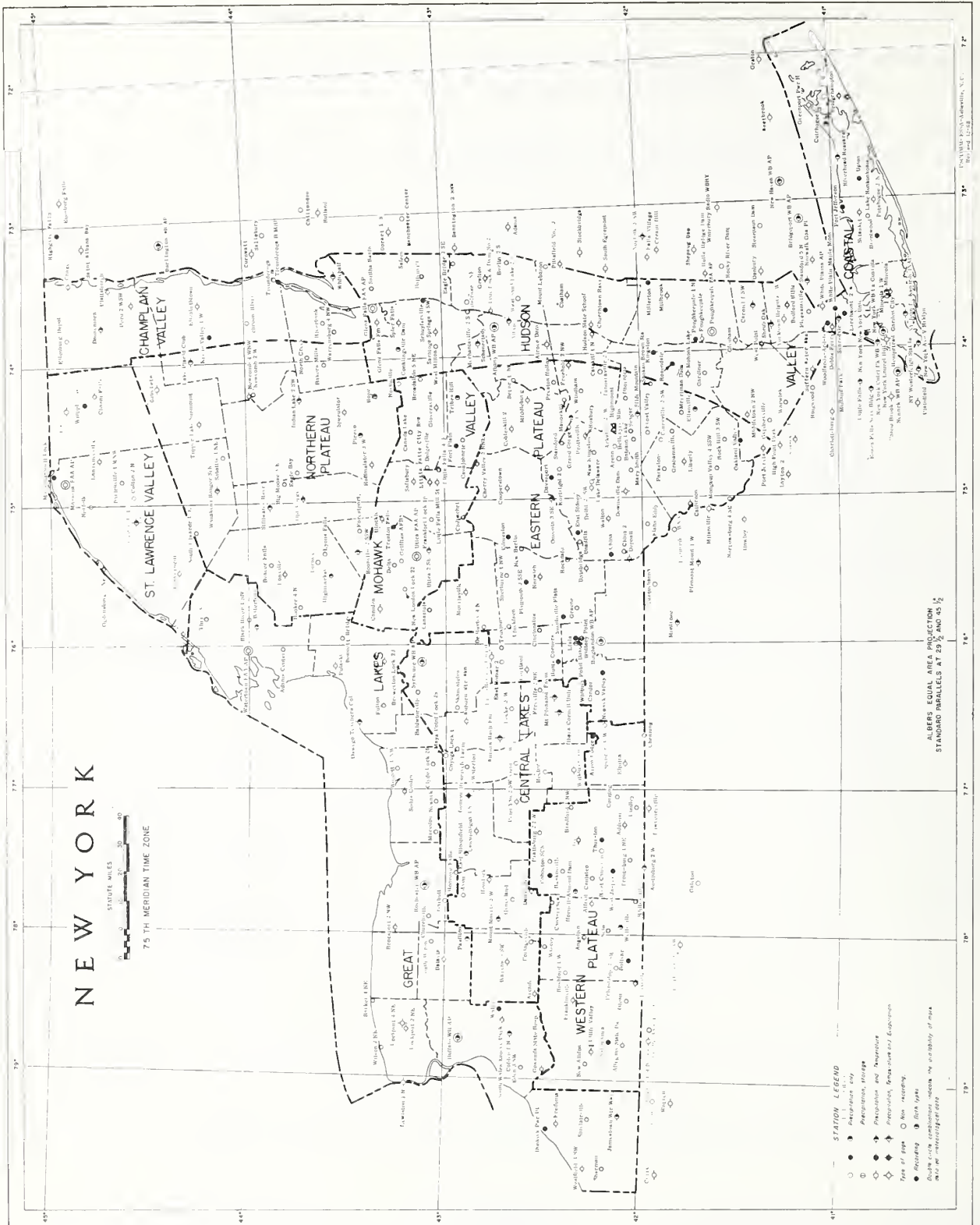


TABLE 69 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Syracuse, New York														
Probabilities (Based on 37 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.71	8.67	0.31	1.39	1.62	1.92	2.16	2.38	2.60	2.84	3.10	3.43	3.93	4.37
February	2.82	6.85	0.41	1.31	1.56	1.89	2.17	2.42	2.68	2.95	3.26	3.66	4.24	4.77
March	3.27	6.03	0.54	1.43	1.72	2.13	2.47	2.78	3.10	3.43	3.82	4.31	5.06	5.73
April	3.04	13.37	0.23	1.81	2.03	2.32	2.55	2.76	2.96	3.17	3.41	3.70	4.14	4.52
May	2.87	5.35	0.54	1.18	1.44	1.81	2.11	2.40	2.69	3.01	3.37	3.83	4.53	5.17
June	2.94	4.25	0.69	1.05	1.32	1.72	2.06	2.38	2.71	3.07	3.49	4.02	4.85	5.60
July	3.08	3.09	1.00	0.86	1.15	1.60	1.98	2.36	2.75	3.19	3.71	4.37	5.43	6.40
August	3.38	5.06	0.67	1.34	1.65	2.09	2.46	2.81	3.16	3.54	3.98	4.53	5.38	6.16
September	2.66	3.32	0.80	0.79	1.04	1.42	1.75	2.07	2.40	2.76	3.19	3.75	4.62	5.43
October	2.97	2.32	1.28	0.63	0.90	1.34	1.73	2.13	2.55	3.03	3.61	4.36	5.57	6.72
November	3.02	8.85	0.34	1.57	1.81	2.15	2.42	2.66	2.91	3.16	3.46	3.82	4.36	4.84
December	2.92	6.80	0.43	1.35	1.61	1.96	2.25	2.51	2.78	3.06	3.39	3.80	4.41	4.96

Division--New York Central Lakes Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.06	7.84	0.26	1.02	1.19	1.43	1.62	1.80	1.98	2.16	2.38	2.64	3.04	3.39
February	2.10	5.70	0.37	0.89	1.08	1.34	1.56	1.77	1.97	2.20	2.45	2.77	3.27	3.71
March	2.76	7.02	0.39	1.30	1.54	1.87	2.14	2.38	2.63	2.90	3.20	3.58	4.15	4.67
April	2.90	11.92	0.24	1.67	1.89	2.18	2.41	2.62	2.82	3.03	3.27	3.57	4.01	4.39
May	3.05	5.13	0.59	1.22	1.50	1.90	2.23	2.54	2.85	3.19	3.58	4.08	4.85	5.54
June	3.02	6.34	0.48	1.35	1.62	1.99	2.29	2.58	2.86	3.16	3.51	3.95	4.62	5.22
July	3.22	6.91	0.47	1.50	1.78	2.17	2.48	2.77	3.06	3.37	3.73	4.17	4.84	5.43
August	3.03	8.51	0.36	1.54	1.80	2.14	2.41	2.66	2.91	3.17	3.47	3.85	4.41	4.91
September	2.59	4.79	0.54	1.00	1.24	1.58	1.87	2.14	2.41	2.71	3.06	3.50	4.17	4.78
October	2.73	2.36	1.16	0.59	0.84	1.24	1.60	1.97	2.36	2.79	3.32	4.01	5.11	6.15
November	2.58	6.79	0.38	1.19	1.42	1.73	1.98	2.22	2.45	2.70	2.99	3.35	3.89	4.38
December	2.18	7.21	0.30	1.04	1.23	1.49	1.70	1.89	2.08	2.29	2.53	2.82	3.27	3.67

**TABLE 70 - Precipitation Probabilities for
Climatic Divisions**

New York Western Plateau Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.33	6.27	0.37	1.04	1.24	1.53	1.77	1.98	2.20	2.44	2.71	3.05	3.57	4.04
February	2.26	6.73	0.34	1.04	1.24	1.51	1.74	1.94	2.15	2.37	2.62	2.94	3.42	3.85
March	3.06	7.49	0.41	1.48	1.74	2.10	2.39	2.65	2.92	3.21	3.53	3.93	4.55	5.09
April	3.26	8.70	0.38	1.68	1.95	2.31	2.60	2.87	3.14	3.42	3.74	4.14	4.73	5.26
May	3.64	5.14	0.71	1.46	1.79	2.27	2.66	3.03	3.41	3.82	4.29	4.88	5.79	6.62
June	3.61	8.38	0.43	1.83	2.13	2.54	2.87	3.17	3.47	3.79	4.15	4.60	5.28	5.88
July	3.64	8.31	0.44	1.84	2.15	2.56	2.89	3.19	3.50	3.82	4.18	4.64	5.32	5.94
August	3.40	7.75	0.44	1.67	1.96	2.36	2.67	2.96	3.26	3.57	3.92	4.36	5.03	5.62
September	3.11	5.69	0.55	1.32	1.60	2.00	2.32	2.63	2.93	3.26	3.64	4.13	4.86	5.52
October	2.83	2.63	1.07	0.68	0.95	1.36	1.73	2.09	2.48	2.91	3.42	4.10	5.16	6.16
November	2.93	7.33	0.40	1.41	1.66	2.01	2.28	2.54	2.80	3.08	3.39	3.79	4.38	4.91
December	2.50	8.66	0.29	1.29	1.49	1.77	2.00	2.20	2.41	2.62	2.87	3.18	3.63	4.04

New York Eastern Plateau Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.81	7.33	0.38	1.35	1.59	1.92	2.19	2.43	2.68	2.95	3.25	3.62	4.19	4.70
February	2.61	11.37	0.23	1.48	1.68	1.95	2.16	2.35	2.53	2.73	2.95	3.23	3.64	4.00
March	3.19	9.20	0.35	1.68	1.94	2.29	2.57	2.82	3.08	3.35	3.65	4.03	4.60	5.10
April	3.43	13.41	0.26	2.05	2.30	2.63	2.89	3.12	3.35	3.59	3.85	4.19	4.67	5.10
May	3.59	6.20	0.58	1.59	1.91	2.35	2.71	3.05	3.39	3.76	4.18	4.71	5.51	6.23
June	3.58	12.04	0.30	2.07	2.34	2.70	2.98	3.23	3.49	3.75	4.05	4.41	4.96	5.44
July	4.03	6.21	0.65	1.79	2.15	2.65	3.06	3.44	3.82	4.23	4.70	5.30	6.20	7.01
August	3.86	7.57	0.51	1.88	2.21	2.66	3.02	3.36	3.69	4.05	4.46	4.96	5.73	6.42
September	3.42	3.99	0.86	1.17	1.49	1.96	2.36	2.74	3.14	3.57	4.07	4.71	5.69	6.57
October	3.20	3.20	1.00	0.92	1.23	1.69	2.08	2.47	2.88	3.33	3.85	4.54	5.61	6.60
November	3.24	6.81	0.48	1.50	1.79	2.18	2.49	2.79	3.08	3.40	3.76	4.21	4.89	5.50
December	2.93	6.70	0.44	1.35	1.60	1.96	2.25	2.52	2.79	3.07	3.40	3.82	4.44	5.00

TABLE 71 - Precipitation Probabilities for Climatic Divisions

New York Northern Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.20	9.45	0.34	1.70	1.96	2.31	2.58	2.84	3.09	3.35	3.65	4.03	4.59	5.08
February	2.89	10.20	0.28	1.58	1.81	2.12	2.36	2.58	2.80	3.03	3.29	3.62	4.10	4.53
March	3.26	7.25	0.45	1.56	1.84	2.23	2.54	2.83	3.11	3.42	3.77	4.22	4.88	5.48
April	3.28	13.54	0.24	1.96	2.20	2.51	2.76	2.98	3.20	3.43	3.68	3.99	4.46	4.87
May	3.50	7.18	0.49	1.66	1.96	2.38	2.71	3.02	3.34	3.67	4.05	4.52	5.24	5.88
June	3.50	7.06	0.50	1.65	1.95	2.37	2.71	3.02	3.34	3.67	4.06	4.54	5.26	5.91
July	4.13	8.30	0.50	2.09	2.43	2.90	3.28	3.63	3.97	4.34	4.75	5.27	6.05	6.74
August	3.81	5.32	0.72	1.55	1.90	2.40	2.80	3.18	3.57	3.99	4.47	5.08	6.01	6.86
September	3.87	5.40	0.72	1.59	1.94	2.44	2.85	3.24	3.63	4.05	4.54	5.15	6.09	6.94
October	3.58	3.65	0.98	1.14	1.48	1.99	2.41	2.83	3.26	3.72	4.27	4.98	6.08	7.09
November	3.65	12.89	0.28	2.15	2.42	2.77	3.05	3.30	3.55	3.81	4.10	4.45	4.98	5.44
December	3.50	7.70	0.45	1.71	2.01	2.42	2.74	3.04	3.35	3.67	4.03	4.49	5.17	5.78

New York Coastal Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.62	6.30	0.57	1.61	1.94	2.38	2.75	3.08	3.43	3.79	4.21	4.74	5.54	6.26
February	3.22	10.46	0.31	1.78	2.03	2.37	2.64	2.88	3.12	3.38	3.66	4.02	4.55	5.02
March	4.23	8.75	0.48	2.19	2.53	3.01	3.38	3.73	4.07	4.44	4.85	5.36	6.13	6.81
April	3.80	6.05	0.63	1.66	2.00	2.48	2.87	3.23	3.59	3.99	4.43	5.00	5.86	6.64
May	3.49	3.82	0.91	1.15	1.48	1.97	2.38	2.77	3.18	3.63	4.15	4.82	5.86	6.81
June	3.31	3.45	0.96	1.01	1.33	1.80	2.20	2.59	3.00	3.44	3.96	4.64	5.69	6.67
July	3.74	5.34	0.70	1.53	1.87	2.36	2.75	3.13	3.51	3.92	4.39	4.99	5.90	6.73
August	4.47	3.76	1.19	1.46	1.88	2.51	3.04	3.55	4.08	4.66	5.33	6.20	7.55	8.78
September	3.78	2.52	1.50	0.87	1.22	1.78	2.27	2.77	3.29	3.88	4.58	5.50	6.97	8.34
October	3.28	2.99	1.10	0.89	1.20	1.67	2.09	2.49	2.92	3.38	3.94	4.66	5.78	6.80
November	3.94	3.79	1.04	1.30	1.67	2.22	2.69	3.14	3.60	4.11	4.70	5.47	6.65	7.73
December	3.59	4.44	0.81	1.31	1.65	2.13	2.54	2.93	3.32	3.75	4.25	4.89	5.87	6.76

TABLE 72 - Precipitation Probabilities for Climatic Divisions

New York Hudson Valley Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.02	7.00	0.43	1.42	1.68	2.04	2.33	2.60	2.87	3.16	3.49	3.91	4.54	5.10
February	2.64	15.81	0.17	1.65	1.83	2.07	2.25	2.42	2.58	2.75	2.94	3.17	3.51	3.81
March	3.28	5.93	0.55	1.42	1.71	2.13	2.46	2.78	3.09	3.44	3.83	4.32	5.06	5.73
April	3.54	7.33	0.48	1.69	2.00	2.42	2.75	3.07	3.38	3.71	4.09	4.56	5.28	5.92
May	3.59	5.05	0.71	1.42	1.75	2.22	2.61	2.98	3.35	3.76	4.23	4.82	5.73	6.55
June	3.62	8.52	0.43	1.85	2.15	2.56	2.89	3.19	3.48	3.80	4.16	4.61	5.28	5.88
July	4.11	7.41	0.55	1.98	2.33	2.82	3.21	3.57	3.93	4.31	4.75	5.30	6.13	6.87
August	3.76	5.85	0.64	1.61	1.95	2.43	2.82	3.18	3.54	3.94	4.39	4.96	5.82	6.60
September	3.73	3.70	1.01	1.20	1.56	2.08	2.53	2.96	3.40	3.89	4.46	5.19	6.33	7.37
October	3.09	2.90	1.07	0.82	1.11	1.56	1.95	2.34	2.74	3.19	3.73	4.42	5.51	6.51
November	3.54	4.92	0.72	1.38	1.71	2.18	2.56	2.93	3.30	3.70	4.17	4.76	5.66	6.46
December	3.13	4.33	0.72	1.13	1.42	1.85	2.20	2.54	2.89	3.27	3.71	4.28	5.14	5.94

New York Mohawk Valley Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.25	6.12	0.53	1.43	1.72	2.13	2.46	2.76	3.07	3.41	3.79	4.27	5.00	5.67
February	2.77	9.54	0.29	1.48	1.70	2.00	2.24	2.46	2.68	2.91	3.16	3.49	3.97	4.39
March	3.16	5.73	0.55	1.34	1.63	2.03	2.36	2.66	2.97	3.31	3.69	4.18	4.91	5.58
April	3.64	15.33	0.24	2.26	2.51	2.84	3.10	3.33	3.56	3.80	4.06	4.39	4.87	5.29
May	3.59	5.58	0.64	1.51	1.83	2.29	2.67	3.02	3.38	3.77	4.21	4.77	5.63	6.40
June	3.84	5.98	0.64	1.67	2.01	2.49	2.89	3.25	3.62	4.02	4.47	5.05	5.91	6.68
July	4.36	5.83	0.75	1.87	2.27	2.82	3.27	3.69	4.11	4.57	5.10	5.76	6.76	7.67
August	3.95	9.80	0.40	2.13	2.44	2.87	3.20	3.51	3.81	4.14	4.50	4.95	5.62	6.21
September	3.89	4.20	0.93	1.37	1.74	2.27	2.72	3.15	3.58	4.06	4.62	5.33	6.43	7.44
October	3.56	2.92	1.22	0.95	1.28	1.80	2.25	2.69	3.16	3.67	4.28	5.08	6.32	7.46
November	3.57	8.55	0.42	1.82	2.12	2.52	2.84	3.13	3.43	3.74	4.09	4.53	5.19	5.78
December	3.21	6.39	0.50	1.44	1.73	2.12	2.44	2.74	3.04	3.36	3.73	4.20	4.90	5.53

TABLE 73 - Precipitation Probabilities for Climatic Divisions

New York Champlain Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.18	5.96	0.37	0.95	1.14	1.42	1.64	1.85	2.06	2.28	2.54	2.87	3.36	3.80
February	2.07	8.34	0.25	1.05	1.22	1.46	1.64	1.82	1.99	2.17	2.38	2.64	3.03	3.37
March	2.31	9.16	0.25	1.21	1.40	1.66	1.86	2.04	2.23	2.42	2.64	2.92	3.33	3.69
April	2.73	5.98	0.46	1.18	1.43	1.77	2.05	2.31	2.57	2.85	3.18	3.58	4.19	4.74
May	2.95	5.82	0.51	1.26	1.53	1.90	2.21	2.49	2.78	3.09	3.45	3.90	4.58	5.19
June	3.14	5.43	0.58	1.30	1.58	1.99	2.32	2.64	2.95	3.29	3.69	4.19	4.95	5.64
July	3.37	7.06	0.48	1.59	1.88	2.28	2.60	2.91	3.21	3.53	3.90	4.36	5.06	5.68
August	3.19	3.52	0.91	0.99	1.30	1.75	2.13	2.51	2.90	3.32	3.82	4.47	5.47	6.40
September	3.09	3.76	0.82	1.01	1.30	1.74	2.10	2.46	2.82	3.22	3.69	4.29	5.22	6.08
October	2.63	3.61	0.73	0.83	1.09	1.46	1.77	2.08	2.39	2.74	3.15	3.67	4.49	5.24
November	2.62	6.31	0.42	1.17	1.40	1.73	1.99	2.24	2.48	2.75	3.05	3.44	4.02	4.54
December	2.33	4.47	0.52	0.86	1.08	1.39	1.65	1.90	2.16	2.44	2.76	3.17	3.81	4.39

New York St. Lawrence Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.28	7.72	0.30	1.12	1.31	1.58	1.79	1.99	2.18	2.39	2.63	2.93	3.37	3.77
February	2.21	9.34	0.24	1.17	1.35	1.59	1.79	1.96	2.14	2.32	2.53	2.79	3.18	3.52
March	2.39	7.08	0.34	1.13	1.34	1.62	1.85	2.06	2.28	2.51	2.77	3.09	3.59	4.03
April	2.98	8.63	0.35	1.53	1.78	2.11	2.38	2.62	2.86	3.12	3.42	3.78	4.33	4.82
May	3.22	5.22	0.62	1.30	1.60	2.02	2.36	2.69	3.02	3.38	3.79	4.31	5.11	5.84
June	2.86	5.63	0.51	1.21	1.47	1.83	2.13	2.41	2.69	3.00	3.35	3.80	4.47	5.08
July	3.45	6.63	0.52	1.58	1.88	2.30	2.64	2.96	3.27	3.61	4.00	4.49	5.23	5.89
August	3.26	3.69	0.88	1.05	1.36	1.81	2.20	2.58	2.97	3.39	3.89	4.53	5.52	6.44
September	3.36	4.27	0.79	1.20	1.52	1.97	2.36	2.72	3.10	3.51	3.99	4.59	5.53	6.40
October	3.08	3.83	0.80	1.02	1.31	1.74	2.10	2.45	2.81	3.21	3.67	4.26	5.17	6.00
November	2.92	7.46	0.39	1.41	1.66	2.01	2.28	2.54	2.79	3.07	3.38	3.76	4.35	4.87
December	2.64	7.58	0.35	1.28	1.51	1.82	2.07	2.30	2.53	2.77	3.05	3.40	3.92	4.39

**TABLE 74 - Precipitation Probabilities for
Climatic Divisions**

Month	Mean Inches	Gamma	Beta	New York Great Lakes Division Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.65	8.20	0.32	1.33	1.56	1.86	2.10	2.33	2.55	2.78	3.05	3.39	3.89	4.34
February	2.47	10.07	0.25	1.34	1.54	1.80	2.01	2.20	2.39	2.59	2.81	3.09	3.50	3.87
March	2.85	7.03	0.41	1.34	1.59	1.93	2.20	2.46	2.72	2.99	3.30	3.69	4.28	4.82
April	3.04	10.85	0.28	1.70	1.93	2.25	2.50	2.72	2.95	3.18	3.45	3.77	4.26	4.69
May	3.07	5.56	0.55	1.28	1.56	1.95	2.28	2.58	2.88	3.21	3.59	4.07	4.81	5.47
June	2.72	5.44	0.50	1.13	1.37	1.72	2.01	2.28	2.56	2.85	3.19	3.62	4.28	4.88
July	2.91	7.72	0.38	1.43	1.68	2.01	2.29	2.54	2.79	3.05	3.36	3.74	4.31	4.81
August	3.03	8.93	0.34	1.58	1.83	2.16	2.43	2.67	2.92	3.18	3.47	3.83	4.37	4.85
September	3.03	6.47	0.47	1.37	1.64	2.01	2.31	2.59	2.87	3.18	3.52	3.96	4.62	5.21
October	2.89	2.67	1.08	0.71	0.98	1.40	1.77	2.15	2.54	2.98	3.50	4.18	5.26	6.26
November	3.14	10.23	0.31	1.72	1.96	2.30	2.56	2.80	3.04	3.29	3.57	3.92	4.44	4.91
December	2.81	14.02	0.20	1.70	1.90	2.16	2.37	2.56	2.74	2.93	3.15	3.41	3.80	4.14

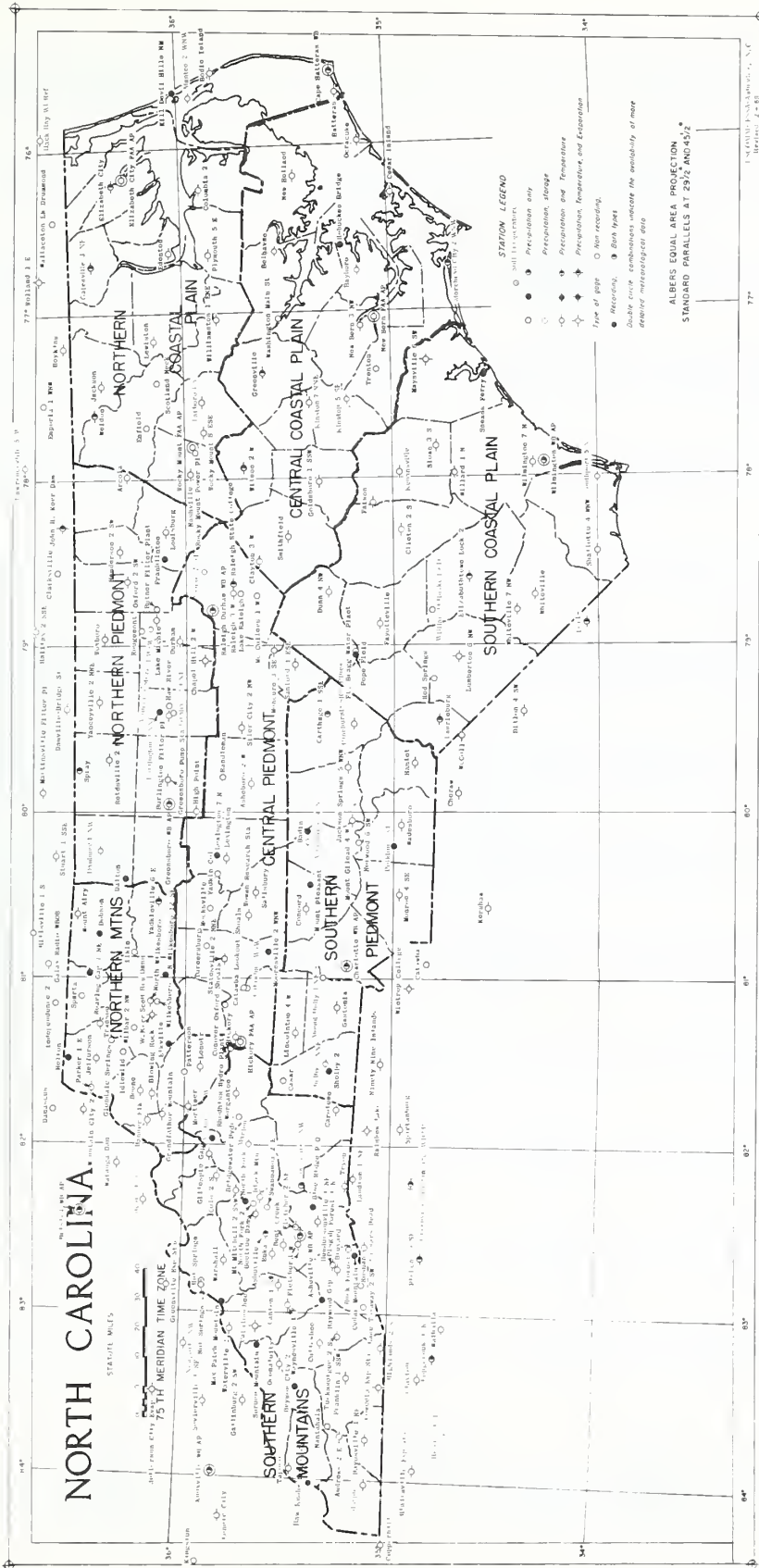


TABLE 75 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Greensboro, North Carolina														
Probabilities (Based on 37 years of Data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.40	4.43	0.77	1.24	1.56	2.02	2.40	2.77	3.15	3.55	4.02	4.63	5.56	6.41
February	3.38	5.18	0.65	1.36	1.67	2.11	2.48	2.82	3.17	3.54	3.98	4.53	5.37	6.14
March	3.71	5.04	0.74	1.47	1.81	2.30	2.70	3.08	3.47	3.89	4.37	4.99	5.93	6.78
April	3.28	5.89	0.56	1.41	1.71	2.12	2.46	2.77	3.09	3.43	3.83	4.32	5.07	5.74
May	3.18	2.94	1.08	0.85	1.15	1.61	2.01	2.41	2.83	3.29	3.83	4.54	5.64	6.66
June	3.73	2.95	1.27	1.00	1.35	1.89	2.36	2.83	3.31	3.85	4.49	5.32	6.61	7.80
July	4.71	4.96	0.95	1.84	2.28	2.90	3.41	3.89	4.39	4.92	5.53	6.31	7.50	8.56
August	4.54	2.77	1.64	1.15	1.58	2.24	2.82	3.40	4.01	4.68	5.49	6.53	8.18	9.72
September	3.54	1.35	2.62	0.35	0.60	1.09	1.58	2.11	2.72	3.43	4.32	5.54	7.57	9.55
October	2.69	1.47	1.83	0.30	0.51	0.89	1.26	1.66	2.11	2.63	3.28	4.17	5.63	7.05
November	2.68	2.31	1.16	0.56	0.81	1.20	1.56	1.92	2.30	2.73	3.25	3.94	5.04	6.07
December	3.19	3.42	0.93	0.97	1.27	1.73	2.12	2.49	2.89	3.32	3.82	4.48	5.50	6.45

Division--North Carolina Northern Piedmont Division

Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.52	4.68	0.75	1.33	1.66	2.13	2.52	2.89	3.27	3.68	4.16	4.76	5.69	6.54
February	3.51	5.71	0.62	1.49	1.81	2.25	2.62	2.96	3.31	3.68	4.11	4.65	5.47	6.21
March	3.89	8.33	0.47	1.97	2.29	2.74	3.09	3.41	3.74	4.08	4.47	4.96	5.69	6.34
April	3.62	8.01	0.45	1.80	2.11	2.52	2.85	3.16	3.47	3.79	4.16	4.62	5.32	5.94
May	3.41	4.49	0.76	1.26	1.58	2.04	2.42	2.78	3.16	3.56	4.03	4.63	5.56	6.41
June	4.01	6.26	0.64	1.78	2.14	2.64	3.04	3.42	3.80	4.20	4.67	5.26	6.15	6.95
July	5.20	7.04	0.74	2.45	2.90	3.52	4.02	4.49	4.95	5.45	6.02	6.74	7.81	8.78
August	4.68	4.45	1.05	1.72	2.16	2.79	3.32	3.82	4.34	4.90	5.55	6.38	7.66	8.83
September	3.71	2.35	1.58	0.80	1.14	1.68	2.17	2.67	3.20	3.79	4.51	5.45	6.95	8.36
October	2.77	2.07	1.34	0.51	0.76	1.17	1.54	1.92	2.34	2.81	3.38	4.13	5.34	6.50
November	3.05	2.34	1.30	0.65	0.93	1.38	1.79	2.19	2.63	3.12	3.71	4.48	5.72	6.89
December	3.24	3.59	0.90	1.02	1.33	1.79	2.18	2.55	2.95	3.37	3.88	4.53	5.53	6.46

TABLE 76 - Precipitation Probabilities for Climatic Divisions

North Carolina Southern Mountains Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	4.75	4.58	1.04	1.78	2.22	2.86	3.39	3.89	4.41	4.97	5.62	6.45	7.72	8.88
February	4.46	1.86	2.40	0.72	1.10	1.75	2.36	3.00	3.69	4.48	5.44	6.72	8.79	10.75
March	5.68	9.33	0.61	3.00	3.47	4.09	4.58	5.03	5.48	5.95	6.49	7.16	8.16	9.05
April	4.54	8.27	0.55	2.29	2.67	3.18	3.60	3.98	4.36	4.76	5.21	5.78	6.64	7.40
May	3.88	6.01	0.65	1.69	2.04	2.53	2.92	3.29	3.67	4.07	4.53	5.11	6.00	6.80
June	4.54	6.75	0.67	2.09	2.49	3.04	3.48	3.90	4.31	4.76	5.26	5.90	6.86	7.72
July	5.82	8.79	0.66	3.01	3.49	4.14	4.65	5.13	5.60	6.10	6.67	7.37	8.42	9.36
August	5.49	4.99	1.10	2.16	2.67	3.39	3.99	4.55	5.12	5.74	6.46	7.36	8.74	9.96
September	3.84	3.23	1.19	1.11	1.48	2.03	2.51	2.97	3.46	3.99	4.62	5.44	6.71	7.90
October	3.63	1.57	2.31	0.46	0.75	1.26	1.77	2.30	2.90	3.59	4.44	5.59	7.47	9.29
November	3.57	3.70	0.97	1.15	1.49	1.99	2.42	2.83	3.26	3.72	4.27	4.97	6.05	7.06
December	4.59	3.40	1.35	1.39	1.82	2.48	3.04	3.58	4.15	4.77	5.51	6.45	7.93	9.30

North Carolina Northern Mountains Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.39	5.48	0.71	1.61	1.97	2.47	2.88	3.26	3.65	4.07	4.56	5.17	6.11	6.96
February	4.05	7.00	0.58	1.90	2.26	2.74	3.13	3.50	3.86	4.25	4.70	5.25	6.10	6.86
March	4.90	9.63	0.51	2.62	3.01	3.54	3.96	4.35	4.73	5.13	5.59	6.15	6.99	7.74
April	4.22	8.03	0.53	2.10	2.46	2.94	3.33	3.69	4.04	4.42	4.86	5.39	6.20	6.93
May	4.13	6.52	0.63	1.87	2.24	2.74	3.15	3.54	3.92	4.33	4.80	5.39	6.29	7.09
June	4.42	6.28	0.70	1.97	2.36	2.91	3.36	3.77	4.19	4.64	5.15	5.80	6.78	7.67
July	5.70	9.06	0.63	2.98	3.44	4.07	4.57	5.03	5.49	5.97	6.52	7.20	8.21	9.12
August	5.50	3.66	1.50	1.76	2.28	3.05	3.71	4.35	5.01	5.73	6.57	7.66	9.35	10.90
September	4.01	2.69	1.49	0.99	1.36	1.95	2.47	2.98	3.52	4.13	4.85	5.79	7.28	8.66
October	3.53	1.87	1.89	0.57	0.88	1.39	1.87	2.37	2.92	3.54	4.30	5.31	6.94	8.49
November	3.45	3.22	1.07	1.00	1.33	1.82	2.25	2.67	3.10	3.58	4.15	4.88	6.03	7.10
December	3.75	3.78	0.99	1.23	1.58	2.11	2.55	2.98	3.42	3.90	4.47	5.19	6.32	7.35

**TABLE 77 - Precipitation Probabilities for
Climatic Divisions**

North Carolina Central Piedmont Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.73	4.63	0.80	1.40	1.75	2.25	2.66	3.06	3.46	3.90	4.41	5.05	6.04	6.95
February	3.73	5.09	0.73	1.49	1.83	2.32	2.72	3.10	3.49	3.91	4.39	5.01	5.95	6.80
March	4.25	8.70	0.49	2.19	2.54	3.01	3.39	3.74	4.08	4.45	4.87	5.38	6.16	6.85
April	3.72	9.40	0.40	1.97	2.27	2.68	3.00	3.29	3.59	3.90	4.25	4.68	5.33	5.91
May	3.60	4.41	0.82	1.31	1.65	2.14	2.55	2.94	3.33	3.77	4.27	4.91	5.90	6.81
June	4.02	5.12	0.79	1.61	1.98	2.50	2.94	3.35	3.76	4.21	4.73	5.39	6.40	7.32
July	5.60	7.85	0.71	2.76	3.24	3.88	4.40	4.88	5.36	5.87	6.44	7.16	8.24	9.20
August	4.93	5.57	0.89	2.06	2.51	3.14	3.66	4.15	4.64	5.17	5.78	6.55	7.72	8.78
September	3.86	2.44	1.58	0.86	1.22	1.78	2.29	2.80	3.34	3.95	4.68	5.64	7.16	8.60
October	2.98	2.10	1.42	0.56	0.83	1.27	1.67	2.08	2.52	3.02	3.63	4.44	5.73	6.96
November	3.09	2.40	1.29	0.68	0.96	1.42	1.83	2.24	2.67	3.17	3.75	4.53	5.76	6.93
December	3.49	3.48	1.00	1.08	1.41	1.90	2.32	2.74	3.16	3.63	4.18	4.89	5.99	7.02

North Carolina Southern Piedmont Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.64	4.90	0.74	1.42	1.76	2.24	2.63	3.01	3.39	3.81	4.29	4.90	5.82	6.66
February	3.79	4.17	0.91	1.33	1.69	2.21	2.64	3.06	3.49	3.96	4.50	5.20	6.27	7.26
March	4.40	8.36	0.53	2.23	2.59	3.09	3.49	3.86	4.22	4.61	5.05	5.60	6.42	7.16
April	3.81	7.68	0.50	1.86	2.19	2.63	2.99	3.31	3.64	3.99	4.39	4.89	5.64	6.31
May	3.33	4.18	0.80	1.17	1.49	1.94	2.33	2.69	3.07	3.48	3.96	4.57	5.52	6.38
June	4.10	6.82	0.60	1.90	2.26	2.76	3.16	3.53	3.90	4.30	4.76	5.33	6.19	6.96
July	5.67	7.93	0.71	2.81	3.29	3.94	4.46	4.94	5.42	5.93	6.51	7.24	8.32	9.27
August	4.94	6.67	0.74	2.27	2.70	3.30	3.79	4.24	4.69	5.18	5.74	6.43	7.49	8.44
September	3.87	2.32	1.67	0.82	1.18	1.74	2.26	2.78	3.33	3.96	4.71	5.70	7.28	8.77
October	2.92	1.79	1.63	0.45	0.70	1.12	1.52	1.94	2.40	2.92	3.56	4.42	5.81	7.14
November	2.88	2.16	1.33	0.56	0.82	1.24	1.63	2.02	2.45	2.92	3.50	4.27	5.49	6.66
December	3.49	3.43	1.02	1.06	1.40	1.89	2.32	2.73	3.16	3.63	4.19	4.91	6.02	7.06

**TABLE 78 - Precipitation Probabilities for
Climatic Divisions**

North Carolina Southern Coastal Plain Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.20	5.33	0.60	1.31	1.60	2.01	2.36	2.68	3.00	3.35	3.76	4.27	5.05	5.76
February	3.64	3.84	0.95	1.21	1.55	2.06	2.49	2.90	3.32	3.79	4.33	5.03	6.11	7.09
March	3.92	5.95	0.66	1.70	2.05	2.54	2.95	3.32	3.70	4.11	4.57	5.16	6.04	6.83
April	3.26	4.56	0.72	1.21	1.52	1.96	2.32	2.67	3.02	3.41	3.86	4.43	5.30	6.11
May	3.59	5.18	0.69	1.44	1.77	2.24	2.62	2.99	3.36	3.76	4.22	4.80	5.70	6.51
June	4.85	5.79	0.84	2.08	2.51	3.13	3.63	4.10	4.57	5.09	5.67	6.41	7.54	8.55
July	6.94	6.47	1.07	3.14	3.75	4.60	5.29	5.94	6.58	7.28	8.07	9.07	10.58	11.94
August	5.86	9.68	0.60	3.14	3.61	4.24	4.74	5.20	5.66	6.14	6.68	7.35	8.35	9.24
September	5.11	3.41	1.50	1.55	2.04	2.76	3.39	3.99	4.62	5.32	6.13	7.18	8.82	10.34
October	2.80	1.55	1.81	0.35	0.57	0.96	1.35	1.77	2.23	2.76	3.42	4.31	5.78	7.21
November	3.01	2.44	1.23	0.67	0.95	1.40	1.79	2.19	2.61	3.09	3.66	4.41	5.60	6.72
December	3.15	3.46	0.91	0.97	1.27	1.71	2.10	2.47	2.85	3.28	3.78	4.42	5.42	6.35

North Carolina Central Coastal Plain Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.52	6.13	0.58	1.55	1.87	2.31	2.66	3.00	3.33	3.70	4.11	4.63	5.43	6.14
February	3.78	4.71	0.80	1.44	1.79	2.29	2.71	3.11	3.51	3.95	4.46	5.11	6.10	7.00
March	3.75	10.04	0.37	2.04	2.34	2.74	3.05	3.34	3.63	3.93	4.27	4.69	5.32	5.89
April	3.40	5.87	0.58	1.46	1.77	2.20	2.55	2.87	3.21	3.56	3.97	4.48	5.26	5.96
May	3.71	6.46	0.57	1.68	2.00	2.46	2.83	3.17	3.52	3.89	4.31	4.85	5.65	6.38
June	4.86	5.31	0.91	1.98	2.43	3.05	3.57	4.06	4.55	5.09	5.70	6.48	7.68	8.76
July	7.00	5.73	1.22	2.97	3.61	4.50	5.22	5.91	6.59	7.34	8.19	9.26	10.90	12.37
August	6.08	6.98	0.87	2.85	3.38	4.11	4.70	5.24	5.79	6.37	7.04	7.87	9.12	10.22
September	5.28	3.50	1.51	1.63	2.13	2.88	3.52	4.14	4.78	5.49	6.32	7.39	9.06	10.60
October	3.07	1.85	1.66	0.49	0.76	1.20	1.63	2.06	2.54	3.08	3.75	4.63	6.06	7.41
November	3.41	2.86	1.19	0.89	1.21	1.71	2.14	2.57	3.02	3.52	4.11	4.88	6.09	7.21
December	3.40	3.88	0.88	1.14	1.46	1.93	2.33	2.72	3.11	3.54	4.05	4.70	5.70	6.60

TABLE 79 - Precipitation Probabilities for
Climatic Divisions

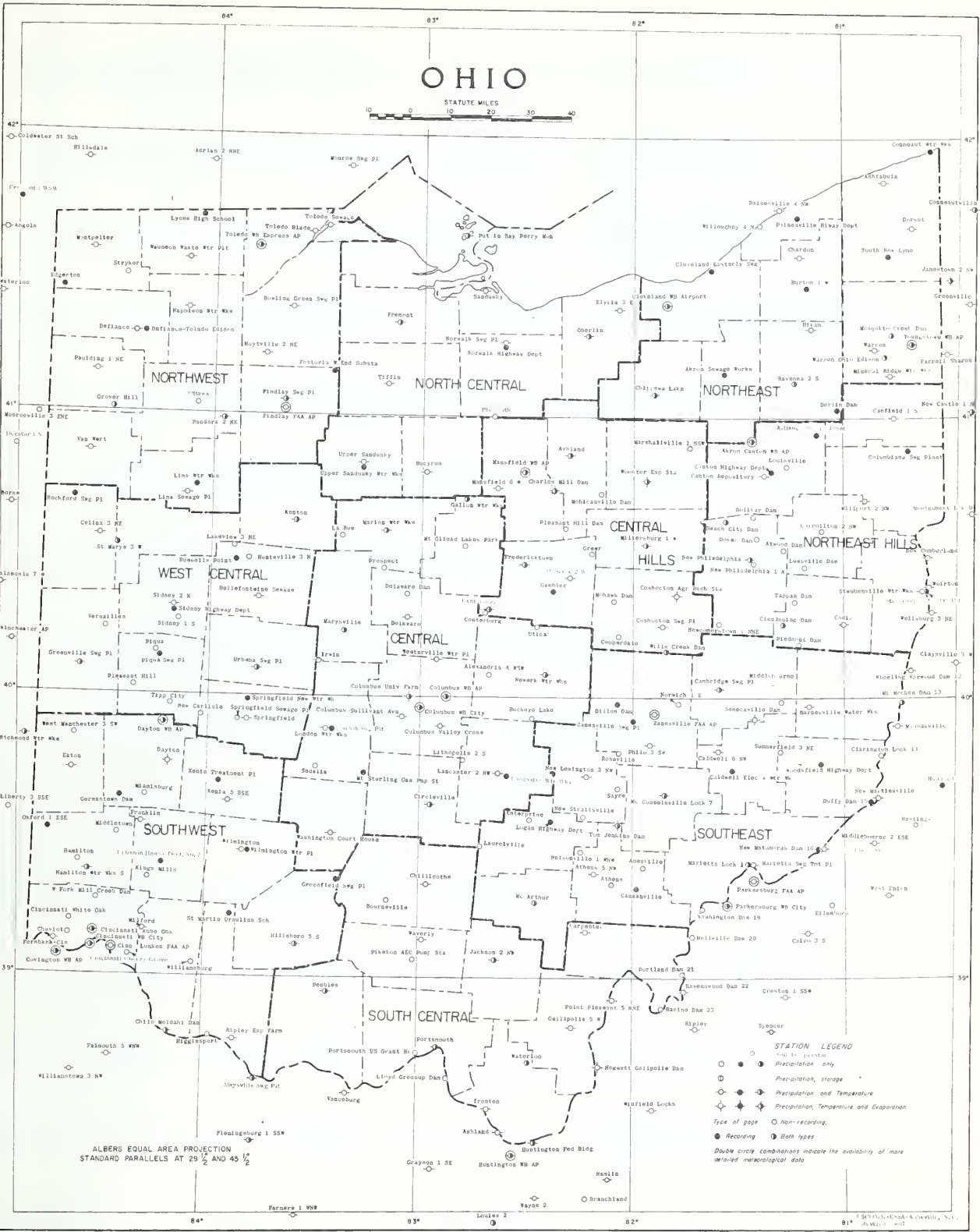
North Carolina Northern Coastal Plain Division

Probabilities (Based on 35 years of data)

Month	Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.59	6.41	0.56	1.62	1.94	2.38	2.74	3.07	3.41	3.77	4.18	4.70	5.49	6.20
February	3.70	4.76	0.78	1.42	1.76	2.25	2.66	3.05	3.45	3.87	4.37	5.00	5.96	6.84
March	3.76	8.84	0.43	1.95	2.26	2.67	3.01	3.31	3.62	3.94	4.30	4.76	5.43	6.03
April	3.29	7.03	0.47	1.55	1.83	2.22	2.54	2.84	3.13	3.45	3.81	4.26	4.94	5.55
May	3.51	5.34	0.66	1.43	1.76	2.21	2.58	2.93	3.29	3.68	4.12	4.68	5.54	6.32
June	4.27	5.72	0.75	1.81	2.20	2.74	3.18	3.60	4.02	4.47	4.99	5.65	6.65	7.55
July	6.19	6.39	0.97	2.78	3.33	4.09	4.71	5.29	5.87	6.49	7.20	8.10	9.46	10.69
August	5.86	6.04	0.97	2.56	3.08	3.82	4.41	4.97	5.54	6.14	6.84	7.71	9.04	10.25
September	4.68	4.31	1.08	1.68	2.12	2.76	3.29	3.80	4.32	4.89	5.55	6.39	7.69	8.89
October	3.02	2.16	1.39	0.59	0.86	1.30	1.71	2.12	2.57	3.07	3.67	4.47	5.76	6.98
November	3.29	2.72	1.21	0.82	1.13	1.61	2.03	2.45	2.89	3.39	3.97	4.74	5.95	7.08
December	3.29	4.87	0.68	1.28	1.58	2.02	2.38	2.72	3.07	3.44	3.88	4.43	5.27	6.03

OHIO

STATUTE MILES



ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 45 1/2

- STATION LEGEND**
- Precipitation only
 - Precipitation, storage
 - ⊙ Precipitation and Temperature
 - ⊕ Precipitation, Temperature and Evaporation
 - Type of gage
 - Non-recording
 - Recording
 - ⊕ Both types
- Double circle combinations indicate the availability of more detailed meteorological data*

TABLE 80 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Columbus, Ohio

Probabilities (Based on 37 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.86	1.91	1.50	0.48	0.73	1.14	1.54	1.94	2.38	2.88	3.48	4.29	5.59	6.82
February	2.33	4.24	0.55	0.83	1.05	1.37	1.63	1.89	2.15	2.44	2.77	3.19	3.85	4.45
March	3.36	3.02	1.11	0.92	1.24	1.73	2.15	2.57	3.00	3.48	4.05	4.79	5.96	7.04
April	3.60	5.34	0.67	1.47	1.80	2.27	2.65	3.01	3.37	3.77	4.22	4.80	5.68	6.48
May	3.68	3.63	1.01	1.17	1.52	2.04	2.48	2.91	3.35	3.83	4.40	5.13	6.27	7.32
June	3.81	3.99	0.96	1.30	1.66	2.19	2.63	3.06	3.49	3.97	4.53	5.24	6.33	7.32
July	3.88	4.40	0.88	1.41	1.78	2.30	2.74	3.16	3.59	4.06	4.60	5.30	6.36	7.34
August	2.92	3.35	0.87	0.87	1.15	1.57	1.92	2.27	2.63	3.03	3.50	4.11	5.06	5.94
September	2.56	3.74	0.68	0.83	1.08	1.43	1.74	2.03	2.33	2.67	3.05	3.55	4.33	5.04
October	1.91	1.99	0.96	0.34	0.51	0.78	1.05	1.31	1.60	1.93	2.33	2.85	3.70	4.49
November	2.44	3.66	0.67	0.78	1.02	1.36	1.65	1.93	2.22	2.55	2.92	3.40	4.15	4.84
December	2.32	4.26	0.54	0.83	1.04	1.36	1.62	1.88	2.14	2.42	2.75	3.17	3.82	4.42

Division--Ohio Central Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.98	2.32	1.28	0.63	0.91	1.34	1.74	2.14	2.57	3.05	3.62	4.38	5.60	6.75
February	2.37	4.10	0.58	0.82	1.05	1.37	1.65	1.91	2.18	2.48	2.82	3.26	3.95	4.57
March	3.62	3.24	1.12	1.05	1.40	1.92	2.37	2.80	3.26	3.76	4.35	5.12	6.32	7.44
April	3.76	5.42	0.69	1.55	1.89	2.38	2.78	3.15	3.53	3.94	4.41	5.01	5.92	6.74
May	3.65	4.82	0.76	1.41	1.74	2.23	2.63	3.01	3.40	3.82	4.30	4.92	5.86	6.71
June	4.00	5.16	0.78	1.61	1.98	2.50	2.93	3.33	3.75	4.19	4.71	5.36	6.36	7.27
July	3.91	8.09	0.48	1.95	2.28	2.73	3.09	3.42	3.75	4.10	4.49	4.99	5.74	6.40
August	3.15	4.66	0.68	1.19	1.48	1.90	2.25	2.59	2.92	3.29	3.72	4.26	5.10	5.86
September	2.74	4.39	0.62	1.00	1.25	1.62	1.93	2.23	2.53	2.86	3.24	3.73	4.49	5.18
October	2.08	2.12	0.98	0.40	0.59	0.89	1.17	1.46	1.77	2.12	2.54	3.10	3.99	4.85
November	2.47	4.86	0.51	0.96	1.18	1.51	1.78	2.04	2.30	2.58	2.91	3.32	3.95	4.52
December	2.40	4.01	0.60	0.82	1.05	1.38	1.66	1.92	2.20	2.50	2.85	3.30	4.00	4.64

TABLE 81 - Precipitation Probabilities for Climatic Divisions

Ohio Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.31	2.39	0.97	0.50	0.72	1.06	1.36	1.67	1.99	2.36	2.80	3.38	4.31	5.18
February	1.99	3.62	0.55	0.63	0.82	1.10	1.34	1.57	1.81	2.07	2.38	2.77	3.39	3.95
March	2.92	5.16	0.56	1.17	1.44	1.82	2.13	2.43	2.73	3.05	3.43	3.90	4.63	5.30
April	3.34	5.43	0.62	1.38	1.68	2.11	2.47	2.80	3.14	3.50	3.92	4.45	5.26	5.99
May	3.45	4.16	0.83	1.21	1.54	2.01	2.41	2.79	3.18	3.60	4.10	4.73	5.72	6.62
June	3.84	6.83	0.56	1.78	2.12	2.58	2.96	3.31	3.66	4.03	4.46	4.99	5.80	6.51
July	3.27	8.20	0.40	1.65	1.92	2.29	2.59	2.87	3.14	3.43	3.76	4.17	4.79	5.35
August	2.79	8.73	0.32	1.44	1.67	1.98	2.23	2.46	2.69	2.93	3.20	3.54	4.05	4.50
September	2.75	4.31	0.64	0.99	1.25	1.62	1.94	2.24	2.54	2.88	3.27	3.76	4.53	5.23
October	2.45	2.20	1.11	0.49	0.71	1.07	1.40	1.73	2.09	2.49	2.98	3.62	4.66	5.63
November	2.25	5.53	0.41	0.94	1.14	1.43	1.67	1.89	2.12	2.36	2.64	2.99	3.53	4.02
December	2.00	3.47	0.58	0.62	0.81	1.09	1.33	1.57	1.81	2.08	2.40	2.80	3.44	4.03

Ohio North Central Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.39	2.67	0.90	0.59	0.81	1.16	1.47	1.78	2.10	2.46	2.89	3.46	4.35	5.18
February	2.03	4.56	0.45	0.76	0.95	1.22	1.45	1.67	1.89	2.13	2.41	2.76	3.31	3.81
March	2.90	5.14	0.55	1.16	1.43	1.81	2.12	2.42	2.72	3.04	3.41	3.89	4.61	5.27
April	3.31	6.32	0.52	1.48	1.77	2.18	2.51	2.82	3.14	3.47	3.85	4.34	5.07	5.73
May	3.29	4.78	0.69	1.26	1.57	2.01	2.37	2.71	3.06	3.44	3.88	4.44	5.30	6.08
June	3.77	4.68	0.81	1.43	1.78	2.28	2.70	3.10	3.51	3.95	4.46	5.11	6.10	7.01
July	3.23	7.59	0.43	1.57	1.85	2.23	2.53	2.81	3.09	3.39	3.73	4.16	4.80	5.37
August	3.13	8.45	0.37	1.59	1.85	2.20	2.49	2.75	3.00	3.28	3.59	3.98	4.56	5.08
September	2.73	5.06	0.54	1.08	1.34	1.69	1.99	2.27	2.55	2.86	3.22	3.67	4.36	4.99
October	2.19	2.70	0.81	0.54	0.75	1.07	1.35	1.63	1.93	2.25	2.65	3.16	3.97	4.72
November	2.28	5.22	0.44	0.92	1.13	1.43	1.67	1.90	2.13	2.39	2.68	3.05	3.61	4.13
December	2.04	4.51	0.45	0.75	0.94	1.22	1.45	1.67	1.89	2.13	2.41	2.77	3.32	3.82

TABLE 82 - Precipitation Probabilities for Climatic Divisions

Ohio Northeast Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
Inches -														
January	2.69	3.31	0.81	0.80	1.05	1.43	1.77	2.09	2.42	2.79	3.23	3.79	4.67	5.49
February	2.29	5.57	0.41	0.96	1.17	1.46	1.70	1.93	2.16	2.40	2.68	3.04	3.59	4.08
March	3.17	6.41	0.49	1.43	1.71	2.10	2.41	2.71	3.00	3.32	3.68	4.14	4.84	5.46
April	3.49	6.81	0.51	1.62	1.92	2.35	2.69	3.00	3.32	3.66	4.05	4.54	5.27	5.93
May	3.50	5.13	0.68	1.40	1.72	2.18	2.55	2.91	3.27	3.66	4.11	4.69	5.56	6.36
June	3.63	9.55	0.38	1.94	2.23	2.62	2.94	3.22	3.50	3.80	4.14	4.56	5.19	5.75
July	3.58	7.11	0.50	1.69	2.00	2.43	2.77	3.09	3.41	3.75	4.14	4.63	5.37	6.03
August	3.26	8.32	0.39	1.65	1.92	2.29	2.59	2.86	3.13	3.42	3.75	4.16	4.77	5.32
September	2.87	6.49	0.44	1.30	1.56	1.91	2.19	2.46	2.73	3.01	3.34	3.75	4.38	4.94
October	2.71	2.59	1.05	0.64	0.90	1.29	1.65	2.00	2.37	2.79	3.28	3.94	4.97	5.93
November	2.71	7.87	0.34	1.34	1.57	1.88	2.13	2.36	2.60	2.84	3.12	3.47	3.99	4.45
December	2.39	6.82	0.35	1.11	1.32	1.61	1.84	2.06	2.27	2.51	2.77	3.10	3.60	4.05

Ohio West Central Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
Inches -														
January	2.80	1.96	1.42	0.48	0.73	1.14	1.52	1.91	2.33	2.81	3.40	4.18	5.42	6.59
February	2.21	3.77	0.59	0.72	0.93	1.24	1.51	1.76	2.02	2.31	2.64	3.07	3.74	4.35
March	3.37	3.62	0.93	1.07	1.39	1.86	2.27	2.66	3.07	3.51	4.03	4.70	5.74	6.70
April	3.62	4.40	0.82	1.32	1.66	2.15	2.56	2.95	3.35	3.78	4.29	4.93	5.92	6.83
May	3.57	4.43	0.81	1.31	1.64	2.12	2.53	2.91	3.31	3.74	4.23	4.87	5.85	6.74
June	4.06	4.29	0.95	1.45	1.83	2.39	2.85	3.29	3.75	4.24	4.81	5.55	6.68	7.72
July	3.63	6.08	0.60	1.59	1.92	2.37	2.74	3.08	3.43	3.81	4.23	4.77	5.60	6.34
August	2.97	5.79	0.51	1.27	1.54	1.92	2.22	2.51	2.80	3.12	3.48	3.93	4.62	5.24
September	2.89	2.64	1.09	0.70	0.97	1.39	1.77	2.14	2.53	2.97	3.49	4.18	5.26	6.27
October	2.37	2.14	1.10	0.46	0.67	1.02	1.34	1.66	2.01	2.41	2.88	3.51	4.53	5.49
November	2.41	4.65	0.52	0.91	1.13	1.45	1.72	1.98	2.24	2.52	2.84	3.26	3.90	4.48
December	2.23	3.51	0.63	0.69	0.90	1.22	1.49	1.75	2.02	2.32	2.67	3.12	3.82	4.47

TABLE 83 - Precipitation Probabilities for Climatic Divisions

Ohio Central Hills Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.84	2.52	1.13	0.66	0.92	1.34	1.71	2.08	2.48	2.92	3.45	4.14	5.24	6.28
February	2.23	4.62	0.48	0.84	1.04	1.34	1.59	1.83	2.07	2.33	2.63	3.02	3.61	4.15
March	3.40	4.61	0.74	1.28	1.60	2.05	2.43	2.79	3.16	3.56	4.03	4.62	5.52	6.35
April	3.47	5.97	0.58	1.51	1.82	2.25	2.61	2.94	3.27	3.63	4.04	4.56	5.34	6.03
May	3.62	4.93	0.73	1.42	1.75	2.23	2.62	3.00	3.38	3.79	4.26	4.87	5.78	6.61
June	4.22	5.44	0.77	1.74	2.13	2.67	3.12	3.54	3.96	4.42	4.95	5.61	6.63	7.56
July	3.89	8.96	0.43	2.02	2.34	2.77	3.12	3.43	3.74	4.07	4.45	4.91	5.60	6.20
August	3.50	6.67	0.52	1.60	1.91	2.34	2.68	3.00	3.32	3.67	4.06	4.55	5.30	5.97
September	2.83	4.14	0.68	0.99	1.26	1.64	1.97	2.28	2.60	2.95	3.36	3.88	4.69	5.43
October	2.24	2.44	0.92	0.50	0.71	1.04	1.33	1.63	1.94	2.30	2.72	3.28	4.16	5.00
November	2.43	5.36	0.45	1.00	1.22	1.53	1.79	2.04	2.28	2.55	2.85	3.24	3.84	4.38
December	2.31	3.64	0.63	0.74	0.96	1.28	1.56	1.82	2.10	2.41	2.76	3.22	3.93	4.59

Ohio Northeast Hills Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.93	3.30	0.89	0.87	1.15	1.57	1.93	2.28	2.64	3.05	3.52	4.14	5.10	5.99
February	2.35	4.58	0.51	0.88	1.10	1.41	1.68	1.93	2.18	2.46	2.78	3.19	3.82	4.40
March	3.52	5.08	0.69	1.40	1.72	2.19	2.57	2.93	3.29	3.69	4.14	4.72	5.61	6.42
April	3.50	6.04	0.58	1.53	1.84	2.28	2.64	2.97	3.30	3.67	4.08	4.60	5.40	6.11
May	3.62	4.46	0.81	1.33	1.67	2.16	2.52	2.95	3.35	3.78	4.28	4.92	5.91	6.81
June	4.01	9.14	0.44	2.10	2.43	2.87	3.22	3.54	3.86	4.20	4.58	5.06	5.77	6.41
July	4.11	7.29	0.56	1.96	2.32	2.81	3.20	3.56	3.92	4.31	4.75	5.31	6.14	6.89
August	3.30	4.93	0.67	1.29	1.59	2.03	2.39	2.73	3.07	3.45	3.88	4.43	5.26	6.01
September	2.82	3.68	0.76	0.91	1.17	1.57	1.90	2.23	2.56	2.93	3.36	3.92	4.78	5.57
October	2.46	2.52	0.98	0.57	0.80	1.16	1.48	1.81	2.15	2.53	2.99	3.59	4.54	5.44
November	2.49	5.71	0.44	1.06	1.28	1.60	1.86	2.10	2.35	2.61	2.91	3.30	3.88	4.41
December	2.41	4.21	0.57	0.85	1.08	1.41	1.68	1.95	2.22	2.51	2.86	3.30	3.98	4.60

TABLE 84 - Precipitation Probabilities for
Climatic Divisions

Ohio Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.44	2.36	1.46	0.74	1.06	1.56	2.02	2.48	2.97	3.52	4.18	5.04	6.43	7.74
February	2.83	3.13	0.91	0.80	1.07	1.48	1.83	2.18	2.54	2.94	3.41	4.02	4.98	5.88
March	4.18	3.12	1.34	1.18	1.57	2.17	2.70	3.21	3.74	4.33	5.03	5.93	7.35	8.67
April	3.78	4.36	0.87	1.37	1.72	2.24	2.66	3.07	3.49	3.95	4.48	5.16	6.20	7.16
May	3.78	3.61	1.05	1.20	1.56	2.09	2.54	2.98	3.44	3.94	4.52	5.27	6.45	7.53
June	4.02	4.98	0.81	1.58	1.95	2.48	2.92	3.33	3.75	4.21	4.73	5.40	6.40	7.31
July	3.93	5.33	0.74	1.60	1.96	2.47	2.89	3.28	3.68	4.11	4.61	5.24	6.20	7.07
August	3.16	8.84	0.36	1.64	1.90	2.25	2.53	2.78	3.04	3.31	3.62	4.00	4.57	5.07
September	2.93	3.67	0.80	0.94	1.22	1.63	1.98	2.32	2.67	3.05	3.50	4.07	4.97	5.79
October	2.27	2.52	0.90	0.52	0.74	1.07	1.37	1.66	1.98	2.33	2.75	3.31	4.19	5.02
November	2.84	3.92	0.73	0.96	1.23	1.62	1.95	2.27	2.60	2.96	3.38	3.92	4.75	5.50
December	2.66	3.97	0.67	0.90	1.15	1.52	1.83	2.13	2.44	2.77	3.16	3.66	4.42	5.12

Ohio South Central Division

Probabilities (Based on 35 years of data)

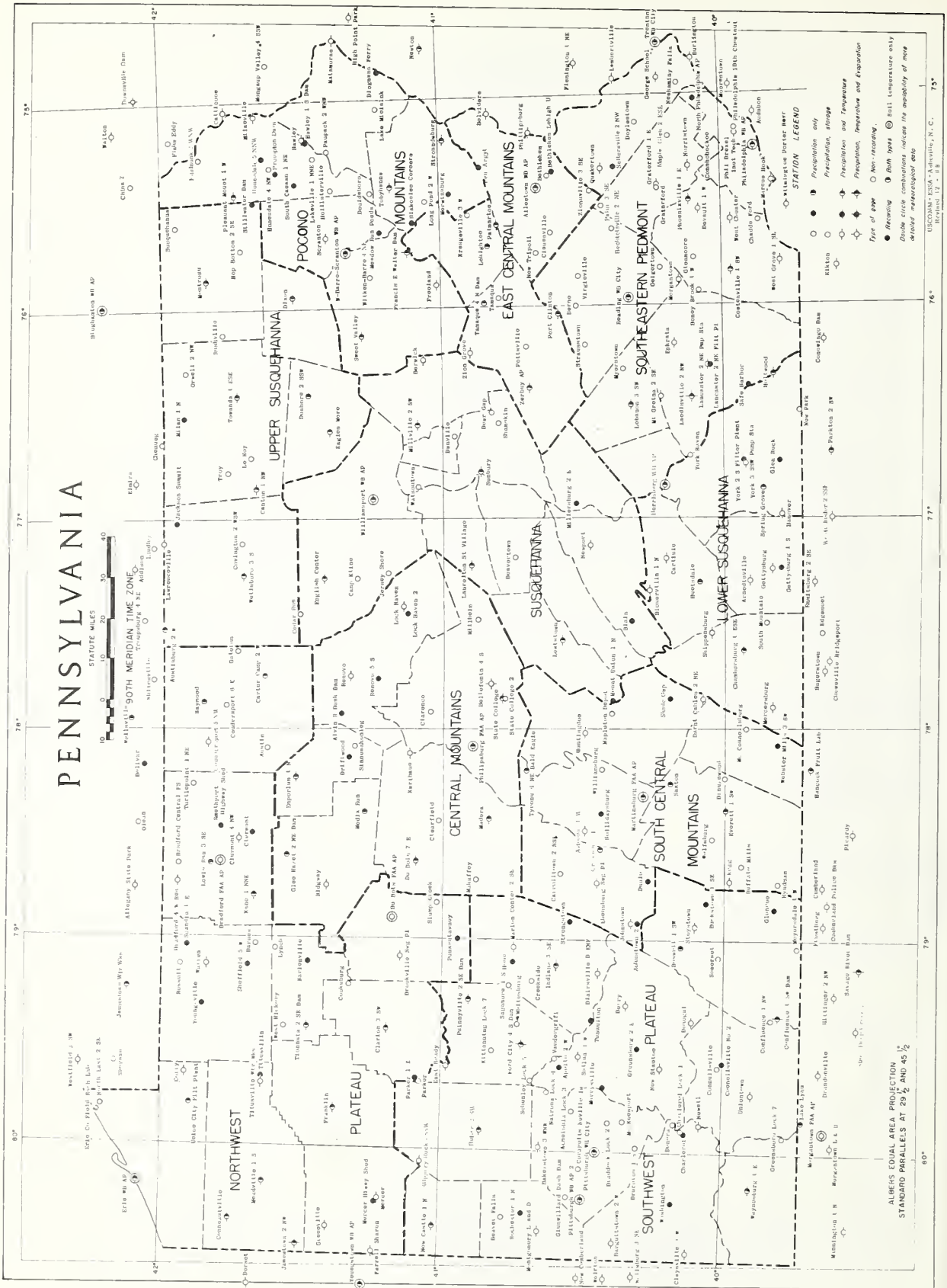
Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.60	3.11	1.16	1.01	1.35	1.87	2.32	2.76	3.22	3.73	4.33	5.11	6.34	7.48
February	3.01	3.21	0.94	0.87	1.15	1.59	1.96	2.32	2.70	3.12	3.61	4.26	5.26	6.19
March	4.37	4.71	0.93	1.66	2.07	2.65	3.13	3.59	4.06	4.57	5.16	5.91	7.05	8.10
April	3.76	6.03	0.62	1.64	1.98	2.45	2.83	3.19	3.55	3.94	4.38	4.95	5.80	6.58
May	3.83	4.23	0.90	1.36	1.72	2.24	2.68	3.10	3.53	4.00	4.54	5.24	6.32	7.31
June	3.84	7.92	0.49	1.90	2.23	2.67	3.02	3.35	3.68	4.02	4.42	4.91	5.64	6.29
July	4.46	6.73	0.66	2.05	2.45	2.99	3.42	3.83	4.24	4.67	5.17	5.80	6.75	7.59
August	3.58	5.66	0.63	1.51	1.84	2.29	2.67	3.02	3.37	3.75	4.19	4.75	5.59	6.35
September	3.01	5.27	0.57	1.22	1.50	1.89	2.21	2.52	2.82	3.16	3.54	4.03	4.77	5.44
October	2.12	2.60	0.81	0.50	0.70	1.01	1.29	1.56	1.85	2.18	2.56	3.07	3.87	4.63
November	2.70	4.85	0.56	1.04	1.29	1.65	1.95	2.23	2.51	2.82	3.18	3.63	4.33	4.95
December	2.85	3.80	0.75	0.94	1.21	1.61	1.94	2.27	2.60	2.97	3.40	3.94	4.79	5.57

**TABLE 85 - Precipitation Probabilities for
Climatic Divisions**

Ohio Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.04	3.26	0.93	0.89	1.18	1.61	1.99	2.35	2.73	3.15	3.65	4.29	5.29	6.23
February	2.63	4.33	0.61	0.95	1.19	1.55	1.85	2.13	2.43	2.74	3.11	3.59	4.32	4.98
March	3.83	4.26	0.90	1.36	1.72	2.25	2.68	3.10	3.53	4.00	4.54	5.24	6.31	7.29
April	3.63	6.53	0.56	1.65	1.97	2.41	2.77	3.11	3.45	3.81	4.22	4.74	5.53	6.23
May	3.83	4.33	0.88	1.38	1.74	2.26	2.69	3.11	3.54	4.00	4.54	5.23	6.29	7.26
June	4.20	7.02	0.60	1.97	2.34	2.84	3.25	3.62	4.00	4.40	4.86	5.44	6.31	7.10
July	4.26	15.78	0.27	2.66	2.95	3.34	3.64	3.90	4.17	4.44	4.74	5.12	5.67	6.15
August	3.59	4.81	0.75	1.38	1.71	2.19	2.58	2.96	3.34	3.75	4.23	4.83	5.76	6.60
September	2.86	3.65	0.78	0.91	1.18	1.58	1.93	2.26	2.60	2.97	3.41	3.98	4.85	5.66
October	2.21	2.84	0.78	0.57	0.78	1.10	1.38	1.66	1.95	2.28	2.66	3.17	3.95	4.68
November	2.54	5.62	0.45	1.07	1.30	1.62	1.89	2.14	2.39	2.66	2.98	3.37	3.97	4.52
December	2.60	4.35	0.60	0.94	1.18	1.53	1.83	2.11	2.40	2.71	3.08	3.55	4.27	4.93



PENNSYLVANIA

STATUTE MILES
0 10 20 30 40

110° 30' WEST OF 90° MERIDIAN TIME ZONE
TOWNSHIP 18 N. R. 1 E. ADDISON TOWNSHIP

ALBERTS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29° AND 45°

- STATION LEGEND**
- Precipitation only
 - Precipitation, altitude
 - Precipitation and temperature
 - Precipitation, temperature and elevation
 - Non-precipitating
 - Both types
 - Both temperature only
- Double circle combinations indicate the availability of more detailed meteorological data

USGS/NOAA, NAD 83, Pennsylvania, N.C.
Revised 12 - 8 - 79

TABLE 86 - Comparison of Station Data with Corresponding Climatic Divisions Data

Station--Harrisburg, Pennsylvania

Probabilities (Based on 37 years of data)

Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.79	5.33	0.52	1.14	1.40	1.76	2.06	2.34	2.62	2.93	3.28	3.73	4.41	5.04
February	2.46	6.58	0.37	1.12	1.34	1.64	1.88	2.11	2.33	2.58	2.85	3.20	3.73	4.21
March	3.44	6.75	0.51	1.59	1.89	2.30	2.64	2.95	3.27	3.60	3.99	4.47	5.20	5.85
April	3.02	5.06	0.60	1.20	1.48	1.87	2.20	2.51	2.82	3.16	3.55	4.05	4.81	5.51
May	3.59	2.50	1.44	0.82	1.16	1.68	2.15	2.62	3.12	3.68	4.35	5.23	6.63	7.95
June	3.23	2.98	1.08	0.88	1.18	1.65	2.06	2.46	2.87	3.34	3.89	4.60	5.71	6.72
July	3.44	3.21	1.07	0.99	1.32	1.81	2.24	2.66	3.09	3.57	4.14	4.87	6.02	7.08
August	3.67	3.16	1.16	1.05	1.40	1.92	2.38	2.83	3.30	3.81	4.42	5.21	6.45	7.60
September	2.85	2.93	0.97	0.76	1.03	1.44	1.80	2.15	2.52	2.94	3.42	4.06	5.05	5.96
October	2.84	2.09	1.36	0.53	0.79	1.20	1.59	1.98	2.40	2.88	3.46	4.22	5.46	6.64
November	3.03	3.12	0.97	0.85	1.14	1.58	1.96	2.33	2.71	3.14	3.64	4.30	5.33	6.28
December	2.91	3.46	0.84	0.89	1.17	1.58	1.93	2.28	2.63	3.03	3.48	4.08	5.00	5.86

Division--Pennsylvania Lower Susquehanna Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.91	5.36	0.54	1.19	1.46	1.83	2.14	2.43	2.73	3.05	3.41	3.88	4.59	5.23
February	2.52	6.31	0.40	1.13	1.35	1.66	1.92	2.15	2.39	2.65	2.94	3.31	3.87	4.37
March	3.74	6.91	0.54	1.75	2.07	2.52	2.89	3.22	3.56	3.92	4.34	4.85	5.63	6.32
April	3.52	5.01	0.70	1.39	1.71	2.18	2.56	2.92	3.29	3.69	4.14	4.73	5.62	6.44
May	3.87	3.74	1.03	1.26	1.63	2.17	2.63	3.07	3.53	4.03	4.61	5.36	6.53	7.60
June	3.67	7.62	0.48	1.79	2.10	2.53	2.88	3.20	3.51	3.85	4.24	4.72	5.45	6.09
July	3.70	7.32	0.51	1.77	2.09	2.53	2.88	3.20	3.53	3.88	4.28	4.77	5.52	6.19
August	3.99	4.14	0.96	1.39	1.77	2.32	2.78	3.22	3.67	4.16	4.74	5.47	6.61	7.66
September	3.13	3.51	0.89	0.97	1.27	1.71	2.09	2.46	2.84	3.26	3.75	4.39	5.38	6.29
October	3.10	2.06	1.51	0.57	0.85	1.30	1.72	2.15	2.62	3.14	3.78	4.63	5.99	7.29
November	3.19	3.31	0.96	0.95	1.25	1.70	2.10	2.48	2.88	3.31	3.83	4.50	5.54	6.51
December	2.94	3.18	0.93	0.84	1.12	1.54	1.91	2.27	2.64	3.05	3.54	4.16	5.15	6.07

TABLE 87 - Precipitation Probabilities for
Climatic Divisions

Pennsylvania Pocono Mountains Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.92	6.38	0.46	1.31	1.57	1.93	2.23	2.50	2.77	3.07	3.40	3.83	4.47	5.05
February	2.63	10.73	0.25	1.46	1.67	1.94	2.16	2.35	2.55	2.75	2.98	3.27	3.69	4.07
March	3.52	7.88	0.45	1.74	2.04	2.44	2.77	3.07	3.37	3.68	4.05	4.50	5.17	5.77
April	3.82	6.06	0.63	1.67	2.01	2.49	2.88	3.24	3.61	4.00	4.46	5.03	5.89	6.67
May	3.89	4.58	0.85	1.45	1.82	2.34	2.77	3.19	3.61	4.07	4.60	5.28	6.32	7.27
June	3.79	9.08	0.42	1.98	2.29	2.71	3.04	3.35	3.65	3.97	4.34	4.79	5.46	6.07
July	4.58	3.99	1.15	1.56	1.99	2.63	3.16	3.67	4.20	4.77	5.44	6.30	7.61	8.80
August	4.25	3.92	1.09	1.43	1.83	2.42	2.92	3.40	3.89	4.43	5.06	5.86	7.10	8.22
September	3.63	2.78	1.31	0.92	1.26	1.79	2.26	2.72	3.20	3.74	4.38	5.22	6.53	7.76
October	3.42	2.55	1.34	0.80	1.12	1.62	2.06	2.51	2.98	3.51	4.14	4.97	6.28	7.52
November	3.65	4.54	0.80	1.36	1.70	2.19	2.60	2.99	3.39	3.82	4.32	4.96	5.95	6.84
December	3.17	4.30	0.74	1.14	1.44	1.87	2.23	2.57	2.93	3.31	3.76	4.33	5.22	6.03

Pennsylvania East Central Mountains Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.15	5.71	0.55	1.34	1.62	2.02	2.35	2.65	2.97	3.30	3.68	4.17	4.90	5.57
February	2.74	10.11	0.27	1.49	1.71	2.00	2.23	2.44	2.65	2.87	3.12	3.43	3.89	4.30
March	3.77	8.77	0.43	1.95	2.26	2.68	3.02	3.32	3.63	3.95	4.32	4.78	5.46	6.07
April	3.79	5.16	0.73	1.52	1.87	2.37	2.78	3.16	3.55	3.97	4.46	5.08	6.03	6.89
May	3.98	3.39	1.18	1.20	1.58	2.15	2.63	3.11	3.60	4.14	4.77	5.60	6.88	8.07
June	3.72	7.04	0.53	1.75	2.08	2.52	2.88	3.21	3.55	3.90	4.31	4.82	5.59	6.29
July	4.82	3.36	1.43	1.44	1.90	2.59	3.18	3.75	4.35	5.01	5.78	6.78	8.34	9.79
August	4.43	4.28	1.03	1.58	2.00	2.60	3.11	3.59	4.09	4.63	5.26	6.06	7.29	8.43
September	3.77	2.58	1.46	0.89	1.24	1.79	2.29	2.77	3.29	3.87	4.56	5.47	6.90	8.25
October	3.16	2.88	1.10	0.83	1.13	1.59	1.99	2.39	2.80	3.26	3.81	4.52	5.63	6.66
November	3.68	3.43	1.07	1.12	1.47	1.99	2.44	2.87	3.33	3.82	4.41	5.16	6.34	7.43
December	3.35	3.62	0.93	1.06	1.38	1.86	2.26	2.65	3.05	3.49	4.01	4.68	5.72	6.67

TABLE 88 - Precipitation Probabilities for Climatic Divisions

Pennsylvania Southeastern Piedmont Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.16	5.00	0.63	1.24	1.54	1.95	2.30	2.62	2.95	3.31	3.72	4.24	5.05	5.78
February	2.72	10.34	0.26	1.49	1.71	1.99	2.22	2.43	2.63	2.85	3.09	3.39	3.84	4.24
March	3.81	8.19	0.47	1.91	2.23	2.67	3.02	3.34	3.66	3.99	4.38	4.86	5.58	6.23
April	3.53	5.00	0.71	1.39	1.72	2.18	2.57	2.93	3.30	3.70	4.16	4.74	5.64	6.46
May	3.70	3.66	1.01	1.18	1.53	2.05	2.50	2.92	3.36	3.85	4.42	5.15	6.28	7.32
June	3.74	6.15	0.61	1.65	1.98	2.45	2.82	3.18	3.53	3.92	4.36	4.91	5.75	6.51
July	4.31	4.01	1.08	1.48	1.88	2.48	2.98	3.46	3.96	4.50	5.14	5.95	7.20	8.36
August	4.47	4.10	1.09	1.56	1.98	2.59	3.11	3.61	4.12	4.67	5.32	6.15	7.43	8.61
September	3.49	3.50	1.00	1.08	1.41	1.90	2.33	2.74	3.16	3.63	4.18	4.88	5.99	7.01
October	2.95	3.14	0.94	0.84	1.12	1.54	1.91	2.27	2.64	3.06	3.55	4.18	5.18	6.11
November	3.50	3.16	1.11	1.00	1.33	1.83	2.27	2.70	3.14	3.63	4.21	4.96	6.14	7.24
December	3.09	3.95	0.78	1.05	1.34	1.77	2.13	2.47	2.83	3.22	3.68	4.26	5.15	5.96

Pennsylvania Middle Susquehanna Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.70	6.00	0.45	1.17	1.41	1.75	2.03	2.28	2.54	2.82	3.14	3.54	4.14	4.68
February	2.33	6.05	0.38	1.02	1.23	1.52	1.75	1.98	2.20	2.44	2.71	3.06	3.59	4.07
March	3.54	8.94	0.40	1.84	2.13	2.52	2.83	3.12	3.40	3.70	4.04	4.46	5.09	5.65
April	3.54	6.28	0.56	1.58	1.89	2.33	2.68	3.02	3.35	3.71	4.12	4.64	5.42	6.13
May	4.04	3.72	1.09	1.31	1.69	2.26	2.74	3.20	3.68	4.21	4.82	5.61	6.83	7.96
June	3.39	9.02	0.38	1.77	2.05	2.42	2.72	2.99	3.26	3.55	3.88	4.28	4.89	5.43
July	3.74	8.58	0.44	1.91	2.22	2.64	2.98	3.29	3.59	3.92	4.29	4.75	5.43	6.05
August	3.87	5.53	0.70	1.62	1.97	2.46	2.87	3.25	3.64	4.06	4.54	5.15	6.08	6.92
September	3.09	3.47	0.89	0.95	1.24	1.68	2.06	2.42	2.80	3.22	3.70	4.33	5.32	6.23
October	3.09	2.45	1.26	0.69	0.98	1.43	1.84	2.25	2.68	3.17	3.75	4.51	5.73	6.87
November	3.28	3.81	0.86	1.08	1.39	1.85	2.24	2.61	3.00	3.42	3.91	4.55	5.53	6.42
December	2.82	3.79	0.74	0.93	1.19	1.59	1.92	2.24	2.57	2.94	3.36	3.91	4.75	5.52

TABLE 89 - Precipitation Probabilities for
Climatic Divisions

Pennsylvania Upper Susquehanna Division														
Probabilities (Based on 34 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.28	5.51	0.41	0.95	1.16	1.45	1.69	1.92	2.14	2.39	2.67	3.03	3.58	4.08
February	2.10	6.25	0.34	0.93	1.12	1.38	1.59	1.79	1.99	2.20	2.45	2.75	3.22	3.64
March	2.97	9.26	0.32	1.56	1.81	2.13	2.39	2.62	2.86	3.11	3.39	3.74	4.26	4.73
April	3.33	7.04	0.47	1.57	1.86	2.25	2.58	2.87	3.17	3.49	3.86	4.31	5.00	5.62
May	3.91	4.13	0.95	1.37	1.73	2.27	2.72	3.16	3.60	4.09	4.65	5.38	6.49	7.52
June	3.24	8.57	0.38	1.66	1.93	2.29	2.59	2.85	3.12	3.40	3.72	4.12	4.72	5.25
July	3.84	9.03	0.42	2.00	2.32	2.74	3.08	3.39	3.70	4.02	4.39	4.85	5.54	6.15
August	3.77	6.28	0.60	1.68	2.02	2.48	2.86	3.22	3.57	3.96	4.39	4.95	5.78	6.54
September	3.25	3.27	0.99	0.95	1.26	1.73	2.13	2.52	2.93	3.37	3.90	4.59	5.66	6.66
October	2.98	2.51	1.19	0.68	0.96	1.40	1.79	2.18	2.60	3.06	3.62	4.35	5.51	6.60
November	2.81	4.87	0.58	1.09	1.35	1.72	2.03	2.32	2.62	2.94	3.31	3.78	4.50	5.15
December	2.39	4.74	0.51	0.91	1.14	1.45	1.72	1.97	2.23	2.50	2.83	3.23	3.86	4.43

Pennsylvania Central Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.79	6.45	0.43	1.26	1.50	1.85	2.12	2.38	2.64	2.92	3.24	3.64	4.25	4.80
February	2.39	5.93	0.40	1.03	1.25	1.55	1.79	2.02	2.25	2.50	2.78	3.14	3.68	4.17
March	3.71	8.07	0.46	1.85	2.17	2.59	2.93	3.25	3.56	3.89	4.27	4.75	5.46	6.09
April	3.62	6.68	0.54	1.66	1.98	2.42	2.78	3.11	3.44	3.80	4.20	4.71	5.48	6.18
May	4.12	3.89	1.06	1.38	1.77	2.34	2.82	3.29	3.77	4.29	4.90	5.68	6.89	7.99
June	3.68	10.78	0.34	2.05	2.33	2.72	3.02	3.29	3.56	3.85	4.17	4.57	5.16	5.68
July	4.08	10.20	0.40	2.23	2.55	2.99	3.33	3.64	3.95	4.28	4.65	5.10	5.78	6.39
August	3.74	6.93	0.54	1.75	2.07	2.52	2.88	3.22	3.56	3.92	4.33	4.84	5.61	6.30
September	2.99	4.33	0.69	1.08	1.36	1.76	2.10	2.43	2.76	3.12	3.54	4.08	4.91	5.67
October	2.90	2.68	1.08	0.71	0.98	1.41	1.78	2.15	2.54	2.98	3.50	4.18	5.26	6.26
November	3.03	5.35	0.57	1.24	1.52	1.91	2.23	2.54	2.85	3.18	3.56	4.05	4.79	5.46
December	2.73	5.10	0.53	1.09	1.34	1.69	1.99	2.27	2.55	2.86	3.21	3.66	4.34	4.97

TABLE 90 - Precipitation Probabilities for
Climatic Divisions

Pennsylvania South Central Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.96	6.57	0.45	1.35	1.61	1.97	2.27	2.54	2.81	3.11	3.44	3.86	4.50	5.08
February	2.52	7.03	0.36	1.18	1.40	1.71	1.95	2.17	2.40	2.64	2.92	3.27	3.79	4.26
March	3.93	6.78	0.58	1.82	2.16	2.64	3.02	3.38	3.74	4.12	4.56	5.11	5.94	6.68
April	3.73	5.82	0.64	1.60	1.94	2.41	2.79	3.15	3.52	3.91	4.36	4.93	5.79	6.56
May	3.90	3.99	0.98	1.33	1.70	2.23	2.69	3.12	3.57	4.06	4.63	5.35	6.47	7.47
June	3.94	6.47	0.61	1.78	2.13	2.61	3.00	3.37	3.74	4.13	4.58	5.15	6.01	6.78
July	4.04	10.24	0.39	2.21	2.53	2.96	3.30	3.60	3.91	4.23	4.60	5.05	5.72	6.32
August	3.73	5.30	0.70	1.52	1.86	2.35	2.74	3.12	3.50	3.91	4.38	4.98	5.90	6.73
September	2.88	4.22	0.68	1.02	1.29	1.68	2.01	2.33	2.65	3.01	3.42	3.94	4.76	5.50
October	2.73	2.30	1.19	0.57	0.82	1.22	1.59	1.95	2.34	2.79	3.32	4.02	5.14	6.20
November	2.89	5.24	0.55	1.17	1.44	1.81	2.12	2.41	2.71	3.03	3.40	3.87	4.58	5.23
December	2.81	4.05	0.69	0.97	1.23	1.62	1.94	2.26	2.58	2.93	3.34	3.86	4.67	5.42

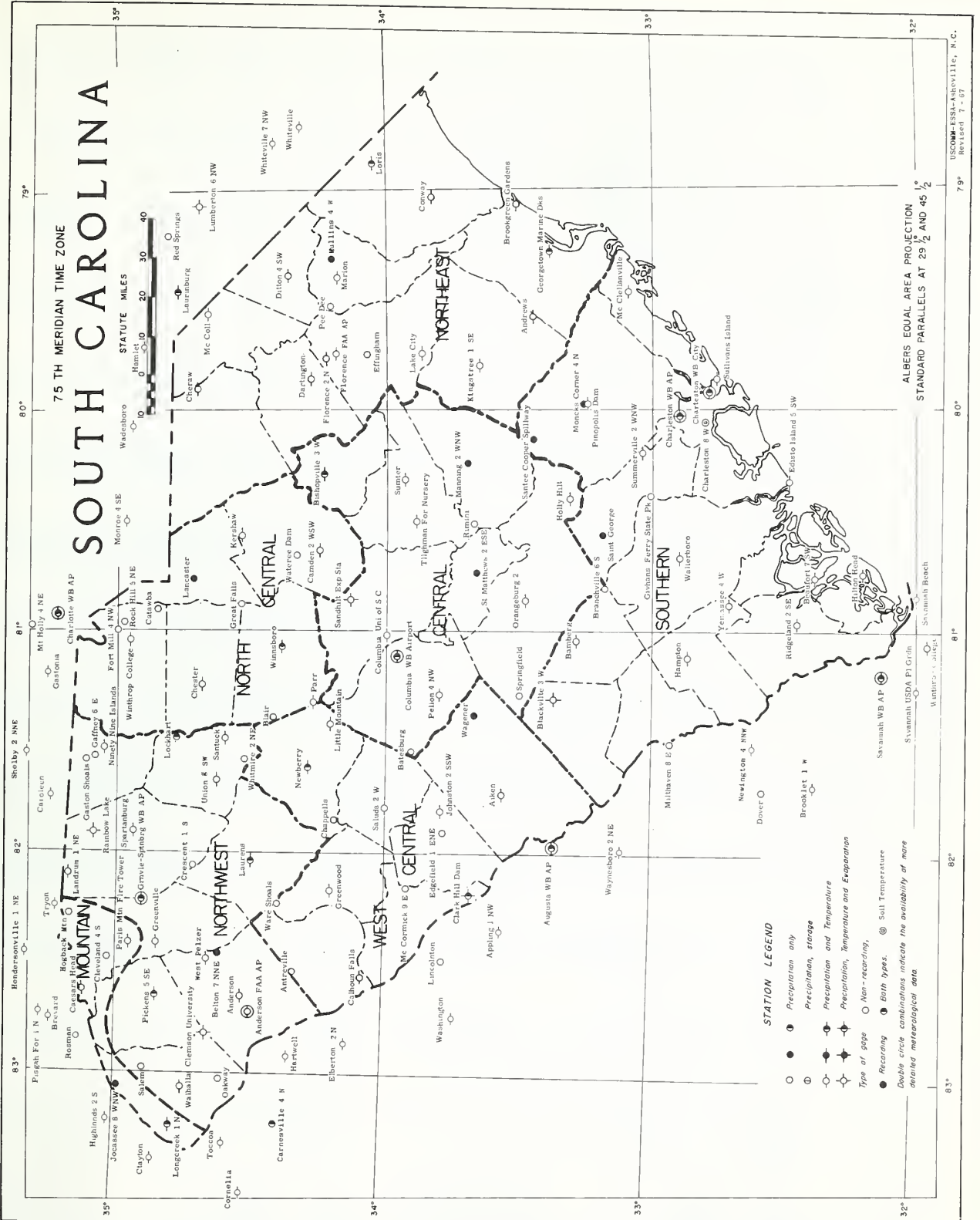
Pennsylvania Southwest Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.08	5.14	0.60	1.23	1.52	1.92	2.25	2.56	2.88	3.22	3.62	4.12	4.89	5.60
February	2.61	6.21	0.42	1.16	1.39	1.72	1.98	2.23	2.48	2.74	3.05	3.43	4.02	4.55
March	3.83	7.38	0.52	1.84	2.17	2.62	2.99	3.33	3.66	4.02	4.43	4.94	5.72	6.41
April	3.81	6.80	0.56	1.76	2.10	2.55	2.93	3.27	3.62	3.99	4.41	4.94	5.74	6.46
May	3.95	6.02	0.66	1.72	2.08	2.57	2.98	3.36	3.74	4.15	4.62	5.21	6.11	6.92
June	4.25	9.25	0.46	2.24	2.58	3.05	3.42	3.76	4.09	4.45	4.85	5.35	6.10	6.77
July	4.24	13.33	0.32	2.53	2.83	3.24	3.56	3.85	4.13	4.43	4.76	5.17	5.78	6.31
August	3.80	5.46	0.70	1.57	1.92	2.41	2.81	3.19	3.57	3.98	4.46	5.06	5.98	6.81
September	3.02	4.66	0.65	1.14	1.43	1.83	2.17	2.48	2.81	3.16	3.57	4.10	4.90	5.63
October	2.74	3.28	0.83	0.81	1.07	1.46	1.79	2.12	2.47	2.84	3.29	3.86	4.76	5.60
November	2.74	5.89	0.46	1.18	1.43	1.77	2.05	2.31	2.58	2.86	3.19	3.60	4.23	4.79
December	2.74	4.75	0.58	1.05	1.30	1.67	1.97	2.26	2.55	2.87	3.23	3.70	4.42	5.07

TABLE 91 - Precipitation Probabilities for
Climatic Divisions

Month	Pennsylvania Northwest Plateau Division													
	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
	Inches			0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
				- Inches -										
January	2.99	4.17	0.72	1.05	1.33	1.74	2.09	2.42	2.76	3.12	3.55	4.10	4.95	5.73
February	2.58	7.26	0.36	1.23	1.45	1.76	2.01	2.23	2.46	2.71	2.99	3.33	3.86	4.33
March	3.41	8.02	0.42	1.70	1.99	2.38	2.69	2.98	3.27	3.57	3.92	4.36	5.01	5.60
April	3.79	7.60	0.50	1.85	2.17	2.61	2.97	3.30	3.63	3.98	4.37	4.87	5.62	6.29
May	3.97	5.32	0.75	1.62	1.99	2.50	2.92	3.32	3.73	4.16	4.67	5.30	6.28	7.16
June	4.04	10.94	0.37	2.26	2.57	2.99	3.32	3.62	3.91	4.22	4.57	5.00	5.64	6.20
July	4.08	9.78	0.42	2.19	2.52	2.96	3.30	3.62	3.94	4.27	4.64	5.11	5.80	6.41
August	3.48	7.69	0.45	1.70	2.00	2.41	2.73	3.03	3.33	3.65	4.02	4.47	5.16	5.77
September	3.18	6.69	0.48	1.46	1.74	2.13	2.44	2.73	3.02	3.34	3.69	4.14	4.82	5.43
October	3.06	2.82	1.09	0.79	1.08	1.52	1.91	2.30	2.71	3.16	3.69	4.39	5.49	6.51
November	3.28	7.86	0.42	1.62	1.90	2.28	2.58	2.86	3.14	3.44	3.78	4.20	4.83	5.39
December	2.81	7.87	0.36	1.39	1.63	1.95	2.21	2.45	2.69	2.94	3.23	3.59	4.13	4.61



SOUTH CAROLINA

75 TH MERIDIAN TIME ZONE

STATUTE MILES
0 10 20 30 40

- STATION LEGEND**
- Precipitation only
 - Precipitation, storage
 - Precipitation and Temperature
 - | Precipitation, Temperature and Evaporation
 - × Type of gage
 - Recording Bath types
 - Double circle combinations indicate the availability of more detailed meteorological data

ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 45 1/2

USCOM-NSRA-Asheville, N.C.
REVISED 7-67

TABLE 92 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Columbia, South Carolina														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 37 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.11	3.20	0.97	0.89	1.19	1.63	2.02	2.40	2.79	3.22	3.73	4.40	5.44	6.40
February	3.76	2.73	1.38	0.94	1.29	1.84	2.33	2.81	3.31	3.87	4.54	5.42	6.80	8.08
March	4.05	4.59	0.88	1.51	1.89	2.43	2.89	3.32	3.76	4.23	4.78	5.49	6.57	7.56
April	3.69	4.17	0.89	1.30	1.65	2.15	2.58	2.98	3.40	3.86	4.39	5.07	6.11	7.08
May	3.34	2.23	1.50	0.68	0.98	1.47	1.92	2.37	2.86	3.40	4.06	4.93	6.33	7.66
June	3.61	3.35	1.08	1.08	1.42	1.94	2.38	2.81	3.26	3.75	4.33	5.08	6.25	7.34
July	5.42	3.26	1.66	1.59	2.10	2.88	3.55	4.20	4.88	5.63	6.51	7.66	9.45	11.11
August	5.68	2.49	2.28	1.30	1.83	2.66	3.41	4.15	4.94	5.83	6.89	8.28	10.50	12.58
September	3.92	2.17	1.81	0.77	1.12	1.70	2.23	2.76	3.34	3.99	4.78	5.82	7.49	9.07
October	2.24	0.87	2.57	0.08	0.18	0.42	0.71	1.05	1.47	1.99	2.67	3.65	5.34	7.05
November	2.23	1.80	1.24	0.34	0.53	0.86	1.17	1.48	1.83	2.23	2.72	3.38	4.44	5.45
December	3.17	2.65	1.20	0.77	1.07	1.53	1.94	2.35	2.78	3.26	3.84	4.59	5.77	6.88

Division--South Carolina Central Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.95	3.62	0.81	0.94	1.22	1.63	1.99	2.33	2.68	3.07	3.53	4.11	5.02	5.86
February	3.73	2.59	1.44	0.88	1.23	1.78	2.26	2.75	3.26	3.83	4.52	5.41	6.83	8.16
March	4.02	4.63	0.87	1.51	1.89	2.43	2.87	3.30	3.73	4.21	4.75	5.45	6.52	7.49
April	3.65	4.56	0.80	1.36	1.70	2.19	2.60	2.99	3.38	3.81	4.31	4.95	5.93	6.83
May	3.17	3.53	0.90	0.99	1.29	1.74	2.12	2.49	2.88	3.30	3.79	4.43	5.43	6.35
June	4.29	5.57	0.77	1.79	2.18	2.73	3.18	3.61	4.03	4.49	5.02	5.69	6.72	7.64
July	5.60	6.08	0.92	2.45	2.96	3.65	4.22	4.76	5.29	5.87	6.53	7.37	8.63	9.78
August	5.37	4.92	1.09	2.09	2.59	3.30	3.88	4.44	5.00	5.61	6.31	7.21	8.57	9.79
September	4.11	3.61	1.14	1.30	1.70	2.27	2.77	3.24	3.74	4.28	4.92	5.73	7.01	8.18
October	2.50	1.32	1.89	0.24	0.41	0.75	1.10	1.48	1.91	2.41	3.05	3.92	5.38	6.80
November	2.36	2.07	1.14	0.44	0.65	1.00	1.32	1.64	2.00	2.40	2.88	3.52	4.56	5.54
December	3.13	2.82	1.11	0.81	1.10	1.56	1.96	2.35	2.77	3.23	3.78	4.49	5.62	6.66

TABLE 93 - Precipitation Probabilities for Climatic Divisions

South Carolina Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	6.23	3.46	1.80	1.91	2.50	3.38	4.14	4.88	5.64	6.48	7.46	8.73	10.72	12.56
February	4.84	2.80	1.73	1.24	1.70	2.40	3.02	3.63	4.27	4.99	5.84	6.95	8.69	10.31
March	6.98	7.02	0.99	3.28	3.89	4.72	5.40	6.02	6.65	7.32	8.09	9.05	10.50	11.80
April	5.76	5.10	1.13	2.29	2.83	3.58	4.20	4.79	5.39	6.03	6.78	7.72	9.17	10.49
May	4.83	4.01	1.21	1.65	2.11	2.78	3.34	3.88	4.44	5.04	5.75	6.66	8.07	9.36
June	5.55	4.34	1.28	2.00	2.52	3.28	3.91	4.51	5.13	5.80	6.58	7.58	9.11	10.52
July	7.22	3.51	2.06	2.24	2.92	3.94	4.82	5.66	6.54	7.51	8.64	10.10	12.37	14.48
August	7.12	3.50	2.04	2.20	2.88	3.89	4.75	5.59	6.46	7.41	8.53	9.97	12.22	14.31
September	4.96	2.60	1.90	1.18	1.65	2.37	3.02	3.66	4.34	5.10	6.00	7.19	9.06	10.82
October	4.99	1.30	3.83	0.46	0.81	1.48	2.18	2.93	3.79	4.81	6.09	7.84	10.77	13.63
November	4.81	3.11	1.54	1.35	1.81	2.50	3.10	3.69	4.30	4.98	5.79	6.83	8.46	9.98
December	6.50	2.68	2.43	1.60	2.21	3.15	4.00	4.83	5.71	6.70	7.87	9.40	11.81	14.08

South Carolina Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.54	4.64	0.98	1.71	2.14	2.74	3.25	3.73	4.22	4.75	5.37	6.15	7.36	8.46
February	4.54	4.44	1.02	1.66	2.09	2.70	3.21	3.70	4.20	4.75	5.38	6.18	7.42	8.56
March	5.52	7.49	0.74	2.67	3.14	3.79	4.31	4.79	5.27	5.78	6.37	7.10	8.20	9.19
April	4.38	4.41	0.99	1.60	2.01	2.60	3.10	3.57	4.05	4.58	5.19	5.97	7.17	8.27
May	3.31	3.76	0.88	1.08	1.40	1.86	2.25	2.63	3.02	3.45	3.95	4.60	5.59	6.51
June	4.00	6.11	0.65	1.76	2.12	2.62	3.03	3.41	3.79	4.20	4.67	5.27	6.17	6.99
July	5.00	8.27	0.60	2.52	2.94	3.51	3.96	4.38	4.80	5.24	5.75	6.37	7.32	8.16
August	4.76	5.30	0.90	1.94	2.38	3.00	3.50	3.98	4.47	4.99	5.60	6.36	7.53	8.60
September	3.52	2.03	1.74	0.64	0.95	1.46	1.94	2.43	2.96	3.57	4.30	5.27	6.83	8.32
October	3.24	1.49	2.18	0.37	0.62	1.08	1.53	2.01	2.55	3.18	3.96	5.02	6.77	8.47
November	3.21	2.61	1.23	0.77	1.07	1.54	1.96	2.37	2.81	3.30	3.89	4.66	5.87	7.01
December	4.49	3.27	1.37	1.32	1.74	2.38	2.94	3.48	4.04	4.66	5.39	6.34	7.82	9.19

TABLE 94 - Precipitation Probabilities for
Climatic Divisions

South Carolina North Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.79	4.37	0.87	1.37	1.73	2.24	2.68	3.09	3.51	3.96	4.50	5.18	6.22	7.18
February	3.82	3.58	1.07	1.20	1.57	2.11	2.57	3.01	3.47	3.98	4.57	5.34	6.52	7.62
March	4.45	5.64	0.79	1.88	2.28	2.85	3.31	3.75	4.19	4.67	5.22	5.91	6.96	7.91
April	3.93	6.35	0.62	1.76	2.11	2.59	2.99	3.36	3.73	4.12	4.58	5.15	6.02	6.80
May	3.06	3.02	1.01	0.84	1.13	1.57	1.96	2.33	2.73	3.17	3.68	4.36	5.42	6.40
June	3.86	5.88	0.66	1.66	2.01	2.49	2.89	3.26	3.64	4.04	4.50	5.08	5.96	6.75
July	5.54	6.32	0.88	2.48	2.97	3.65	4.21	4.73	5.25	5.81	6.45	7.26	8.48	9.59
August	4.82	4.88	0.99	1.87	2.32	2.95	3.48	3.98	4.49	5.04	5.67	6.48	7.71	8.82
September	3.77	2.37	1.59	0.81	1.16	1.71	2.22	2.72	3.25	3.86	4.58	5.53	7.05	8.49
October	2.63	1.43	1.84	0.28	0.48	0.85	1.21	1.61	2.05	2.57	3.21	4.09	5.54	6.95
November	2.74	1.98	1.38	0.48	0.72	1.12	1.49	1.87	2.29	2.76	3.32	4.08	5.29	6.42
December	3.57	3.16	1.13	1.02	1.36	1.87	2.31	2.75	3.20	3.70	4.29	5.06	6.26	7.38

South Carolina Northeast Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	2.98	4.49	0.66	1.10	1.38	1.78	2.11	2.43	2.76	3.11	3.52	4.05	4.85	5.59
February	3.67	2.72	1.35	0.91	1.26	1.79	2.26	2.73	3.23	3.78	4.43	5.28	6.63	7.89
March	4.02	5.46	0.74	1.66	2.03	2.55	2.97	3.37	3.78	4.21	4.71	5.35	6.32	7.20
April	3.44	4.45	0.77	1.26	1.59	2.05	2.44	2.81	3.19	3.60	4.08	4.69	5.63	6.49
May	3.17	4.84	0.66	1.23	1.52	1.94	2.29	2.62	2.95	3.32	3.74	4.27	5.09	5.83
June	4.78	6.47	0.74	2.16	2.59	3.17	3.65	4.09	4.54	5.02	5.56	6.25	7.29	8.23
July	6.19	10.02	0.62	3.36	3.86	4.52	5.04	5.52	5.99	6.49	7.05	7.75	8.80	9.73
August	5.46	8.09	0.67	2.73	3.19	3.81	4.31	4.78	5.24	5.72	6.28	6.97	8.02	8.95
September	4.76	3.55	1.34	1.49	1.94	2.61	3.19	3.75	4.32	4.95	5.70	6.65	8.14	9.52
October	2.57	1.16	2.21	0.19	0.35	0.68	1.03	1.43	1.88	2.43	3.12	4.08	5.71	7.31
November	2.59	2.25	1.15	0.53	0.76	1.14	1.49	1.84	2.21	2.64	3.15	3.82	4.89	5.91
December	3.00	2.97	1.01	0.81	1.10	1.53	1.91	2.28	2.67	3.10	3.61	4.27	5.30	6.25

TABLE 95 - Precipitation Probabilities for Climatic Divisions

South Carolina West Central Division

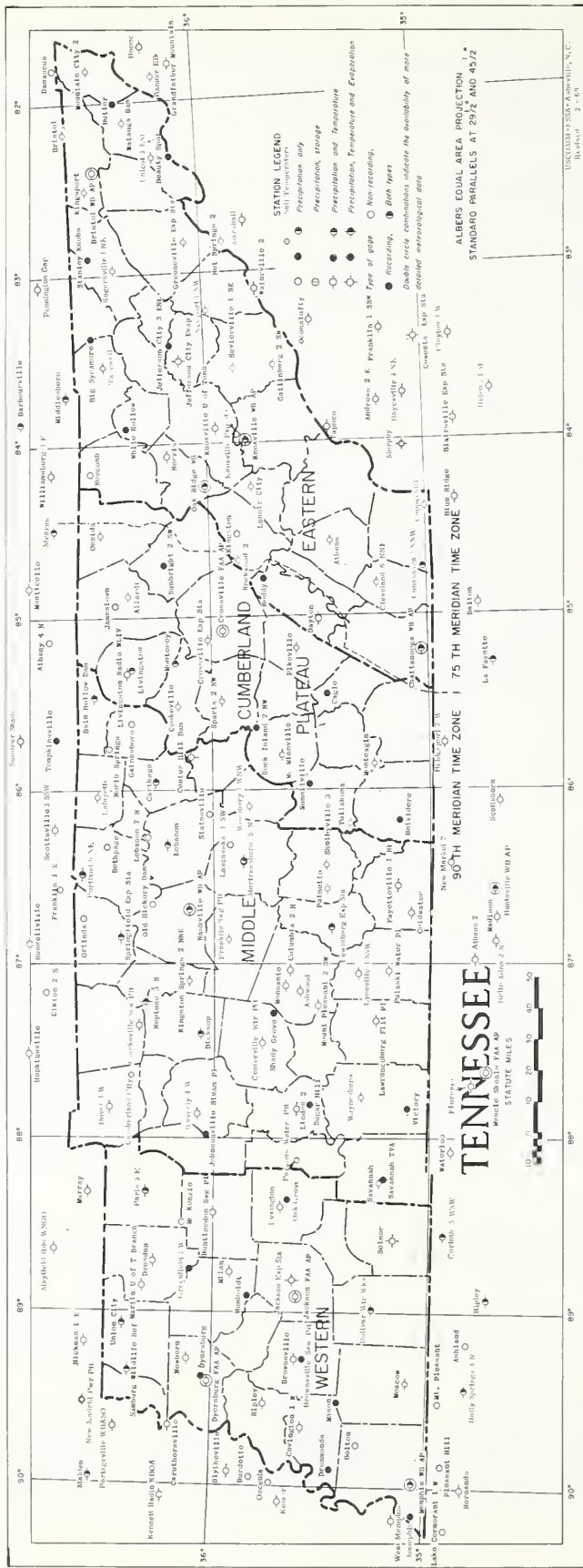
Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.00	4.51	0.89	1.48	1.86	2.40	2.85	3.27	3.71	4.19	4.74	5.44	6.52	7.51
February	4.17	3.72	1.12	1.35	1.75	2.33	2.83	3.31	3.80	4.35	4.98	5.80	7.06	8.22
March	4.86	5.45	0.89	2.01	2.45	3.08	3.59	4.08	4.57	5.09	5.70	6.47	7.65	8.71
April	4.13	4.33	0.95	1.49	1.88	2.44	2.91	3.36	3.82	4.32	4.90	5.64	6.79	7.84
May	3.28	2.65	1.24	0.80	1.10	1.58	2.01	2.43	2.88	3.38	3.97	4.75	5.98	7.13
June	3.79	6.51	0.58	1.72	2.06	2.52	2.90	3.25	3.60	3.98	4.41	4.96	5.78	6.52
July	4.80	8.37	0.57	2.43	2.83	3.38	3.81	4.21	4.61	5.03	5.51	6.11	7.01	7.81
August	4.39	4.82	0.91	1.69	2.10	2.68	3.17	3.62	4.09	4.59	5.18	5.92	7.05	8.08
September	3.64	2.43	1.50	0.81	1.14	1.68	2.16	2.64	3.15	3.73	4.41	5.32	6.76	8.12
October	2.58	1.22	2.11	0.21	0.38	0.72	1.07	1.47	1.92	2.45	3.13	4.07	5.65	7.20
November	2.53	1.81	1.40	0.39	0.61	0.97	1.32	1.68	2.08	2.53	3.08	3.83	5.02	6.16
December	3.86	3.35	1.15	1.15	1.52	2.07	2.54	3.00	3.48	4.01	4.63	5.43	6.69	7.85

South Carolina Southern Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.75	3.47	0.79	0.85	1.11	1.50	1.83	2.16	2.49	2.86	3.30	3.86	4.73	5.54
February	3.57	2.61	1.37	0.85	1.19	1.71	2.18	2.64	3.13	3.67	4.33	5.18	6.53	7.80
March	4.02	2.57	1.57	0.95	1.32	1.91	2.44	2.96	3.51	4.13	4.87	5.84	7.38	8.82
April	3.12	4.04	0.77	1.07	1.37	1.80	2.16	2.51	2.87	3.26	3.71	4.29	5.20	6.03
May	3.54	3.95	0.90	1.20	1.53	2.02	2.43	2.83	3.24	3.68	4.20	4.87	5.89	6.82
June	5.09	4.69	1.08	1.93	2.40	3.08	3.65	4.18	4.73	5.32	6.01	6.88	8.22	9.44
July	6.73	7.21	0.93	3.20	3.78	4.58	5.23	5.82	6.42	7.06	7.79	8.70	10.08	11.31
August	6.16	6.39	0.96	2.77	3.31	4.07	4.69	5.26	5.84	6.46	7.16	8.06	9.41	10.63
September	5.04	3.58	1.41	1.59	2.07	2.78	3.38	3.97	4.58	5.25	6.03	7.04	8.61	10.07
October	2.81	1.58	1.78	0.36	0.58	0.98	1.37	1.78	2.24	2.77	3.43	4.32	5.78	7.18
November	2.15	2.55	0.84	0.50	0.70	1.02	1.30	1.58	1.88	2.21	2.60	3.12	3.95	4.72
December	2.75	2.69	1.02	0.68	0.94	1.34	1.69	2.05	2.42	2.83	3.33	3.97	5.00	5.95



TENNESSEE

ALBERS EQUAL AREA PROJECTION 1:1
STANDARD PARALLELS AT 29°2' AND 45°2'

90°TH MERIDIAN TIME ZONE | 75°TH MERIDIAN TIME ZONE

STATUTE MILES
0 10 20 30 40 50

TABLE 96 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Nashville, Tennessee

Probabilities (Based on 37 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.07	2.34	2.17	1.08	1.55	2.29	2.97	3.64	4.37	5.18	6.16	7.45	9.51	11.45
February	4.48	3.10	1.45	1.26	1.68	2.33	2.89	3.44	4.01	4.65	5.40	6.37	7.90	9.33
March	5.30	4.76	1.11	2.03	2.52	3.22	3.81	4.36	4.93	5.54	6.25	7.15	8.53	9.78
April	3.95	6.61	0.60	1.80	2.15	2.63	3.02	3.39	3.75	4.14	4.59	5.15	6.00	6.76
May	3.81	3.42	1.11	1.16	1.52	2.06	2.52	2.97	3.44	3.96	4.56	5.34	6.56	7.69
June	3.27	2.46	1.33	0.74	1.04	1.52	1.95	2.38	2.84	3.36	3.97	4.78	6.07	7.28
July	3.81	3.21	1.18	1.10	1.46	2.01	2.48	2.94	3.42	3.95	4.58	5.39	6.65	7.83
August	3.03	3.26	0.93	0.89	1.18	1.61	1.98	2.35	2.73	3.15	3.64	4.28	5.28	6.21
September	2.99	2.21	1.35	0.60	0.87	1.31	1.71	2.11	2.55	3.04	3.63	4.42	5.67	6.86
October	2.11	1.53	1.38	0.25	0.42	0.72	1.01	1.32	1.67	2.08	2.58	3.26	4.37	5.46
November	3.23	3.22	1.00	0.94	1.24	1.71	2.11	2.50	2.90	3.35	3.88	4.57	5.65	6.65
December	4.16	3.57	1.17	1.31	1.70	2.29	2.79	3.27	3.78	4.33	4.98	5.81	7.11	8.31

Division--Tennessee Middle Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.71	2.73	2.09	1.43	1.97	2.80	3.54	4.26	5.03	5.89	6.90	8.23	10.33	12.28
February	4.63	1.97	2.35	0.81	1.21	1.89	2.52	3.17	3.87	4.66	5.63	6.91	8.97	10.90
March	5.73	7.88	0.73	2.83	3.32	3.98	4.51	5.00	5.49	6.00	6.59	7.33	8.43	9.40
April	4.42	8.82	0.50	2.29	2.65	3.14	3.54	3.90	4.25	4.63	5.06	5.60	6.39	7.10
May	3.92	4.30	0.91	1.40	1.77	2.31	2.75	3.18	3.62	4.10	4.65	5.36	6.45	7.46
June	3.82	5.45	0.70	1.58	1.93	2.42	2.83	3.21	3.59	4.01	4.48	5.09	6.01	6.85
July	4.30	8.36	0.51	2.18	2.54	3.02	3.41	3.77	4.13	4.50	4.93	5.47	6.28	7.00
August	3.44	5.62	0.61	1.45	1.76	2.20	2.56	2.90	3.24	3.61	4.03	4.57	5.38	6.12
September	3.16	3.45	0.91	0.97	1.27	1.71	2.10	2.47	2.86	3.28	3.78	4.43	5.43	6.36
October	2.52	2.08	1.21	0.47	0.69	1.06	1.41	1.76	2.13	2.56	3.07	3.76	4.86	5.91
November	3.96	4.00	0.99	1.35	1.72	2.27	2.73	3.17	3.63	4.12	4.70	5.43	6.57	7.59
December	4.58	3.85	1.19	1.52	1.96	2.59	3.13	3.65	4.19	4.77	5.45	6.33	7.68	8.92

**TABLE 97 - Precipitation Probabilities for
Climatic Divisions**

Tennessee Eastern Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	4.73	4.35	1.09	1.71	2.15	2.79	3.33	3.85	4.37	4.94	5.61	6.46	7.77	8.97
February	4.81	5.22	0.92	1.94	2.39	3.01	3.53	4.01	4.51	5.04	5.66	6.44	7.63	8.72
March	5.32	8.27	0.64	2.68	3.13	3.73	4.22	4.66	5.11	5.58	6.11	6.78	7.79	8.68
April	4.00	8.34	0.48	2.03	2.36	2.81	3.18	3.51	3.84	4.20	4.60	5.10	5.85	6.52
May	3.64	7.53	0.48	1.76	2.08	2.50	2.84	3.16	3.48	3.81	4.20	4.68	5.40	6.05
June	3.83	8.15	0.47	1.92	2.24	2.68	3.03	3.35	3.67	4.01	4.40	4.88	5.61	6.26
July	5.30	10.22	0.52	2.90	3.32	3.88	4.32	4.73	5.13	5.55	6.03	6.62	7.51	8.29
August	4.02	8.50	0.47	2.05	2.39	2.84	3.20	3.53	3.86	4.22	4.61	5.11	5.86	6.52
September	2.91	4.61	0.63	1.09	1.37	1.76	2.08	2.39	2.70	3.05	3.44	3.95	4.73	5.43
October	2.63	2.07	1.27	0.49	0.72	1.11	1.47	1.83	2.22	2.67	3.21	3.93	5.08	6.18
November	3.38	3.80	0.89	1.11	1.43	1.90	2.30	2.69	3.09	3.52	4.03	4.68	5.69	6.61
December	4.28	4.03	1.06	1.47	1.87	2.46	2.96	3.44	3.93	4.47	5.09	5.90	7.14	8.28

Tennessee Cumberland Plateau Division

Tennessee Cumberland Plateau Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.70	3.31	1.72	1.69	2.23	3.04	3.74	4.42	5.13	5.92	6.84	8.03	9.90	11.63
February	4.54	2.96	1.53	1.22	1.65	2.30	2.88	3.44	4.03	4.68	5.46	6.46	8.03	9.46
March	6.01	9.15	0.66	3.15	3.65	4.31	4.83	5.31	5.79	6.30	6.87	7.59	8.66	9.61
April	4.52	7.62	0.59	2.20	2.59	3.12	3.54	3.93	4.32	4.74	5.22	5.81	6.70	7.50
May	3.92	5.71	0.69	1.66	2.02	2.52	2.93	3.31	3.69	4.11	4.59	5.19	6.11	6.94
June	4.34	5.18	0.84	1.75	2.15	2.71	3.18	3.62	4.06	4.55	5.10	5.81	6.89	7.87
July	5.09	7.62	0.67	2.48	2.92	3.51	3.99	4.43	4.87	5.34	5.87	6.54	7.54	8.44
August	3.96	7.55	0.52	1.92	2.26	2.72	3.09	3.44	3.78	4.15	4.57	5.09	5.88	6.58
September	3.42	3.65	0.94	1.09	1.42	1.90	2.31	2.71	3.12	3.57	4.09	4.77	5.82	6.79
October	2.69	1.82	1.48	0.42	0.65	1.04	1.41	1.79	2.21	2.69	3.28	4.06	5.33	6.54
November	4.07	4.13	0.99	1.42	1.80	2.36	2.83	3.28	3.75	4.25	4.84	5.59	6.75	7.82
December	5.16	4.13	1.25	1.80	2.29	3.00	3.59	4.16	4.75	5.39	6.14	7.09	8.57	9.92

TABLE 98 - Precipitation Probabilities for
Climatic Divisions

Tennessee Western Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	5.57	2.10	2.65	1.05	1.55	2.36	3.12	3.88	4.71	5.65	6.78	8.28	10.70	13.00
February	4.16	1.89	2.21	0.68	1.04	1.65	2.22	2.81	3.45	4.18	5.07	6.26	8.17	9.98
March	5.54	6.59	0.84	2.52	3.01	3.69	4.24	4.74	5.26	5.80	6.43	7.22	8.41	9.49
April	4.51	7.48	0.60	2.18	2.57	3.09	3.52	3.91	4.31	4.73	5.20	5.80	6.70	7.51
May	4.11	4.25	0.97	1.46	1.85	2.41	2.88	3.33	3.79	4.30	4.88	5.63	6.78	7.84
June	3.90	3.20	1.22	1.12	1.49	2.05	2.53	3.01	3.50	4.04	4.69	5.52	6.82	8.03
July	4.06	6.02	0.68	1.77	2.14	2.65	3.06	3.45	3.84	4.26	4.75	5.35	6.28	7.12
August	3.06	3.93	0.78	1.03	1.32	1.75	2.10	2.45	2.80	3.19	3.64	4.22	5.11	5.91
September	3.40	2.28	1.49	0.71	1.02	1.52	1.97	2.43	2.92	3.48	4.14	5.02	6.42	7.75
October	2.61	1.48	1.76	0.30	0.50	0.87	1.23	1.62	2.05	2.56	3.19	4.04	5.46	6.83
November	4.21	3.30	1.28	1.24	1.64	2.25	2.76	3.27	3.80	4.38	5.06	5.94	7.33	8.61
December	4.43	3.89	1.14	1.48	1.90	2.52	3.04	3.54	4.05	4.61	5.27	6.11	7.41	8.59

TABLE 99 - Comparison of Station Data with Corresponding
Climatic Division Data

Station--Richmond, Virginia														
Month	Mean	Gamma	Beta	Probabilities (Based on 30 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.03	5.40	0.56	1.25	1.52	1.91	2.24	2.54	2.84	3.17	3.55	4.04	4.77	5.44
February	3.06	5.79	0.53	1.31	1.58	1.97	2.28	2.58	2.88	3.20	3.57	4.04	4.75	5.38
March	3.37	6.24	0.54	1.50	1.80	2.21	2.55	2.87	3.19	3.53	3.93	4.42	5.17	5.85
April	2.84	4.74	0.60	1.08	1.35	1.73	2.04	2.34	2.64	2.97	3.36	3.84	4.58	5.26
May	3.50	3.66	0.96	1.12	1.45	1.94	2.36	2.77	3.19	3.64	4.18	4.87	5.95	6.93
June	3.87	3.51	1.10	1.20	1.57	2.11	2.58	3.04	3.51	4.02	4.63	5.41	6.63	7.76
July	5.62	2.37	2.37	1.22	1.74	2.56	3.31	4.05	4.85	5.75	6.82	8.24	10.50	12.63
August	5.19	1.97	2.64	0.90	1.36	2.12	2.82	3.55	4.33	5.23	6.31	7.75	10.06	12.22
September	3.62	3.11	1.16	1.02	1.36	1.88	2.33	2.78	3.24	3.75	4.36	5.14	6.37	7.52
October	3.07	2.09	1.46	0.58	0.85	1.30	1.72	2.14	2.59	3.11	3.74	4.57	5.90	7.17
November	3.22	2.09	1.54	0.60	0.89	1.36	1.80	2.24	2.72	3.27	3.93	4.80	6.20	7.54
December	3.07	4.62	0.67	1.15	1.44	1.85	2.20	2.52	2.85	3.22	3.63	4.17	4.99	5.73

Division--Virginia Eastern Piedmont Division														
Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
- Inches -														
January	3.45	4.64	0.74	1.30	1.62	2.08	2.47	2.83	3.21	3.61	4.08	4.68	5.59	6.43
February	3.09	7.37	0.42	1.48	1.75	2.11	2.41	2.68	2.95	3.24	3.57	3.98	4.61	5.17
March	3.77	8.54	0.44	1.93	2.24	2.67	3.00	3.32	3.63	3.95	4.33	4.79	5.49	6.11
April	3.41	5.48	0.62	1.42	1.73	2.17	2.53	2.87	3.21	3.58	4.00	4.54	5.36	6.11
May	3.54	4.12	0.86	1.23	1.57	2.06	2.47	2.86	3.26	3.70	4.21	4.87	5.89	6.82
June	3.79	6.71	0.57	1.75	2.08	2.54	2.91	3.26	3.60	3.98	4.40	4.94	5.74	6.46
July	4.89	5.89	0.83	2.11	2.55	3.16	3.66	4.13	4.61	5.12	5.70	6.44	7.55	8.55
August	4.62	3.43	1.35	1.41	1.85	2.50	3.06	3.61	4.18	4.80	5.53	6.48	7.96	9.33
September	3.54	3.39	1.04	1.07	1.41	1.91	2.34	2.76	3.20	3.68	4.25	4.98	6.12	7.18
October	2.86	2.51	1.14	0.66	0.93	1.34	1.72	2.10	2.49	2.94	3.47	4.17	5.28	6.32
November	3.04	2.42	1.26	0.67	0.96	1.40	1.80	2.21	2.64	3.12	3.70	4.45	5.66	6.81
December	3.04	3.96	0.77	1.03	1.32	1.74	2.09	2.43	2.78	3.17	3.61	4.18	5.06	5.85

TABLE 100-- Precipitation Probabilities for Climatic Divisions

Virginia Tidewater Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.40	5.86	0.58	1.46	1.77	2.20	2.55	2.87	3.21	3.56	3.97	4.48	5.26	5.96
February	3.12	7.20	0.43	1.48	1.75	2.12	2.42	2.70	2.98	3.27	3.61	4.03	4.67	5.25
March	3.58	9.81	0.36	1.93	2.21	2.60	2.90	3.18	3.45	3.74	4.07	4.48	5.09	5.62
April	3.15	6.80	0.46	1.46	1.74	2.12	2.43	2.71	3.00	3.31	3.66	4.10	4.76	5.36
May	3.51	3.86	0.91	1.17	1.50	1.99	2.40	2.80	3.20	3.65	4.17	4.84	5.88	6.82
June	3.81	7.10	0.54	1.80	2.13	2.58	2.95	3.29	3.63	3.99	4.41	4.93	5.71	6.42
July	5.23	6.31	0.83	2.34	2.80	3.45	3.97	4.46	4.96	5.49	6.09	6.86	8.01	9.06
August	5.11	4.18	1.22	1.80	2.28	2.98	3.57	4.13	4.71	5.34	6.07	7.01	8.46	9.79
September	3.89	3.38	1.15	1.17	1.54	2.09	2.57	3.03	3.51	4.04	4.66	5.46	6.72	7.88
October	3.03	2.85	1.06	0.79	1.07	1.51	1.90	2.28	2.68	3.13	3.65	4.34	5.42	6.42
November	2.98	2.81	1.06	0.76	1.05	1.48	1.86	2.24	2.63	3.07	3.60	4.28	5.35	6.35
December	2.85	5.30	0.54	1.16	1.42	1.79	2.10	2.38	2.68	2.99	3.35	3.81	4.51	5.15

Virginia Western Piedmont Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.37	4.52	0.75	1.25	1.57	2.02	2.40	2.76	3.13	3.53	3.99	4.59	5.50	6.33
February	3.17	5.78	0.55	1.35	1.64	2.04	2.37	2.68	2.99	3.32	3.71	4.19	4.93	5.59
March	3.98	7.42	0.54	1.92	2.26	2.73	3.10	3.45	3.80	4.17	4.60	5.13	5.93	6.64
April	3.58	7.25	0.49	1.71	2.02	2.44	2.78	3.10	3.42	3.75	4.14	4.62	5.35	6.01
May	3.79	5.50	0.69	1.58	1.92	2.41	2.81	3.18	3.56	3.97	4.44	5.04	5.95	6.77
June	4.03	6.30	0.64	1.80	2.16	2.66	3.06	3.44	3.82	4.23	4.70	5.29	6.18	6.99
July	4.76	10.43	0.46	2.62	3.00	3.50	3.89	4.25	4.61	4.99	5.41	5.94	6.72	7.41
August	4.49	3.69	1.22	1.45	1.87	2.50	3.04	3.56	4.09	4.68	5.37	6.25	7.62	8.88
September	3.95	2.23	1.77	0.80	1.16	1.74	2.26	2.80	3.37	4.02	4.80	5.83	7.48	9.05
October	3.03	2.32	1.31	0.64	0.92	1.36	1.77	2.17	2.61	3.10	3.68	4.46	5.69	6.86
November	3.03	2.59	1.17	0.72	1.00	1.45	1.84	2.23	2.65	3.11	3.67	4.40	5.55	6.63
December	3.24	3.84	0.84	1.07	1.38	1.83	2.21	2.58	2.96	3.37	3.86	4.48	5.44	6.31

TABLE 101 - Precipitation Probabilities for Climatic Divisions

Virginia Northern Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.79	4.82	0.58	1.08	1.33	1.70	2.01	2.30	2.60	2.92	3.29	3.76	4.48	5.13
February	2.50	5.84	0.43	1.07	1.30	1.62	1.87	2.11	2.36	2.62	2.92	3.30	3.88	4.39
March	3.45	6.44	0.54	1.56	1.86	2.29	2.63	2.95	3.27	3.62	4.01	4.51	5.26	5.94
April	3.30	5.20	0.63	1.33	1.64	2.06	2.42	2.75	3.09	3.46	3.88	4.42	5.24	5.99
May	3.89	4.62	0.84	1.46	1.83	2.35	2.78	3.19	3.62	4.07	4.60	5.28	6.31	7.26
June	3.66	9.07	0.40	1.91	2.21	2.62	2.94	3.23	3.53	3.84	4.19	4.62	5.28	5.86
July	4.11	5.67	0.72	1.74	2.11	2.63	3.06	3.46	3.87	4.31	4.81	5.44	6.41	7.28
August	4.37	4.20	1.04	1.55	1.96	2.56	3.06	3.54	4.03	4.57	5.20	6.00	7.23	8.37
September	3.36	4.07	0.83	1.16	1.48	1.94	2.33	2.70	3.09	3.50	3.99	4.62	5.59	6.48
October	3.23	1.75	1.85	0.48	0.75	1.21	1.66	2.13	2.64	3.22	3.94	4.90	6.47	7.97
November	2.94	2.62	1.12	0.71	0.98	1.41	1.79	2.17	2.58	3.02	3.56	4.26	5.37	6.41
December	2.74	3.41	0.80	0.83	1.09	1.48	1.82	2.14	2.48	2.85	3.28	3.85	4.73	5.54

Virginia Central Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	2.85	4.26	0.67	1.02	1.28	1.67	2.00	2.31	2.63	2.98	3.38	3.90	4.70	5.43
February	2.71	4.75	0.57	1.04	1.29	1.65	1.95	2.23	2.52	2.84	3.20	3.66	4.37	5.01
March	3.54	6.85	0.52	1.64	1.95	2.38	2.72	3.04	3.36	3.71	4.10	4.59	5.33	5.99
April	3.04	6.15	0.49	1.34	1.61	1.99	2.30	2.58	2.87	3.18	3.54	3.99	4.67	5.29
May	3.68	5.45	0.67	1.52	1.86	2.33	2.72	3.09	3.46	3.86	4.32	4.90	5.79	6.59
June	3.74	9.56	0.39	2.00	2.30	2.70	3.03	3.32	3.61	3.92	4.27	4.70	5.35	5.92
July	4.18	9.21	0.45	2.20	2.54	3.00	3.37	3.70	4.03	4.39	4.78	5.28	6.02	6.68
August	4.22	3.58	1.18	1.33	1.73	2.33	2.83	3.33	3.83	4.39	5.05	5.89	7.21	8.42
September	3.29	3.17	1.04	0.94	1.25	1.73	2.14	2.54	2.95	3.42	3.96	4.67	5.77	6.80
October	2.96	1.95	1.52	0.51	0.77	1.20	1.60	2.01	2.46	2.97	3.60	4.42	5.75	6.99
November	2.69	3.12	0.86	0.76	1.02	1.40	1.74	2.07	2.41	2.79	3.24	3.82	4.74	5.59
December	2.78	4.07	0.68	0.96	1.22	1.61	1.93	2.24	2.55	2.90	3.31	3.82	4.62	5.36

TABLE 102 - Precipitation Probabilities for
Climatic Divisions

Virginia Southwestern Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.57	5.24	0.68	1.45	1.77	2.24	2.62	2.98	3.35	3.74	4.20	4.77	5.66	6.46
February	3.54	6.30	0.56	1.58	1.89	2.33	2.69	3.02	3.35	3.71	4.12	4.64	5.42	6.13
March	4.25	9.22	0.46	2.24	2.58	3.05	3.42	3.76	4.09	4.45	4.85	5.36	6.11	6.78
April	3.38	7.10	0.48	1.60	1.89	2.30	2.62	2.92	3.23	3.55	3.92	4.38	5.08	5.71
May	3.81	5.74	0.66	1.62	1.96	2.45	2.84	3.21	3.59	3.99	4.45	5.04	5.93	6.73
June	3.92	10.31	0.38	2.15	2.46	2.87	3.20	3.50	3.80	4.11	4.46	4.90	5.55	6.12
July	4.87	13.51	0.36	2.91	3.27	3.73	4.10	4.43	4.75	5.09	5.47	5.93	6.62	7.23
August	4.18	6.53	0.64	1.90	2.27	2.78	3.19	3.58	3.97	4.38	4.86	5.46	6.36	7.18
September	3.06	4.03	0.76	1.05	1.34	1.76	2.12	2.46	2.82	3.20	3.65	4.22	5.11	5.93
October	2.54	2.28	1.12	0.53	0.76	1.13	1.47	1.82	2.18	2.60	3.09	3.75	4.80	5.79
November	2.76	5.30	0.52	1.12	1.38	1.73	2.03	2.31	2.59	2.89	3.24	3.68	4.36	4.98
December	3.23	4.67	0.69	1.22	1.52	1.95	2.31	2.65	3.00	3.37	3.81	4.37	5.22	5.99

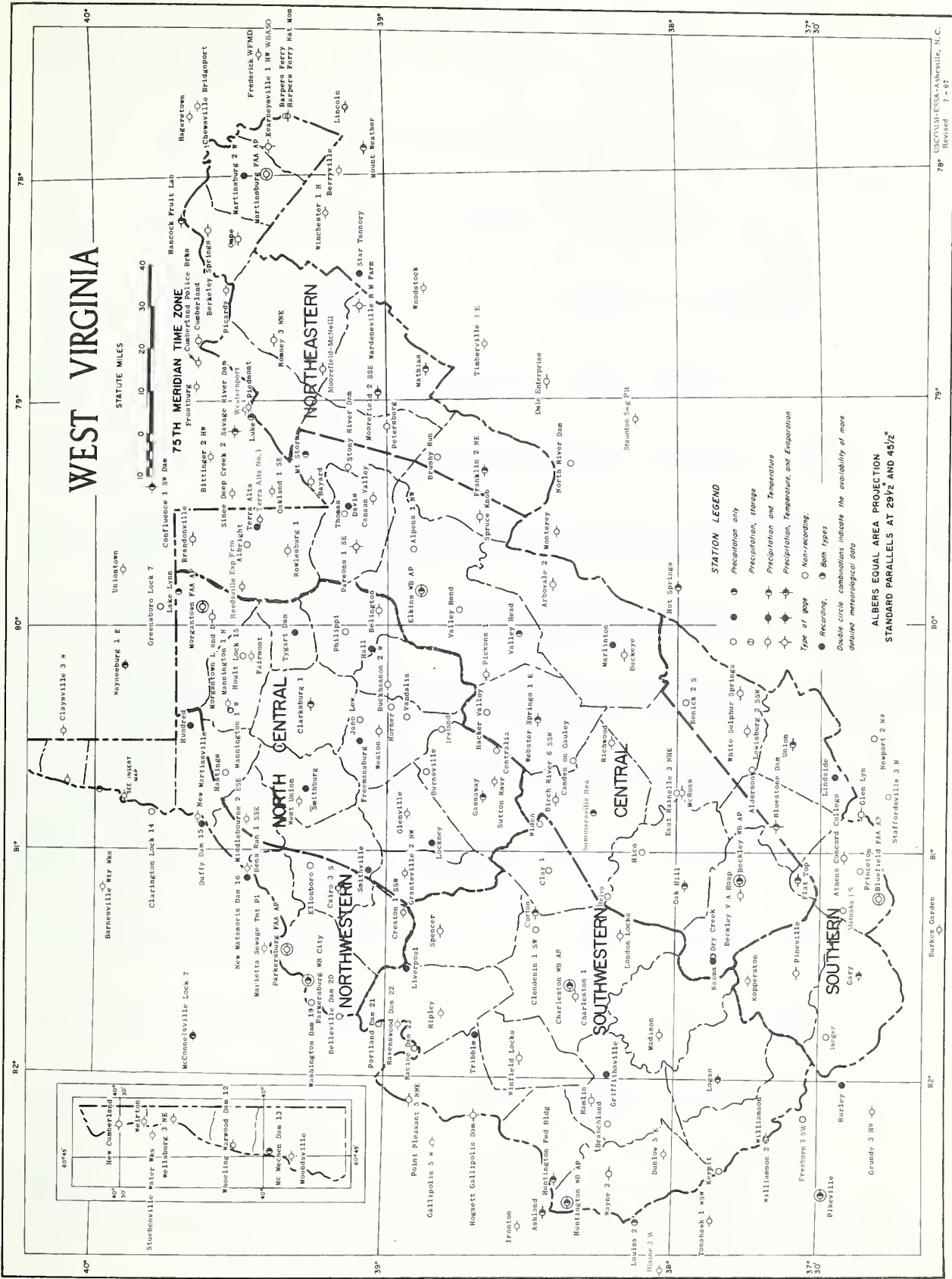


TABLE 103 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Charleston, West Virginia

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	- Inches -										
	Inches			0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.64	1.15	3.16	0.26	0.49	0.95	1.45	2.01	2.65	3.43	4.41	5.78	8.09	10.37
February	3.25	1.21	2.68	0.26	0.47	0.90	1.35	1.84	2.41	3.09	3.95	5.14	7.14	9.11
March	3.92	1.22	3.20	0.32	0.58	1.09	1.63	2.23	2.92	3.73	4.77	6.19	8.58	10.94
April	3.44	1.97	1.75	0.60	0.90	1.40	1.87	2.35	2.88	3.47	4.19	5.14	6.67	8.11
May	3.48	1.79	1.94	0.53	0.83	1.33	1.81	2.31	2.85	3.48	4.24	5.26	6.92	8.49
June	3.32	1.19	2.79	0.25	0.47	0.90	1.36	1.86	2.45	3.15	4.03	5.26	7.32	9.36
July	5.30	1.13	4.67	0.37	0.69	1.37	2.09	2.91	3.85	4.98	6.43	8.44	11.83	15.19
August	3.54	1.11	3.20	0.23	0.45	0.89	1.37	1.91	2.55	3.31	4.29	5.64	7.95	10.23
September	2.64	1.08	2.45	0.16	0.32	0.65	1.01	1.41	1.89	2.46	3.20	4.23	5.97	7.71
October	2.24	0.98	2.28	0.11	0.23	0.49	0.78	1.13	1.54	2.04	2.69	3.61	5.18	6.75
November	2.73	1.12	2.45	0.18	0.35	0.69	1.06	1.48	1.97	2.56	3.31	4.35	6.12	7.87
December	2.82	1.79	1.57	0.43	0.67	1.08	1.47	1.87	2.31	2.82	3.44	4.27	5.61	6.89

Division--West Virginia Southwestern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	- Inches -										
	Inches			0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.65	4.97	0.73	1.43	1.77	2.25	2.65	3.02	3.41	3.82	4.29	4.90	5.82	6.64
February	3.29	4.72	0.70	1.25	1.56	1.99	2.36	2.70	3.06	3.44	3.88	4.44	5.31	6.09
March	4.29	7.72	0.56	2.10	2.47	2.97	3.37	3.74	4.11	4.50	4.95	5.50	6.34	7.09
April	3.54	7.07	0.50	1.67	1.98	2.40	2.74	3.06	3.37	3.71	4.10	4.58	5.31	5.97
May	3.70	4.91	0.75	1.44	1.78	2.27	2.67	3.06	3.45	3.87	4.35	4.97	5.91	6.75
June	4.08	9.91	0.41	2.21	2.53	2.97	3.32	3.63	3.94	4.27	4.65	5.11	5.79	6.39
July	5.02	9.41	0.53	2.66	3.07	3.61	4.05	4.45	4.84	5.26	5.73	6.32	7.19	7.97
August	3.68	7.25	0.51	1.75	2.07	2.51	2.86	3.18	3.51	3.86	4.25	4.75	5.50	6.17
September	2.89	5.15	0.56	1.16	1.43	1.80	2.12	2.41	2.71	3.03	3.40	3.88	4.60	5.26
October	2.27	2.45	0.93	0.51	0.72	1.05	1.35	1.65	1.97	2.33	2.75	3.32	4.21	5.06
November	2.81	4.48	0.63	1.04	1.30	1.68	1.99	2.30	2.60	2.94	3.33	3.82	4.59	5.29
December	2.98	4.03	0.74	1.02	1.31	1.72	2.06	2.40	2.74	3.11	3.55	4.11	4.97	5.77

TABLE 104 - Precipitation Probabilities for Climatic Divisions

West Virginia Northwestern Division

Probabilities (Based on 35 years of data)

Month	- Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.28	4.09	0.80	1.14	1.45	1.90	2.28	2.64	3.02	3.43	3.90	4.51	5.46	6.32
February	2.82	4.94	0.57	1.10	1.36	1.73	2.04	2.33	2.63	2.95	3.32	3.79	4.50	5.14
March	3.90	5.91	0.66	1.68	2.04	2.53	2.93	3.30	3.68	4.08	4.55	5.14	6.02	6.81
April	3.61	7.21	0.50	1.72	2.03	2.46	2.81	3.13	3.45	3.79	4.18	4.67	5.41	6.07
May	3.80	5.69	0.67	1.61	1.95	2.43	2.83	3.20	3.58	3.98	4.44	5.03	5.92	6.73
June	4.34	7.62	0.57	2.11	2.48	2.99	3.40	3.77	4.15	4.55	5.00	5.57	6.43	7.20
July	4.30	9.48	0.45	2.29	2.63	3.10	3.47	3.81	4.15	4.50	4.90	5.40	6.15	6.82
August	3.88	5.22	0.74	1.57	1.93	2.43	2.85	3.24	3.64	4.07	4.56	5.19	6.15	7.03
September	3.00	4.56	0.66	1.12	1.40	1.80	2.14	2.46	2.79	3.14	3.55	4.08	4.89	5.62
October	2.40	3.00	0.80	0.66	0.88	1.23	1.53	1.83	2.14	2.49	2.90	3.43	4.26	5.04
November	2.70	5.34	0.51	1.11	1.35	1.70	1.99	2.26	2.53	2.83	3.17	3.60	4.26	4.86
December	2.82	4.39	0.64	1.02	1.29	1.67	1.99	2.30	2.61	2.95	3.34	3.85	4.62	5.33

West Virginia North Central Division

Probabilities (Based on 35 years of data)

Month	- Inches -													
	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	3.74	5.42	0.69	1.54	1.88	2.37	2.76	3.13	3.51	3.92	4.39	4.98	5.89	6.71
February	3.23	7.34	0.44	1.55	1.83	2.21	2.52	2.80	3.09	3.39	3.74	4.17	4.82	5.41
March	4.21	8.10	0.52	2.11	2.46	2.94	3.33	3.68	4.04	4.42	4.84	5.38	6.18	6.90
April	3.75	8.98	0.42	1.95	2.26	2.67	3.00	3.30	3.60	3.92	4.28	4.73	5.39	5.97
May	4.06	5.56	0.73	1.70	2.07	2.59	3.02	3.42	3.82	4.26	4.76	5.40	6.37	7.25
June	4.73	8.72	0.54	2.43	2.83	3.35	3.77	4.16	4.54	4.95	5.41	5.99	6.85	7.61
July	4.81	11.14	0.43	2.71	3.08	3.58	3.96	4.32	4.67	5.04	5.45	5.96	6.73	7.40
August	4.41	5.72	0.77	1.87	2.27	2.83	3.29	3.72	4.15	4.62	5.15	5.83	6.86	7.79
September	3.33	5.46	0.61	1.38	1.68	2.11	2.46	2.79	3.13	3.49	3.91	4.43	5.24	5.96
October	2.74	2.78	0.98	0.70	0.95	1.35	1.70	2.05	2.42	2.82	3.30	3.93	4.93	5.85
November	2.98	5.05	0.59	1.18	1.46	1.85	2.17	2.47	2.78	3.12	3.51	4.00	4.75	5.44
December	3.30	4.80	0.69	1.27	1.58	2.02	2.38	2.72	3.07	3.46	3.90	4.45	5.31	6.08

TABLE 105 - Precipitation Probabilities for Climatic Divisions

West Virginia Central Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	- Inches -													
January	4.11	8.62	0.48	2.11	2.45	2.91	3.27	3.61	3.95	4.30	4.71	5.21	5.97	6.64
February	3.83	10.71	0.36	2.13	2.43	2.83	3.14	3.43	3.71	4.01	4.35	4.76	5.38	5.93
March	4.85	11.89	0.41	2.79	3.16	3.65	4.03	4.37	4.72	5.07	5.48	5.97	6.71	7.35
April	4.07	13.20	0.31	2.42	2.71	3.11	3.41	3.69	3.96	4.25	4.57	4.97	5.55	6.07
May	4.56	7.39	0.62	2.19	2.59	3.12	3.56	3.96	4.36	4.78	5.27	5.88	6.80	7.62
June	4.88	14.21	0.34	2.97	3.31	3.77	4.13	4.45	4.77	5.10	5.47	5.93	6.60	7.19
July	5.40	12.20	0.44	3.13	3.54	4.07	4.49	4.88	5.25	5.65	6.09	6.64	7.45	8.17
August	4.75	7.44	0.64	2.29	2.70	3.26	3.71	4.12	4.54	4.98	5.49	6.12	7.07	7.93
September	3.42	6.90	0.50	1.59	1.89	2.30	2.63	2.94	3.25	3.58	3.96	4.43	5.14	5.77
October	3.13	3.23	0.97	0.91	1.21	1.65	2.04	2.42	2.81	3.25	3.76	4.42	5.46	6.42
November	3.19	7.30	0.44	1.52	1.80	2.18	2.48	2.76	3.04	3.34	3.68	4.11	4.76	5.34
December	3.62	6.84	0.53	1.68	2.00	2.43	2.79	3.11	3.44	3.79	4.19	4.70	5.45	6.13

West Virginia Southern Division														
Probabilities (Based on 35 years of data)														
Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	- Inches -													
January	3.13	4.58	0.68	1.17	1.46	1.88	2.23	2.57	2.91	3.27	3.70	4.25	5.09	5.85
February	3.09	6.62	0.47	1.41	1.68	2.06	2.37	2.65	2.93	3.24	3.59	4.03	4.69	5.29
March	3.99	7.70	0.52	1.96	2.30	2.76	3.13	3.48	3.82	4.19	4.60	5.12	5.91	6.61
April	3.07	6.35	0.48	1.37	1.65	2.03	2.33	2.62	2.91	3.22	3.57	4.02	4.70	5.31
May	3.59	6.89	0.52	1.67	1.98	2.41	2.76	3.09	3.41	3.76	4.15	4.65	5.39	6.06
June	3.70	8.52	0.43	1.89	2.20	2.61	2.95	3.25	3.56	3.88	4.24	4.70	5.39	6.00
July	4.38	8.48	0.52	2.23	2.60	3.09	3.49	3.85	4.21	4.59	5.03	5.57	6.39	7.11
August	3.72	6.60	0.56	1.70	2.03	2.48	2.85	3.19	3.54	3.90	4.32	4.85	5.65	6.37
September	2.74	4.49	0.61	1.01	1.27	1.64	1.95	2.24	2.54	2.86	3.24	3.73	4.47	5.15
October	2.27	2.35	0.97	0.49	0.70	1.03	1.33	1.64	1.96	2.32	2.76	3.34	4.26	5.12
November	2.46	5.45	0.45	1.02	1.24	1.56	1.82	2.07	2.31	2.58	2.89	3.28	3.87	4.41
December	2.80	5.19	0.54	1.13	1.38	1.75	2.05	2.33	2.62	2.93	3.29	3.75	4.44	5.08

**TABLE 106 - Precipitation Probabilities for
Climatic Divisions**

West Virginia Northeastern Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -											
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95	
January	2.36	4.61	0.51	0.89	1.11	1.42	1.69	1.94	2.20	2.47	2.80	3.21	3.84	4.41	
February	2.14	4.97	0.43	0.84	1.04	1.32	1.55	1.77	1.99	2.24	2.52	2.87	3.41	3.89	
March	3.17	5.78	0.55	1.35	1.64	2.04	2.37	2.68	2.99	3.32	3.70	4.19	4.92	5.59	
April	2.96	5.62	0.53	1.24	1.51	1.89	2.20	2.49	2.78	3.10	3.46	3.92	4.62	5.26	
May	3.45	5.66	0.61	1.46	1.77	2.21	2.57	2.90	3.25	3.61	4.04	4.57	5.38	6.12	
June	3.58	11.16	0.32	2.02	2.29	2.66	2.95	3.22	3.48	3.75	4.06	4.44	5.01	5.51	
July	3.57	8.87	0.40	1.85	2.14	2.54	2.85	3.14	3.43	3.73	4.08	4.51	5.15	5.71	
August	3.80	3.93	0.97	1.28	1.64	2.17	2.61	3.04	3.48	3.96	4.52	5.24	6.35	7.35	
September	2.79	3.99	0.70	0.95	1.22	1.60	1.93	2.24	2.56	2.91	3.32	3.84	4.64	5.36	
October	2.86	1.96	1.46	0.50	0.75	1.16	1.55	1.95	2.39	2.88	3.48	4.27	5.55	6.74	
November	2.32	3.32	0.70	0.69	0.91	1.24	1.53	1.81	2.10	2.41	2.79	3.28	4.04	4.74	
December	2.21	3.79	0.58	0.73	0.94	1.25	1.51	1.76	2.02	2.31	2.64	3.07	3.73	4.33	

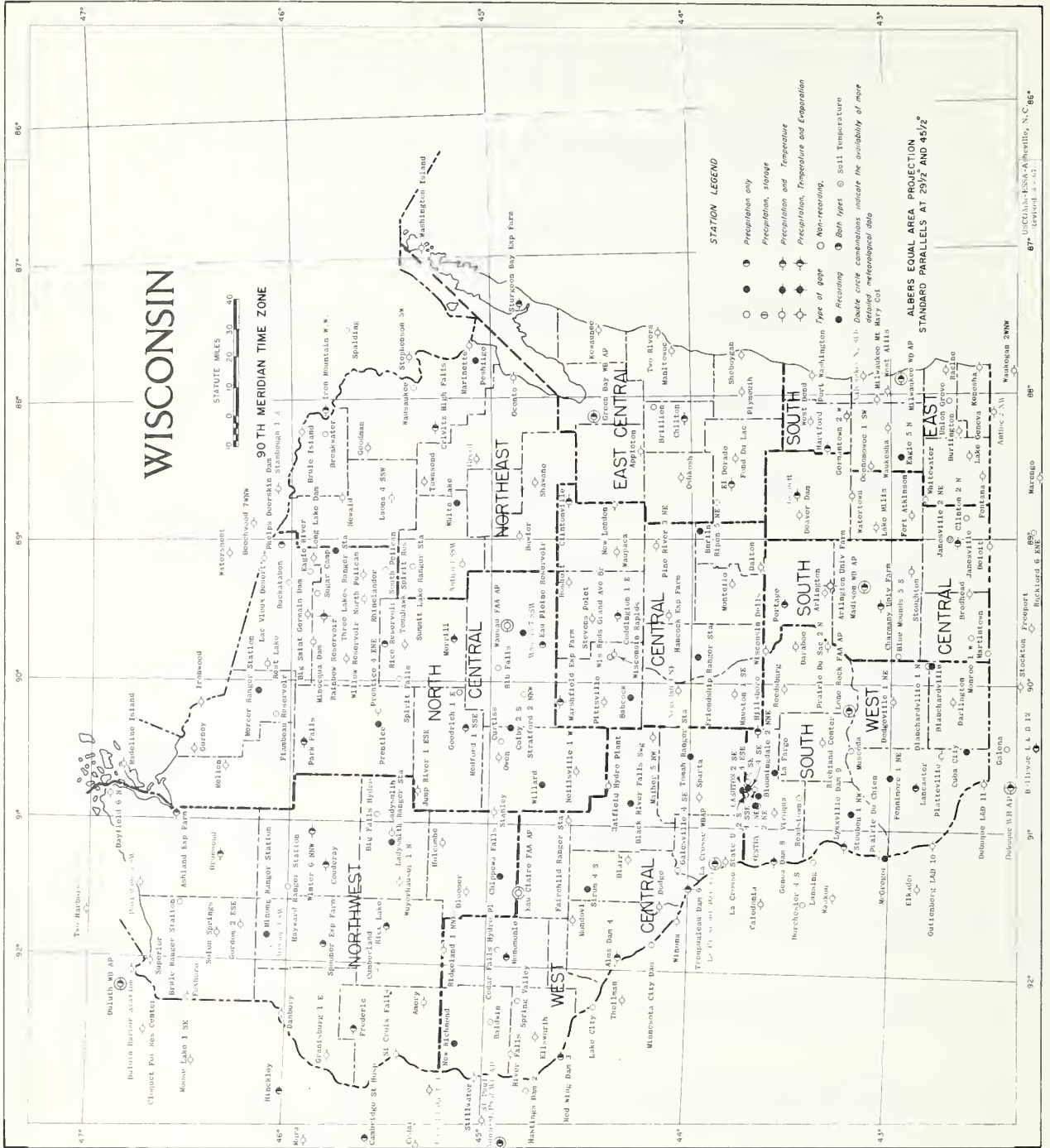


TABLE 107 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Madison, Wisconsin

Probabilities (Based on 28 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.26	2.88	0.44	0.33	0.45	0.63	0.79	0.95	1.12	1.30	1.52	1.80	2.24	2.65
February	1.01	2.02	0.50	0.18	0.27	0.42	0.56	0.70	0.85	1.02	1.23	1.51	1.96	2.39
March	1.99	5.74	0.35	0.84	1.02	1.28	1.48	1.68	1.87	2.08	2.32	2.63	3.09	3.51
April	2.60	4.98	0.52	1.02	1.26	1.60	1.88	2.15	2.42	2.71	3.05	3.48	4.13	4.71
May	3.33	5.65	0.59	1.41	1.71	2.13	2.48	2.81	3.14	3.49	3.90	4.42	5.21	5.92
June	4.18	5.52	0.76	1.74	2.12	2.66	3.10	3.51	3.93	4.38	4.90	5.55	6.56	7.46
July	3.86	4.86	0.79	1.49	1.85	2.36	2.79	3.19	3.59	4.04	4.55	5.19	6.18	7.08
August	3.34	4.12	0.81	1.17	1.48	1.94	2.33	2.70	3.08	3.49	3.98	4.59	5.55	6.43
September	3.11	1.86	1.67	0.50	0.77	1.22	1.65	2.09	2.57	3.12	3.79	4.68	6.12	7.49
October	2.18	1.35	1.62	0.21	0.37	0.67	0.97	1.30	1.67	2.11	2.66	3.42	4.67	5.90
November	1.97	3.06	0.64	0.55	0.73	1.02	1.26	1.51	1.76	2.04	2.37	2.80	3.48	4.11
December	1.38	3.55	0.39	0.43	0.56	0.76	0.92	1.08	1.25	1.43	1.65	1.93	2.36	2.76

Division--Wisconsin South Central Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.38	2.97	0.47	0.37	0.50	0.70	0.88	1.05	1.23	1.43	1.66	1.97	2.44	2.88
February	1.13	2.13	0.53	0.22	0.32	0.48	0.63	0.79	0.96	1.14	1.37	1.67	2.16	2.62
March	1.95	5.43	0.36	0.81	0.98	1.23	1.44	1.64	1.83	2.04	2.29	2.60	3.07	3.50
April	2.72	5.77	0.47	1.16	1.41	1.75	2.03	2.30	2.56	2.85	3.18	3.60	4.23	4.80
May	3.23	6.54	0.49	1.47	1.75	2.15	2.47	2.76	3.06	3.38	3.75	4.21	4.91	5.54
June	3.87	9.02	0.43	2.02	2.34	2.76	3.10	3.41	3.72	4.05	4.42	4.89	5.58	6.20
July	3.69	5.10	0.72	1.47	1.81	2.29	2.69	3.07	3.45	3.87	4.34	4.95	5.88	6.73
August	3.52	5.13	0.69	1.41	1.73	2.19	2.57	2.93	3.29	3.68	4.14	4.71	5.59	6.39
September	3.79	2.18	1.74	0.75	1.09	1.65	2.16	2.67	3.23	3.86	4.62	5.62	7.23	8.76
October	2.20	1.71	1.28	0.32	0.50	0.82	1.12	1.44	1.79	2.19	2.69	3.35	4.43	5.47
November	2.19	2.53	0.86	0.51	0.71	1.03	1.32	1.60	1.91	2.25	2.65	3.18	4.02	4.82
December	1.37	3.54	0.39	0.43	0.56	0.75	0.92	1.07	1.24	1.42	1.64	1.91	2.34	2.74

TABLE 108 - Precipitation Probabilities for Climatic Divisions

Wisconsin Northwest Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.88	2.70	0.33	0.22	0.30	0.43	0.54	0.66	0.78	0.91	1.07	1.27	1.60	1.91
February	0.84	2.61	0.32	0.20	0.28	0.40	0.51	0.62	0.74	0.87	1.02	1.22	1.54	1.84
March	1.49	3.44	0.43	0.46	0.60	0.81	0.99	1.17	1.35	1.55	1.79	2.09	2.57	3.01
April	2.41	5.27	0.46	0.98	1.20	1.51	1.77	2.01	2.26	2.53	2.83	3.22	3.81	4.35
May	3.83	6.31	0.61	1.71	2.05	2.52	2.91	3.26	3.63	4.01	4.46	5.01	5.86	6.62
June	4.38	6.42	0.68	1.97	2.36	2.90	3.34	3.75	4.16	4.60	5.10	5.73	6.69	7.56
July	3.71	4.74	0.78	1.42	1.76	2.26	2.67	3.06	3.45	3.88	4.38	5.01	5.98	6.87
August	4.20	5.48	0.77	1.74	2.13	2.67	3.11	3.53	3.95	4.40	4.93	5.59	6.60	7.52
September	3.36	3.66	0.92	1.08	1.40	1.87	2.27	2.66	3.06	3.50	4.02	4.68	5.71	6.66
October	1.94	2.73	0.71	0.49	0.67	0.95	1.20	1.45	1.71	2.00	2.35	2.80	3.51	4.17
November	1.79	3.49	0.51	0.55	0.72	0.98	1.19	1.40	1.62	1.86	2.14	2.51	3.07	3.60
December	1.06	2.65	0.40	0.26	0.36	0.51	0.65	0.78	0.93	1.09	1.28	1.53	1.93	2.30

Wisconsin North Central Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.11	3.32	0.33	0.33	0.43	0.59	0.73	0.86	1.00	1.15	1.33	1.56	1.93	2.26
February	1.06	3.18	0.33	0.30	0.40	0.55	0.69	0.81	0.95	1.10	1.27	1.50	1.85	2.18
March	1.53	3.74	0.41	0.50	0.64	0.86	1.04	1.21	1.39	1.59	1.82	2.12	2.58	3.00
April	2.40	6.04	0.40	1.05	1.27	1.57	1.81	2.04	2.27	2.52	2.80	3.16	3.71	4.20
May	3.77	7.56	0.50	1.83	2.16	2.60	2.95	3.28	3.61	3.96	4.36	4.85	5.60	6.27
June	4.53	5.80	0.78	1.94	2.35	2.92	3.39	3.82	4.27	4.74	5.29	5.98	7.03	7.97
July	3.81	6.49	0.59	1.73	2.06	2.53	2.91	3.26	3.62	4.00	4.43	4.98	5.81	6.55
August	4.23	7.04	0.60	1.99	2.36	2.86	3.27	3.65	4.03	4.43	4.90	5.48	6.35	7.14
September	3.83	3.93	0.97	1.29	1.65	2.18	2.63	3.06	3.50	3.99	4.55	5.27	6.39	7.40
October	2.18	2.79	0.78	0.56	0.76	1.08	1.36	1.64	1.93	2.25	2.64	3.14	3.93	4.66
November	2.13	4.07	0.52	0.74	0.94	1.23	1.48	1.71	1.96	2.22	2.53	2.93	3.55	4.11
December	1.21	3.69	0.33	0.39	0.50	0.67	0.82	0.96	1.10	1.26	1.44	1.68	2.05	2.39

TABLE 109 - Precipitation Probabilities for Climatic Divisions

Wisconsin Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.26	2.58	0.49	0.30	0.42	0.60	0.77	0.93	1.10	1.30	1.53	1.83	2.31	2.76
February	1.14	2.43	0.47	0.25	0.36	0.52	0.67	0.82	0.98	1.16	1.38	1.66	2.11	2.54
March	1.59	3.61	0.44	0.50	0.65	0.88	1.07	1.25	1.44	1.65	1.90	2.21	2.70	3.16
April	2.48	5.53	0.45	1.03	1.26	1.58	1.84	2.08	2.33	2.60	2.90	3.29	3.89	4.42
May	3.34	6.67	0.50	1.53	1.82	2.23	2.56	2.86	3.17	3.50	3.87	4.35	5.06	5.70
June	3.76	5.79	0.65	1.61	1.95	2.42	2.81	3.17	3.54	3.94	4.39	4.97	5.84	6.62
July	3.28	6.46	0.51	1.48	1.77	2.17	2.50	2.80	3.11	3.44	3.81	4.28	5.00	5.64
August	3.65	5.01	0.73	1.44	1.78	2.26	2.66	3.03	3.41	3.83	4.30	4.91	5.84	6.68
September	3.54	4.37	0.81	1.28	1.61	2.09	2.50	2.88	3.27	3.70	4.19	4.83	5.81	6.70
October	2.08	2.52	0.83	0.48	0.67	0.98	1.25	1.52	1.81	2.14	2.52	3.03	3.83	4.59
November	2.24	3.29	0.68	0.66	0.87	1.19	1.47	1.74	2.02	2.32	2.69	3.16	3.89	4.57
December	1.29	2.76	0.47	0.33	0.45	0.63	0.80	0.96	1.14	1.33	1.56	1.86	2.33	2.76

Wisconsin West Central Division

Probabilities (Based on 35 years of data)

Month	Mean Inches	Gamma	Beta	- Inches -										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	0.92	2.22	0.41	0.19	0.27	0.40	0.53	0.65	0.79	0.94	1.12	1.36	1.74	2.11
February	0.94	1.63	0.57	0.13	0.20	0.34	0.47	0.60	0.75	0.93	1.14	1.44	1.91	2.37
March	1.79	4.28	0.42	0.64	0.81	1.05	1.26	1.45	1.65	1.87	2.12	2.45	2.95	3.41
April	2.64	7.02	0.38	1.24	1.47	1.79	2.04	2.28	2.52	2.77	3.06	3.42	3.97	4.47
May	3.81	5.13	0.74	1.52	1.87	2.37	2.78	3.17	3.56	3.99	4.48	5.10	6.06	6.93
June	4.37	9.74	0.45	2.35	2.70	3.17	3.54	3.89	4.22	4.58	4.98	5.49	6.23	6.89
July	3.41	5.04	0.68	1.35	1.67	2.11	2.49	2.83	3.19	3.58	4.02	4.58	5.45	6.24
August	3.69	7.57	0.49	1.79	2.11	2.54	2.88	3.20	3.52	3.86	4.25	4.74	5.47	6.13
September	3.60	2.60	1.39	0.86	1.20	1.72	2.19	2.66	3.15	3.70	4.36	5.23	6.59	7.87
October	1.95	2.18	0.89	0.38	0.56	0.84	1.11	1.37	1.66	1.98	2.37	2.89	3.71	4.50
November	1.79	3.23	0.56	0.52	0.69	0.95	1.17	1.38	1.61	1.86	2.15	2.53	3.13	3.68
December	1.04	2.56	0.41	0.25	0.34	0.50	0.63	0.77	0.91	1.07	1.26	1.52	1.92	2.29

TABLE 110-- Precipitation Probabilities for
Climatic Divisions

Wisconsin Central Division

Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.07	2.64	0.40	0.26	0.36	0.51	0.65	0.79	0.93	1.10	1.29	1.54	1.95	2.32.
February	1.05	2.06	0.51	0.19	0.29	0.44	0.59	0.73	0.89	1.07	1.29	1.57	2.04	2.48
March	1.73	3.90	0.44	0.58	0.74	0.98	1.18	1.38	1.58	1.80	2.05	2.38	2.89	3.35
April	2.75	7.00	0.39	1.29	1.53	1.86	2.12	2.37	2.61	2.88	3.18	3.55	4.11	4.61
May	3.62	5.38	0.67	1.49	1.82	2.28	2.67	3.03	3.39	3.79	4.24	4.82	5.70	6.50
June	4.26	7.43	0.57	2.06	2.42	2.92	3.33	3.70	4.07	4.47	4.93	5.49	6.35	7.12
July	3.26	7.43	0.44	1.57	1.85	2.24	2.55	2.83	3.12	3.42	3.77	4.20	4.86	5.45
August	3.55	6.56	0.54	1.62	1.93	2.36	2.71	3.04	3.37	3.72	4.13	4.63	5.40	6.09
September	3.82	2.73	1.40	0.95	1.31	1.87	2.36	2.85	3.36	3.93	4.61	5.50	6.90	8.20
October	2.19	2.00	1.09	0.39	0.58	0.90	1.20	1.51	1.84	2.21	2.67	3.28	4.26	5.19
November	2.14	2.75	0.78	0.54	0.74	1.05	1.33	1.60	1.89	2.21	2.59	3.08	3.86	4.59
December	1.16	2.98	0.39	0.31	0.42	0.59	0.74	0.88	1.03	1.19	1.39	1.64	2.04	2.41

Wisconsin East Central Division

Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.31	3.04	0.43	0.36	0.49	0.67	0.84	1.00	1.17	1.36	1.58	1.87	2.32	2.74
February	1.24	2.53	0.49	0.29	0.40	0.59	0.75	0.91	1.08	1.28	1.51	1.81	2.29	2.74
March	1.78	5.38	0.33	0.73	0.90	1.13	1.32	1.49	1.68	1.87	2.10	2.38	2.81	3.21
April	2.55	5.45	0.47	1.06	1.29	1.62	1.89	2.14	2.40	2.68	3.00	3.40	4.02	4.58
May	2.91	5.38	0.54	1.19	1.46	1.84	2.14	2.43	2.73	3.05	3.41	3.88	4.58	5.23
June	3.56	7.69	0.46	1.74	2.04	2.46	2.79	3.10	3.40	3.73	4.10	4.57	5.26	5.89
July	3.04	5.30	0.57	1.24	1.52	1.91	2.24	2.54	2.85	3.19	3.57	4.06	4.81	5.49
August	3.12	8.72	0.36	1.61	1.86	2.21	2.49	2.74	3.00	3.27	3.57	3.95	4.52	5.02
September	3.40	2.98	1.14	0.92	1.24	1.73	2.16	2.58	3.02	3.51	4.09	4.84	6.00	7.07
October	2.05	2.34	0.88	0.44	0.62	0.93	1.20	1.47	1.76	2.09	2.49	3.01	3.84	4.63
November	2.17	3.15	0.69	0.62	0.82	1.13	1.41	1.67	1.95	2.25	2.61	3.08	3.81	4.50
December	1.38	3.29	0.42	0.41	0.54	0.73	0.90	1.07	1.24	1.43	1.66	1.94	2.40	2.82

**TABLE 111 - Precipitation Probabilities for
Climatic Divisions**

Wisconsin Southwest Division														
Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.06	3.07	0.35	0.30	0.40	0.55	0.68	0.81	0.95	1.10	1.28	1.51	1.88	2.22
February	1.03	1.95	0.53	0.18	0.27	0.42	0.56	0.70	0.86	1.04	1.25	1.54	2.00	2.43
March	1.97	4.68	0.42	0.74	0.93	1.19	1.41	1.61	1.83	2.06	2.32	2.66	3.18	3.65
April	2.75	4.67	0.59	1.04	1.29	1.66	1.97	2.26	2.55	2.87	3.25	3.72	4.45	5.11
May	3.71	6.28	0.59	1.65	1.98	2.44	2.81	3.16	3.51	3.89	4.32	4.86	5.69	6.43
June	4.37	6.19	0.71	1.93	2.32	2.86	3.31	3.72	4.13	4.58	5.09	5.74	6.71	7.60
July	3.80	4.98	0.76	1.49	1.84	2.34	2.75	3.14	3.54	3.97	4.46	5.09	6.04	6.89
August	3.88	4.99	0.78	1.53	1.88	2.39	2.81	3.21	3.62	4.05	4.56	5.20	6.17	7.04
September	3.90	2.53	1.54	0.91	1.27	1.84	2.35	2.86	3.40	4.01	4.73	5.68	7.19	8.61
October	2.18	1.92	1.14	0.37	0.56	0.87	1.17	1.48	1.81	2.20	2.66	3.27	4.26	5.20
November	2.09	2.31	0.91	0.44	0.63	0.94	1.22	1.50	1.80	2.14	2.54	3.08	3.93	4.74
December	1.18	4.57	0.26	0.44	0.55	0.71	0.84	0.97	1.09	1.23	1.40	1.60	1.92	2.21

Wisconsin Southeast Division

Month	Mean Inches	Gamma	Beta	Probabilities (Based on 35 years of data)										
				0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
January	1.75	3.23	0.54	0.51	0.68	0.93	1.14	1.35	1.57	1.82	2.10	2.48	3.06	3.60
February	1.25	3.04	0.41	0.35	0.46	0.65	0.80	0.96	1.12	1.30	1.51	1.78	2.22	2.62
March	2.24	5.24	0.43	0.91	1.11	1.40	1.65	1.87	2.10	2.35	2.64	3.00	3.55	4.06
April	2.70	4.52	0.60	1.00	1.25	1.61	1.92	2.21	2.50	2.82	3.19	3.67	4.39	5.06
May	3.25	6.33	0.51	1.45	1.74	2.14	2.47	2.77	3.08	3.40	3.78	4.25	4.97	5.62
June	3.58	7.59	0.47	1.74	2.05	2.47	2.80	3.11	3.42	3.75	4.13	4.60	5.31	5.95
July	3.41	4.35	0.78	1.23	1.55	2.01	2.40	2.77	3.15	3.56	4.04	4.65	5.59	6.46
August	3.31	5.12	0.65	1.32	1.63	2.06	2.42	2.75	3.10	3.47	3.90	4.44	5.27	6.02
September	3.32	2.03	1.64	0.60	0.89	1.38	1.83	2.29	2.79	3.36	4.04	4.96	6.43	7.83
October	2.21	1.61	1.37	0.29	0.47	0.78	1.09	1.41	1.77	2.18	2.70	3.39	4.52	5.61
November	2.26	2.68	0.84	0.56	0.77	1.10	1.39	1.68	1.99	2.33	2.74	3.27	4.11	4.90
December	1.55	3.31	0.47	0.46	0.60	0.82	1.02	1.20	1.39	1.61	1.86	2.18	2.68	3.15



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