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TECHNICAL PAPER NO. 2

Maximum Recorded United States Point Rainfall

For 5 Minutes to 24 Hours at 296 First-Order Stations

Prepared by

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for

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MAXIMUM RECORDED UNITED STATES POINT RAINFALL

for 5 Minutes to 24 Hours at 296 First-Order Stations

INTRODUCTION

This report, which is a revision of Technical Paper No. 2 [1] originally published in 1947 in cooperation with the Corps of Engineers, was prepared for the Soil Conservation Service to provide rainfall information for planning and design purposes in connection with its Watershed Protection and Flood Prevention Program (authorization: P. L. 566, 83d Congress, and as amended.)

Many of the maximum rainfall values for the stations listed in the original Technical Paper No. 2 have been exceeded since its publication, some by large amounts. Table 1 lists, for stations with at least 50 years of record as of 1961, the number of maximum values exceeded each year during the 15-year period 1947-1961. A total of 338 new maxima out of a possible 1459 were observed in this period. New maxima were recorded in every year.

The relative differences between the new maxima and those prior to 1947 are shown in table 2. The largest percentage increases were found to be associated with durations of 3 hours and longer. The unusually high percentage increase shown for the 12-hour duration resulted from two outstanding percentages for Hartford, Conn., and Key West, Fla., 86 and 103 percent, respectively. If these two values were eliminated, the mean percentage increase for 12 hours would be 26.9.

The maxima originally published have become obviously outdated. Moreover, Weather Bureau Technical Paper No. 2

Table 1

NUMBER OF NEW MAXIMUM RAINFALLS RECORDED DURING THE PERIOD 1947-1961 AT 146 STATIONS WITH RECORDS OF AT LEAST 50 YEARS

Year	Duration										
	Minutes					Hours					Total
	5	10	15	30	60	2	3	6	12	24	
1947	2	4	4	4	2	2	1	3	4	3	29
1948	0	0	0	1	2	2	2	1	0	0	8
1949	2	2	3	1	2	5	6	6	3	3	33
1950	0	0	2	4	7	3	4	2	3	4	29
1951	1	2	2	0	0	2	0	0	0	2	9
1952	1	3	3	3	2	2	1	1	1	1	18
1953	1	3	3	3	4	3	3	1	2	0	23
1954	1	0	1	0	1	2	2	2	2	2	13
1955	4	4	5	6	7	6	5	3	3	4	47
1956	0	2	0	0	1	0	1	1	1	0	6
1957	2	3	3	3	2	3	2	3	4	2	27
1958	7	8	7	5	4	4	4	4	1	2	46
1959	2	0	0	1	0	2	4	2	1	1	13
1960	5	3	2	3	2	2	2	2	2	1	24
1961	2	2	1	0	1	2	0	1	1	3	13
Total	30	36	36	34	37	40	37	32	28	28	338

Table 2

PERCENTAGE INCREASE OF NEW MAXIMA OVER MAXIMA PRIOR TO 1947

Duration	Percent
5 min.	17.2
10 min.	15.7
15 min.	15.2
30 min.	20.3
60 min.	16.4
2 hr.	20.2
3 hr.	25.0
6 hr.	24.6
12 hr.	31.8
24 hr.	23.8

has been out of print and unavailable for several years. Since maximum rainfall rates are of great interest to meteorologists and hydrologists and there was no other published summary of these data, it appeared that a revision of Technical Paper No. 2 was in order.

MAXIMUM RAINFALL DATA

Maximum rainfall amounts for 5, 10, 15, 30 and 60 minutes and for 2, 3, 6, 12 and 24 hours at 296 stations (fig. 1) are shown in table 6 and on maps (figs. 2-11), one map for each duration. Maximum values were obtained by examination of precipitation data in published and unpublished tabulations and summaries /2-11/. Maxima were selected for all Weather Bureau first-order stations, active or discontinued, having published excessive rainfall tabulations (5 to 180 minutes) for at least a 5-year period. In the original study the minimum length of record was 10 years. The minimum was lowered to 5 years in order to include a relatively large number of stations that began measurements of excessive rainfalls for 5- to 180-minute durations about 1954.

Very few of the stations for which maximum rainfall amounts are listed in table 6 remained at the same location during the entire period of record given. The most important location changes occurred when official observations were moved from a city office to an airport station. In such cases, if the city office discontinued observations, its record was combined with that of the airport station. When observations were made by both the city office and airport station, the records were kept separate.

Practically all of the maximum amounts listed in table 6 are from automatic records. Their accuracy is subject to the instrumental limitations of recording gages and to imperfections of the compilation method. With tipping-bucket gages, intensities of the order of 1 inch in 5 minutes often produce so dense a packing of the trace that the actual intensity can be determined only indirectly by subtracting the totals for the periods of lower, more readable intensities from the total measured by stick. Also, the stick measurement often exceeds the automatically recorded amount for heavy rains because water continues to flow into the tipping bucket while it is tipping. Under these conditions, the automatic record may show maximum intensities that are about 5 percent too low /12/. The automatic record is corrected by distributing the difference in proportion to the recorded intensities.

In the case of weighing-type gages, unusual frictional effects in the mechanism may produce a trace indicating a lower intensity than the actual. On the other hand, a sudden freeing of the binding mechanism may result in an indicated intensity greater than the actual.

Some compilations of the excessive rainfall data prior to 1935 were based only upon successive 5-minute intervals of duration, beginning with the first indication of excessive rain /13/. The actual maximum intensity may then exceed the tabulated maximum by as much as 10 percent for 5 minutes. Longer durations show less error /14/.

Maximum amounts for 6 and 12 hours, which are not usually tabulated by Weather Bureau stations, were compiled from tabulations of hourly amounts by standard 1-hour clock intervals. Prior to 1936, when tabulations of excessive 180-minute rainfall amounts were inaugurated, 3-hour maxima were obtained from hourly data also. The effect of such compilation by 1-hour intervals rather than to the nearest minute is to increase the discrepancy between actual and tabulated maxima.

Maximum values from non-recording gages are mostly confined to 24-hour amounts, although a few maxima for durations as short as 2 hours were obtained from such gages. Such values have been used when already identified as official station maxima for a particular duration. The records are authentic but from a period of station operation antedating the installation of a recording gage. Use of these amounts required, in some cases, a change in the value of a maximum observed amount for a shorter duration, for example, when the 60-minute amount was less than one-third the 3-hour value. The amount for the shorter duration was adjusted to agree with a percentage depth-duration distribution determined from stations having values of corresponding magnitude. This method of adjustment was also applied in a few cases in which, for example, exactly half the 10-minute maximum was recorded as the 5-minute maximum because of the illegibility of the trace for the shorter duration. All adjusted amounts are so identified in the Notes of table 6.

REPRESENTATIVENESS OF MAXIMUM RAINFALL DATA

No isohyets have been drawn on the maps of figures 2-11 because no line connecting points of equal magnitude would necessarily be a line of equal observed maximum magnitude. Since records confined to the fewer than 300 stations constitute an obviously small sample, it is natural to question these values as representative of the maximum observed for the vicinity, no matter how "vicinity" is defined. Experience with values of this type indicates that first-order station maximum values are roughly doubled by maxima for cooperative stations or by unofficial but verifiable records (fig. 12). Naturally, such a rule is not applicable to all States nor to all records.

Table 3 lists both first-order and other 24-hour maxima for each of the contiguous 48 States. Connecticut is the only State where the maximum 24-hour amount measured by a first-order station exceeded the maximum obtained by either a cooperative observer or an unofficial measurement. The biggest difference listed is for Pennsylvania, where the unofficial measurement of 34.50 in. is more than three times the first-order station maximum of 10.42 in. The West Virginia unofficial maximum is also more than three times the first-order maximum, i.e., 19.00 in. vs. 5.60 in.

SEASONAL DISTRIBUTION

The monthly distribution of maximum observed rainfall amounts for stations with 20 or more years of record is shown in table 4. The highest percentage of occurrence for durations up to 6 hours is in July or August.

Table 3

COMPARISON BY STATE OF MAXIMUM 24-HOUR RAINFALL AMOUNTS (IN.) FROM FIRST-ORDER STATIONS WITH THOSE MEASURED BY COOPERATIVE OR UNOFFICIAL OBSERVERS

State	First-Order	Coop. or Unofficial	State	First-Order	Coop. or Unofficial
Alabama	13.36	20.33	Nebraska	8.38	13.15
Arizona	5.20	5.95	Nevada	3.30	4.37
Arkansas	9.58	12.00	New Hampshire	5.97	8.00
California	9.31	26.12	New Jersey	9.21	14.81
Colorado	6.53	8.05	New Mexico	5.65	11.28
Connecticut	12.12	*	New York	9.55	11.17
Delaware	6.53	7.83	N. Carolina	14.93	22.22
Florida	19.88	38.70	N. Dakota	5.58	7.70
Georgia	11.44	18.00	Ohio	5.98	8.70
Idaho	2.72	7.17	Oklahoma	7.87	19.75
Illinois	7.56	14.25	Oregon	7.66	10.17
Indiana	6.94	10.50	Pennsylvania	10.42	34.50
Iowa	6.74	12.99	Rhode Island	8.52	12.13
Kansas	8.08	12.59	S. Carolina	10.57	13.25
Kentucky	8.06	10.40	S. Dakota	7.52	8.00
Louisiana	16.01	21.40	Tennessee	10.48	11.00
Maine	7.49	7.72	Texas	23.11	38.20
Maryland	8.35	14.75	Utah	2.72	4.50
Massachusetts	8.40	11.14	Vermont	7.72	8.77
Michigan	5.64	9.91	Virginia	8.79	11.20
Minnesota	7.80	10.75	Washington	5.91	12.00
Mississippi	9.97	12.35	W. Virginia	5.60	19.00
Missouri	8.78	12.25	Wisconsin	7.23	11.72
Montana	3.74	10.10	Wyoming	4.86	5.50

* First-order station maximum exceeded all other measurements

Well over half of the occurrences for these durations fall in the 3-month period, June through August. For the 12- and 24-hour durations, the highest monthly percentage of occurrence is in September. About half of the maxima for these longer durations occur in the 3-month period, July through September. There appears to be a slight tendency towards a more uniform seasonal distribution as duration increases.

The frequency distribution by seasons is shown in the lower portion of figure 13. Summer is obviously the predominating season for all durations, but the increase of autumn occurrences with duration is very noticeable. For the 24-hour duration, the summer occurrences only slightly exceed the fall.

There are geographic variations in the seasonal distribution of occurrences of maximum observed values. The frequency distributions indicated by table 4 and figure 13 are biased by the much larger number of stations in the eastern United States. The months of occurrence of maximum observed 24-hour amounts were therefore plotted on a map, and lines separating the various seasons were then drawn (fig. 14). A single storm could alter the picture appreciably. For example, a fall hurricane along the east coast might well change the predominating season in the coastal areas from summer to fall.

Another map (not shown) was prepared also to show the predominant seasons of occurrence of maximum observed 1-hour amounts. Summer predominated everywhere except for a narrow strip along the west coast where spring and winter were the predominating seasons.

Table 4

MONTHLY DISTRIBUTION (IN PERCENT) OF MAXIMUM RAINFALL AMOUNTS
(Based on 211 stations with 20 or more years of record)

Duration	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5 min.	0.9	2.4	3.8	4.2	11.7	16.8	22.9	26.6	7.0	1.4	1.8	0.5
10 min.	0	2.4	0.9	3.8	10.3	16.8	28.0	27.1	5.6	2.3	2.3	0.5
15 min.	0	1.4	0.9	3.3	8.9	17.2	29.9	27.1	4.7	3.3	2.8	0.5
30 min.	0.5	1.4	1.4	2.3	8.0	15.9	24.8	30.8	6.5	4.2	2.3	1.9
60 min.	0.8	1.6	1.2	2.4	5.1	19.8	26.6	25.0	10.3	4.0	3.2	0
2 hr.	0.4	1.2	1.6	3.2	5.5	19.0	25.8	22.6	12.7	5.2	2.8	0
3 hr.	0.8	1.2	1.6	3.2	6.4	16.7	24.3	19.9	14.7	8.0	2.4	0.8
6 hr.	1.2	0.4	1.2	2.4	6.0	18.8	20.8	16.8	18.4	8.4	4.0	1.6
12 hr.	2.8	0.4	2.8	2.4	4.8	15.9	15.5	15.9	20.3	11.6	4.0	3.6
24 hr.	3.2	0	3.6	4.3	7.5	12.8	12.4	14.2	19.9	11.4	5.7	5.0

DAILY DISTRIBUTION

Beginning in 1936, times of beginning and ending of rain were omitted from the tabulations of excessive precipitation. A new analysis of daily distribution would have required examination of the recording-gage charts, which were not readily available. The discussion and data presented in the remainder of this section are therefore practically the same as presented in the original Technical Paper No. 2.

The frequency distribution by quarter days of maximum rainfall amounts is shown in the top portion of figure 13. Beginning times of rain were used as times of occurrence, e.g., a 24-hour maximum beginning at 11 p.m. would have its time of occurrence classified in the fourth quarter.

Although the third period (1200 to 1800, local standard time) is generally predominant, its frequencies are approximately equaled or exceeded by the frequencies in the fourth period for durations longer than 60 minutes.

There are geographic variations in the distribution of quarter-day frequencies. The frequency distribution of figure 13 is biased by the large number of eastern stations. The original Technical Paper No. 2 did not present any map showing the distribution of quarter-day frequencies of maximum rainfall amounts, but it referred to a similar map in Hydrometeorological Report No. 5 /15/. This map (fig. 15) was based on all values of excessive precipitation, not merely the maximum values. It shows the distribution by quarter days in summer and for the year as a whole. The map is practically identical with the geographic distribution of percentage frequencies of thunderstorm occurrences, the Midwest region of nocturnal thunderstorms being prominent in both.

DEPTH-DURATION CHARACTERISTICS

In examining the depth-duration characteristics of the maximum observed rainfall amounts of table 6, a distinction was made between maxima observed within the same storm and those observed among all storms. In other words, some of the maxima observed at a station for the various durations sometimes were from the same storm and some were from different storms. Table 5, for example, shows that out of 115 maximum observed 5-minute rainfall amounts,

Table 5

NUMBER OF OCCURRENCES OF MAXIMUM DEPTH-DURATION VALUES IN SAME STORM
(Based on stations with at least 50 years of record for all durations)

Duration	No. of Stations	Minutes				Hours				
		10	15	30	60	2	3	6	12	24
5 min.	115	62	42	26	20	11	9	8	7	4
10 min.	115		77	37	22	16	11	8	6	4
15 min.	115			53	31	22	17	11	6	5
30 min.	116				60	36	23	17	7	4
60 min.	125					62	43	33	17	16
2 hr.	126						80	55	33	29
3 hr.	128							71	45	38
6 hr.	130								72	54
12 hr.	136									86

only 62 occurred in the same storms that yielded the 10-minute maxima. The number of within-storm occurrences drops off rapidly as the difference between durations is increased. Thus, for example, of 115 observations of 5-minute maxima only 4 occurred in the same storms yielding the 24-hour maxima. In general, table 5 indicates that roughly half of the maxima for a specific duration were observed in the same storm yielding the maxima for double the duration.

Most of the maxima listed in table 6 for durations up to 60 minutes were associated with thunderstorms. In order to portray the depth-duration characteristics of such rainfalls, two sets of curves were prepared showing the maxima for various durations in terms of 60-minute maxima of various magnitudes (fig. 16). Only stations having at least 20 years of record were used. Maximum short-duration amounts within storms producing the maximum 60-minute amounts listed in table 6 provided the basis for the dashed curves. In most cases, these short-duration maxima were less than the maxima of record shown in the table. The solid curves are based on the values of table 6, regardless of whether or not the short-duration maxima were from the same storm producing the 60-minute maxima. The solid curves naturally show higher percentage values than the dashed within-storm curves, the differences being greatest for the shorter durations.

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Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

(Data through 1961: periods of record 5 years or more.)

	MINUTES					HOURS				
	5	10	15	30	60	2	3	6	12	24
ALABAMA										
Anniston	0.66	1.24	1.81	3.04	3.62	3.69	3.70	4.54	5.13	6.26
Month, Day	9/5	9/5	9/5	9/5	9/5	9/5	9/5	6/7	3/6	3/6
Year	1906	1906	1906	1906	1906	1906	1906	1906	1930	1930
Period	←				1906-1930				→	06-52
Birmingham	0.69	1.18	1.60	2.48	3.83	3.89	4.23	7.42	8.34	8.84
Month, Day	8/24	9/3	9/3	8/2	8/2	8/2	12/27	12/27	12/27	7/6
Year	1947	1918	1918	1941	1941	1941	1942	1942	1942	1916
Period	←				1904-1961				→	93-60
Mobile*	0.89	1.33	1.59	2.32	3.51	4.47	5.00	8.22	12.98	13.36
Month, Day	7/19	7/19	4/29	4/29	4/21	7/19	6/26	4/4	6/26	4/13
Year	1917	1917	1908	1908	1949	1922	1900	1911	1900	1955
Period	←	1906-1953		→	←		1891-1953		→	91-61
Montgomery	0.65	1.16	1.57	2.49	4.16	4.51	5.40	6.60	8.00	9.98
Month, Day	8/3	8/3	5/3	5/30	8/31	8/31	11/9	6/1	1/12	1/12
Year	1904	1904	1957	1905	1961	1961	1927	1946	1892	1892
Period	←				1897-1961				←1891-1961→	
ALASKA										
Anchorage	0.15	0.21	0.27	0.32	0.40	0.54	0.68	0.88	1.72	2.10
Month, Day	8/20	8/20	8/20	8/20	8/18	7/31	7/31	7/31	7/31	10/8
Year	1952	1952	1952	1952	1959	1956	1956	1956	1956	1916
Period	←				1942-1961				→	16-61
Annette	0.36	0.44	0.47	0.67	1.05	1.62	1.92	2.72	4.22	7.59
Month, Day	11/1	11/1	11/1	10/29	10/29	10/29	10/29	11/30	10/20	10/20
Year	1958	1958	1958	1958	1958	1958	1958	1959	1958	1958
Period	←1954-1961→		←			1948-1961				→
Fairbanks	0.35	0.50	0.55	0.78	0.99	1.06	1.09	1.11	1.50	2.33
Month, Day	6/17	7/16	7/16	7/16	7/13	7/13	7/13	7/13	7/19	8/28
Year	1939	1950	1950	1950	1939	1939	1939	1939	1948	1930
Period	←				1930-1961				→	05-61
Juneau	0.19	0.28	0.32	0.44	0.72	0.94	1.35	1.87	2.96	5.54
Month, Day	8/3	8/3	8/3	8/3	8/3	8/3	8/3	10/10	10/10	9/25
Year	1956	1956	1956	1956	1956	1956	1956	1946	1946	1918
Period	←				1931-1961				→	17-61
ARIZONA										
Flagstaff	0.41	0.81	0.84	1.18	2.00	2.10	2.10	2.12	2.60	3.59
Month, Day	9/29	9/29	8/2	7/15	7/15	7/15	7/15	6/29	6/29	11/27
Year	1911	1911	1908	1951	1951	1951	1951	1956	1956	1919
Period	←				1907-1911 and 1951-1961				→	98-61
Phoenix	0.43	0.70	0.91	1.16	1.41	2.20	2.38	2.41	3.51	4.98
Month, Day	7/26	7/26	7/26	9/8	9/4	9/4	9/4	9/4	7/1	7/1
Year	1936	1952	1952	1933	1939	1939	1939	1939	1911	1911
Period	←				1906-1961				→	95-61
Prescott	0.40	0.65	0.84	1.34	2.02	2.18	2.53	3.08	3.08	3.08
Month, Day	8/19	8/19	8/19	8/10	7/17	7/17	7/17	7/17	7/17	7/17
Year	1958	1958	1958	1946	1950	1950	1950	1950	1950	1950
Period	←				1943-1961					→
Tucson*	0.69	1.21	1.63	2.26	2.35	2.71	3.12	3.66	3.87	5.20
Month, Day	8/3	8/3	8/3	9/24	9/24	7/29	7/29	7/29	7/29	7/11
Year	1955	1955	1955	1943	1943	1958	1958	1958	1958	1878
Period	←				1943-1961				→	75-61
Winslow	0.51	0.77	0.92	0.96	1.08	1.10	1.10	1.20	1.34	2.12
Month, Day	7/17	8/4	8/4	8/4	8/26	8/26	8/26	8/25	8/25	6/12
Year	1957	1955	1955	1955	1947	1947	1947	1957	1957	1955
Period	←	1950-1961		→	←		1940-1961			→
Yuma	0.27	0.50	0.72	1.02	1.23	1.24	1.24	1.36	2.09	4.01
Month, Day	8/4	8/4	8/4	8/15	8/15	8/15	8/15	10/28	10/27	8/15
Year	1941	1941	1941	1943	1943	1943	1943	1957	1957	1909
Period	←				1941-1961				→	75-61
ARKANSAS										
Bentonville*	0.75	1.20	1.58	1.84	2.31	3.56	4.50	5.07	5.21	6.22
Month, Day	4/23	4/23	4/23	7/4	10/8	9/9	9/9	9/9	9/9	10/29
Year	1908	1908	1908	1916	1919	1937	1937	1937	1937	1942
Period	←				1906-1920				→	06-42

Table 6

MAXIMUM RECORDED U. S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
ARKANSAS (cont.)										
Fort Smith*	0.58	1.15	1.54	2.25	2.47	4.34	4.67	5.13	6.15	8.58
Month, Day	6/10	6/8	6/8	9/24	6/9	6/9	6/9	6/9	6/9	6/9
Year	1945	1951	1951	1937	1945	1945	1945	1945	1945	1945
Period	←				1901-1961				→	00-61
Little Rock	0.63	1.01	1.35	2.07	3.00	4.60	6.82	7.68	8.19	9.58
Month, Day	7/2	5/10	5/10	6/25	5/26	5/26	5/26	5/26	4/9	4/8
Year	1939	1930	1930	1946	1955	1955	1955	1955	1913	1913
Period	←				1900-1961				→	79-61
Texarkana	0.60	1.10	1.40	2.10	2.54	3.20	3.75	4.37	4.92	9.29
Month, Day	10/10	10/10	10/10	10/10	10/10	3/29	3/29	6/11	6/11	10/10
Year	1958	1958	1958	1958	1958	1945	1945	1945	1945	1926
Period	←	1952-1961	→		←		1941-1961	→		12-61
CALIFORNIA										
Bakersfield	0.25	0.38	0.41	0.54	0.68	1.00	1.15	1.20	1.50	1.75
Month, Day	10/6	2/17	2/17	10/6	10/6	10/6	10/6	10/6	4/5	4/5
Year	1956	1955	1955	1956	1956	1956	1956	1956	1943	1943
Period	←	1953-1961	→		←		1940-1961	→		38-61
Blue Canyon	0.17	0.30	0.35	0.51	0.95	1.66	2.20	3.65	6.04	9.31
Month, Day	9/17	9/17	9/17	12/21	12/21	12/21	12/21	12/21	12/21	12/21
Year	1961	1961	1961	1955	1955	1955	1955	1955	1955	1955
Period	←	1951-1961	→		←		1945-1961	→		39-61
Burbank*	0.29	0.42	0.44	0.59	1.13	1.57	2.00	3.26	5.08	7.88
Month, Day	2/4	2/4	10/11	10/11	2/19	1/21	1/21	1/15	1/22	1/21
Year	1958	1958	1957	1957	1941	1943	1943	1952	1943	1943
Period	←	1953-1961	→		←		1940-1961	→		31-61
Eureka*	0.29	0.37	0.51	0.76	1.20	1.72	2.53	3.33	4.37	5.83
Month, Day	1/1	1/1	11/11	12/6	10/29	10/29	10/29	10/29	10/28	10/28
Year	1931	1931	1926	1952	1950	1950	1950	1950	1950	1950
Period	←				1905-1961				→	87-61
Fresno	0.48	0.65	0.88	1.22	1.36	1.70	1.70	1.70	2.12	2.86
Month, Day	2/24	2/24	6/14	6/14	6/14	4/8	4/8	4/8	12/3	11/16
Year	1941	1941	1939	1939	1939	1926	1926	1926	1915	1900
Period	←				1904-1961				→	91-61
Los Angeles	0.44	0.66	0.81	1.12	1.51	1.99	2.28	3.37	4.84	7.36
Month, Day	1/14	2/18	2/18	2/18	2/18	2/18	2/18	3/2	3/1	12/31
Year	1908	1914	1914	1914	1914	1914	1914	1938	1938	1933
Period	←				1903-1961				→	77-61
Mt. Shasta*	0.30	0.48	0.64	1.05	1.43	1.43	1.62	2.68	3.53	6.06
Month, Day	7/10	5/29	5/29	5/29	5/29	5/29	10/29	10/29	12/17	12/17
Year	1956	1956	1956	1956	1956	1956	1950	1950	1940	1940
Period	←	1956-1961	→		←			1940-1961	→	
Mt. Tamalpais*	0.19	0.34	0.41	0.80	1.20	1.20	1.20	1.45	2.12	3.04
Month, Day	2/20	2/20	2/20	11/10	11/10	11/10	11/10	1/13	1/21	11/5
Year	1917	1917	1917	1901	1901	1901	1901	1909	1914	1912
Period	←	1905-1920	→		←		1899-1920	→		
Pt. Reyes	0.32	0.54	0.69	1.02	1.40	1.55	1.56	1.64	2.26	3.29
Month, Day	11/29	11/29	11/29	11/29	3/3	3/3	3/3	12/11	12/11	12/21
Year	1905	1905	1905	1905	1906	1906	1906	1925	1925	1924
Period	←				1906-1926				→	92-26
Red Bluff	0.48	0.73	0.76	1.21	2.14	3.73	4.70	5.51	5.94	6.12
Month, Day	6/23	6/23	6/23	9/14	9/14	9/14	9/14	9/13	9/13	9/13
Year	1923	1923	1923	1918	1918	1918	1918	1918	1918	1918
Period	←				1906-1934 and 1944-1961				→	77-61
Sacramento*	0.39	0.62	0.75	0.97	1.65	2.62	2.72	2.88		7.24
Month, Day	4/7	4/7	4/7	4/7	4/7	4/7	4/7	4/7		4/20
Year	1935	1935	1935	1935	1935	1935	1935	1935		1880
Period	←				1903-1961			→		78-61
San Diego	0.33	0.49	0.65	0.94	1.21	2.09	2.21	2.36	2.63	3.62
Month, Day	3/15	2/14	11/27	3/15	3/7	4/5	4/5	4/5	2/6	12/23
Year	1905	1927	1939	1905	1952	1926	1926	1926	1937	1940
Period	←	1896-1961	→		←		1891-1961	→		71-61
San Francisco	0.33	0.51	0.65	0.83	1.07	1.29	1.59	2.31	2.88	4.67
Month, Day	11/25	11/4	11/4	3/4	3/4	9/23	9/23	1/14	1/14	1/29
Year	1926	1918	1918	1912	1912	1904	1904	1956	1956	1881
Period	←	1902-1961	→		←		1889-1961	→		49-61

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Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
CALIFORNIA (cont.)										
San Francisco AP*	0.22	0.33	0.43	0.57	0.76	1.06	1.19	1.64	2.12	3.33
Month, Day	12/18	12/18	12/18	12/18	12/19	12/19	12/19	12/22	9/18	12/22
Year	1957	1957	1957	1957	1952	1952	1952	1955	1959	1955
Period	← 1952-1961 →				← 1944-1961 →					28-61
San Jose	0.18	0.27	0.34	0.50	0.85	1.11	1.39	2.14	3.11	4.56
Month, Day	3/6	11/18	11/18	1/23	1/23	9/12	1/13	12/3	9/12	1/13
Year	1911	1913	1913	1942	1942	1918	1911	1915	1918	1911
Period	← 1908-1932 →				← 1906-1961 →					
San Luis Obispo	0.29	0.43	0.53	0.72	1.07	1.77	2.22	3.15	4.75	5.98
Month, Day	2/2	2/2	2/2	2/12	2/12	3/7	3/7	3/7	3/7	3/6
Year	1926	1926	1926	1926	1926	1911	1911	1911	1911	1911
Period	← 1905-1926 →				← 1905-1926 and 1940-1961 →					
S.E. Farallon	0.16	0.25	0.37	0.62	1.03	1.32	1.39	2.20	2.78	3.09
Month, Day	11/19	11/13	11/13	11/13	11/13	10/28	10/28	10/28	12/1	12/18
Year	1903	1952	1952	1952	1952	1941	1941	1941	1954	1955
Period	← 1903-1913 and 1952-1961 →				← 1903-1913 and 1940-1961 →					
COLORADO										
Alamosa	0.30	0.50	0.70	0.72	0.73	0.73	0.93	1.18	1.47	1.82
Month, Day	7/26	7/26	7/26	7/26	7/26	7/26	4/20	4/20	4/20	9/29
Year	1957	1957	1957	1957	1957	1957	1952	1952	1952	1959
Period	← 1954-1961 →				← 1950-1961 →					45-61
Denver	0.91	1.36	1.54	1.72	2.20	2.54	2.72	2.91	3.90	6.53
Month, Day	7/14	7/14	7/14	7/14	8/23	8/23	8/23	8/23	8/23	5/21
Year	1912	1912	1912	1912	1921	1921	1921	1921	1921	1876
Period	←				1896-1961				→	76-61
Durango	0.36	0.59	0.72	0.96	1.53	1.86	1.89	1.90	2.04	3.18
Month, Day	7/22	7/22	7/22	7/22	7/15	8/5	8/5	8/5	8/5	10/4
Year	1912	1912	1912	1912	1942	1959	1959	1959	1959	1911
Period	← 1905-1914 →				← 1905-1914 and 1941-1961 →					
Grand Junction*	0.39	0.54	0.59	0.66	0.92	1.06	1.19	1.41	1.74	2.50
Month, Day	8/22	8/22	8/22	8/5	9/2	8/1	10/5	9/2	9/22	10/17
Year	1914	1914	1914	1918	1938	1953	1925	1938	1941	1908
Period	←				1900-1961				→	93-61
Pueblo	0.62	1.15	1.65	2.68	3.41	3.75	3.75	3.75	3.75	3.77
Month, Day	8/18	10/8	10/8	8/29	10/8	10/8	10/8	10/8	10/8	10/7
Year	1953	1957	1957	1955	1957	1957	1957	1957	1957	1957
Period	←				1901-1961				→	91-61
Wagon Wheel Gap*	0.29	0.42	0.52	0.62	0.68	0.90	0.96	1.14	1.77	2.60
Month, Day	7/26	8/6	8/6	8/6	7/10	8/6	8/6	10/5	10/4	10/4
Year	1912	1926	1926	1926	1920	1926	1926	1911	1911	1911
Period	←				1911-1926					→
CONNECTICUT										
Bridgeport*	0.50	1.00	1.40	1.67	1.97	2.71	3.43	3.69	3.74	5.84
Month, Day	8/16	7/30	8/29	7/30	7/30	7/30	8/21	8/21	8/21	10/15
Year	1952	1960	1959	1960	1960	1960	1952	1952	1952	1955
Period	←				1951-1961				→	49-61
Hartford	0.71	1.10	1.43	2.32	2.93	2.96	3.55	4.32	8.38	12.12
Month, Day	8/1	8/1	8/1	8/1	8/1	8/1	9/14	8/18	8/18	8/18
Year	1929	1929	1929	1929	1929	1929	1944	1955	1955	1955
Period	←				1905-1961				→	04-61
New Haven	0.84	1.38	1.96	2.34	2.38	3.12	3.38	4.14	7.01	8.73
Month, Day	7/24	7/24	7/24	7/24	7/24	6/12	7/23	7/23	6/12	8/8
Year	1928	1928	1928	1928	1928	1936	1953	1953	1936	1874
Period	← 1905-1961 →				← 1899-1961 →					72-61
DELAWARE										
Wilmington	0.48	0.74	1.01	1.70	1.93	1.98	2.08	2.94	4.56	6.53
Month, Day	9/19	8/31	9/19	9/19	9/19	9/19	7/24	9/12	9/12	8/1
Year	1960	1960	1960	1960	1960	1960	1958	1960	1960	1945
Period	←				1957-1961				→	94-61
DISTRICT OF COLUMBIA										
Washington	0.80	1.21	1.51	2.43	3.42	3.91	4.14	5.38	6.20	7.31
Month, Day	8/11	7/30	7/30	9/12	9/12	9/4	9/2	8/11	8/11	8/11
Year	1897	1913	1913	1934	1934	1939	1922	1928	1928	1928
Period	← 1896-1961 →				← 1889-1961 →					71-61

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
DISTRICT OF COLUMBIA (cont.)										
Washington Nat. AP	0.82	1.14	1.34	2.02	2.73	2.91	3.39	4.26	5.18	6.39
Month, Day	6/13	6/13	6/13	7/9	7/28	6/7	8/2	8/2	8/2	8/12
Year	1959	1959	1959	1952	1951	1947	1944	1944	1944	1955
Period	←	1951-1961	→		←		1943-1961	→		42-61
FLORIDA										
Apalachicola	0.78	1.28	1.65	2.31	3.71	5.01	7.20	8.97	9.37	11.71
Month, Day	5/2	5/2	5/2	6/12	6/12	9/8	9/8	9/8	9/8	9/13
Year	1923	1923	1923	1954	1954	1946	1946	1946	1946	1932
Period	←	1923-1932 and 1937-1961	→				←	1923-1961	→	
Daytona Beach*	0.60	1.00	1.33	2.22	3.32	3.90	4.91	5.57	7.30	12.85
Month, Day	8/23	7/4	9/15	8/2	8/2	10/6	10/6	10/6	10/8	10/10
Year	1953	1959	1951	1952	1952	1943	1943	1943	1953	1924
Period	←	1951-1961	→		←		1940-1961	→		23-61
Fort Myers	1.00	1.60	2.00	2.57	3.07	4.02	4.85	5.50	9.03	11.70
Month, Day	8/14	8/14	8/14	8/14	8/27	10/2	6/18	6/18	10/1	6/13
Year	1961	1961	1961	1961	1961	1951	1953	1953	1951	1901
Period	←	1951-1961	→		←		1941-1961	→		91-61
Jacksonville	0.78	1.32	1.75	2.83	3.32	4.19	4.97	6.75	8.65	10.17
Month, Day	8/16	7/23	7/23	8/18	7/8	10/22	10/18	10/19	10/19	9/5
Year	1901	1955	1955	1946	1946	1933	1950	1944	1944	1950
Period	←	1896-1961	→		←		1891-1961	→		
Jupiter*	0.65	1.10	1.55	2.55	3.83	4.59	4.77	5.20	9.06	13.18
Month, Day	2/25	9/10	9/10	10/28	10/28	10/28	10/28	5/30	10/17	10/17
Year	1902	1901	1901	1908	1908	1908	1908	1897	1904	1904
Period	←	1896-1910	→		←		1889-1911	→		
Key West	0.76	1.04	1.52	2.68	4.30	7.87	9.59	12.47	18.08	19.88
Month, Day	8/7	8/7	8/18	8/18	8/18	11/13	11/13	11/13	11/13	11/13
Year	1960	1960	1926	1926	1926	1954	1954	1954	1954	1954
Period	←	1896-1961	→		←		1893-1961	→		91-61
Miami	0.71	1.33	1.89	2.92	4.53	6.11	8.59	10.64	13.86	15.10
Month, Day	6/14	4/10	10/11	10/11	6/14	11/30	11/30	11/30	11/30	11/29
Year	1933	1956	1947	1947	1933	1925	1925	1925	1925	1925
Period	←				1911-1961					→
Miami AP	0.83	1.25	1.70	3.02	3.60	4.90	5.38	5.77	7.76	12.58
Month, Day	7/3	9/3	9/3	9/3	5/1	6/18	6/18	6/18	10/27	4/16
Year	1957	1959	1959	1959	1957	1959	1959	1959	1952	1942
Period	←	1953-1961	→		←		1951-1961	→		36-61
Orlando*	0.82	1.25	1.80	3.42	5.75	7.95	8.16	8.19	8.19	9.67
Month, Day	4/13	7/25	7/23	7/25	7/25	7/25	7/25	7/25	7/25	9/15
Year	1952	1960	1958	1960	1960	1960	1960	1960	1960	1943
Period	←	1952-1961	→		←		1941-1961	→		
Pensacola	1.34	1.82	2.29	3.65	4.41	6.14	7.44	10.57	15.64	17.07
Month, Day	5/2	5/2	10/20	10/20	4/2	9/29	8/27	4/24	10/4	10/4
Year	1937	1937	1909	1909	1955	1906	1935	1937	1934	1934
Period	←				1902-1961				→	91-61
Sand Key	0.55	0.96	1.35	2.26	2.79	2.97	3.69	5.23	7.87	9.79
Month, Day	6/24	10/27	10/18	10/18	10/19	10/19	10/18	10/18	10/18	10/18
Year	1917	1913	1924	1924	1924	1924	1924	1924	1924	1924
Period	←				1903-1909 and 1912-1924					→
Tampa	1.05	1.66	2.03	2.72	4.01	4.87	5.17	6.81	9.01	12.11
Month, Day	9/26	9/26	9/26	8/28	8/28	6/23	6/23	6/23	6/23	7/28
Year	1924	1924	1924	1925	1925	1945	1945	1945	1945	1960
Period	←			1897-1952 and 1959-1961					→	91-61
West Palm Beach	0.74	0.90	1.17		4.40	8.35	8.77	9.90	15.16	15.23
Month, Day	7/19	9/16	5/11		4/17	4/17	4/17	4/17	4/17	4/17
Year	1958	1959	1958		1942	1942	1942	1942	1942	1942
Period	←	1953-1961	→		←		1941-1961	→		39-61
GEORGIA										
Atlanta	0.88	1.27	1.64	2.43	3.23	4.32	4.41	4.65	5.45	7.36
Month, Day	6/10	6/10	6/10	8/11	8/20	7/23	7/23	3/14	3/14	3/28
Year	1933	1933	1933	1926	1914	1898	1898	1912	1912	1886
Period	←	1896-1961	→		←		1892-1961	→		79-61
Augusta	1.24	1.80	2.11	2.68	3.08	3.98	4.46	5.83	7.79	9.82
Month, Day	6/18	6/18	6/18	8/14	8/14	9/6	9/6	10/1	10/1	9/30
Year	1911	1911	1911	1903	1903	1948	1948	1929	1929	1929
Period	←				1903-1961				→	91-61

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
GEORGIA (cont.)										
Columbus	0.70	1.15	1.50	1.75	2.45	3.31	3.50	3.89	4.99	5.32
Month, Day	4/30	4/30	4/30	7/16	6/1	6/1	6/1	5/3	4/30	7/24
Year	1953	1953	1953	1959	1959	1959	1959	1957	1953	1955
Period	← 1953-1961 →				← 1946-1961 →					
Macon	0.83	1.35	1.80	2.80	4.28	6.55	6.60	6.71	7.92	8.36
Month, Day	5/23	5/23	5/23	5/23	6/10	6/10	6/10	6/10	8/10	8/10
Year	1957	1957	1957	1957	1923	1923	1923	1923	1928	1928
Period	← 1901-1961 →				← 1899-1961 →					
Rome	0.65	1.05	1.30	1.68	2.44	2.58	2.58	3.79	5.59	7.53
Month, Day	6/23	6/23	6/23	7/2	7/2	7/2	7/2	7/17	3/28	3/28
Year	1959	1959	1959	1956	1956	1956	1956	1953	1951	1951
Period	← 1954-1961 →				← 1946-1961 →					
Savannah*	0.72	1.12	1.50	2.32	3.63	4.89	5.29	6.46	9.18	11.44
Month, Day	7/11	7/11	7/10	8/3	7/23	7/23	8/11	9/4	9/4	9/17
Year	1897	1897	1921	1917	1942	1942	1919	1950	1950	1928
Period	← 1896-1961 →				← 1889-1961 →					
Thomasville	0.71	1.26	1.83	3.05	4.15	4.47	4.85	5.86	6.72	9.00
Month, Day	6/27	6/27	6/27	6/27	6/27	6/27	9/21	9/20	9/14	9/14
Year	1909	1909	1909	1909	1909	1909	1926	1926	1924	1924
Period	←				1906-1932		→			78-61
HAWAII										
Hilo	0.46	0.78	1.03	1.61	2.70	4.27	4.76	7.35	11.00	15.59
Month, Day	11/28	10/28	10/28	2/25	2/25	2/25	1/15	11/1	11/1	11/1
Year	1954	1961	1961	1956	1956	1956	1960	1959	1959	1959
Period	←				1952-1961		→			43-61
Honolulu*	0.49	0.82	1.10	1.79	2.87	3.95	5.13	8.11	10.71	17.41
Month, Day	12/13	12/13	12/30	12/30	1/4	3/5	3/5	3/5	3/5	3/5
Year	1927	1927	1923	1923	1943	1958	1958	1958	1958	1958
Period	←				1905-1961					→
Honolulu AP	0.65	1.10	1.33	2.08	2.92	4.03	4.20	6.62	10.28	17.07
Month, Day	2/28	2/28	2/28	2/28	2/28	2/28	2/28	3/5	3/5	3/5
Year	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958
Period	←				1951-1961		→			46-61
Lihue	0.65	1.16	1.65	2.26	3.22	4.72	5.82	7.88	10.68	11.20
Month, Day	1/24	1/24	1/24	1/24	7/30	7/30	1/24	1/24	1/24	11/8
Year	1956	1956	1956	1956	1954	1954	1956	1956	1956	1955
Period	←				1951-1961					→
IDAHO										
Boise	0.34	0.38	0.43	0.67	0.98	1.23	1.41	1.67	2.01	2.72
Month, Day	5/22	6/27	6/27	5/18	7/30	6/12	6/12	6/12	6/11	3/5
Year	1942	1941	1941	1921	1912	1958	1958	1958	1958	1871
Period	←				1899-1961		→			64-61
Lewiston	0.33	0.50	0.65	1.05	1.08	1.11	1.11	1.25	1.70	2.34
Month, Day	8/12	8/24	8/24	8/24	8/24	8/24	8/24	8/24	7/27	3/30
Year	1906	1907	1907	1907	1907	1907	1907	1907	1909	1931
Period	←				1900-1932 and 1956-1961		→			00-61
Pocatello	0.38	0.64	0.82	0.96	1.24	1.26	1.28	1.92	2.44	2.60
Month, Day	7/1	7/31	7/31	8/2	8/2	8/2	8/2	9/30	9/29	9/29
Year	1925	1936	1936	1920	1920	1920	1920	1926	1926	1926
Period	← 1902-1961 →				← 1900-1961 →					
ILLINOIS										
Cairo	0.65	1.13	1.45	2.08	3.15	4.65	6.20	7.29	7.39	7.56
Month, Day	5/29	6/12	8/11	8/11	6/28	8/11	8/11	8/11	8/11	8/11
Year	1945	1958	1952	1952	1905	1952	1952	1952	1952	1952
Period	←				1900-1961		→			71-61
Chicago*	0.64	1.11	1.31	1.81	2.81	3.88	4.56	5.27	6.20	6.24
Month, Day	7/15	9/13	9/13	9/13	7/6	6/25	6/25	7/12	7/12	7/12
Year	1906	1936	1936	1936	1943	1959	1959	1957	1957	1957
Period	←				1896-1898 and 1900-1961		→			72-61
Moline*	0.62	1.00	1.35	2.25	3.28	4.54	4.60	4.60	4.98	6.29
Month, Day	7/7	8/29	8/29	8/29	8/29	8/29	8/29	8/29	9/13	9/12
Year	1956	1951	1951	1951	1951	1951	1951	1951	1961	1961
Period	← 1943-1961 →				←		1940-1961	→		31-61

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
ILLINOIS (cont.)										
Peoria	0.75	1.04	1.26	2.10	2.60	3.18	3.48	4.33	4.69	5.52
Month, Day	5/25	5/25	7/2	7/2	7/2	9/10	5/18	5/18	5/28	5/18
Year	1960	1960	1931	1931	1931	1911	1927	1927	1915	1927
Period	←				1905-1961					→
Springfield	0.68	1.23	1.41	2.35	3.12	3.29	3.56	4.29	5.94	5.94
Month, Day	6/11	7/23	7/23	7/14	7/14	7/14	6/10	9/8	6/4	6/4
Year	1960	1917	1917	1955	1955	1955	1958	1926	1917	1917
Period	←				1901-1961					→ 91-61
INDIANA										
Evansville	0.74	1.02	1.19	1.96	2.79	3.11	3.41	4.40	4.82	6.94
Month, Day	5/7	5/7	8/10	6/26	7/20	7/20	9/20	9/19	10/5	10/5
Year	1961	1961	1908	1943	1916	1916	1924	1924	1910	1910
Period	←				1900-1961					→ 97-61
Fort Wayne	0.81	1.10	1.27	2.10	2.27	2.94	2.97	3.88	4.92	4.93
Month, Day	7/14	8/1	7/21	7/14	7/14	5/17	5/17	8/9	8/1	8/1
Year	1916	1955	1928	1916	1916	1928	1928	1957	1926	1926
Period	←				1911-1961					→
Indianapolis	0.83	1.30	2.00	2.65	3.20	3.27	3.39	6.55	6.80	6.80
Month, Day	9/30	8/12	8/12	8/12	8/12	8/12	9/4	9/4	9/3	9/3
Year	1902	1944	1944	1944	1944	1944	1895	1895	1895	1895
Period	← 1896-1961 →				←		1891-1961			→ 71-61
Royal Center	0.65	0.94	1.11	1.56	2.27	2.40	2.48	3.02	3.02	3.23
Month, Day	8/9	7/9	7/9	8/4	7/9	7/9	8/29	8/29	8/29	5/18
Year	1930	1925	1925	1923	1925	1925	1928	1928	1928	1927
Period	←				1918-1931					→
South Bend	0.80	1.25	1.48	2.03	2.34	2.76	2.77	2.78	2.86	3.18
Month, Day	8/14	8/14	8/14	8/14	8/14	7/13	7/13	7/13	6/19	10/9
Year	1951	1951	1951	1951	1951	1945	1945	1945	1951	1954
Period	← 1951-1961 →				←		1941-1961			→ 39-61
Terre Haute	1.15	1.32	1.38	1.82	2.81	3.28	4.31	4.89	5.60	5.60
Month, Day	7/7	7/7	7/7	8/5	8/5	8/5	8/5	9/8	9/14	9/14
Year	1915	1915	1915	1938	1946	1938	1938	1926	1931	1931
Period	←				1912-1953					→
IOWA										
Burlington	0.65	1.05	1.60	1.97	2.21	2.71	2.92	3.76	4.61	6.28
Month, Day	6/11	6/11	6/11	6/11	6/11	8/14	8/14	8/14	9/13	6/29
Year	1960	1960	1960	1960	1960	1952	1952	1952	1961	1933
Period	←				1942-1961					→ 96-61
Charles City	0.66	1.09	1.26	1.92	2.48	3.09	3.79	5.17	6.43	6.74
Month, Day	8/10	8/10	8/10	6/21	6/21	7/26	7/26	7/26	7/26	7/25
Year	1950	1950	1950	1930	1930	1940	1940	1940	1940	1940
Period	←				1905-1951					→
Davenport	0.64	1.11	1.43	1.88	2.71	4.38	5.35	6.16	6.25	6.57
Month, Day	7/17	7/17	7/17	7/7	7/7	8/11	8/11	8/11	8/11	8/11
Year	1939	1939	1939	1915	1915	1949	1949	1949	1949	1949
Period	←				1901-1958					→ 91-58
Des Moines*	0.78	1.12	1.36	1.91	2.65	3.44	4.80	4.86	4.87	5.37
Month, Day	6/6	7/19	7/19	5/10	8/14	7/14	6/24	9/16	9/16	6/11
Year	1961	1904	1904	1912	1908	1907	1879	1914	1914	1947
Period	← 1897-1961 →						← 1879-1961 →			
Dubuque	0.80	1.20	1.54	2.60	2.88	3.24	4.55	4.55	5.48	6.28
Month, Day	7/9	7/9	7/9	7/5	7/5	6/14	7/4	7/4	9/8	7/1
Year	1919	1919	1919	1953	1953	1938	1876	1876	1927	1961
Period	← 1902-1961 →						← 1874-1961 →			
Keokuk	0.69	1.05	1.33	1.95	2.56	3.11	3.33	4.39	4.99	5.88
Month, Day	5/26	8/1	8/1	8/1	8/1	8/1	6/29	6/28	6/28	6/28
Year	1939	1932	1932	1932	1932	1932	1933	1933	1933	1933
Period	←				1907-1941					→
Sioux City*	0.77	1.40	1.75	2.73	2.94	3.43	3.58	4.02	5.11	5.12
Month, Day	7/21	7/21	7/21	6/13	7/21	8/21	6/3	6/3	6/3	6/3
Year	1928	1928	1928	1930	1928	1961	1940	1940	1940	1940
Period	←				1907-1961					→ 91-61

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
KANSAS										
Concordia	0.90	1.39	1.81	2.60	3.63	4.31	4.64	4.97	5.62	6.46
Month, Day	8/16	8/16	8/16	8/16	6/17	5/8	5/8	6/23	7/27	5/7
Year	1944	1944	1944	1944	1915	1950	1950	1904	1907	1950
Period	←			1908-1961	→			←1904-1961→		86-61
Dodge City*	0.68	1.09	1.35	2.34	3.47	4.85	5.13	5.32	5.77	6.03
Month, Day	5/14	8/19	8/1	6/30	9/16	9/16	9/16	9/16	6/8	6/7
Year	1958	1933	1927	1944	1906	1906	1906	1906	1899	1899
Period	←	1896-1961	→		←		1891-1961	→		76-61
Goodland*	0.45	0.80	1.08	1.63	2.00	2.20	2.20	2.20	2.20	3.84
Month, Day	6/21	6/21	6/21	6/21	6/21	6/21	6/21	6/21	6/21	6/6
Year	1951	1951	1951	1951	1951	1951	1951	1951	1951	1943
Period	←				1950-1961	→				07-61
Iola	0.97	1.37	1.60	2.36	2.92	3.69	4.49	5.17	6.76	6.80
Month, Day	10/1	10/1	10/1	9/6	7/18	9/6	9/6	9/12	9/12	9/6
Year	1923	1923	1923	1915	1917	1915	1915	1926	1926	1915
Period	←				1906-1931					→
Topeka	0.67	1.19	1.52	2.92	4.16	4.77	4.79	4.85	7.71	8.08
Month, Day	9/14	8/13	8/13	8/13	8/13	8/13	8/13	8/13	9/6	9/6
Year	1930	1949	1949	1949	1949	1949	1949	1949	1909	1909
Period	←				1900-1961	→				89-61
Wichita	0.66	1.10	1.52	2.31	3.28	3.54	4.93	6.68	7.89	7.99
Month, Day	9/6	6/14	6/14	7/31	7/31	9/6	9/7	9/6	9/6	9/6
Year	1911	1931	1931	1950	1950	1911	1911	1911	1911	1911
Period	←				1903-1961	→				89-61
KENTUCKY										
Lexington	0.76	1.20	1.54	2.43	3.15	4.10	6.17	7.44	8.01	8.06
Month, Day	8/11	8/11	7/3	7/3	7/3	8/2	8/2	8/2	8/2	8/1
Year	1957	1957	1931	1931	1931	1932	1932	1932	1932	1932
Period	←	1899-1933 and 1946-1961	→		←		1899-1961	→		88-61
Louisville	0.79	1.16	1.45	1.91	2.91	4.35	4.55	4.66	5.12	5.80
Month, Day	8/29	8/29	8/29	7/4	7/4	7/4	7/4	7/4	6/23	3/18
Year	1917	1917	1917	1896	1896	1896	1896	1896	1960	1943
Period	←				1896-1961	→				72-61
LOUISIANA										
Baton Rouge*	0.55	1.06	1.57	2.02	2.41	3.65	4.55	4.86	4.96	8.40
Month, Day	7/29	8/1	8/1	8/1	8/1	5/2	5/2	5/2	5/2	3/12
Year	1953	1959	1959	1959	1959	1954	1954	1954	1954	1947
Period	←				1948-1961	→				45-61
Lake Charles	0.68	1.34	1.72	2.17	3.95	6.52	9.70	15.38	15.79	16.01
Month, Day	4/29	4/29	4/29	4/29	6/19	6/19	6/19	6/19	6/19	6/18
Year	1960	1960	1960	1960	1947	1947	1947	1947	1947	1947
Period	←	1953-1961	→		←		1940-1961	→		39-61
New Orleans	1.00	1.48	1.90	3.18	4.71	5.87	6.54	8.62	12.76	14.01
Month, Day	2/5	4/25	4/25	4/25	4/25	4/25	4/15	9/6	4/15	4/15
Year	1955	1953	1953	1953	1953	1953	1927	1929	1927	1927
Period	←	1896-1961	→		←		1889-1961	→		72-61
Shreveport	0.76	1.29	1.74	2.28	3.15	5.19	6.49	7.54	8.52	12.44
Month, Day	6/25	6/25	6/25	8/28	5/13	7/23	7/23	7/23	7/24	7/24
Year	1932	1932	1932	1940	1908	1905	1905	1905	1933	1933
Period	←	1902-1952 and 1961	→		←	1902-1952 and 1960-1961			→	91-61
MAINE										
Caribou	0.33	0.58	0.77	0.88	1.40	2.30	2.98	4.64	5.68	6.23
Month, Day	8/20	8/20	7/24	7/15	9/11	9/11	9/11	9/11	9/11	9/11
Year	1960	1960	1959	1957	1954	1954	1954	1954	1954	1954
Period	←	1952-1961	→		←		1940-1961			→
Eastport	0.72	0.87	1.06	1.37	1.61	2.03	2.10	3.01	3.57	5.48
Month, Day	7/14	7/22	7/22	7/22	6/27	6/27	6/27	8/26	9/17	5/16
Year	1952	1943	1943	1943	1950	1950	1950	1922	1933	1881
Period	←	1896-1952	→		←		1890-1961	→		74-61
Portland	0.51	0.78	1.09	1.49	2.11	3.40	4.51	5.84	7.09	7.49
Month, Day	7/22	7/22	9/8	9/8	9/11	9/11	9/11	9/11	9/11	9/11
Year	1947	1947	1913	1913	1954	1954	1954	1954	1954	1954
Period	←	1896-1961	→		←		1893-1961			→

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
MARYLAND										
Baltimore	0.80	1.39	1.92	2.75	3.47	4.40	4.40	4.59	6.50	7.82
Month, Day	7/12	7/12	7/12	7/12	6/28	6/28	6/28	10/9	8/23	8/12
Year	1903	1903	1903	1903	1953	1953	1953	1922	1933	1955
Period	← 1896-1961 →				← 1893-1961 →					71-61
Baltimore AP	0.58	0.96	1.18	1.70	2.82	3.15	3.46	3.95	5.63	8.35
Month, Day	6/23	8/5	8/5	7/13	9/1	9/1	8/8	9/1	8/12	8/12
Year	1955	1959	1959	1960	1952	1952	1953	1952	1955	1955
Period	← 1951-1961 →									
Frederick	0.80	1.10	1.50	2.70	3.80	4.32	4.35	4.35	4.85	5.56
Month, Day	7/16	7/16	8/20	8/20	8/20	8/20	8/20	8/20	8/20	8/12
Year	1961	1961	1952	1952	1952	1952	1952	1952	1952	1955
Period	← 1952-1961 →									49-61
MASSACHUSETTS										
Boston	0.56	0.95	1.25	1.63	2.10	2.85	4.05	5.46	6.74	8.40
Month, Day	8/7	7/10	7/10	7/10	7/10	7/10	8/19	8/19	8/19	8/18
Year	1908	1955	1955	1955	1955	1955	1955	1955	1955	1955
Period	← 1896-1961 →				← 1892-1961 →					
Nantucket	0.46	0.72	0.97	1.88	2.31	3.00	3.35	3.84	5.43	5.73
Month, Day	1/5	7/29	7/29	7/29	10/20	10/20	10/20	9/15	8/14	8/14
Year	1954	1958	1958	1958	1910	1910	1910	1938	1889	1889
Period	← 1896-1961 →				← 1893-1961 →				←1886-1961→	
Pittsfield*	0.50	0.82	1.05	1.69	2.00	2.36	2.63	3.07	3.12	5.31
Month, Day	7/25	6/21	9/3	6/21	6/21	6/28	6/28	6/28	12/30	12/30
Year	1956	1955	1959	1955	1955	1953	1953	1953	1948	1948
Period	← 1951-1961 →				← 1947-1961 →					44-61
MICHIGAN										
Alpena	0.65	1.10	1.16	1.58	1.90	2.34	2.43	2.54	3.26	4.40
Month, Day	5/29	6/30	7/21	6/6	6/6	8/24	8/24	8/24	9/2	9/2
Year	1914	1939	1957	1915	1915	1922	1922	1922	1937	1937
Period	← 1901-1961 →									91-61
Detroit	0.86	1.40	1.86	2.44	3.09	3.86	4.12	4.51	4.56	4.75
Month, Day	8/17	8/17	8/17	8/17	8/17	8/17	8/17	8/17	7/28	7/31
Year	1926	1926	1926	1926	1926	1926	1926	1926	1909	1925
Period	← 1896-1961 →				← 1889-1961 →					
Detroit W. Run AP*	0.64	0.95	1.20	1.68	1.85	2.18	2.32	2.84	3.17	4.78
Month, Day	9/1	6/17	6/17	6/17	9/1	7/21	7/21	7/21	7/21	8/29
Year	1961	1956	1956	1956	1961	1951	1951	1951	1951	1947
Period	← 1951-1961 →				← 1948-1961 →					47-61
Escanaba	0.80	1.32	1.61	1.82	2.14	3.16	3.21	3.41	4.72	5.05
Month, Day	7/11	7/21	7/21	7/21	9/1	7/26	7/26	7/26	9/1	8/31
Year	1959	1903	1903	1903	1937	1951	1951	1951	1937	1937
Period	← 1899-1961 →									89-61
Grand Haven	0.46	0.74	0.95	1.48	1.74	2.62	2.74	3.56	4.19	4.19
Month, Day	10/3	8/9	8/9	6/21	6/21	7/21	7/21	7/21	8/2	8/2
Year	1919	1906	1906	1914	1914	1907	1907	1907	1915	1915
Period	← 1906-1932 →									
Grand Rapids*	0.59	0.89	1.10	1.71	2.21	2.77	2.78	3.26	4.17	4.58
Month, Day	9/10	9/10	6/26	6/26	6/26	6/26	6/26	8/19	8/19	6/5
Year	1915	1915	1909	1909	1909	1909	1909	1939	1939	1905
Period	← 1905-1961 →									
Houghton*	0.48	0.80	1.01	1.44	1.62	1.81	1.81	3.07	3.07	3.70
Month, Day	4/25	7/3	7/3	7/3	7/3	7/3	9/19	9/19	9/19	9/2
Year	1921	1929	1929	1929	1929	1929	1907	1907	1907	1905
Period	← 1901-1932 →									
Lansing	0.70	0.93	1.22	1.58	2.06	2.23	2.56	2.62	4.08	5.47
Month, Day	8/17	8/28	8/10	7/7	7/7	8/29	9/5	9/5	6/5	6/5
Year	1921	1940	1937	1923	1923	1932	1917	1917	1905	1905
Period	← 1910-1961 →								←1902-1961→	
Ludington	0.54	0.86	1.13	1.54	2.50	3.26	3.75	3.76	4.21	4.22
Month, Day	7/24	6/26	6/26	8/26	8/26	9/13	9/13	9/13	9/13	9/13
Year	1921	1931	1931	1921	1921	1931	1931	1931	1931	1931
Period	← 1913-1932 →									
Marquette	0.74	0.82	1.23	1.70	2.93	3.79	3.93	3.95	4.40	5.14
Month, Day	9/20	7/10	9/3	6/23	6/23	6/23	7/28	6/23	6/2	6/20
Year	1934	1952	1939	1907	1907	1907	1949	1907	1916	1878
Period	← 1906-1961 →				← 1904-1961 →					78-61

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
MICHIGAN (cont.)										
Muskegon*	0.41	0.65	0.75	1.25	1.62	2.15	2.35	2.45	3.45	3.51
Month, Day	10/3	6/17	8/15	7/18	5/23	5/23	7/18	7/18	9/21	9/21
Year	1954	1956	1959	1959	1955	1955	1959	1959	1947	1947
Period	← 1952-1961 →				← 1941-1961 →					38-61
Port Huron	0.48	0.80	1.10	1.90	2.39	2.42	2.69	3.22	4.11	4.11
Month, Day	7/24	7/20	7/20	7/20	7/20	7/20	7/24	7/24	7/24	7/24
Year	1910	1916	1916	1916	1916	1916	1910	1910	1910	1910
Period	← 1904-1932 →									
Saginaw	0.71	1.14	1.55	1.94	2.20	2.24	2.24	2.84	2.94	3.97
Month, Day	7/27	7/27	7/27	7/27	7/27	7/27	7/27	8/18	8/18	8/9
Year	1913	1913	1913	1913	1913	1913	1913	1914	1914	1913
Period	← 1913-1925 →									
Sault Ste. Marie*	0.65	0.85	0.93	1.10	1.37	1.75	2.30	3.62	5.10	5.64
Month, Day	8/7	8/7	8/7	7/7	8/25	9/4	9/4	9/4	9/4	9/3
Year	1916	1916	1916	1921	1941	1916	1916	1916	1916	1916
Period	← 1901-1961 →				← 1900-1961 →					91-61
MINNESOTA										
Duluth	0.59	1.03	1.34	2.14	2.51	2.69	2.82	3.40	3.97	5.35
Month, Day	8/18	6/23	6/23	6/21	6/21	6/21	7/21	6/30	7/21	7/21
Year	1908	1952	1952	1957	1957	1957	1909	1958	1909	1909
Period	← 1905-1961 →									
International Falls	0.80	1.03	1.14	1.34	1.45	2.15	2.68	2.69	2.94	4.82
Month, Day	7/24	7/24	7/24	7/24	7/6	9/7	7/6	7/6	9/17	8/30
Year	1960	1960	1960	1960	1955	1942	1955	1955	1955	1942
Period	← 1953-1961 →				← 1940-1961 →					95-61
Minneapolis	0.81	1.05	1.17	1.98	2.27	2.99	3.87	4.30	4.56	7.80
Month, Day	9/1	9/1	6/26	8/22	8/22	7/27	7/27	10/19	10/19	7/26
Year	1926	1926	1914	1914	1914	1949	1949	1934	1934	1892
Period	← 1904-1961 →									91-61
Rochester	0.90	1.14	1.39	2.09	2.51	4.00	4.70	4.97	5.15	5.26
Month, Day	5/30	5/30	6/10	8/29	6/4	7/20	7/26	7/26	7/26	7/26
Year	1958	1958	1961	1956	1958	1951	1949	1949	1949	1949
Period	← 1953-1961 →				← 1942-1961 →					13-61
St. Cloud	1.29	1.95	2.31	2.68	3.11	3.12	3.12	3.12	3.47	4.62
Month, Day	8/4	8/4	8/4	8/4	8/4	8/4	8/4	8/4	8/27	8/2
Year	1958	1958	1958	1958	1958	1958	1958	1958	1960	1956
Period	← 1950-1961 →				← 1940-1961 →					36-61
St. Paul	0.61	1.01	1.33	2.13	2.60	3.00	3.04	3.15	5.67	5.69
Month, Day	6/14	6/14	6/14	6/14	6/14	6/14	6/14	6/14	7/26	7/26
Year	1924	1924	1924	1924	1924	1924	1924	1924	1892	1892
Period	← 1896-1932 →								← 1891-1932 →	
MISSISSIPPI										
Jackson*	0.64	0.90	1.18	1.78	2.27	3.43	4.15	4.87	5.60	7.42
Month, Day	11/7	11/7	7/12	4/21	5/1	5/1	12/27	12/27	12/27	12/26
Year	1957	1957	1949	1951	1954	1954	1942	1942	1942	1942
Period	← 1948-1961 →				← 1940-1961 →					96-61
Meridian	0.71	1.12	1.57	2.64	3.66	5.65	6.72	6.95	6.95	9.50
Month, Day	5/12	3/15	3/15	3/15	8/13	7/2	7/2	7/2	7/2	4/16
Year	1922	1938	1938	1938	1906	1959	1959	1959	1959	1900
Period	← 1900-1961 →				← 1899-1961 →					91-61
Vicksburg	0.83	1.20	1.41	2.44	3.44	4.17	5.78	7.10	8.73	9.97
Month, Day	4/12	5/12	8/19	8/22	8/22	2/17	2/17	7/13	4/29	3/27
Year	1909	1923	1918	1960	1960	1927	1927	1907	1953	1951
Period	← 1896-1961 →				← 1893-1961 →					
MISSOURI										
Columbia	0.82	1.31	1.63	2.11	2.73	3.29	4.37	5.86	6.61	6.61
Month, Day	5/27	5/27	5/27	7/30	6/29	9/2	9/2	9/2	9/2	9/2
Year	1945	1945	1945	1943	1909	1918	1918	1918	1918	1918
Period	← 1898-1957 →				← 1898-1961 →					
Hannibal	0.56	0.99	1.39	1.91	2.95	4.67	4.79	4.98	5.19	5.83
Month, Day	7/7	8/18	8/18	6/19	6/19	6/19	6/19	6/19	6/19	9/3
Year	1915	1906	1906	1930	1930	1930	1930	1930	1930	1926
Period	← 1900-1932 →									

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
MISSOURI (cont.)										
Kansas City	0.80	1.16	1.65	3.08	4.79	5.84	5.93	5.93	6.94	7.03
Month, Day	5/31	9/15	8/23	8/23	8/23	8/23	8/23	8/23	9/6	9/6
Year	1896	1914	1906	1906	1906	1906	1906	1906	1914	1914
Period	← 1896-1961 →				← 1891-1961 →					
St. Joseph*	0.85	1.65	2.05	2.55	2.97	4.07	4.92	6.31	6.31	6.89
Month, Day	5/15	5/15	5/15	5/15	6/8	6/3	6/3	6/3	6/3	6/15
Year	1958	1958	1958	1958	1920	1925	1925	1925	1925	1943
Period	← 1910-1961 →									
St. Louis	0.88	1.04	1.39	2.56	3.47	3.80	4.49	5.82	8.48	8.78
Month, Day	3/5	8/8	8/8	8/8	7/23	6/14	6/14	7/9	6/14	8/15
Year	1897	1923	1923	1923	1933	1957	1957	1942	1957	1946
Period	← 1896-1961 →				← 1889-1961 →					71-61
Springfield	0.85	1.48	1.74	2.22	2.42	3.25	3.86	5.42	6.55	6.85
Month, Day	10/2	10/2	10/2	10/2	5/26	6/26	7/7	7/7	7/7	7/6
Year	1944	1944	1944	1944	1953	1932	1909	1909	1909	1958
Period	← 1904-1961 →				← 1902-1961 →					88-61
MONTANA										
Billings	0.80	1.00	1.22	1.86	1.86	1.86	1.86	1.86	1.86	2.83
Month, Day	7/2	7/2	7/2	7/2	7/2	7/2	7/2	7/2	7/2	5/21
Year	1958	1958	1958	1958	1958	1958	1958	1958	1958	1952
Period	← 1941-1961 →									31-61
Great Falls	0.54	0.83	1.05	1.33	1.51	1.71	1.72	1.72	1.99	3.36
Month, Day	8/9	8/9	8/9	8/9	8/9	8/9	8/9	8/9	5/29	6/23
Year	1950	1950	1950	1950	1950	1950	1950	1950	1953	1907
Period	← 1942-1961 →									92-61
Havre	0.52	0.89	1.12	1.46	1.60	1.80	1.86	2.71	2.88	3.71
Month, Day	6/22	6/22	6/22	6/22	7/26	7/26	7/26	6/16	6/16	6/15
Year	1938	1938	1938	1938	1916	1916	1916	1887	1887	1887
Period	← 1904-1961 →							← 1884-1961 →		
Helena	0.47	0.64	0.76	0.89	1.06	1.34	1.44	1.71	2.53	3.67
Month, Day	6/29	7/17	7/17	7/10	9/3	9/3	9/3	6/4	6/4	6/4
Year	1909	1916	1916	1955	1911	1911	1911	1908	1908	1908
Period	← 1903-1961 →									91-61
Kalispell	0.44	0.76	0.90	1.00	1.39	1.41	1.48	1.50	1.93	2.20
Month, Day	8/10	8/10	8/10	8/10	8/1	8/1	8/1	8/1	6/6	6/6
Year	1920	1920	1920	1920	1948	1948	1948	1948	1924	1924
Period	← 1900-1948 and 1954-1961 →				← 1900-1961 →					
Miles City	0.78	1.09	1.14	1.26	1.26	1.26	1.62	2.29	2.38	3.74
Month, Day	7/27	8/1	8/1	8/1	8/1	8/1	7/6	7/6	7/6	5/19
Year	1940	1937	1937	1937	1937	1937	1928	1928	1928	1908
Period	← 1923-1942 →									92-61
Missoula	0.30	0.48	0.76	1.11	1.36	1.51	1.55	1.55	2.32	2.32
Month, Day	6/19	6/11	6/11	6/11	6/11	6/11	6/11	6/11	11/5	11/5
Year	1958	1958	1958	1958	1958	1958	1958	1958	1927	1927
Period	← 1936-1961 →								←1893-1961→	
NEBRASKA										
Drexel	0.59	0.79	1.19	1.60	2.08	2.89	3.12	3.20	3.22	5.31
Month, Day	4/22	6/28	9/28	6/28	6/28	7/8	7/8	7/8	7/8	9/28
Year	1919	1919	1923	1919	1919	1925	1925	1925	1925	1923
Period	← 1915-1926 →									
Grand Is.*	0.67	0.95	1.10	1.85	2.75	3.20	3.70	3.99	5.35	5.41
Month, Day	5/13	5/13	5/13	7/11	7/11	7/13	7/13	7/13	7/8	7/8
Year	1961	1961	1961	1961	1961	1952	1952	1952	1950	1950
Period	← 1952-1961 →								←1929-1961→	
Lincoln	0.69	1.26	1.70	2.58	3.11	3.54	3.89	6.49	8.38	8.38
Month, Day	7/1	7/1	7/1	7/25	7/25	6/5	7/5	8/28	8/28	8/28
Year	1906	1906	1906	1914	1914	1914	1908	1910	1910	1910
Period	← 1898-1961 →									
Norfolk	0.65	0.85	1.08	1.45	1.78	2.31	2.57	3.38		7.78
Month, Day	7/11	7/11	7/27	7/31	6/1	7/8	6/1	6/1		6/3
Year	1956	1956	1961	1961	1949	1949	1949	1949		1940
Period	←1951-1961→		← 1948-1961 →							98-61
North Platte*	0.60	0.97	1.30	1.80	3.14	3.77	3.82	3.82	5.52	6.32
Month, Day	9/3	7/16	6/27	8/11	8/11	8/28	8/28	8/28	9/1	9/1
Year	1920	1937	1955	1950	1950	1929	1929	1929	1942	1942
Period	← 1906-1961 →									91-61

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Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
NEBRASKA (cont.)										
Omaha	1.00	1.49	1.86	2.32	2.62	3.17	4.14	4.45	5.89	7.03
Month, Day	5/17	5/17	5/17	5/17	5/17	8/26	9/28	9/28	8/26	8/26
Year	1936	1936	1936	1936	1936	1903	1923	1923	1903	1903
Period	← 1896-1961 →				← 1893-1961 →					71-61
Scottsbluff	0.67	1.12	1.33	1.84	2.27	2.54	2.58	2.82	3.26	3.74
Month, Day	6/25	7/18	7/18	7/18	9/2	9/2	9/2	9/2	9/2	6/6
Year	1954	1957	1957	1957	1951	1951	1951	1951	1951	1953
Period	← 1952-1961 →				← 1950-1961 →					93-61
Valentine	0.80	1.41	1.87	2.52	3.02	3.34	3.66	3.76	4.01	4.21
Month, Day	7/6	7/6	7/6	7/6	8/12	5/29	5/29	5/29	7/6	5/25
Year	1915	1915	1915	1915	1909	1949	1949	1949	1915	1920
Period	←				1901-1961	→				91-61
NEVADA										
Elko*	0.20	0.35	0.40	0.62	0.94	0.96	0.96	1.01		3.30
Month, Day	8/12	8/6	8/6	8/6	7/1	7/1	7/1	7/7		4/22
Year	1958	1961	1961	1961	1950	1950	1950	1950		1925
Period	← 1950-1961 →				← 1941-1961 →					05-61
Ely	0.27	0.39	0.50	0.59	0.87	1.01	1.20	1.20	1.21	1.42
Month, Day	7/16	10/3	10/3	10/3	7/24	7/24	7/24	7/4	5/31	5/30
Year	1941	1943	1943	1943	1952	1952	1952	1952	1955	1955
Period	←				1939-1961					→
Reno*	0.32	0.54	0.69	0.86	0.93	0.95	0.95	1.49	1.68	2.71
Month, Day	8/2	8/13	8/13	8/2	8/2	4/15	4/15	6/29	6/29	1/27
Year	1912	1931	1931	1912	1912	1934	1934	1920	1920	1903
Period	←				1906-1961	→				88-61
Tonopah*	0.21	0.37	0.45	0.62	0.86	1.02	1.03	1.20	1.20	1.97
Month, Day	8/21	8/21	8/21	8/21	8/2	8/2	8/2	8/23	8/2	4/29
Year	1906	1906	1906	1906	1945	1945	1945	1955	1945	1915
Period	← 1906-1923 →				← 1906-1923 and 1940-1961 →					
Winnemucca*	0.40	0.57	0.77	1.02	1.10	1.10	1.10	1.35	1.56	1.79
Month, Day	6/23	6/23	6/23	6/23	6/10	6/10	6/10	6/10	6/19	6/10
Year	1945	1945	1945	1945	1958	1958	1958	1958	1914	1958
Period	←				1906-1961	→				77-61
NEW HAMPSHIRE										
Concord	0.66	1.12	1.60	2.53	2.71	2.73	3.56	3.82	5.53	5.97
Month, Day	7/15	7/7	7/7	7/7	7/7	7/7	6/21	6/20	9/16	9/16
Year	1927	1907	1907	1907	1907	1907	1944	1944	1932	1932
Period	← 1905-1932 and 1938-1961 →				← 1902-1961 →					91-61
NEW JERSEY										
Atlantic City	0.87	1.19	1.45	2.66	3.98	5.15	5.41	6.04	8.08	9.21
Month, Day	5/31	5/31	8/21	8/21	8/21	8/21	8/21	8/13	8/13	10/8
Year	1906	1906	1933	1933	1933	1933	1933	1919	1919	1903
Period	←				1897-1961	→				91-61
Newark	0.90	1.32	1.47	1.66	1.73	2.35	2.70	3.32	4.37	4.59
Month, Day	6/29	6/29	6/29	6/29	8/9	8/9	7/21	9/13	9/13	9/12
Year	1952	1952	1952	1952	1959	1959	1948	1944	1944	1944
Period	← 1951-1961 →				← 1944-1961 →					31-61
Sandy Hook	0.65	1.01	1.15	1.63	2.39	3.28	3.54	4.16	4.34	5.14
Month, Day	7/22	8/10	7/22	7/15	8/10	7/15	7/15	7/15	9/18	9/20
Year	1930	1931	1930	1921	1928	1921	1921	1921	1936	1938
Period	← 1915-1940 →				← 1915-1950 →					
Trenton	0.71	1.17	1.68	2.57	2.90	3.18	3.57	4.04	5.30	5.42
Month, Day	8/7	8/7	8/7	8/7	8/7	8/7	8/7	8/7	8/7	10/8
Year	1955	1955	1955	1955	1955	1955	1955	1921	1921	1903
Period	←				1913-1961	→				88-61
NEW MEXICO										
Albuquerque*	0.50	0.85	1.10	1.39	1.63	1.96	2.09	2.13	2.14	2.26
Month, Day	9/24	9/24	9/24	7/8	7/8	6/17	6/17	6/17	6/17	9/27
Year	1955	1955	1955	1961	1961	1933	1933	1933	1933	1893
Period	←				1931-1961	→				92-61
Raton	1.25	1.48	1.58	1.71	1.80	1.89	1.89	2.30	3.58	5.26
Month, Day	5/25	5/25	5/25	5/25	8/18	8/18	8/18	9/1	9/1	8/31
Year	1958	1958	1958	1958	1958	1958	1958	1942	1942	1942
Period	← 1957-1961 →				← 1940-1953 and 1956-1961 →					

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
NEW MEXICO (cont.)										
Roswell	0.55	1.01	1.34	1.71	2.22	2.88	3.38	4.82	5.19	5.65
Month, Day	6/6	6/6	5/12	5/12	9/14	9/16	8/8	8/7	8/7	10/31
Year	1930	1930	1950	1950	1923	1923	1916	1916	1916	1901
Period	←				1905-1961		→			95-61
Santa Fe	0.46	0.62	0.77	1.03	1.16	1.65	1.68	1.88	2.81	2.83
Month, Day	6/27	7/19	8/12	8/12	9/3	9/22	9/22	9/22	9/22	9/22
Year	1937	1938	1922	1922	1909	1929	1929	1929	1929	1929
Period	←				1908-1940					→
NEW YORK										
Albany	0.60	1.05	1.19	2.12	2.97	4.10	4.10	4.12	4.12	4.75
Month, Day	7/9	7/9	7/20	7/9	7/9	7/9	7/9	7/9	7/9	10/8
Year	1938	1938	1945	1938	1938	1938	1938	1938	1938	1903
Period	←				1897-1961		→			73-61
Binghamton*	0.80	1.28	1.78	2.64	3.01	3.04	3.06	3.10	3.69	4.55
Month, Day	6/17	6/17	6/17	6/17	6/17	6/17	6/17	7/8	7/8	9/29
Year	1960	1960	1960	1960	1960	1960	1960	1915	1915	1924
Period	←	1901-1961	→		←		1899-1961		→	90-61
Buffalo	0.82	1.02	1.52	1.65	2.22	2.79	3.08	3.54	3.64	4.28
Month, Day	3/20	7/1	7/1	7/1	7/19	7/24	7/24	8/17	8/17	8/28
Year	1897	1953	1953	1953	1911	1910	1910	1944	1944	1893
Period	←	1896-1961	→		←		1890-1961		→	71-61
Canton	0.55	0.78	1.06	1.74	2.45	4.20	4.49	4.49	4.49	5.07
Month, Day	8/3	7/16	7/16	7/16	6/18	6/18	6/18	6/18	6/18	6/18
Year	1949	1925	1925	1925	1940	1940	1940	1940	1940	1940
Period	←				1907-1950					→
Ithaca	0.63	1.05	1.46	2.34	2.70	3.24	3.24	4.26	6.64	7.90
Month, Day	7/24	7/24	7/24	7/24	7/24	8/15	8/15	7/7	7/7	7/7
Year	1918	1918	1918	1918	1918	1947	1947	1935	1935	1935
Period	← 1911-1923 and 1928-1942 →				←		1900-1950		→	77-50
New York	0.75	1.26	1.63	2.34	2.97	3.52	3.80	4.44	6.30	9.55
Month, Day	8/12	7/10	7/10	8/12	8/26	8/26	10/1	10/1	10/8	10/8
Year	1926	1905	1905	1926	1947	1947	1913	1913	1903	1903
Period	←	1896-1961	→		←		1889-1961		→	71-61
N Y La Guardia AP	0.50	0.81	1.09	1.32	1.99	2.44	2.69	3.53	4.91	7.11
Month, Day	7/30	10/7	10/7	11/4	8/16	8/16	8/13	8/13	8/11	8/11
Year	1949	1951	1951	1950	1944	1944	1955	1955	1955	1955
Period	←	1949-1961	→		←		1940-1961			→
Oswego*	0.74	1.21	1.28	1.32	1.63	1.95	2.62	2.67	2.88	3.76
Month, Day	7/3	7/3	7/3	7/3	9/13	6/8	7/5	7/5	7/16	8/28
Year	1915	1915	1915	1915	1925	1919	1945	1945	1911	1893
Period	←				1907-1952		→			71-52
Rochester	0.65	0.91	1.33	2.29	2.55	2.88	3.06	3.37	3.65	4.19
Month, Day	6/25	7/7	6/23	6/23	6/23	7/11	7/11	7/11	8/28	8/28
Year	1958	1935	1950	1950	1950	1897	1897	1897	1893	1893
Period	←	1896-1961	→		←		1893-1961		→	71-61
Syracuse	0.61	0.95	1.16	1.86	2.65	4.04	4.56	4.61	4.79	4.79
Month, Day	6/16	6/16	7/10	8/13	6/11	6/17	6/17	6/17	6/11	6/11
Year	1944	1944	1919	1943	1922	1922	1922	1922	1922	1922
Period	←				1903-1961					→
NORTH CAROLINA										
Asheville	0.83	1.41	1.71	2.13	2.70	2.82	3.00	4.18	5.51	7.92
Month, Day	8/18	8/18	8/18	8/12	8/12	8/12	5/9	10/25	10/24	10/24
Year	1918	1918	1918	1911	1911	1911	1909	1918	1918	1918
Period	←				1903-1961					→
Cape Hatteras	0.65	1.21	1.72	3.04	5.35	5.86	6.37	8.00	11.19	14.93
Month, Day	9/5	9/5	9/5	9/5	9/5	9/5	7/20	6/30	6/30	6/30
Year	1928	1928	1928	1928	1928	1928	1953	1949	1949	1949
Period	←	1905-1961	→		←		1900-1961		→	75-61
Charlotte	0.63	1.11	1.56	2.33	2.81	3.29	3.98	5.18	6.59	6.59
Month, Day	8/15	8/23	8/23	8/23	7/1	9/13	9/13	7/1	7/1	7/1
Year	1928	1934	1934	1934	1944	1933	1933	1944	1944	1944
Period	←	1902-1961	→		←		1901-1961		→	79-61
Greensboro	0.60	1.04	1.38	2.20	2.84	2.85	3.03	5.27	6.90	7.49
Month, Day	7/14	7/14	7/14	7/14	7/14	7/14	10/10	9/24	9/24	9/24
Year	1944	1944	1944	1944	1944	1944	1959	1947	1947	1947
Period	←				1929-1961					→

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
NORTH CAROLINA (cont.)										
Raleigh	0.75	1.38	1.74	2.60	3.26	4.17	4.57	5.19	5.63	6.66
Month, Day	7/14	7/14	7/14	7/14	7/2	7/4	7/4	9/20	9/20	9/30
Year	1914	1914	1914	1914	1946	1931	1931	1947	1947	1929
Period	←				1897-1961				→	88-61
Wilmington	0.89	1.60	2.09	2.60	3.49	5.01	5.04	8.27	9.26	9.52
Month, Day	8/13	8/13	8/13	9/23	7/20	7/20	7/20	9/29	9/29	9/29
Year	1951	1951	1951	1923	1924	1924	1924	1938	1938	1938
Period	←	1896-1961		→	←		1891-1961		→	71-61
NORTH DAKOTA										
Bismarck	0.75	1.10	1.49	2.49	3.07	3.35	3.38	3.56	3.60	3.76
Month, Day	9/11	9/11	6/3	6/3	8/9	8/9	8/9	8/9	8/9	6/26
Year	1930	1930	1947	1947	1909	1909	1909	1909	1909	1914
Period	←				1909-1961				→	75-61
Devils Lake	0.93	1.45	1.84	2.44	2.70	4.31	4.49	4.76	4.82	4.82
Month, Day	6/8	6/8	6/8	6/14	6/14	7/14	7/14	7/14	7/14	7/14
Year	1929	1929	1929	1920	1920	1905	1905	1905	1905	1905
Period	←				1905-1961					→
Ellendale	0.65	1.12	1.40	1.85	2.66	3.42	4.69	5.25	5.54	5.58
Month, Day	7/2	7/2	7/2	6/22	6/22	8/30	8/30	8/30	8/30	8/30
Year	1921	1921	1921	1925	1925	1926	1926	1926	1926	1926
Period	←				1918-1932					→
Fargo	0.68	1.10	1.37	1.98	2.72	3.25	4.05	4.72	4.72	5.17
Month, Day	8/29	8/29	6/26	8/29	8/29	8/29	8/8	8/8	8/8	7/3
Year	1908	1908	1915	1942	1942	1942	1943	1943	1943	1886
Period	←				1908-1961				→	81-61
Williston	0.67	0.99	1.20	2.09	2.91	3.03	3.05	3.05	3.05	4.16
Month, Day	6/12	7/3	7/3	6/9	6/9	6/9	6/9	6/9	6/9	5/18
Year	1919	1926	1926	1932	1932	1932	1932	1932	1932	1893
Period	←				1909-1961				→	79-61
OHIO										
Akron	0.65	1.20	1.50	2.40	4.38	5.57	5.84	5.95	5.96	5.96
Month, Day	7/7	7/7	7/7	7/7	7/7	7/7	7/7	7/7	7/7	7/7
Year	1943	1943	1943	1943	1943	1943	1943	1943	1943	1943
Period	←	1931-1945		→	←		1931-1952		→	88-61
Akron Canton AP	0.80	1.30	1.45	1.82	2.16	2.22	2.40	2.76	3.06	4.18
Month, Day	8/16	8/16	8/16	6/16	6/16	6/16	6/16	7/19	7/30	7/30
Year	1954	1954	1954	1953	1953	1953	1953	1961	1958	1958
Period	←	1952-1961		→	←		1948-1961			→
Cincinnati	0.81	1.45	1.92	2.57	2.63	2.85	3.29	3.76	4.28	5.22
Month, Day	8/7	8/7	8/7	8/7	8/7	6/28	8/9	7/21	3/5	3/12
Year	1920	1920	1920	1920	1920	1924	1960	1925	1897	1907
Period	←	1896-1961		→	←		1889-1961		→	71-61
Cleveland	0.78	1.20	1.46	2.09	2.21	3.02	3.29	3.74	4.09	4.97
Month, Day	8/29	8/19	8/19	6/16	6/16	5/24	5/24	9/1	9/1	9/1
Year	1903	1901	1901	1946	1946	1955	1955	1901	1901	1901
Period	←	1896-1961		→	←		1890-1961		→	71-61
Columbus	0.67	1.04	1.31	2.22	2.83	3.03	3.71	3.80	3.91	4.81
Month, Day	7/15	6/23	6/23	7/11	7/11	7/11	7/11	7/11	9/12	1/20
Year	1947	1901	1901	1897	1897	1897	1897	1897	1938	1959
Period	←				1897-1961				→	79-61
Dayton	0.57	0.92	1.22	1.75	2.31	3.14	3.16	3.50	3.65	4.56
Month, Day	7/6	7/21	7/21	9/5	7/9	7/9	7/9	9/5	1/21	9/12
Year	1939	1961	1961	1916	1955	1955	1955	1916	1959	1925
Period	←				1912-1961					→
Sandusky	0.60	1.20	1.46	2.04	3.51	3.77	4.03	5.10	5.63	5.95
Month, Day	6/25	6/25	6/25	5/19	7/25	7/25	6/25	6/25	6/25	6/24
Year	1937	1937	1937	1938	1935	1935	1937	1937	1937	1937
Period	←	1903-1961		→	←		1900-1961		→	78-61
Toledo	0.65	1.25	1.78	2.88	3.58	3.65	3.77	4.36	5.88	5.98
Month, Day	8/16	8/16	8/16	8/16	8/16	8/16	8/16	9/4	9/4	9/4
Year	1920	1920	1920	1920	1920	1920	1920	1918	1918	1918
Period	←	1903-1961		→	←		1899-1961		→	71-61
Youngstown	0.64	0.82	0.93	1.35	1.57	1.80	2.60	2.78	3.52	4.31
Month, Day	7/19	6/24	7/11	9/30	11/16	8/5	8/8	8/8	10/15	10/15
Year	1951	1956	1959	1954	1955	1956	1942	1942	1954	1954
Period	←	1951-1961		→	←		1942-1961			→

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
OKLAHOMA										
Broken Arrow	0.64	0.81	1.03	1.48	2.26	3.23	4.16	5.70	6.36	7.02
Month, Day	5/17	8/30	10/6	10/6	8/4	8/4	8/4	8/4	8/3	8/3
Year	1930	1918	1928	1928	1928	1928	1928	1928	1928	1928
Period	← 1918-1931 →									
Oklahoma City	0.85	1.35	1.85	2.97	3.32	4.04	4.61	6.48	7.02	7.87
Month, Day	6/16	6/16	6/16	6/16	6/16	6/3	10/1	6/3	10/1	9/30
Year	1955	1955	1955	1955	1955	1932	1927	1932	1927	1927
Period	← 1900-1961 →				← 1897-1961 →					91-61
Tulsa*	0.73	1.13	1.60	2.78	2.95	3.60	3.81	4.45	5.89	7.30
Month, Day	6/30	5/8	5/8	5/8	5/8	5/19	9/4	9/4	9/4	5/9
Year	1951	1961	1961	1961	1961	1949	1940	1940	1940	1943
Period	← 1943-1961 →				← 1940-1961 →					30-61
OREGON										
Astoria	0.31	0.45	0.57	0.73	0.87	1.35	1.90	2.27		6.98
Month, Day	2/3	11/12	11/12	11/12	11/12	12/21	12/21	12/21		1/22
Year	1953	1958	1958	1958	1958	1955	1955	1955		1919
Period	← 1953-1961 →									84-61
Baker	0.35	0.44	0.47	0.78	0.89	1.09	1.14	1.15	1.53	1.83
Month, Day	7/13	8/15	7/13	7/13	7/13	6/30	6/30	6/26	6/26	9/22
Year	1908	1930	1908	1908	1908	1943	1943	1934	1934	1917
Period	← 1906-1953 →									
Burns*	0.38	0.60	0.74	0.92	1.01	1.28	1.40	1.70	1.80	1.85
Month, Day	6/7	6/3	6/3	6/3	6/3	6/3	6/3	6/3	6/3	6/3
Year	1957	1948	1948	1948	1948	1948	1948	1948	1948	1948
Period	← 1948-1961 →				← 1940-1961 →					
Medford	0.37	0.70	0.90	1.27	1.40	1.50	1.67	1.67	2.32	3.17
Month, Day	9/16	5/18	5/18	5/18	5/18	5/18	5/18	5/18	10/27	1/20
Year	1961	1956	1956	1956	1956	1956	1956	1956	1950	1943
Period	←1953-1961→		←1946-1961→		← 1940-1961 →					12-61
Pendleton	0.21	0.34	0.36	0.37	0.75	0.75	0.75	1.02	1.14	1.49
Month, Day	5/17	5/17	5/17	5/17	6/1	6/1	6/1	5/7	5/7	6/1
Year	1957	1957	1957	1957	1947	1947	1947	1956	1956	1947
Period	← 1952-1961 →				← 1940-1961 →					35-61
Portland*	0.40	0.70	0.93	1.10	1.31	1.74	2.00	2.03		7.66
Month, Day	8/8	8/8	8/8	8/8	6/7	6/7	6/7	6/7		12/12
Year	1900	1900	1900	1900	1927	1927	1927	1927		1882
Period	← 1896-1961 →				← 1890-1961 →					72-61
Roseburg	0.55	0.80	1.10	1.15	1.16	1.17	1.26	1.65	2.49	4.80
Month, Day	5/9	5/9	5/9	5/9	5/9	5/9	10/10	11/15	11/23	11/22
Year	1910	1910	1910	1910	1910	1910	1904	1950	1961	1961
Period	← 1901-1961 →									78-61
Sexton Summit	0.38	0.47	0.58	0.75	1.45	1.48	1.48	2.00	2.98	5.20
Month, Day	8/5	8/5	8/5	7/12	6/9	6/9	6/9	10/28	10/28	10/28
Year	1953	1953	1953	1956	1948	1948	1948	1950	1950	1950
Period	← 1951-1961 →				← 1940-1961 →					
PENNSYLVANIA										
Allentown*	0.50	0.79	1.05	1.75	2.53	2.89	2.98	3.67	4.03	4.79
Month, Day	6/22	5/23	5/22	5/22	5/22	5/22	5/22	9/1	9/1	8/12
Year	1951	1955	1953	1953	1953	1953	1953	1952	1952	1955
Period	← 1951-1961 →				← 1937-1961 →					
Erie	0.98	1.09	1.41	2.02	2.97	4.75	6.32	9.43	10.22	10.42
Month, Day	7/21	7/22	7/22	7/22	7/22	7/22	7/22	7/22	7/22	7/22
Year	1943	1947	1947	1947	1947	1947	1947	1947	1947	1947
Period	← 1902-1952 and 1958-1961 →				← 1897-1952 and 1957-1961 →					74-61
Harrisburg	1.04	1.30	1.50	2.20	2.42	2.84	3.54	4.36	4.92	6.16
Month, Day	8/8	8/8	8/8	8/8	8/18	8/21	9/10	9/10	9/14	5/31
Year	1925	1925	1925	1925	1920	1915	1907	1907	1916	1889
Period	← 1898-1961 →				← 1897-1961 →					89-61
Philadelphia	0.80	1.26	1.38	2.24	3.81	5.48	5.48	5.48	5.63	5.89
Month, Day	6/11	6/11	6/11	8/3	8/3	8/3	8/3	8/3	8/3	8/3
Year	1958	1958	1958	1898	1898	1898	1898	1898	1898	1898
Period	← 1896-1961 →				← 1890-1961 →					71-61
Pittsburgh	0.72	1.09	1.23	1.46	2.09	2.34	2.35	2.45	2.93	4.08
Month, Day	6/26	6/26	6/26	7/4	7/27	6/24	8/15	9/29	9/29	9/17
Year	1931	1931	1931	1903	1943	1951	1941	1936	1936	1876
Period	← 1896-1961 →				← 1895-1961 →					71-61

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Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
PENNSYLVANIA (cont.)										
Pittsburgh AP	0.54	0.86	1.10	1.62	1.81	2.31	2.38	2.43	3.41	3.56
Month, Day	7/9	9/4	9/4	9/4	8/9	8/9	8/9	7/8	10/15	10/15
Year	1956	1958	1958	1958	1953	1953	1953	1957	1954	1954
Period	←				1952-1961					→
Reading	0.61	1.01	1.41	2.05	2.68	4.89	5.04	5.26	5.75	6.08
Month, Day	6/25	7/31	8/7	8/7	7/21	7/21	7/21	7/21	11/25	11/25
Year	1924	1942	1932	1932	1916	1916	1916	1916	1950	1950
Period	←				1913-1961					→
Scranton	0.67	0.98	1.18	1.83	2.36	2.67	2.76	3.20	3.60	5.09
Month, Day	7/28	6/25	6/25	7/24	8/16	7/24	6/20	7/24	7/14	9/29
Year	1922	1949	1949	1933	1935	1933	1936	1933	1945	1924
Period	←				1901-1961					→
PUERTO RICO										
San Juan	0.79	1.02	1.43	2.23	3.48	4.93	5.61	6.24	8.38	10.55
Month, Day	5/22	5/22	5/25	11/11	11/11	8/15	8/15	11/11	12/14	12/13
Year	1911	1911	1936	1931	1931	1944	1944	1931	1910	1910
Period	←				1900-1961					99-61
San Juan AP*	0.61	1.02	1.29	1.68	2.60	2.89	3.03	4.22	4.73	5.08
Month, Day	2/3	2/3	2/3	2/3	5/29	4/26	4/26	8/6	8/6	8/6
Year	1950	1950	1950	1950	1960	1959	1959	1955	1955	1955
Period	←				1950-1961					→
RHODE ISLAND										
Block Island	0.52	0.84	1.08	1.58	2.19	3.20	3.44	4.13	7.08	8.52
Month, Day	8/8	9/4	8/8	8/8	7/14	8/6	8/6	9/19	9/19	9/19
Year	1938	1937	1938	1938	1912	1952	1952	1960	1960	1960
Period	←	1903-1949		→	←	1903-1961		→	←	1881-1961 →
Providence*	0.50	0.90	1.20	1.70	2.46	3.33	3.62	4.69	5.32	6.17
Month, Day	6/13	6/13	6/13	8/29	8/24	7/23	7/23	9/14	9/16	9/16
Year	1958	1958	1958	1959	1927	1922	1922	1944	1932	1932
Period	←				1905-1961					→
SOUTH CAROLINA										
Charleston	0.73	1.17	1.65	2.79	4.11	6.64	7.42	8.62	9.03	10.57
Month, Day	5/30	6/20	6/20	6/20	9/6	9/6	9/6	9/6	9/5	9/5
Year	1949	1947	1947	1947	1933	1933	1933	1933	1933	1933
Period	←				1897-1961					71-61
Columbia*	0.74	1.05	1.39	1.86	2.56	3.84	4.08	4.52	6.77	7.40
Month, Day	8/20	7/26	7/26	7/30	9/1	6/19	6/19	8/16	8/16	8/16
Year	1911	1922	1922	1929	1956	1911	1911	1949	1949	1949
Period	←				1901-1961					87-61
Due West	0.61	1.16	1.58	2.54	3.46	4.66	4.82	4.95	4.95	6.53
Month, Day	7/27	7/27	7/27	7/27	7/27	7/27	7/27	7/27	7/27	9/30
Year	1926	1926	1926	1926	1926	1926	1926	1926	1926	1929
Period	←				1921-1932					→
Florence	0.78	1.05	1.40	1.66	2.11	3.30	3.60	4.64	6.03	9.15
Month, Day	4/29	4/29	4/29	4/29	7/15	7/29	6/22	9/4	10/15	7/15
Year	1959	1959	1959	1959	1959	1959	1958	1957	1954	1916
Period	←				1954-1961					00-61
Greenville	0.80	1.27	1.52	2.30	3.63	4.49	5.29	5.78	6.20	8.20
Month, Day	7/4	7/4	7/4	7/9	9/6	9/6	9/6	9/6	9/6	5/7
Year	1956	1956	1956	1928	1951	1951	1951	1951	1951	1910
Period	←				1918-1932 and 1938-1961					93-61
Spartanburg*	0.50	0.95	1.24	1.85	3.20	3.53	4.42	6.19	6.67	7.00
Month, Day	9/22	9/22	9/22	9/22	9/22	9/22	10/6	10/6	10/6	8/15
Year	1951	1951	1951	1951	1951	1951	1949	1949	1949	1928
Period	←	1951-1961		→	←		1941-1961		→	97-61
SOUTH DAKOTA										
Huron*	0.83	1.19	1.55	2.03	2.16	2.72	3.08	3.42	3.59	4.20
Month, Day	8/1	8/1	7/2	7/2	6/27	6/27	6/27	6/27	6/4	10/10
Year	1959	1959	1958	1958	1905	1905	1905	1905	1914	1961
Period	←	1905-1961		→	←		1900-1961		→	81-61
Pierre*	0.61	1.06	1.32	1.52	1.93	2.30	2.36	2.47	2.55	3.72
Month, Day	8/29	8/29	8/29	8/29	8/8	7/30	6/14	6/14	8/20	8/20
Year	1912	1912	1912	1912	1919	1917	1923	1923	1916	1916
Period	←				1907-1932					→

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
SOUTH DAKOTA (cont.)										
Rapid City	0.97	1.35	1.39	1.93	2.43	2.76	3.02	3.49	4.44	5.57
Month, Day	7/19	7/19	7/19	7/29	7/22	7/22	5/27	5/27	5/27	5/27
Year	1958	1958	1958	1944	1910	1910	1926	1926	1926	1926
Period	←				1907-1961				→	88-61
Sioux Falls	0.85	1.25	1.32	1.62	2.34	2.94	3.09	3.88	3.94	4.32
Month, Day	6/27	6/27	6/27	6/4	8/2	8/2	8/2	8/2	8/2	6/16
Year	1953	1953	1953	1956	1959	1959	1959	1959	1959	1957
Period	←	1952-1961	→		←		1940-1961		→	90-61
Yankton	0.55	0.92	1.29	1.71	2.55	3.14	3.14	3.80	5.95	7.52
Month, Day	6/20	5/26	5/26	5/26	9/15	9/15	9/15	9/20	7/14	7/14
Year	1927	1912	1912	1912	1927	1927	1927	1902	1900	1900
Period	←				1898-1932					→
TENNESSEE										
Bristol*	0.50	0.90	1.05	1.90	3.00	3.10	3.10	3.10	3.10	3.21
Month, Day	8/19	6/23	6/13	6/13	6/13	6/13	6/13	6/13	6/13	9/29
Year	1960	1957	1954	1954	1954	1954	1954	1954	1954	1944
Period	←	1952-1961	→		←		1940-1961			→
Chattanooga	0.80	1.27	1.62	1.96	2.55	3.97	4.57	4.67	5.59	7.61
Month, Day	6/12	6/15	6/15	8/17	9/22	7/14	7/14	6/15	4/4	3/29
Year	1922	1924	1924	1912	1909	1949	1949	1949	1911	1886
Period	←	1903-1961	→		←		1900-1961		→	79-61
Knoxville	0.58	0.99	1.37	2.57	3.52	3.57	3.97	4.88	5.60	6.20
Month, Day	7/16	6/9	7/8	7/8	7/8	7/8	9/2	9/2	7/16	7/15
Year	1931	1933	1939	1939	1939	1939	1898	1898	1917	1917
Period	←	1899-1961	→		←		1897-1961		→	71-61
Memphis	0.78	1.27	1.71	2.80	3.25	4.70	5.00	7.03	9.67	10.48
Month, Day	3/9	7/16	7/16	7/16	7/16	7/16	7/16	11/21	11/21	11/20
Year	1901	1929	1929	1929	1929	1929	1929	1934	1934	1934
Period	←	1896-1961	→		←		1891-1961		→	72-61
Nashville	0.75	1.20	1.33	2.00	2.67	3.38	3.60	4.38	5.00	6.05
Month, Day	9/12	7/19	7/19	6/2	7/5	7/19	7/19	6/16	11/20	11/20
Year	1920	1921	1921	1957	1950	1921	1921	1960	1900	1900
Period	←	1905-1961	→		←		1893-1961		→	71-61
TEXAS										
Abilene	0.68	1.25	1.76	2.75	3.47	4.42	4.53	6.26	6.56	6.78
Month, Day	5/18	5/18	5/18	5/18	7/31	5/22	5/11	5/11	5/11	5/22
Year	1942	1942	1942	1942	1911	1908	1928	1928	1928	1908
Period	←				1906-1961				→	86-61
Amarillo	0.85	1.23	1.58	2.57	3.36	3.61	4.02	5.27	6.07	6.75
Month, Day	6/9	7/8	7/8	6/24	6/24	6/20	8/7	6/9	6/9	5/15
Year	1960	1943	1943	1948	1948	1958	1906	1960	1960	1951
Period	←	1904-1961	→		←		1902-1961		→	92-61
Austin	0.81	1.22	1.58	2.28	3.46	4.41	5.47	7.02		19.03
Month, Day	9/23	9/23	9/23	9/6	6/1	6/6	6/6	6/6		9/9
Year	1959	1959	1959	1944	1935	1941	1941	1941		1921
Period	←			1927-1961			→			06-61
Brownsville	0.69	1.31	1.82	3.00	5.00	5.82	6.01	6.54	7.88	11.91
Month, Day	4/27	4/27	4/27	4/27	4/27	4/27	10/4	10/4	9/6	9/22
Year	1932	1932	1932	1932	1932	1932	1954	1954	1925	1886
Period	←				1923-1961				→	82-61
Corpus Christi	0.76	1.17	1.51	2.39	3.63	4.65	5.35	6.28	7.00	8.26
Month, Day	5/23	5/23	7/13	10/4	10/16	10/16	4/23	6/27	6/27	6/20
Year	1940	1947	1940	1915	1928	1960	1956	1931	1931	1924
Period	←	1902-1961	→		←		1901-1961		→	88-61
Dallas	1.18	1.46	1.88	2.90	3.76	4.77	5.94	6.80	9.07	9.18
Month, Day	3/29	7/13	7/13	7/13	7/13	8/27	8/27	8/27	8/26	8/26
Year	1958	1960	1960	1960	1960	1947	1947	1947	1947	1947
Period	←				1914-1961					→
Del Rio	1.15	1.72	2.08	2.88	4.82	5.16	5.25	6.76	6.86	8.88
Month, Day	3/21	3/21	3/21	2/27	2/27	2/27	2/27	6/13	6/13	6/13
Year	1935	1935	1935	1921	1921	1921	1921	1935	1935	1935
Period					1906-1957					→
El Paso*	0.90	1.46	1.95	3.09	4.80	6.50	6.50	6.50	6.50	6.50
Month, Day	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9
Year	1881	1881	1881	1881	1881	1881	1881	1881	1881	1881
Period	←				1878-1961					→

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES					HOURS				
	5	10	15	30	60	2	3	6	12	24
TEXAS (cont.)										
Fort Worth	0.71	1.04	1.40	1.98	3.35	5.59	5.99	6.93	9.04	9.57
Month, Day	5/20	5/20	8/22	8/22	9/5	9/5	9/4	9/4	9/4	9/4
Year	1928	1928	1916	1916	1932	1932	1932	1932	1932	1932
Period	← 1903-1961 →				← 1899-1961 →					
Galveston	0.85	1.47	1.94	3.06	5.31	7.58	8.78	11.79	12.75	14.35
Month, Day	4/13	4/13	4/13	10/6	10/22	4/22	4/22	10/8	10/8	7/13
Year	1929	1929	1929	1910	1913	1904	1904	1901	1901	1900
Period	← 1903-1961 →				←		1890-1961	→		72-61
Groesbeck	0.63	1.07	1.31	1.96	3.39	5.04	5.97	7.51	8.54	8.87
Month, Day	4/26	7/25	4/26	10/2	10/2	10/1	10/2	10/1	10/1	10/1
Year	1921	1929	1921	1927	1927	1927	1927	1927	1927	1927
Period	← 1918-1931 →									
Houston	0.84	1.52	2.00	2.92	4.36	6.05	6.62	8.67	10.02	10.83
Month, Day	8/11	8/11	8/11	12/10	11/1	11/1	11/1	11/1	11/1	11/1
Year	1926	1926	1926	1923	1943	1943	1943	1943	1943	1943
Period	← 1910-1961 →									
Laredo	1.10	1.53	1.80	2.54	4.23	5.24	5.26	5.28	5.28	7.20
Month, Day	6/6	6/6	6/6	8/23	4/12	4/12	4/12	4/12	4/12	5/13
Year	1952	1952	1952	1953	1947	1947	1947	1947	1947	1928
Period	← 1952-1961 →				←		1943-1961	→		13-61
Midland*	0.58	0.92	1.24	1.90	2.37	3.37	3.87	4.10	5.99	5.99
Month, Day	5/11	7/21	7/21	7/21	7/21	7/21	7/21	7/21	7/21	7/21
Year	1958	1961	1961	1961	1961	1961	1961	1961	1961	1961
Period	←				1955-1961	→				54-61
Palestine	0.61	1.09	1.56	2.47	3.24	4.31	4.64	5.25	6.21	12.06
Month, Day	3/6	5/9	5/9	6/4	5/9	11/23	11/23	11/23	11/22	11/22
Year	1935	1921	1921	1926	1921	1940	1940	1940	1940	1940
Period	← 1905-1952 →				←		1902-1952	→		91-52
Port Arthur	0.72	1.16	1.62	2.76	3.97	5.81	8.14	10.72	12.67	17.76
Month, Day	5/11	4/29	7/18	12/11	6/8	7/28	7/28	7/27	7/27	7/27
Year	1930	1950	1958	1922	1946	1943	1943	1943	1943	1943
Period	← 1917-1961 →									
San Angelo	0.61	1.12	1.32	1.64	2.02	2.38	3.46	3.64		11.75
Month, Day	10/16	10/16	10/16	10/16	7/15	9/30	9/30	9/30		9/15
Year	1960	1960	1960	1960	1953	1959	1959	1959		1936
Period	← 1952-1961 →				←		1948-1961	→		08-61
San Antonio	0.77	1.22	1.62	2.38	3.41	5.02	5.82	6.11	6.81	7.08
Month, Day	4/29	6/14	5/9	5/9	7/7	6/3	5/9	5/9	9/26	10/1
Year	1919	1940	1935	1935	1958	1951	1935	1935	1946	1913
Period	←				1903-1961	→				85-61
Taylor*	1.30	2.00	2.53	2.89	4.25	7.51	10.72	14.16	18.96	23.11
Month, Day	4/29	4/29	4/29	4/29	9/9	9/9	9/9	9/9	9/9	9/9
Year	1905	1905	1905	1905	1921	1921	1921	1921	1921	1921
Period	← 1903-1932 →									
Victoria*	0.83	1.00	1.45	2.22	3.10	4.65	6.15	7.35	7.95	8.67
Month, Day	11/14	10/22	10/22	7/21	10/18	10/18	10/18	10/18	10/18	10/18
Year	1954	1954	1954	1958	1960	1960	1960	1960	1960	1960
Period	← 1951-1961 →				←		1940-1961	→		98-61
Waco	0.75	1.15	1.55	2.35	3.15	4.20	4.20	4.44	4.64	7.18
Month, Day	6/5	6/5	7/18	7/18	6/19	6/19	6/19	5/12	5/12	5/11
Year	1961	1961	1947	1947	1947	1947	1947	1953	1953	1953
Period	←1953-1961→		←1947-1961→		←		1941-1961	→		94-61
Wichita Falls	0.60	0.90	1.25	1.80	3.00	4.04	4.22	4.77	5.38	5.61
Month, Day	5/17	5/17	5/17	6/24	6/24	6/24	6/24	6/24	10/29	10/2
Year	1957	1957	1957	1961	1961	1961	1961	1961	1941	1959
Period	← 1952-1961 →				←		1940-1961	→		00-61
UTAH										
Milford	0.25	0.41	0.53	0.61	0.77	0.89	0.89	0.92	1.21	1.92
Month, Day	7/15	7/15	7/15	7/15	9/27	9/27	9/27	9/27	3/14	10/6
Year	1953	1953	1953	1953	1943	1943	1943	1943	1945	1916
Period	← 1950-1961 →				←		1940-1961	→		08-61
Modena	0.41	0.70	0.96	1.24	1.78	1.93	1.93	2.06	2.26	2.26
Month, Day	7/27	7/27	7/27	8/17	8/17	8/17	8/17	8/17	9/18	9/18
Year	1916	1916	1916	1943	1943	1943	1943	1943	1925	1925
Period	← 1904-1944 →				← 1903-1948 →					

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
UTAH (cont.)										
Salt Lake City*	0.40	0.66	0.77	1.05	1.17	1.23	1.23	1.28	2.06	2.72
Month, Day	8/13	8/13	8/13	8/13	8/13	8/13	8/13	5/25	1/14	5/2
Year	1931	1931	1931	1923	1923	1923	1923	1908	1953	1901
Period	← 1896-1951 →				← 1891-1953 →					74-53
Salt Lake City AP	0.34	0.54	0.82	1.25	1.62	1.63	1.64	1.64	1.74	2.41
Month, Day	8/19	7/30	7/30	7/30	7/30	7/30	7/30	7/30	5/15	4/22
Year	1945	1945	1945	1945	1945	1945	1945	1945	1942	1957
Period	← 1936-1938 and 1942-1961 →				← 1935-1938 and 1940-1961 →					29-61
VERMONT										
Burlington	0.58	0.86	1.04	1.91	2.16	2.23	2.26	2.78	3.52	4.49
Month, Day	5/23	8/25	5/23	5/23	5/23	5/23	5/23	6/14	6/14	11/3
Year	1955	1922	1955	1955	1955	1955	1955	1942	1942	1927
Period	←				1906-1961				→	93-61
Northfield	0.85	1.46	1.64	1.80	1.92	2.30	2.75	3.20	5.16	7.72
Month, Day	8/14	8/14	8/14	8/14	8/14	8/13	8/13	11/3	11/3	11/3
Year	1918	1918	1918	1918	1918	1926	1926	1927	1927	1927
Period	← 1900-1943 →				← 1897-1943 →					
VIRGINIA										
Cape Henry	0.71	1.32	2.06	3.27	3.78	4.32	4.37	4.41	4.46	7.18
Month, Day	9/10	7/30	7/30	7/30	7/30	7/30	7/30	7/30	8/28	9/16
Year	1942	1921	1921	1921	1921	1921	1921	1921	1947	1876
Period	←				1903-1956				→	75-56
Lynchburg	0.71	1.06	1.51	2.21	3.49	3.65	3.66	4.72	5.88	7.59
Month, Day	8/8	8/29	8/29	8/29	9/3	9/3	9/3	9/3	8/11	8/11
Year	1953	1903	1903	1903	1907	1907	1907	1907	1928	1928
Period	←			1902-1933 and 1936-1961					→	72-61
Norfolk	0.72	1.24	1.79	2.69	3.67	4.80	4.98	6.43	6.59	6.84
Month, Day	8/1	5/18	5/18	7/10	8/1	7/10	9/28	9/28	8/20	8/11
Year	1949	1953	1953	1939	1949	1939	1959	1959	1933	1942
Period	← 1896-1961 →				← 1891-1961 →					75-61
Richmond	0.75	1.34	1.79	2.60	4.07	6.33	7.04	7.24	7.33	8.79
Month, Day	6/3	6/3	7/14	8/19	7/30	7/30	7/30	7/30	8/12	8/12
Year	1920	1920	1948	1908	1923	1923	1923	1923	1955	1955
Period	←				1899-1961				→	80-61
Roanoke	0.55	0.85	1.10	1.20	1.79	2.47	2.52	3.68	4.88	6.27
Month, Day	5/6	5/6	5/6	5/6	7/7	7/7	7/7	8/14	10/15	8/13
Year	1953	1953	1953	1953	1943	1943	1943	1940	1954	1940
Period	← 1952-1961 →				← 1940-1961 →					01-61
Wytheville	0.63	1.10	1.48	2.18	2.48	2.84	2.85	3.33	3.84	4.52
Month, Day	8/22	8/22	8/22	8/22	8/22	7/7	7/7	5/19	10/1	10/1
Year	1916	1916	1916	1916	1916	1935	1935	1942	1929	1929
Period	← 1903-1940 →				← 1903-1950 →					67-51
WASHINGTON										
North Head	0.33	0.53	0.58	0.85	1.00	1.15			2.89	4.29
Month, Day	8/8	8/8	8/8	11/13	11/13	11/13			12/20	1/2
Year	1947	1947	1947	1941	1941	1941			1925	1895
Period	←		1903-1952	→					03-52	87-61
Port Angeles	0.27	0.30	0.30	0.41	0.49	0.62				2.63
Month, Day	8/1	8/1	8/1	8/15	8/15	8/15				12/13
Year	1918	1918	1918	1930	1930	1918				1897
Period	←		1917-1933	→						85-33
Seattle	0.29	0.46	0.52	0.62	0.84	0.99	1.09	1.51	2.26	3.52
Month, Day	8/24	8/24	6/23	6/29	6/29	6/29	9/11	12/27	12/11	12/11
Year	1921	1921	1917	1952	1952	1952	1907	1937	1921	1921
Period	←				1896-1961				→	91-61
Spokane	0.46	0.72	0.81	0.83	1.02	1.09	1.10	1.25	1.62	2.22
Month, Day	8/21	8/21	8/21	8/21	6/6	6/6	5/19	5/19	5/20	6/7
Year	1943	1943	1943	1943	1941	1941	1907	1907	1925	1888
Period	←				1900-1961				→	81-61
Tacoma	0.39	0.45	0.50	0.65	0.79	0.90	1.22	1.84	2.06	3.79
Month, Day	4/16	4/16	9/1	9/1	11/1	10/2	10/2	10/2	10/2	11/19
Year	1925	1925	1936	1936	1909	1905	1905	1905	1905	1904
Period	←				1905-1952				→	97-52

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES				HOURS					
	5	10	15	30	60	2	3	6	12	24
WASHINGTON (cont.)										
Tatoosh Island*	0.37	0.52	0.74	1.04	1.44	1.95	2.19	2.89	3.91	5.91
Month, Day	10/9	10/18	10/18	10/18	11/21	11/21	11/21	11/21	10/17	10/17
Year	1955	1914	1914	1914	1933	1933	1933	1933	1930	1930
Period	←				1903-1961				→	88-61
Walla Walla	0.49	0.71	0.79	1.11	1.53	1.62	1.62	1.62	1.86	2.74
Month, Day	5/22	5/22	5/22	5/24	5/24	5/24	5/24	5/24	5/29	5/29
Year	1942	1942	1942	1958	1958	1958	1958	1958	1906	1906
Period	←				1905-1961				→	74-61
Yakima	0.27	0.45	0.61	0.75	0.84	0.90	0.91	0.94	1.21	1.27
Month, Day	6/19	6/19	6/19	6/19	6/19	6/19	6/19	6/19	6/9	12/20
Year	1944	1944	1944	1944	1944	1944	1944	1944	1956	1955
Period	←				1929-1961				→	10-61
WEST VIRGINIA										
Charleston*	0.70	0.90	1.23	1.61	2.92	3.49	3.95	5.00	5.02	5.60
Month, Day	8/8	8/8	8/8	8/8	7/19	7/19	7/19	7/19	7/19	7/19
Year	1958	1958	1958	1958	1961	1961	1961	1961	1961	1961
Period	←	1952-1961		→	←		1941-1961		→	99-61
Elkins*	0.56	0.82	1.05	1.96	2.37	3.39	3.70	3.84	4.22	5.45
Month, Day	8/12	7/5	6/23	8/4	8/4	7/8	7/8	7/24	7/17	7/7
Year	1906	1936	1907	1911	1911	1935	1935	1912	1907	1935
Period	←	1899-1954		→	←		1899-1961			→
Huntington*	0.45	0.80	1.10	1.40	2.45	3.16	3.22	3.22	3.39	5.16
Month, Day	7/18	7/18	7/27	8/7	7/12	7/12	7/12	7/12	7/20	8/15
Year	1954	1954	1959	1960	1941	1941	1941	1941	1954	1905
Period	←	1951-1961		→	←		1940-1961		→	95-61
Parkersburg	0.75	1.19	1.52	1.91	2.12	2.59	2.86	4.55	4.80	4.81
Month, Day	8/19	6/23	8/19	8/19	8/19	8/25	8/1	7/27	7/27	7/27
Year	1903	1928	1903	1903	1903	1922	1935	1947	1947	1947
Period	←				1899-1961				→	89-61
WISCONSIN										
Green Bay	0.75	1.08	1.33	1.82	2.25	2.54	2.88	3.38	3.51	4.41
Month, Day	5/31	8/5	8/5	8/9	7/14	8/15	7/8	6/18	6/3	6/3
Year	1959	1944	1944	1906	1919	1907	1959	1928	1914	1914
Period	←				1902-1961				→	87-61
La Crosse	0.73	1.33	1.79	2.09	2.61	3.26	3.27	3.27	4.85	7.23
Month, Day	7/21	7/5	7/5	5/16	7/5	7/5	7/5	7/5	10/27	10/27
Year	1937	1934	1934	1960	1934	1934	1934	1934	1900	1900
Period	←	1905-1961		→	←	1902-1961		→	←1873-1961→	
Madison	0.60	1.09	1.41	2.15	3.67	4.91	4.96	4.96	5.16	5.31
Month, Day	9/1	5/12	8/8	8/8	8/8	8/8	8/8	8/8	9/12	9/7
Year	1937	1956	1906	1906	1906	1906	1906	1906	1915	1941
Period	←				1905-1961				→	69-61
Milwaukee	0.79	1.11	1.34	1.86	2.25	3.24	4.20	4.71	5.45	5.76
Month, Day	8/29	8/29	8/6	6/24	6/13	6/23	6/23	6/22	6/22	6/22
Year	1939	1939	1942	1904	1950	1917	1917	1917	1917	1917
Period	←	1896-1961		→	←		1891-1961		→	71-61
Wausau	0.57	0.94	1.31	1.82	2.32	3.77	4.40	4.96	5.03	5.19
Month, Day	8/21	7/8	7/8	7/29	6/13	6/13	6/13	6/13	6/13	6/13
Year	1924	1925	1925	1924	1930	1930	1930	1930	1930	1930
Period	←				1915-1933				→	95-33
WYOMING										
Casper	0.35	0.60	0.70	0.75	0.81	1.05	1.13	1.64	1.88	3.09
Month, Day	5/29	8/19	7/9	7/9	7/15	8/10	8/10	8/10	5/22	4/13
Year	1957	1958	1947	1947	1953	1941	1941	1941	1952	1941
Period	←1953-1961→		←1946-1961→		←		1940-1961		→	13-61
Cheyenne	0.66	0.98	1.36	2.08	2.51	4.00	4.70	4.70	4.70	4.86
Month, Day	8/26	8/26	6/14	6/14	6/14	7/15	7/15	7/15	7/15	7/15
Year	1946	1946	1926	1926	1926	1896	1896	1896	1896	1896
Period	←		1901-1961		→	←	1896-1961		→	72-61
Lander	0.60	0.95	1.23	1.45	1.45	1.46	1.51	2.01	2.63	3.66
Month, Day	5/22	5/22	5/22	5/22	5/22	7/31	5/29	5/29	5/29	5/29
Year	1958	1958	1958	1958	1958	1931	1924	1924	1924	1924
Period	←				1905-1961				→	91-61

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

	MINUTES					HOURS				
	5	10	15	30	60	2	3	6	12	24
WYOMING (cont.)										
Sheridan*	0.49	0.91	1.11	1.30	1.53	2.74	2.94	3.85	3.90	4.41
Month, Day	7/2	7/2	7/2	6/25	7/23	7/22	7/22	7/22	7/22	7/22
Year	1912	1939	1939	1932	1923	1923	1923	1923	1923	1923
Period	←				1908-1961					→
Yellowstone Park	0.24	0.36	0.39	0.51	0.63	0.74	0.80		1.60	2.34
Month, Day	7/16	7/16	7/16	8/14	8/14	8/14	8/14		10/14	10/14
Year	1935	1935	1935	1915	1915	1915	1915		1908	1908
Period	←			1904-1940		→			←1904-1940→	

* NOTES

ALABAMA: Mobile: Amounts for 1891-1905 from special observations

ARIZONA: Tucson: No record 1884-1890, and 1896-1922

ARKANSAS: Bentonville: 2- to 12-hr. amounts from special observations
Fort Smith: 5-min. amount also on 6/8/51

CALIFORNIA: Burbank: 5- and 10-min. amounts also on 2/11/59
Eureka: 5-min. amount also on 9/9/52 and 12/6/52
Mt. Shasta: 5- to 60-min. amounts partly estimated
Mt. Tamalpais: 3-hr. amount also on 2/19/17
Sacramento: 6.35 in. in 16 hr. on 4/21/80
San Francisco AP: 30-min. amount also on 3/20/58

COLORADO: Grand Junction: 2-hr. amount also on 9/2/38
Wagon Wheel Gap: 5-min. amount also on 7/17/14 and 7/29/17

CONNECTICUT: Bridgeport: 5-min. amount also on 8/29/59

FLORIDA: Daytona Beach: 10-min. amount also on 8/26/61
Jupiter: 24-hr. amount partly estimated
Orlando: 10-min. amount adjusted to be at least 1/2 of the 20-min. amount for the same date

GEORGIA: Savannah: 15-min. amount also on 6/17/46

HAWAII: Honolulu: 5-min. amount also on 4/21/24

ILLINOIS: Chicago: 30-min. amount of 2.03 in. at Chicago University on 7/7/21
Moline: No record 1936-37

IOWA: Des Moines: Station journal states 6/24/79: "2.50 in. fell in 20 minutes, from 3:10 p.m. to 3:30 p.m."
Sioux City: 15-min. amount also on 6/13/30

KANSAS: Dodge City: 2-, 3- and 6-hr. amounts partly estimated
Goodland: 5-min. amount also on 7/11/51

LOUISIANA: Baton Rouge: 5-min. amount also on 4/21/59 and 2/17/61

MASSACHUSETTS: Pittsfield: 10-min. amount also on 6/5/60

MICHIGAN: Detroit Willow Run AP: 10-min. amount also on 9/1/61
Grand Rapids: 10-min. amount also on 6/26/09 and 15-min. amount also on 8/30/47
Houghton: 3-hr. amount also on 7/3/29
Muskegon: 10-min. amount also on 8/20/58
Sault Ste. Marie: 5-min. amount also on 9/23/59 and 15-min. amount also on 8/22/42

MISSISSIPPI: Jackson: 15-min. amount also on 7/1/59

MISSOURI: St. Joseph: 5-min. amount also on 10/29/61

NEBRASKA: Grand Island: 5-, 10- and 15-min. amounts partly estimated
North Platte: 5-min. amount also on 7/5/49

NEVADA: Elko: 5-min. amount also on 7/5/49
Reno: 10-min. amount also on 8/2/12
Tonopah: 5-min. amount also on 9/22/18, 5/28/19, and 9/12/23. 12-hr. amount also on 8/23/55
Winnemucca: 10-min. amount also on 6/16/23

NEW MEXICO: Albuquerque: 5-min. amount also on 10/19/57

NEW YORK: Binghamton: 30-min. to 3-hr. amounts interpolated. 6-hr. amount also on 6/17/60
Oswego: 30-min. amount also on 6/11/11

OKLAHOMA: Tulsa: 10-min. amount adjusted to be at least 1/2 of 20-min. amount for the same date

OREGON: Burns: 10-min. amount also on 8/1/49
Portland: 4.36 in. in 13 hours, 7 a.m. to 8 p.m., 12/13/82

PENNSYLVANIA: Allentown: 5-min. amount also on 5/23/55 and 6/12/55

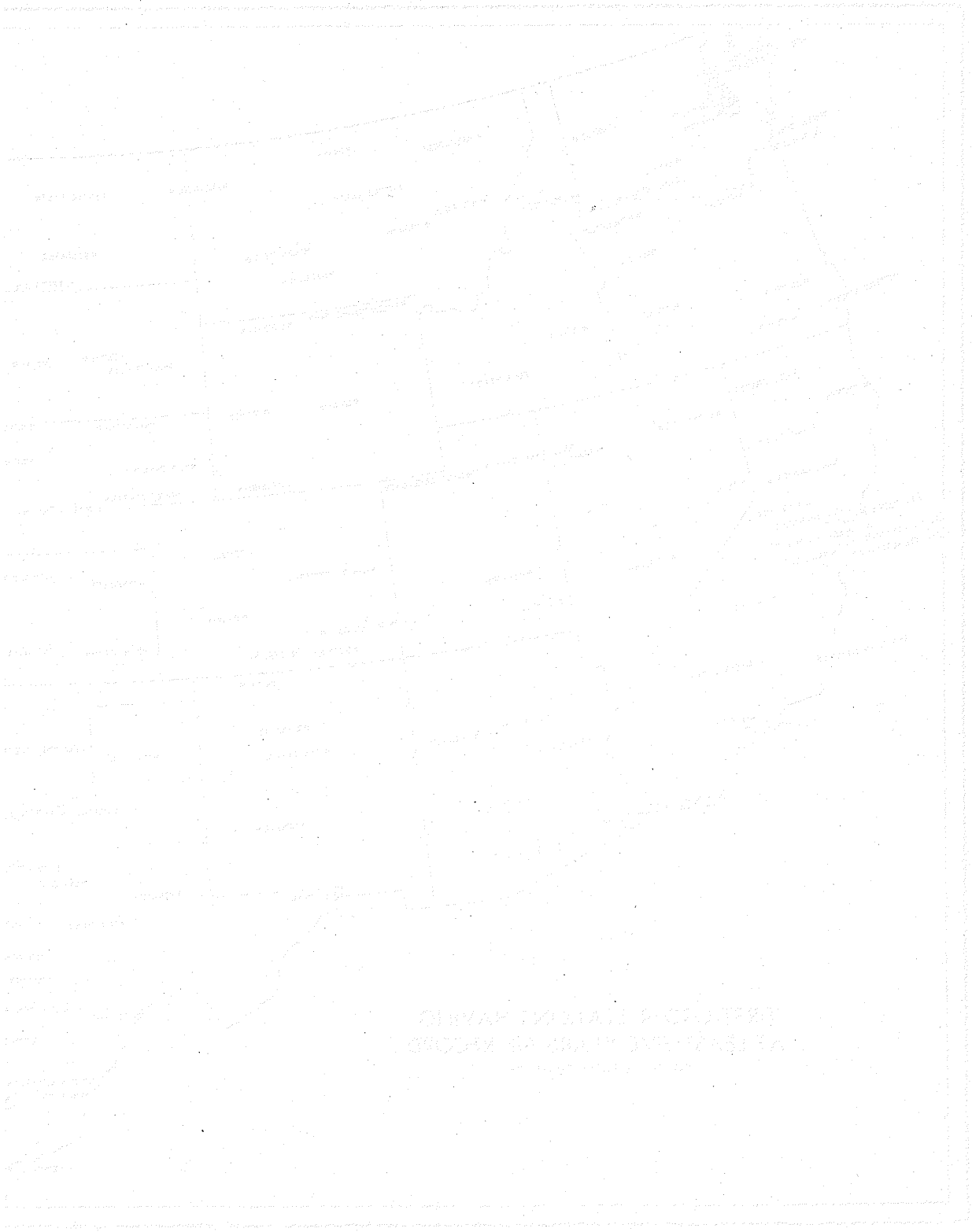
PUERTO RICO: San Juan AP: 30-min. amount also on 5/29/60

Table 6

MAXIMUM RECORDED U.S. POINT RAINFALL (INCHES)

* NOTES (cont.)

RHODE ISLAND:	Providence: Airport station recorded 5.92 in. in 12 hours, 8/7/46
SOUTH CAROLINA:	Columbia: 5-min. amount also on 8/19/04 Spartanburg: 5-min. amount also on 4/6/56. 30-min. amount also on 8/5/61
SOUTH DAKOTA:	Huron: 1-hr. amount also on 7/2/58 Pierre: Breaks in record
TENNESSEE:	Bristol: 5-min. amount also on 6/13/54. 15-min. amount also on 6/23/57
TEXAS:	El Paso: 5-min. to 1-hr. amounts estimated on basis of percentage depth-duration analysis of like 2-hr. amounts Midland: 2- and 3-hr. amounts interpolated Taylor: 5- and 10-min. amounts estimated on basis of percentage depth-duration analysis of like 15-min. amounts Victoria: 10-min. amount also on 7/18/60. 15-min. amount also on 3/31/57
UTAH:	Salt Lake City: 6-hr. amount also on 1/14/53
WASHINGTON:	Tatoosh Island: 10-min. amount also on 10/9/55
WEST VIRGINIA:	Charleston: 10-minute amount also on 7/19/61 Elkins: 10-min. amount also on 6/23/07. 15-min. amount also on 8/3/02 Huntington: 5-min. amount also on 6/18/56 and 7/27/59
WYOMING:	Sheridan: 5- and 15-min. amounts also on 5/20/56



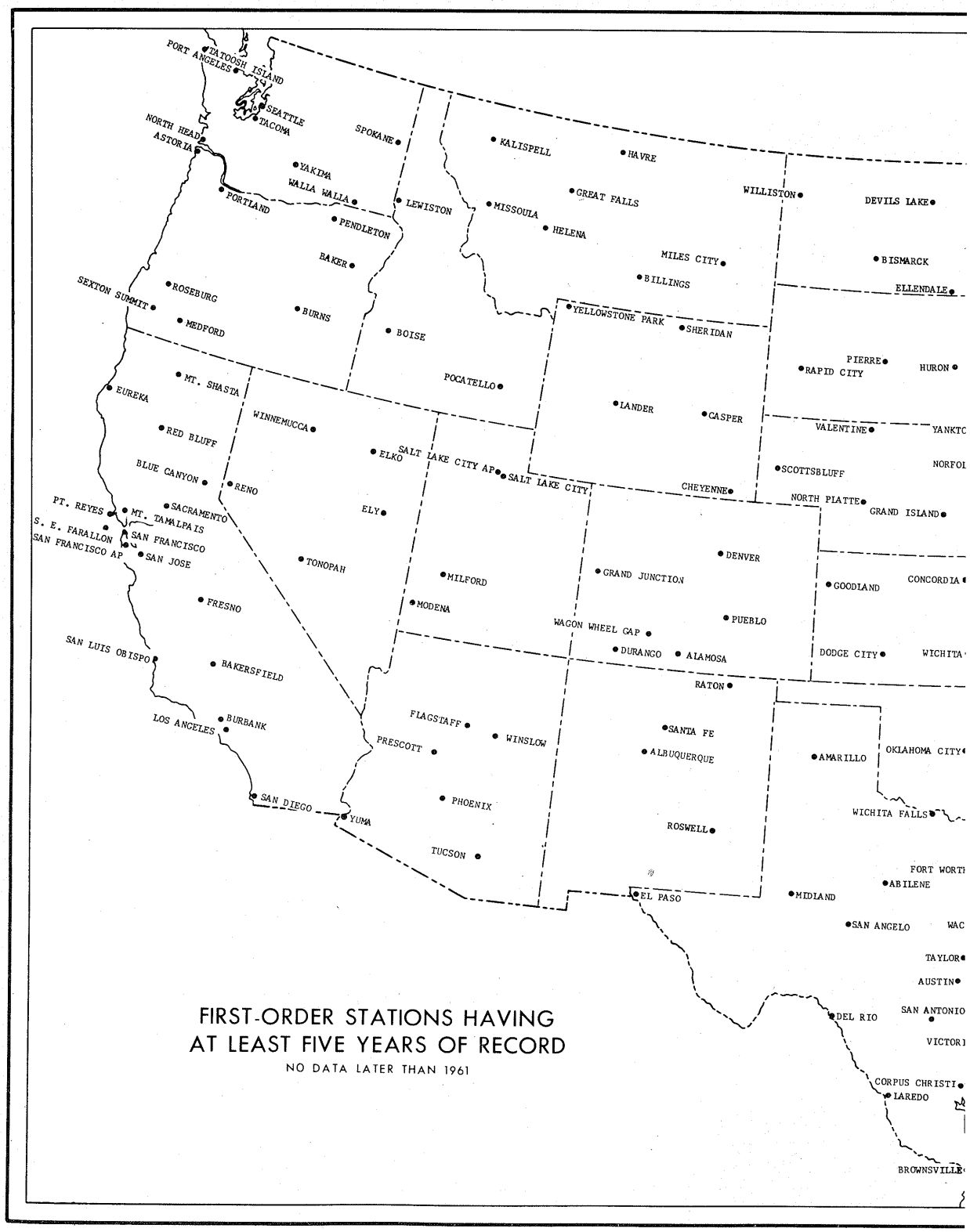

TATOOSH ISLAND
PORT ANGELES
SEATTLE
TACOMA
NORTH HEAD
ASTORIA
SPOKANE
YAKIMA
WALLA WALLA
PORTLAND
LEWISTON
PENDLETON
BAKER
SEXTON SUMMIT
ROSEBURG
MEDFORD
BURNS
BOISE
KALISPELL
HAVRE
GREAT FALLS
WILLISTON
DEVILS LAKE
MISSOULA
HELENA
MILES CITY
BISMARCK
BILLINGS
ELLENDALE
YELLOWSTONE PARK
SHERIDAN
PIERRE
RAPID CITY
HURON
POCATELLO
LANDER
CASPER
VALENTINE
YANKTO
EUREKA
MT. SHASTA
WINNEMUCCA
RED BLUFF
ELKO
SALT LAKE CITY AP
SALT LAKE CITY
SCOTTSBLUFF
NORFOL
BLUE CANYON
RENO
CHEYENNE
NORTH PLATTE
GRAND ISLAND
PT. REYES
MT. TAMALPAIS
SACRAMENTO
ELY
S. E. FARALLON
SAN FRANCISCO
SAN FRANCISCO AP
SAN JOSE
TONOPAH
DENVER
GRAND JUNCTION
GOODLAND
CONCORDIA
MILFORD
FRESNO
MODENA
WAGON WHEEL GAP
PUEBLO
DURANGO
ALAMOSA
DODGE CITY
WICHITA
SAN LUIS OBISPO
BAKERSFIELD
RATON
FLAGSTAFF
WINSLOW
SANTA FE
LOS ANGELES
BURBANK
PRESCOTT
ALBUQUERQUE
AMARILLO
OKLAHOMA CITY
SAN DIEGO
PHOENIX
YUMA
WICHITA FALLS
ROSWELL
TUCSON
FORT WORTH
ABILENE
EL PASO
MIDLAND
SAN ANGELO
WAC
TAYLOR
AUSTIN
DEL RIO
SAN ANTONIO
VICTORI
CORPUS CHRISTI
LAREDO
BROWNSVILLE
FIRST-ORDER STATIONS HAVING
AT LEAST FIVE YEARS OF RECORD
NO DATA LATER THAN 1961

Figure 1

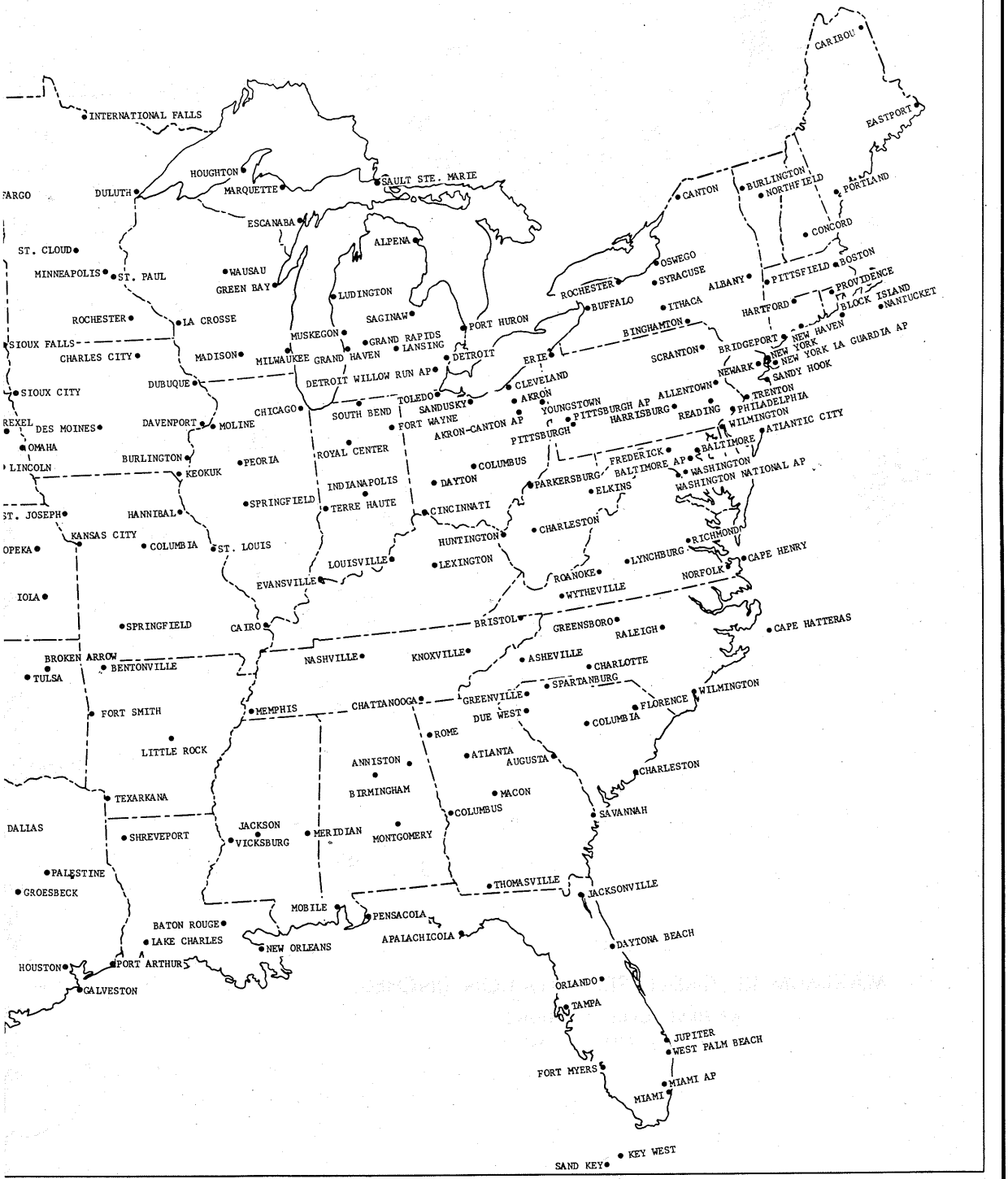

CARIBOU
EASTPORT
INTERNATIONAL FALLS
HOUGHTON
SAULT STE. MARIE
DULUTH
MARQUETTE
CANTON
BURLINGTON
NORTHFIELD
PORTLAND
ESCANABA
CONCORD
ST. CLOUD
ALPENA
MINNEAPOLIS
ST. PAUL
WAUSAU
OSWEGO
SYRACUSE
ALBANY
PITTSFIELD
BOSTON
GREEN BAY
LUDINGTON
ROCHESTER
PROVIDENCE
ROCHESTER
LA CROSSE
SAGINAW
BUFFALO
ITHACA
HARTFORD
BLOCK ISLAND
NANTUCKET
PORT HURON
MUSKEGON
BINGHAMTON
SIOUX FALLS
GRAND RAPIDS
LANSING
NEW YORK
NEW HAVEN
CHARLES CITY
MADISON
MILWAUKEE
GRAND HAVEN
DETROIT
ERIE
SCRANTON
BRIDGEPORT
NEW YORK LA GUARDIA AP
DETROIT WILLOW RUN AP
NEWARK
SANDY HOOK
DUBUQUE
SIOUX CITY
CLEVELAND
ALLENTOWN
TOLEDO
SANDUSKY
AKRON
YOUNGSTOWN
TRENTON
CHICAGO
SOUTH BEND
PITTSBURGH AP
HARRISBURG
READING
PHILADELPHIA
REXEL
DES MOINES
DAVENPORT
MOLINE
FORT WAYNE
AKRON-CANTON AP
WILMINGTON
PITTSBURGH
ATLANTIC CITY
OMAHA
ROYAL CENTER
FREDERICK
BALTIMORE
BURLINGTON
PEORIA
COLUMBUS
BALTIMORE AP
LINCOLN
KEOKUK
INDIANAPOLIS
DAYTON
PARKERSBURG
WASHINGTON
WASHINGTON NATIONAL AP
ELKINS
SPRINGFIELD
TERRE HAUTE
ST. JOSEPH
HANNIBAL
CINCINNATI
CHARLESTON
HUNTINGTON
KANSAS CITY
COLUMBIA
ST. LOUIS
RICHMOND
LOUISVILLE
LEXINGTON
LYNCHBURG
CAPE HENRY
OPEKA
ROANOKE
NORFOLK
EVANSVILLE
WYTHEVILLE
IOLA
SPRINGFIELD
CAIRO
BRISTOL
GREENSBORO
RALEIGH
CAPE HATTERAS
BROKEN ARROW
NASHVILLE
KNOXVILLE
ASHEVILLE
CHARLOTTE
BENTONVILLE
TULSA
SPARTANBURG
GREENVILLE
WILMINGTON
FORT SMITH
MEMPHIS
CHATTANOOGA
DUE WEST
FLORENCE
COLUMBIA
ROME
LITTLE ROCK
ATLANTA
ANNISTON
AUGUSTA
CHARLESTON
TEXARKANA
BIRMINGHAM
MACON
COLUMBUS
SAVANNAH
DALLAS
JACKSON
MERIDIAN
SHREVEPORT
VICKSBURG
MONTGOMERY
PALESTINE
THOMASVILLE
JACKSONVILLE
GROESBECK
MOBILE
PENSACOLA
BATON ROUGE
APALACHICOLA
DAYTONA BEACH
LAKE CHARLES
NEW ORLEANS
HOUSTON
PORT ARTHUR
ORLANDO
GALVESTON
TAMPA
JUPITER
WEST PALM BEACH
FORT MYERS
MIAMI AP
MIAMI
SAND KEY
KEY WEST

Figure 1

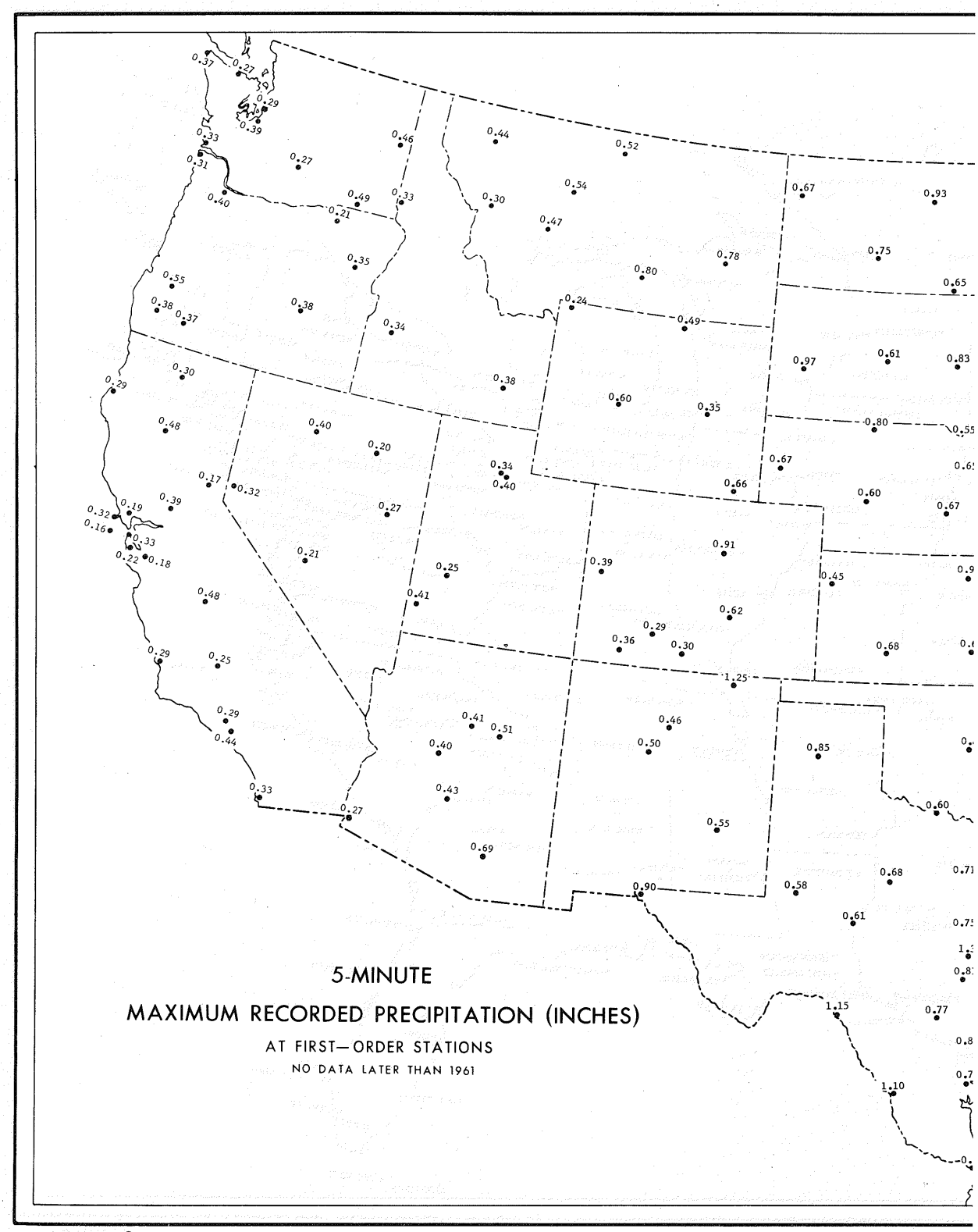

5-MINUTE
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 2

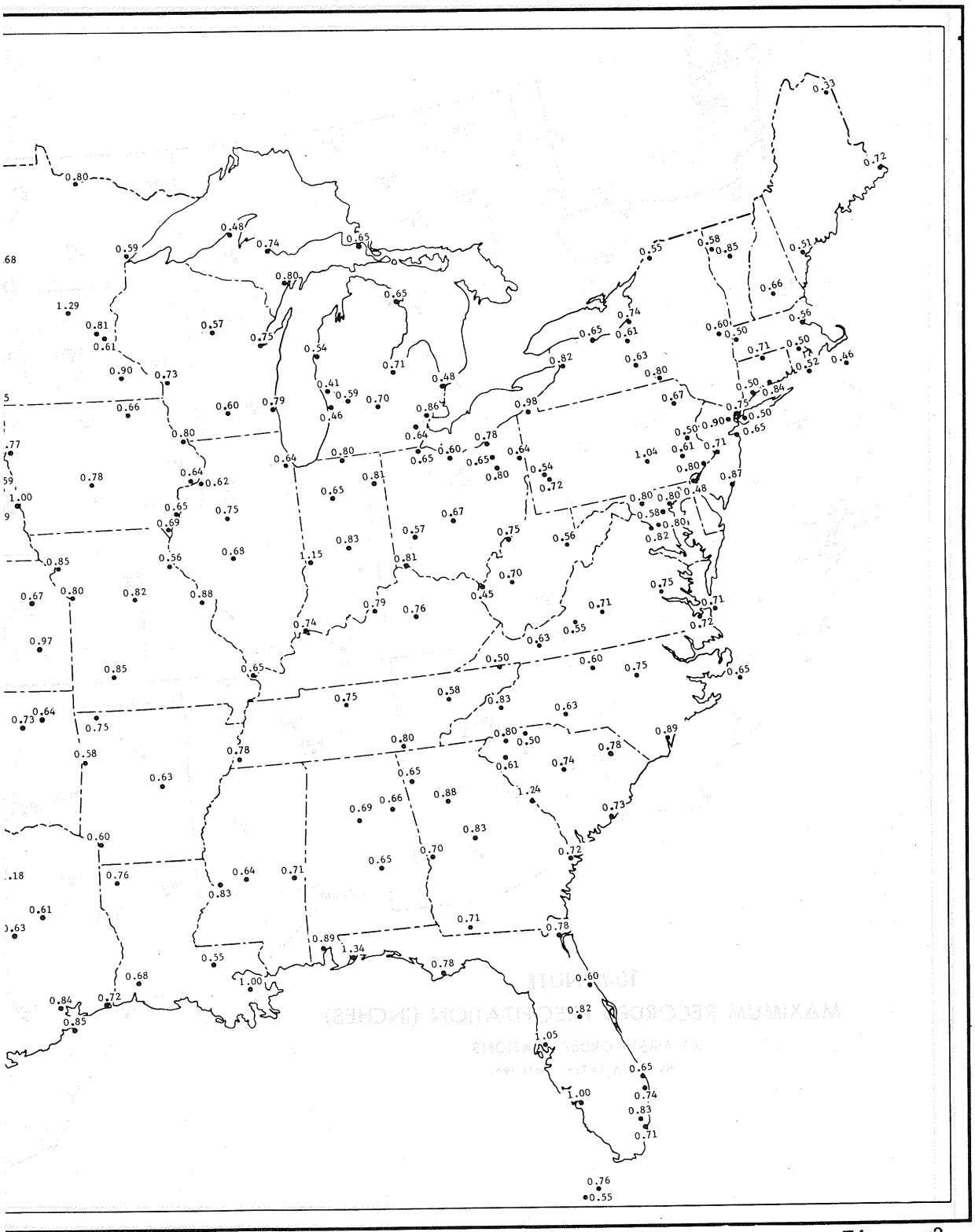


Figure 2

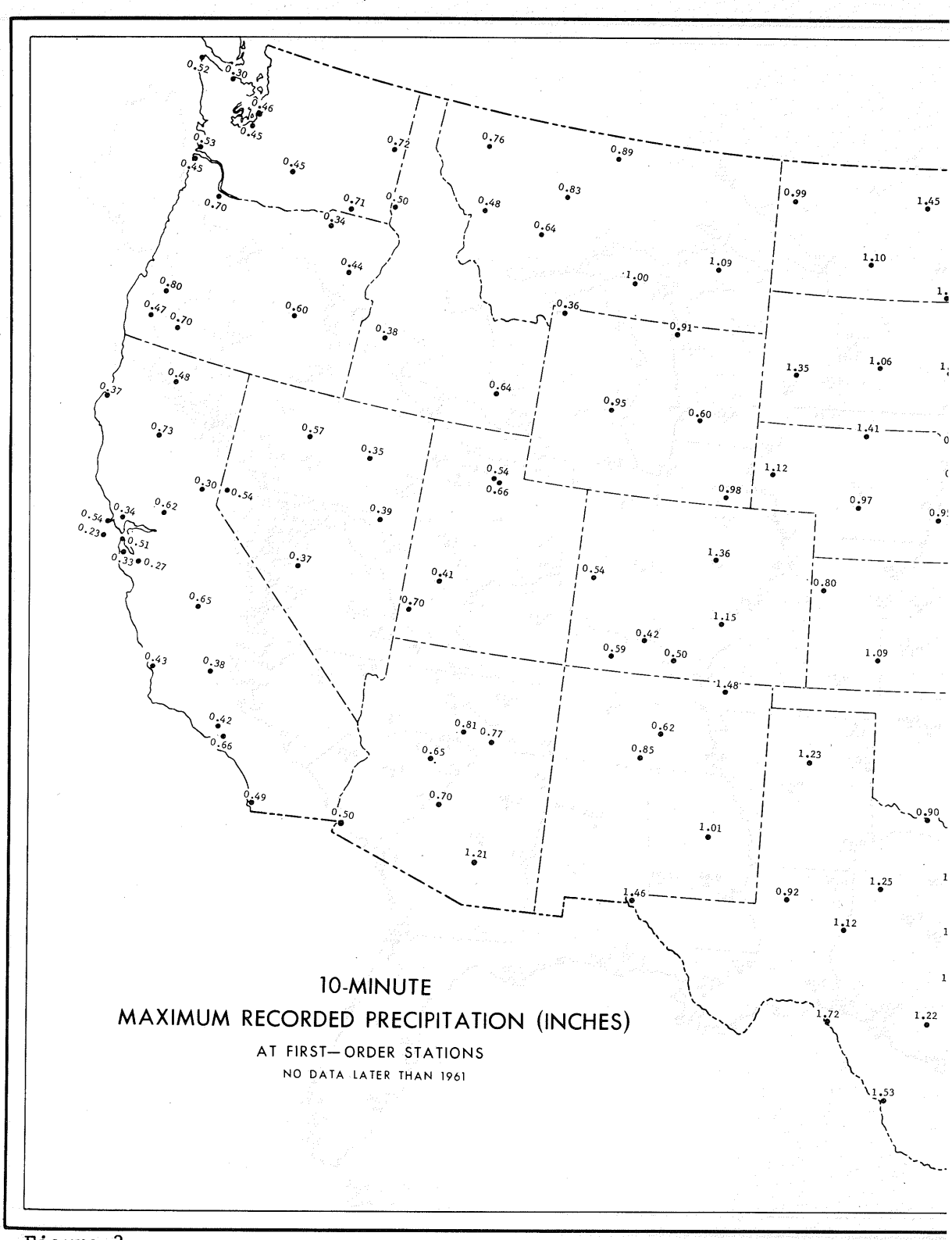

10-MINUTE
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 3

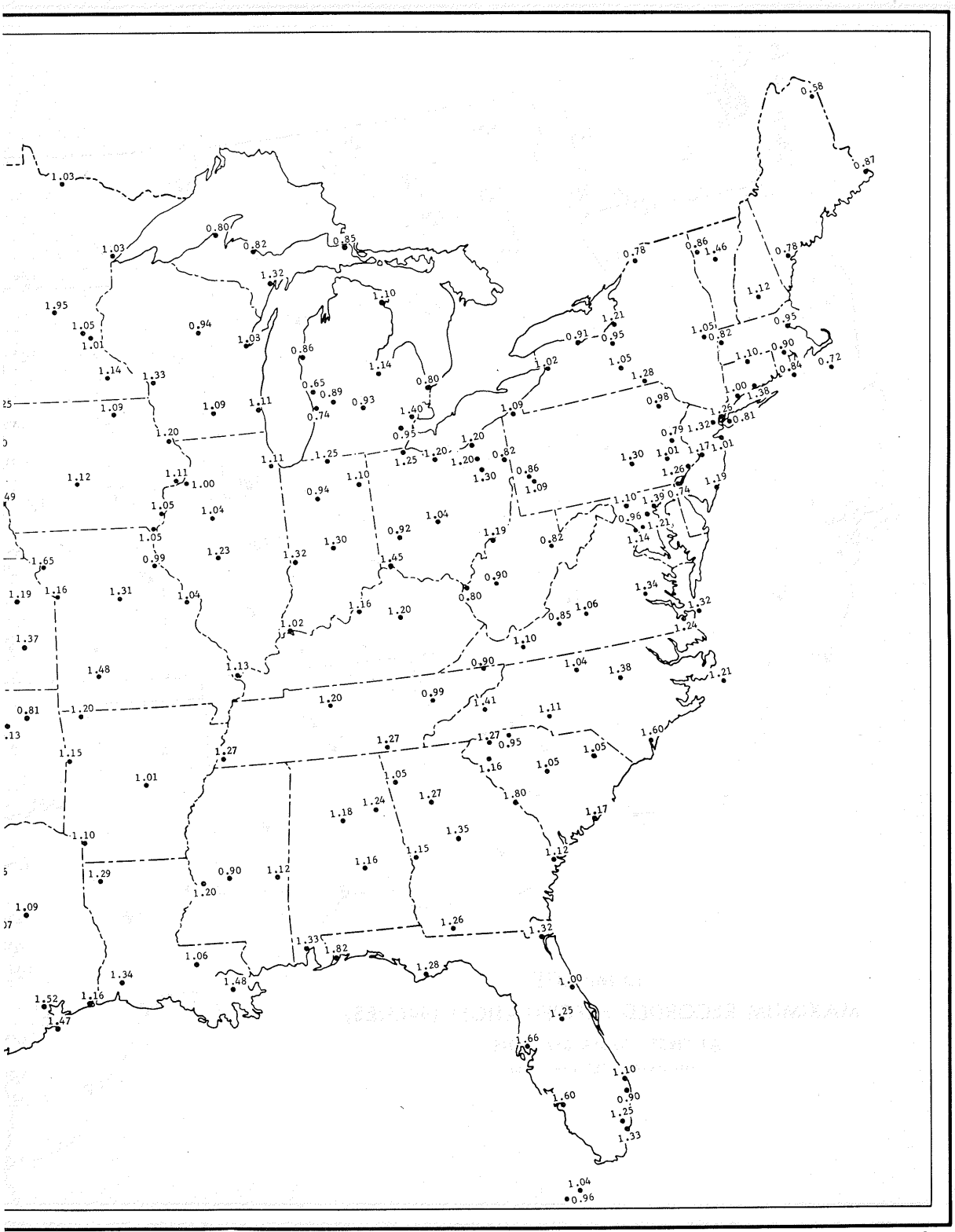


Figure 3

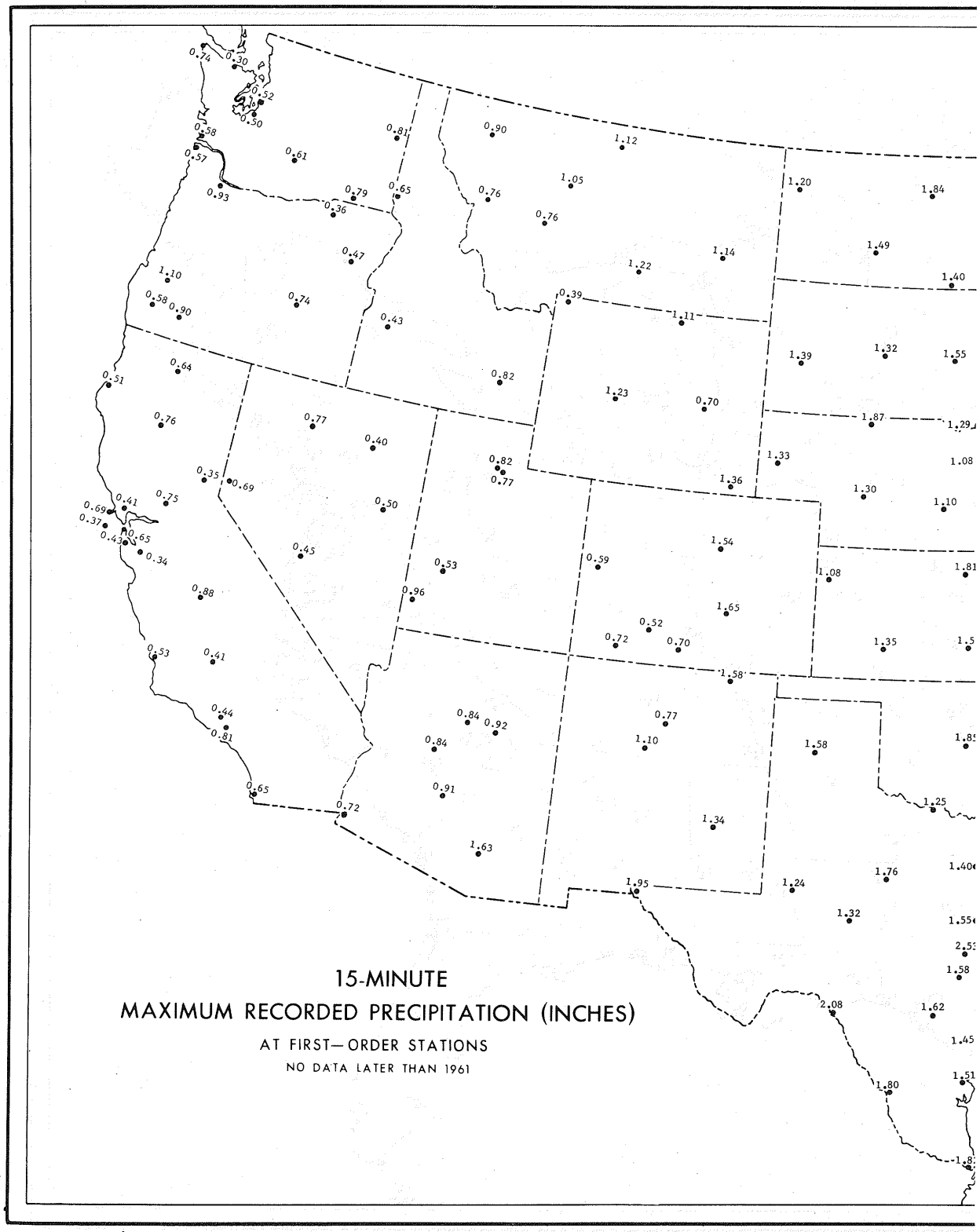

15-MINUTE
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 4

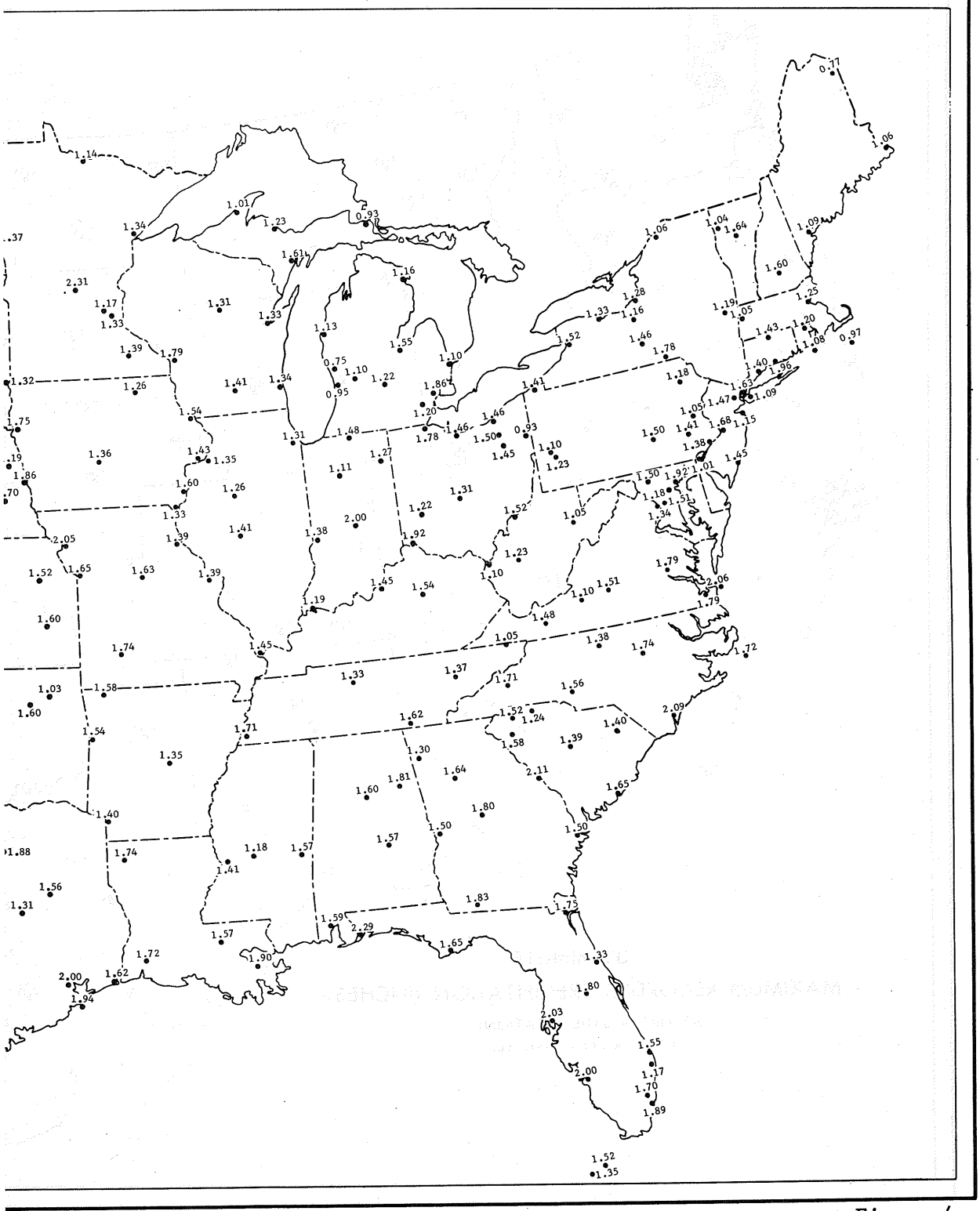


Figure 4

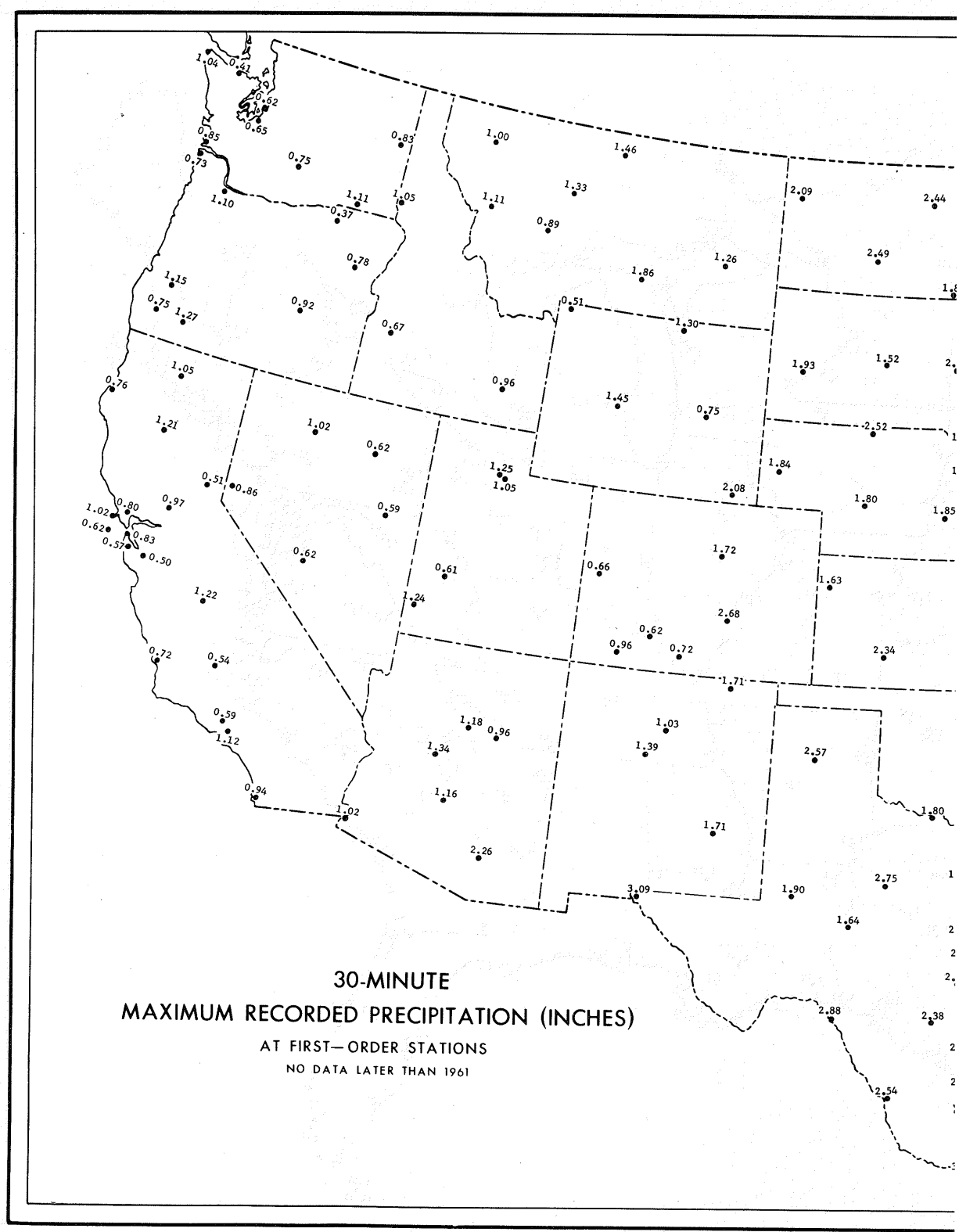
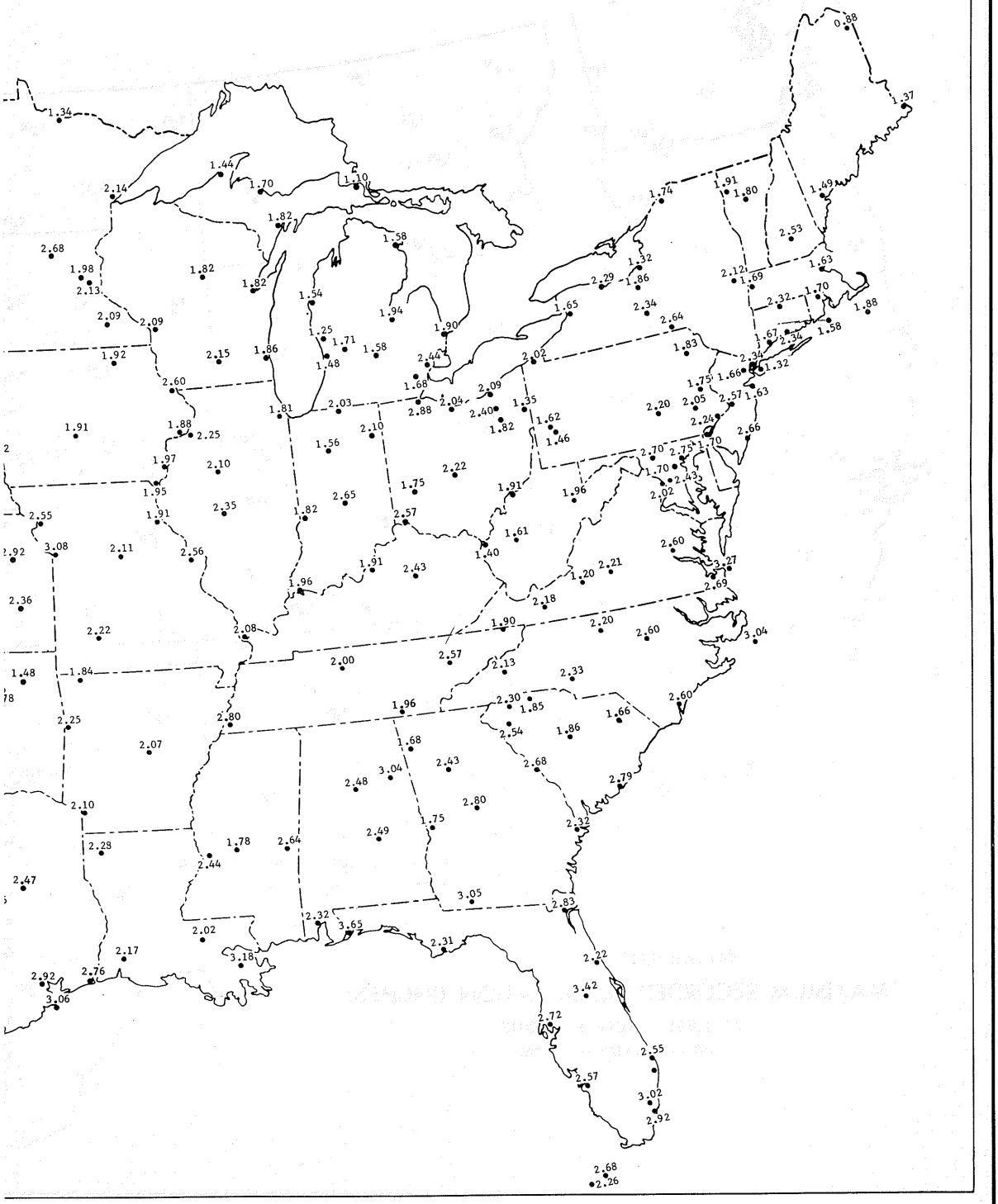

30-MINUTE
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 5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1.44
1.70
1.10
2.14
1.74
1.91
1.80
1.49
1.82
1.58
2.53
2.68
1.98
2.13
1.82
1.82
1.32
2.29
1.86
2.12
1.69
1.63
1.54
1.94
1.65
2.34
2.64
2.32
1.70
1.88
2.09
2.09
1.25
1.71
1.90
1.67
2.34
1.58
1.92
2.15
1.86
1.48
1.58
2.44
2.02
1.83
2.34
1.32
2.60
1.68
2.09
1.75
1.66
1.63
1.81
2.03
2.88
2.04
2.40
1.35
2.20
2.05
2.57
1.91
1.88
2.25
2.10
1.62
2.24
2.66
1.82
1.46
1.56
2.70
2.75
1.70
1.97
2.10
2.22
1.70
2.43
1.95
1.75
1.91
1.96
2.02
2.55
1.91
2.35
1.82
2.65
2.57
1.61
2.92
3.08
2.11
2.56
1.40
2.60
1.91
2.43
1.20
2.21
3.27
2.69
1.96
2.36
2.18
2.22
2.08
1.90
2.20
2.60
3.04
2.00
2.57
2.13
1.48
1.84
2.33
2.30
1.85
1.96
2.60
2.25
2.80
1.66
2.54
1.86
2.07
1.68
2.43
2.68
3.04
2.48
2.79
2.10
2.80
1.75
2.32
2.49
2.28
1.78
2.64
2.44
2.47
3.05
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2.32
3.65
2.02
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2.17
2.22
3.18
3.42
2.92
2.76
2.72
3.06
2.55
2.57
3.02
2.92
2.68
2.26

Figure 5

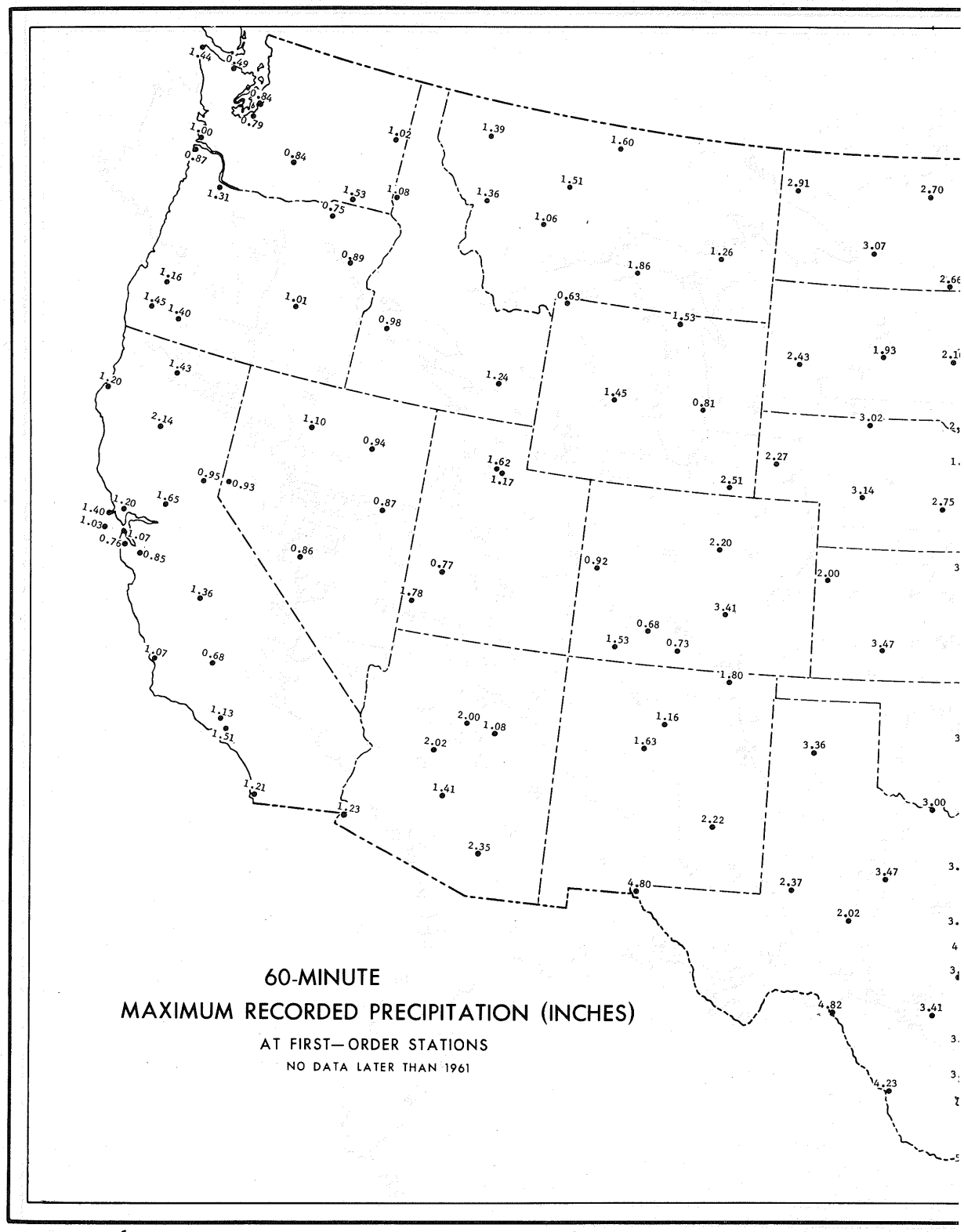

60-MINUTE
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 6

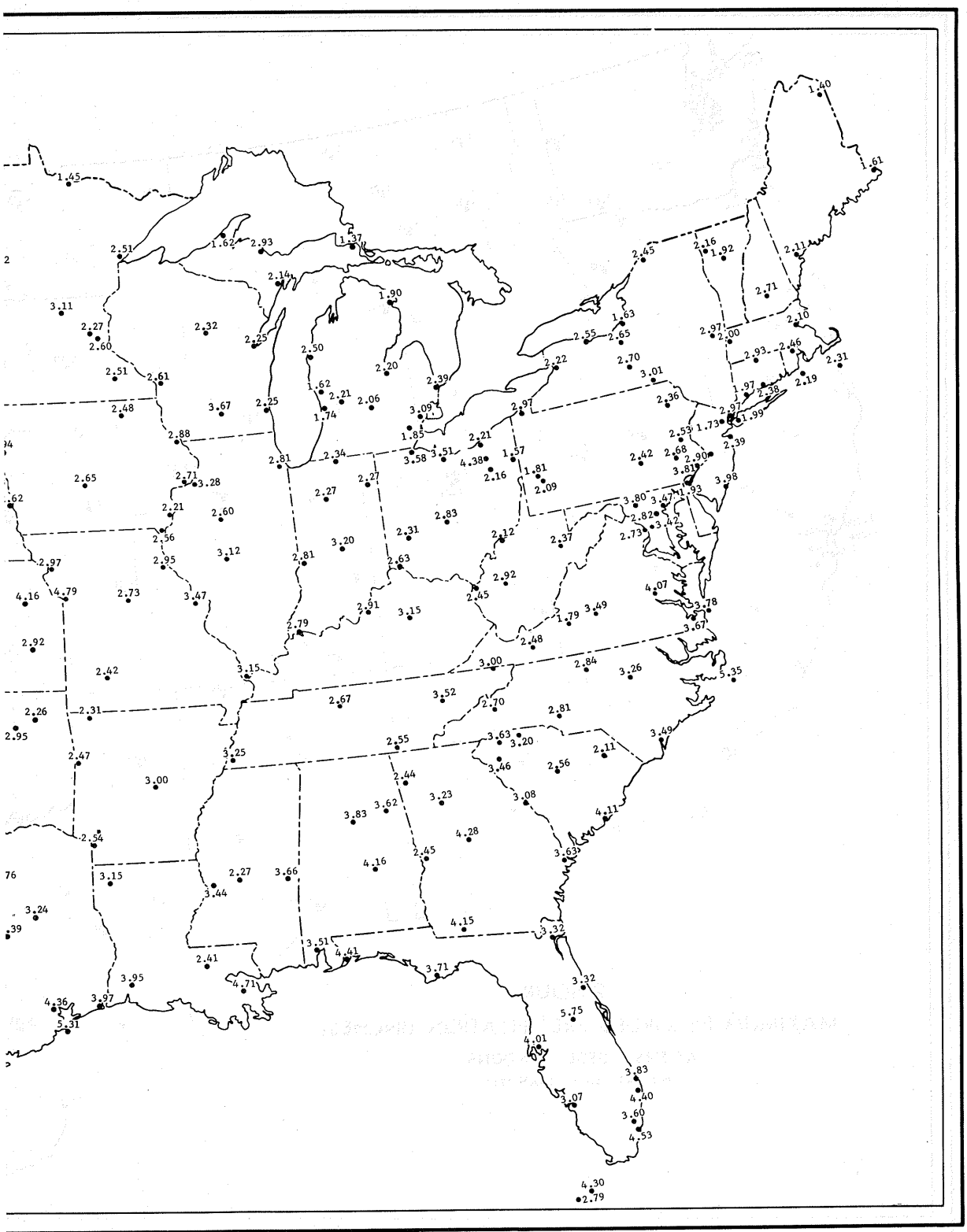


Figure 6

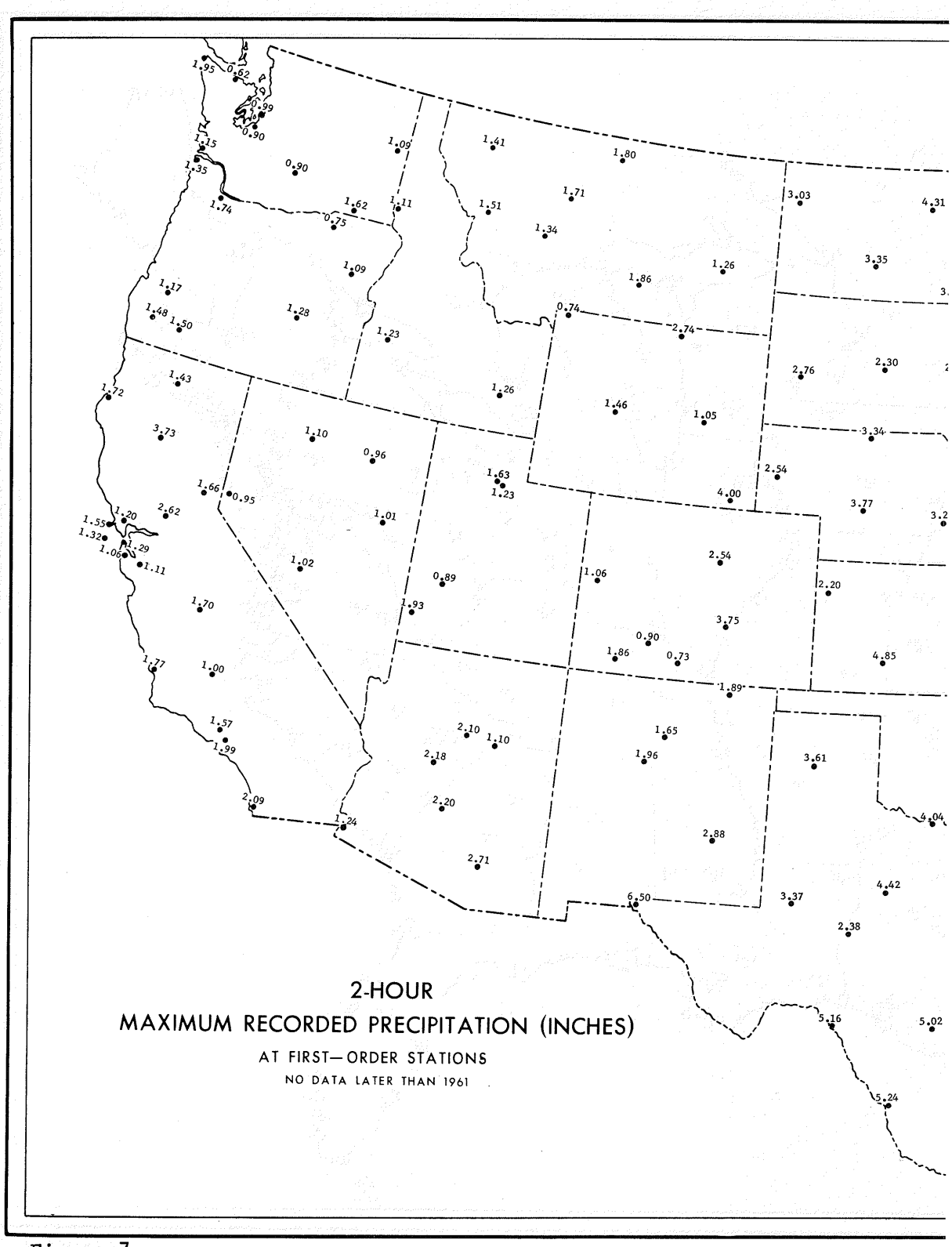

2-HOUR
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 7

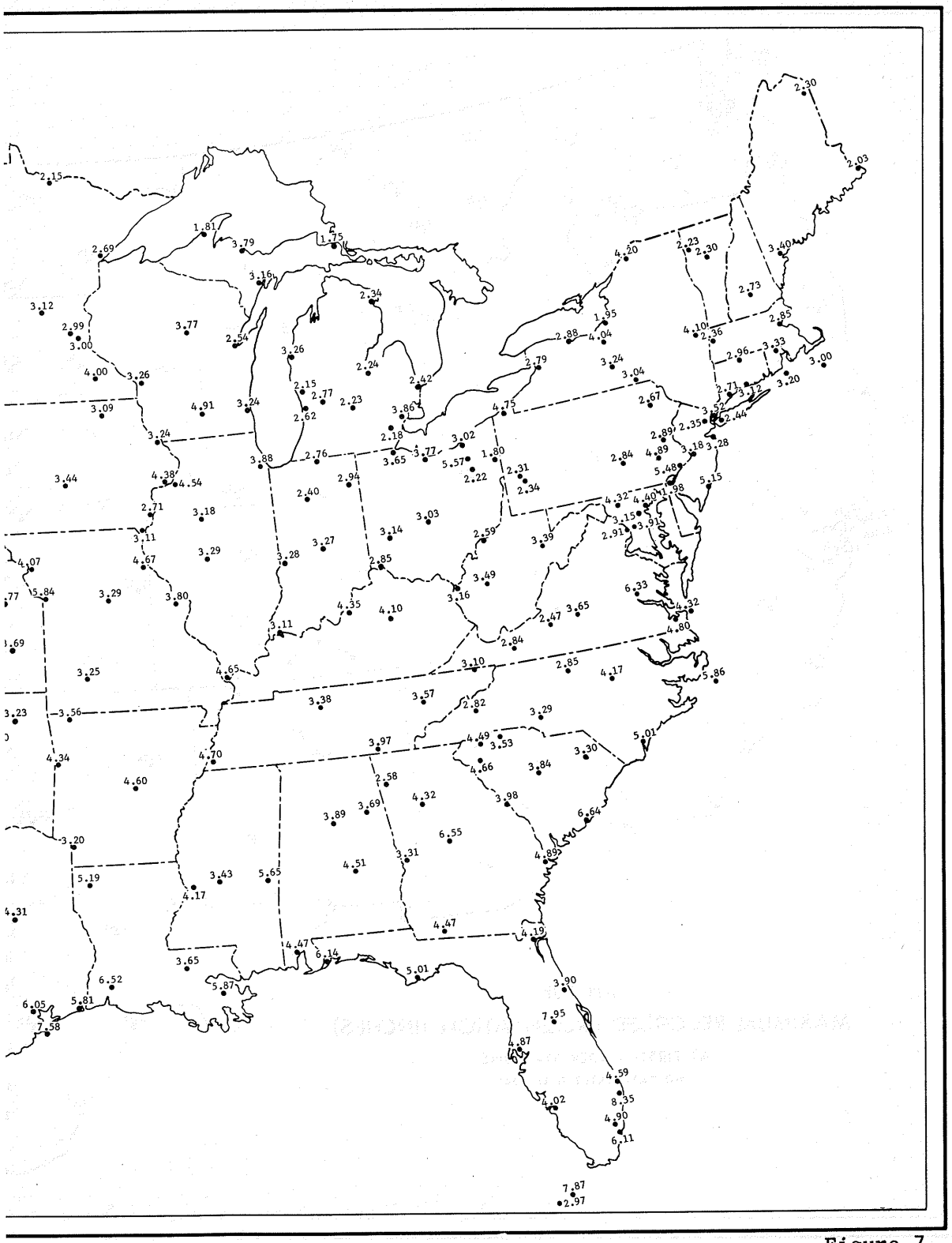


Figure 7

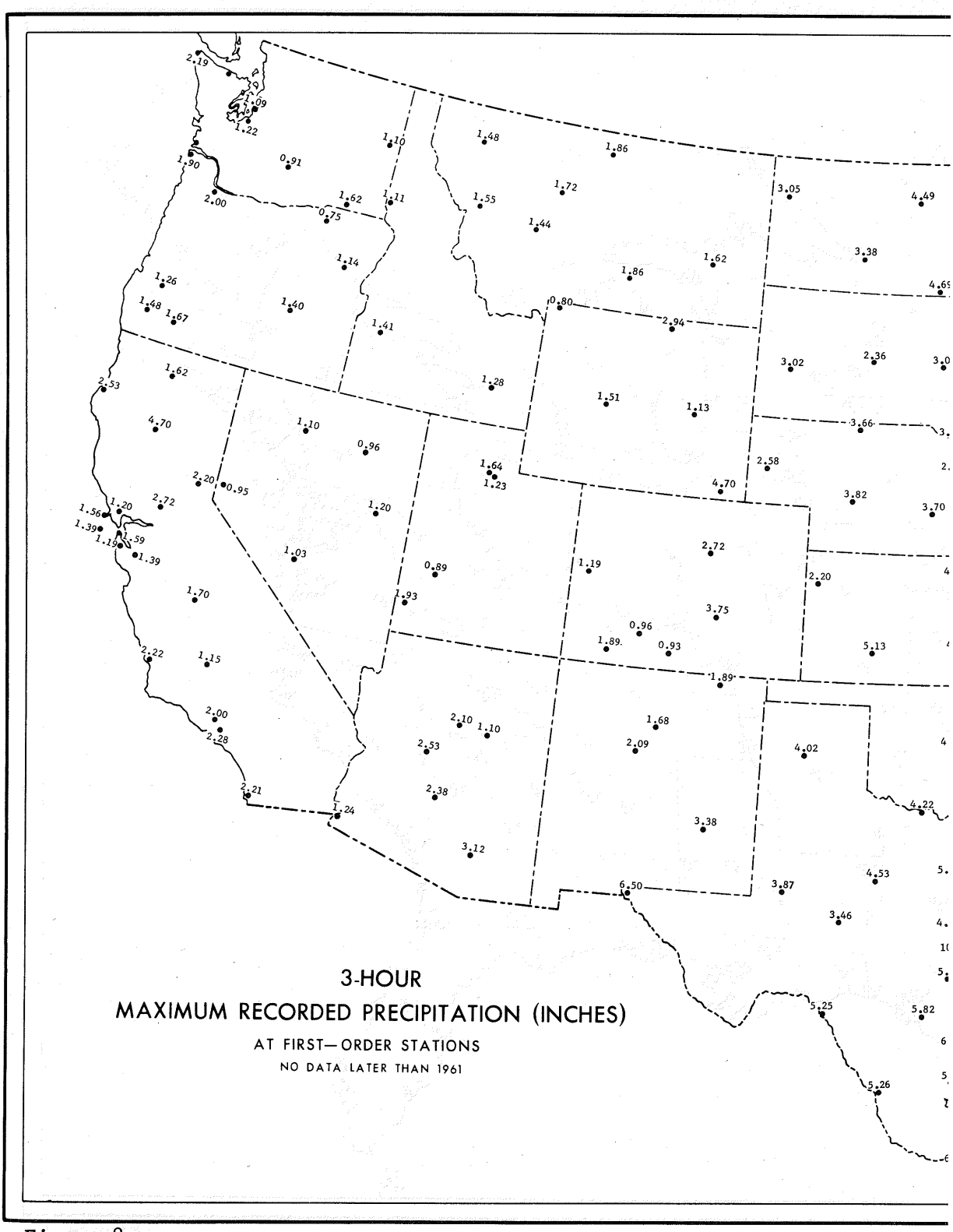

3-HOUR
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 8

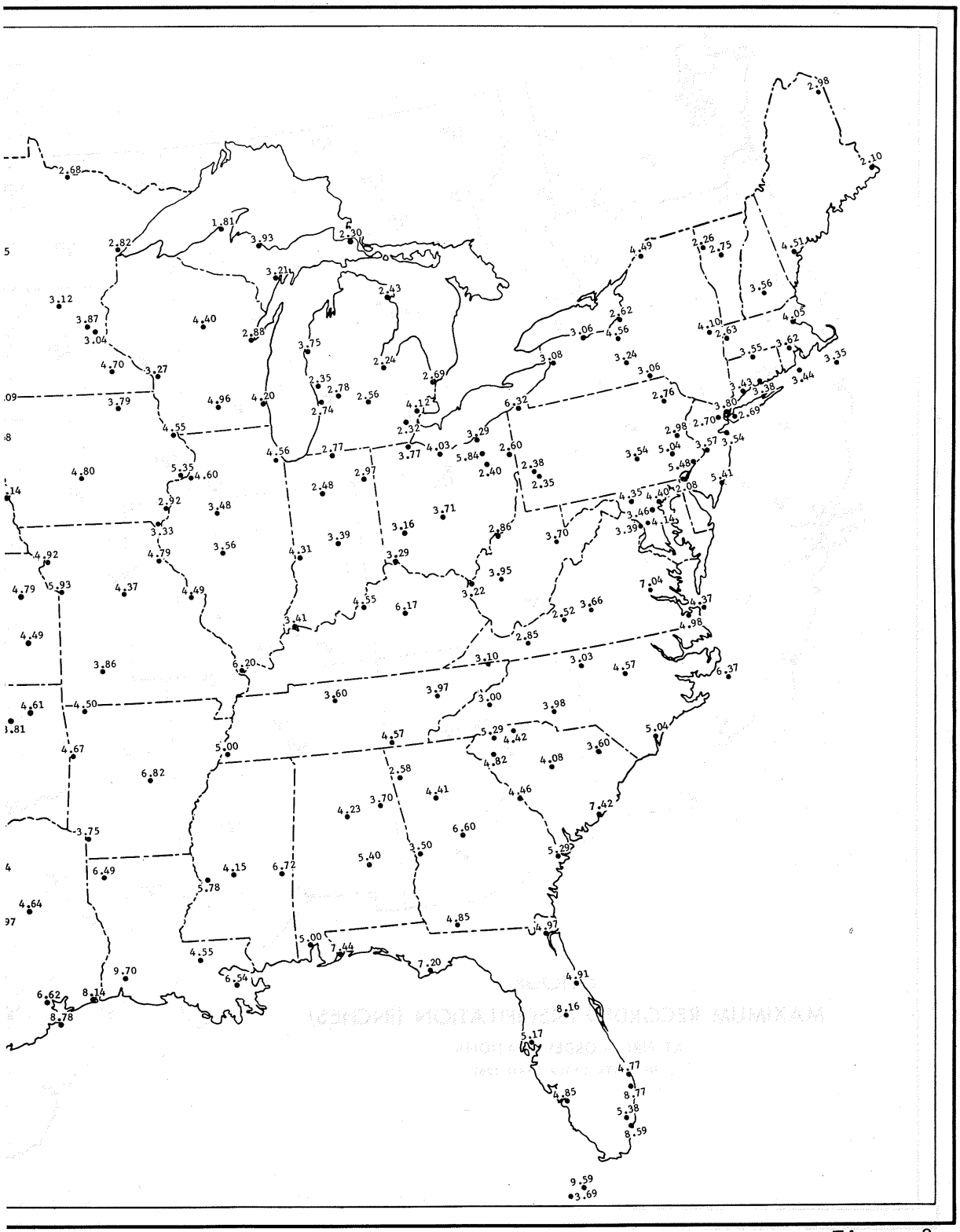


Figure 8

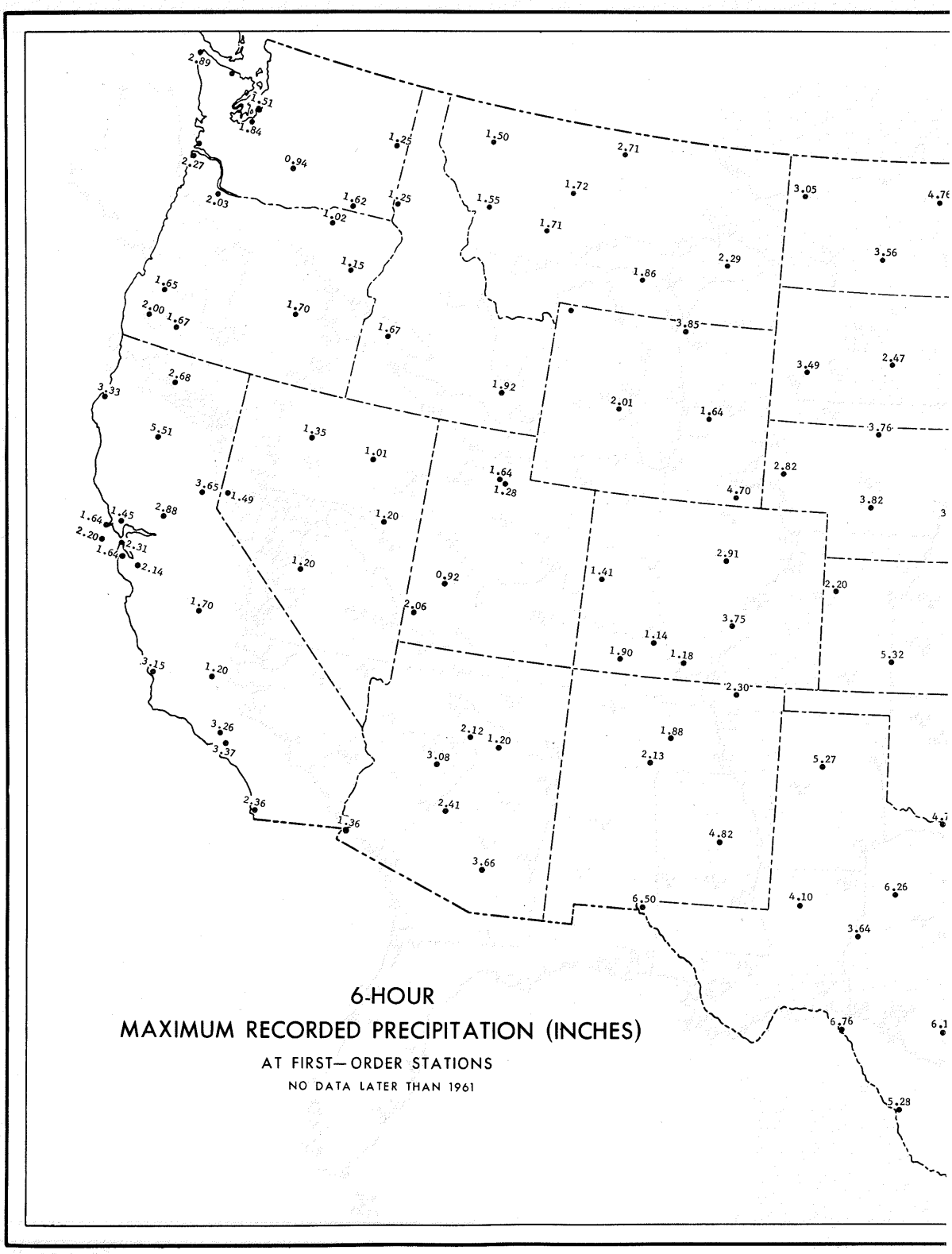

6-HOUR
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 9

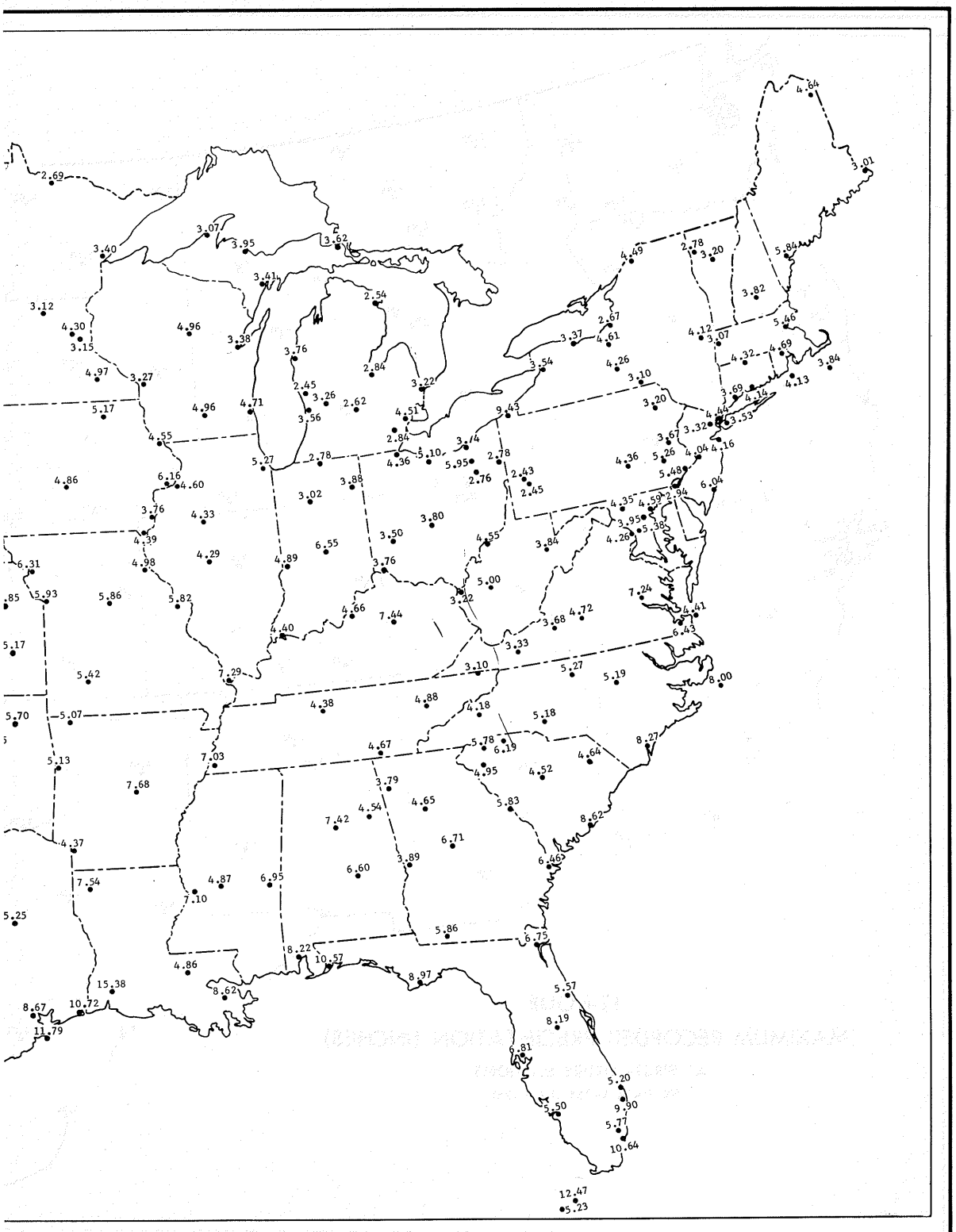

4.64
3.01
2.69
3.07
3.40
3.95
3.62
4.49
2.78
3.20
5.84
3.41
3.82
3.12
2.54
2.67
4.30
4.96
5.46
3.37
4.61
4.12
3.07
3.15
3.38
4.26
4.32
4.69
3.84
3.76
3.54
3.10
4.97
3.27
2.84
3.22
2.45
3.26
2.62
3.20
4.13
5.17
4.96
4.71
3.56
4.51
9.43
3.69
4.14
4.44
3.53
2.84
3.67
3.32
4.55
3.14
4.36
5.10
5.95
2.78
4.36
5.26
4.04
4.16
5.27
2.78
2.43
5.48
4.86
6.16
4.60
3.88
2.76
2.45
6.04
3.02
4.35
4.59
2.94
3.76
4.33
3.80
3.95
5.38
4.39
3.50
4.55
3.84
4.26
6.55
6.31
4.98
4.29
4.89
3.76
5.00
7.24
5.85
5.93
5.86
5.82
3.22
4.41
4.66
7.44
3.68
4.72
6.43
4.40
3.33
5.17
3.10
5.27
5.19
8.00
5.42
7.29
4.38
4.88
4.18
5.18
5.70
5.07
8.27
4.67
5.78
6.19
4.64
7.03
5.13
4.95
4.52
3.79
4.65
7.68
4.54
7.42
5.83
8.62
6.71
4.37
3.89
6.46
6.60
7.54
4.87
6.95
7.10
5.25
5.86
6.75
8.22
10.57
4.86
8.97
15.38
8.62
5.57
8.67
10.72
8.19
11.79
6.81
5.20
9.90
5.50
5.77
10.64
12.47
5.23

Figure 9

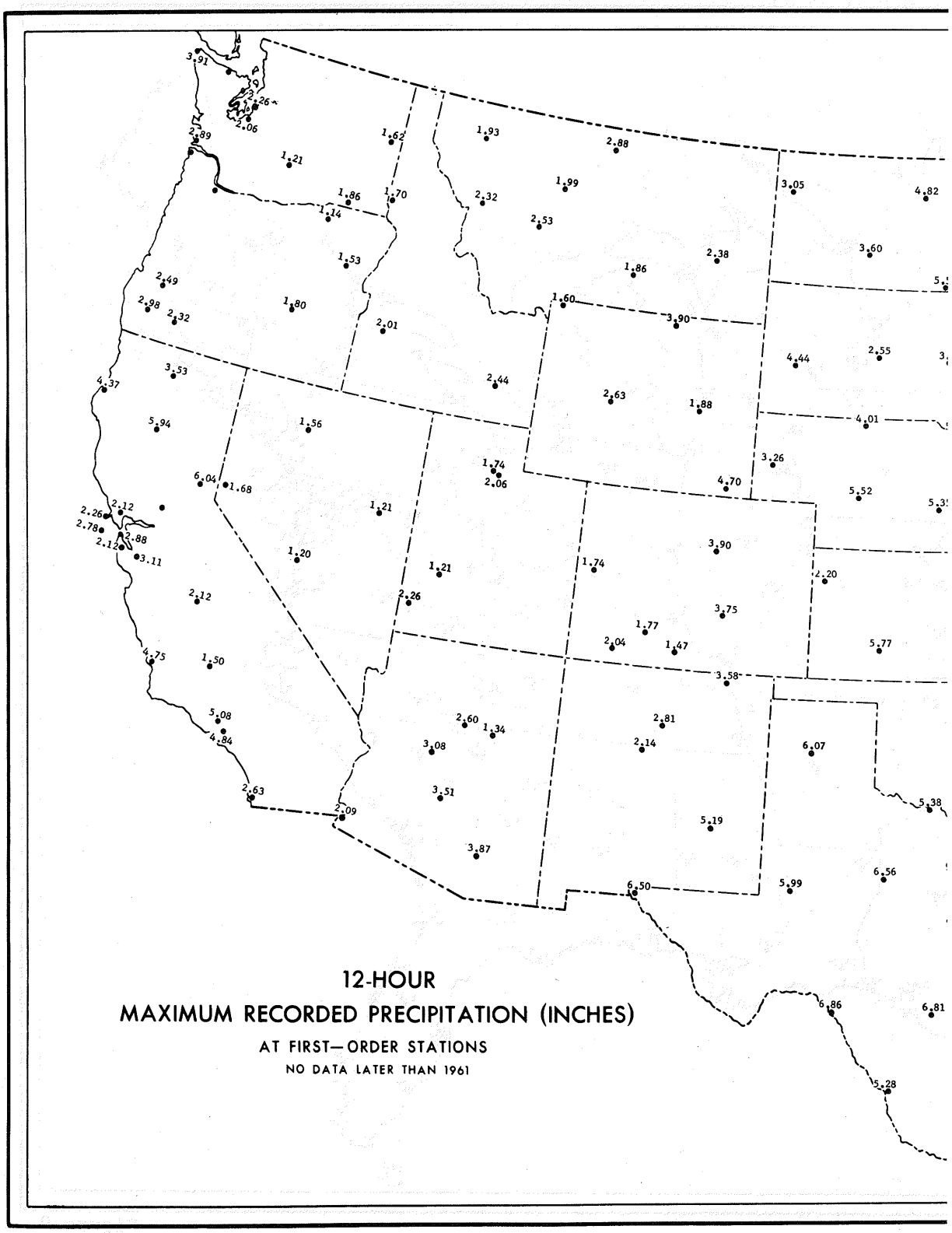

12-HOUR
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 10

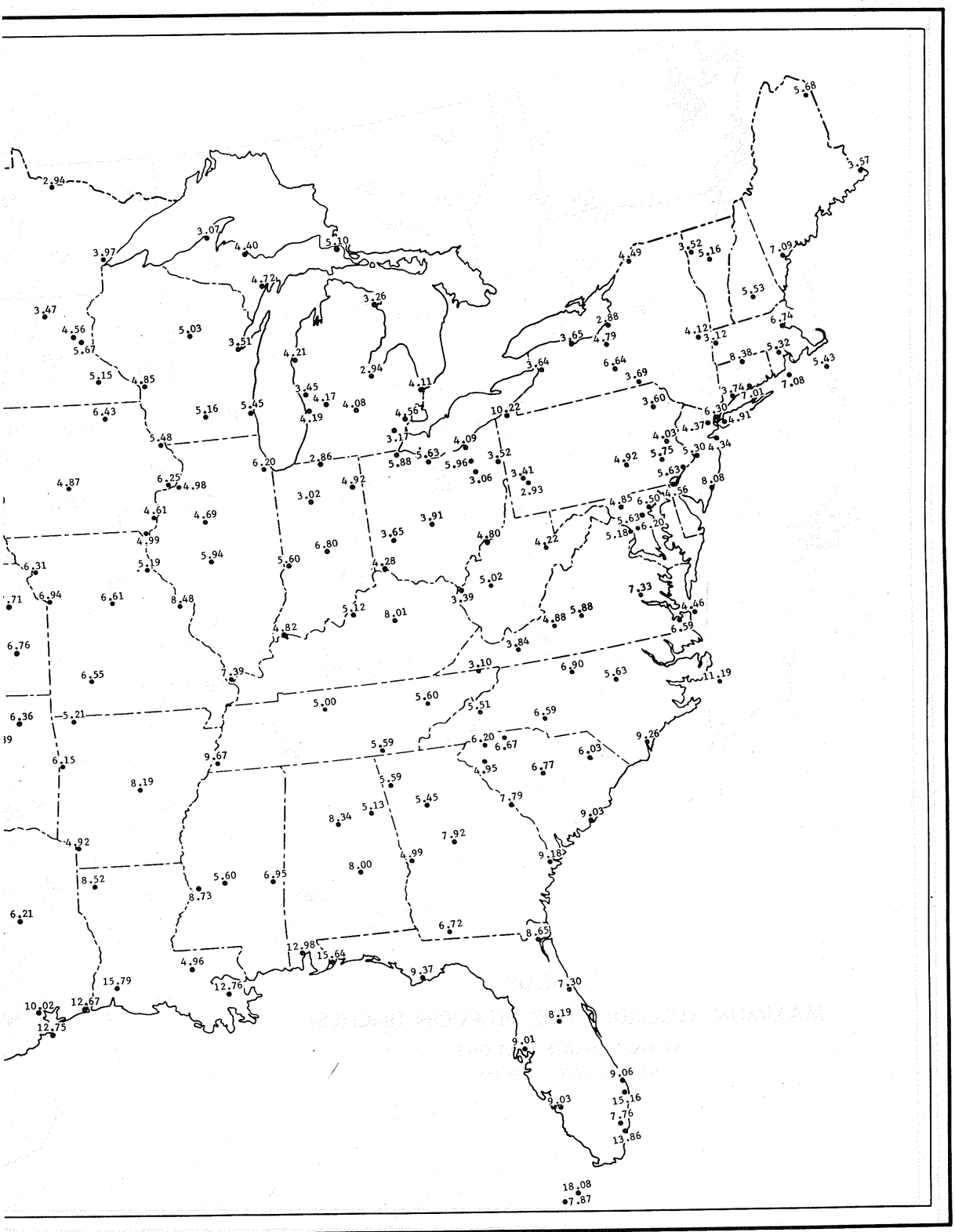


Figure 10

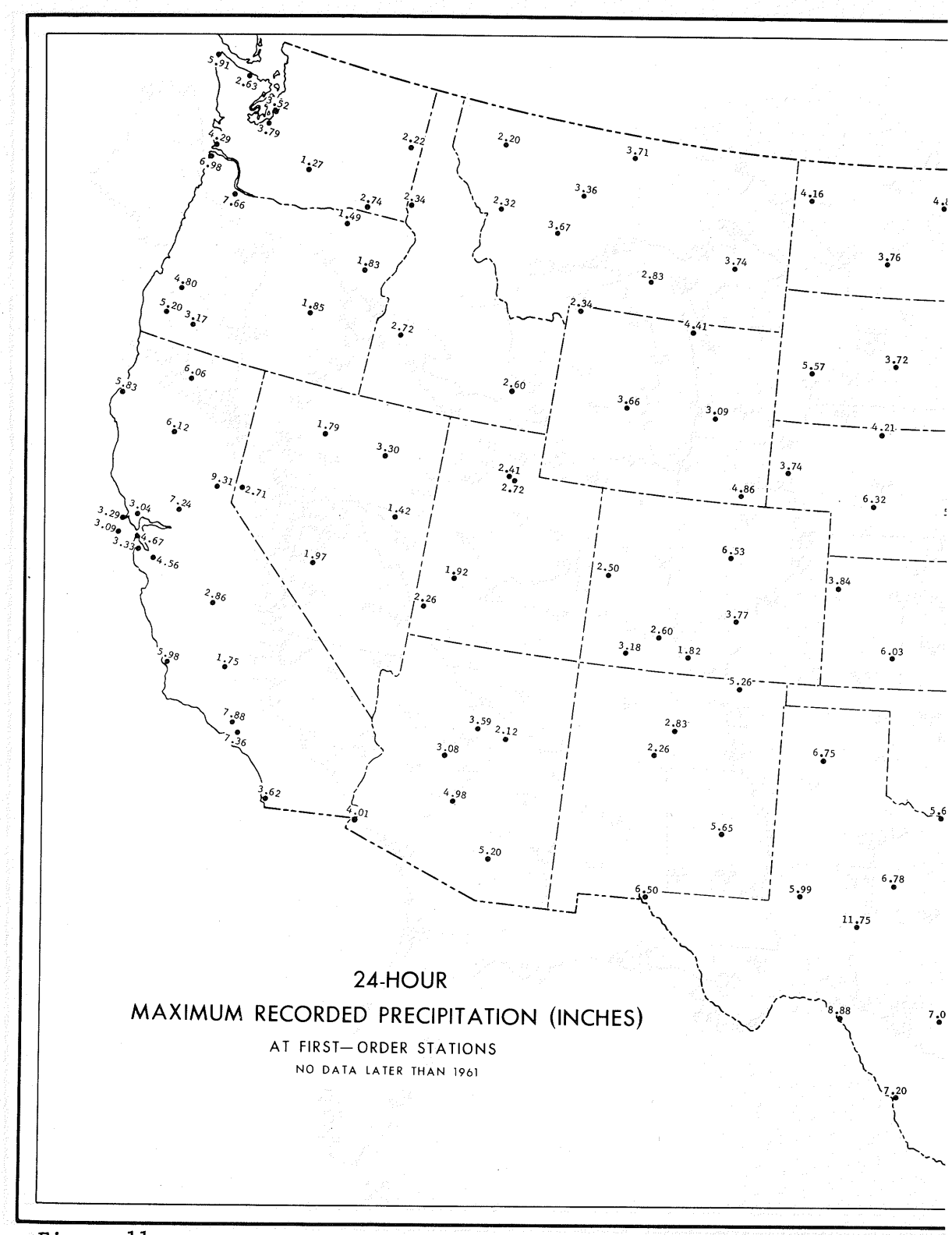
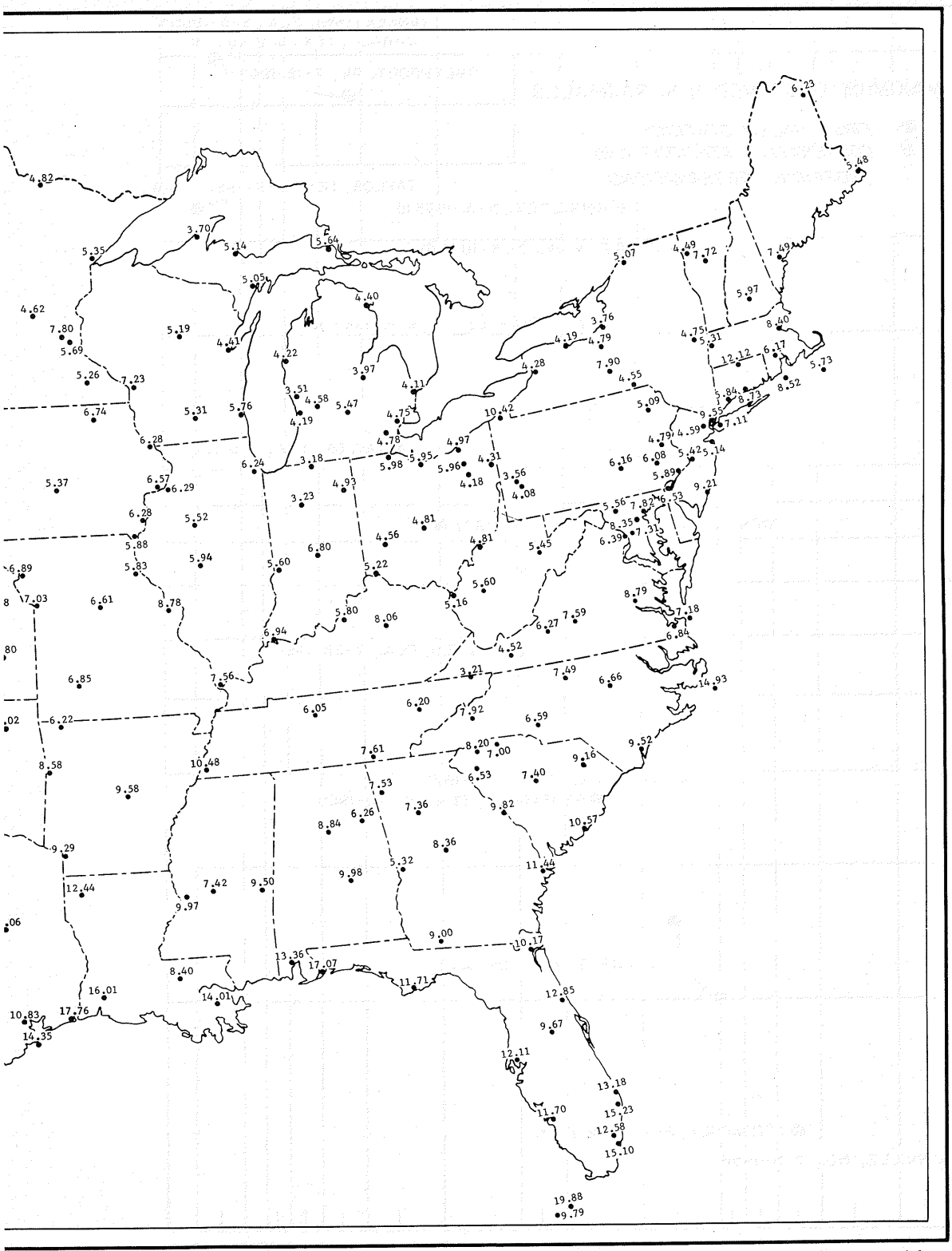

24-HOUR
MAXIMUM RECORDED PRECIPITATION (INCHES)
AT FIRST—ORDER STATIONS
NO DATA LATER THAN 1961

Figure 11


4.82
3.70
5.14
5.64
5.35
5.05
4.40
4.62
7.80
5.69
5.19
4.41
4.22
3.97
5.26
7.23
3.51
4.58
5.47
4.11
6.74
5.31
5.76
4.19
4.75
4.78
5.98
5.95
5.96
4.31
4.97
10.42
4.28
3.18
6.24
6.28
5.37
6.57
6.29
4.93
3.23
3.56
4.08
4.18
6.28
5.52
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4.56
4.81
5.45
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5.83
5.94
5.60
6.80
5.22
6.89
7.03
6.61
8.78
5.80
8.06
5.16
5.60
6.94
6.27
7.59
4.52
6.84
6.85
7.56
3.21
7.49
6.66
14.93
6.05
6.20
7.92
6.59
6.22
7.61
8.20
7.00
9.52
9.16
8.58
10.48
6.53
7.40
9.58
7.53
7.36
6.26
9.82
8.84
10.57
8.36
9.29
5.32
11.44
12.44
7.42
9.50
9.98
9.97
9.00
10.17
13.36
17.07
8.40
11.71
16.01
14.01
12.85
10.83
17.76
9.67
14.35
12.11
13.18
11.70
15.23
12.58
15.10
19.88
9.79
6.23
5.48
5.07
4.49
7.72
7.49
5.97
8.40
3.76
4.19
4.79
4.75
5.31
12.12
6.17
5.73
7.90
4.55
4.28
8.52
5.84
8.73
5.09
9.55
7.11
4.79
4.59
5.42
5.14
6.16
6.08
5.89
9.21
5.56
7.82
6.53
8.35
7.31
6.39
8.79
7.18
6.84
14.93
6.66
7.49
3.21
6.20
6.05
7.92
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9.52
9.16
7.00
8.20
7.61
6.53
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7.53
9.82
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6.26
8.84
10.57
8.36
11.44
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Figure 11

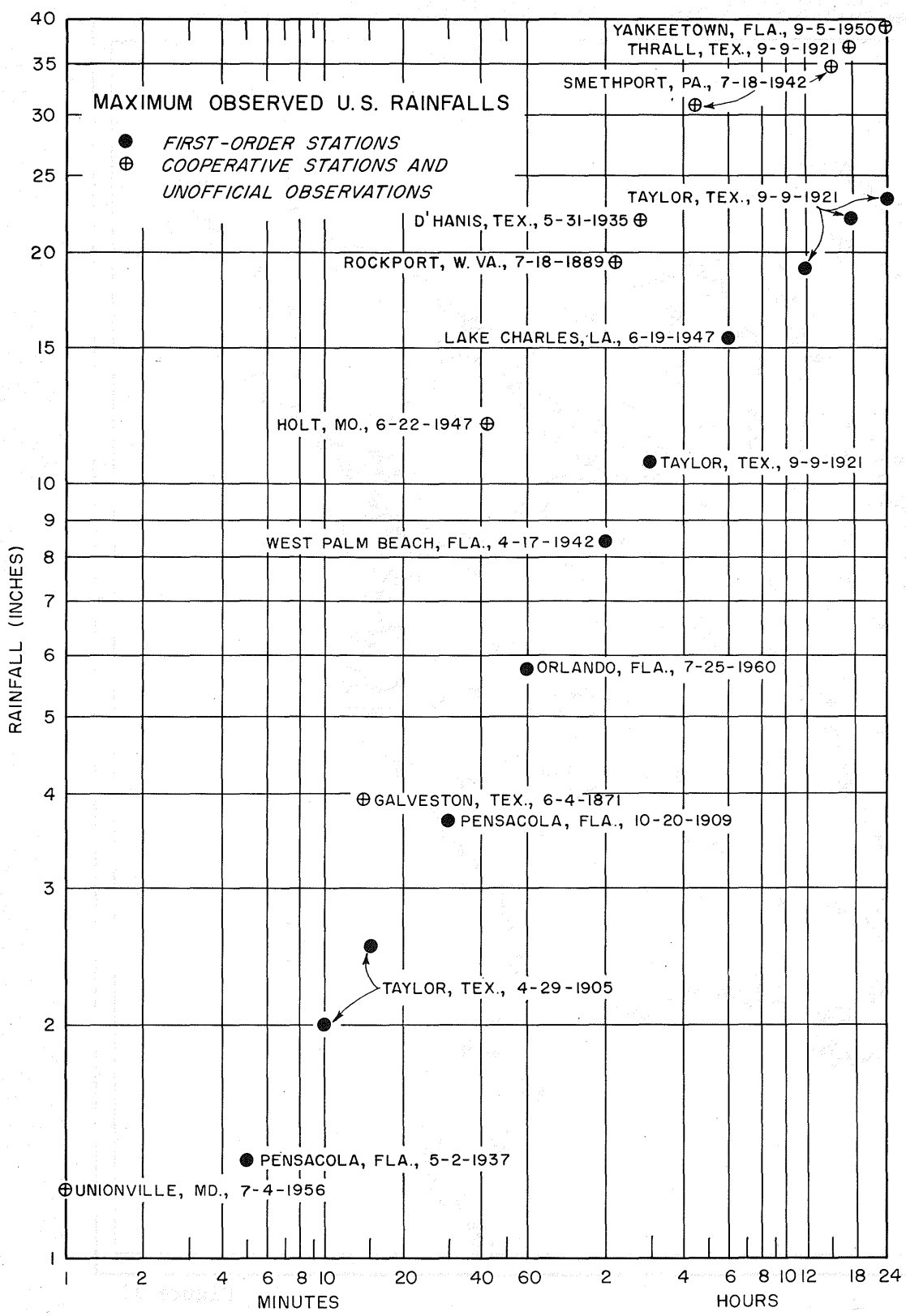

Figure 12.- Maximum observed rainfalls in the United States

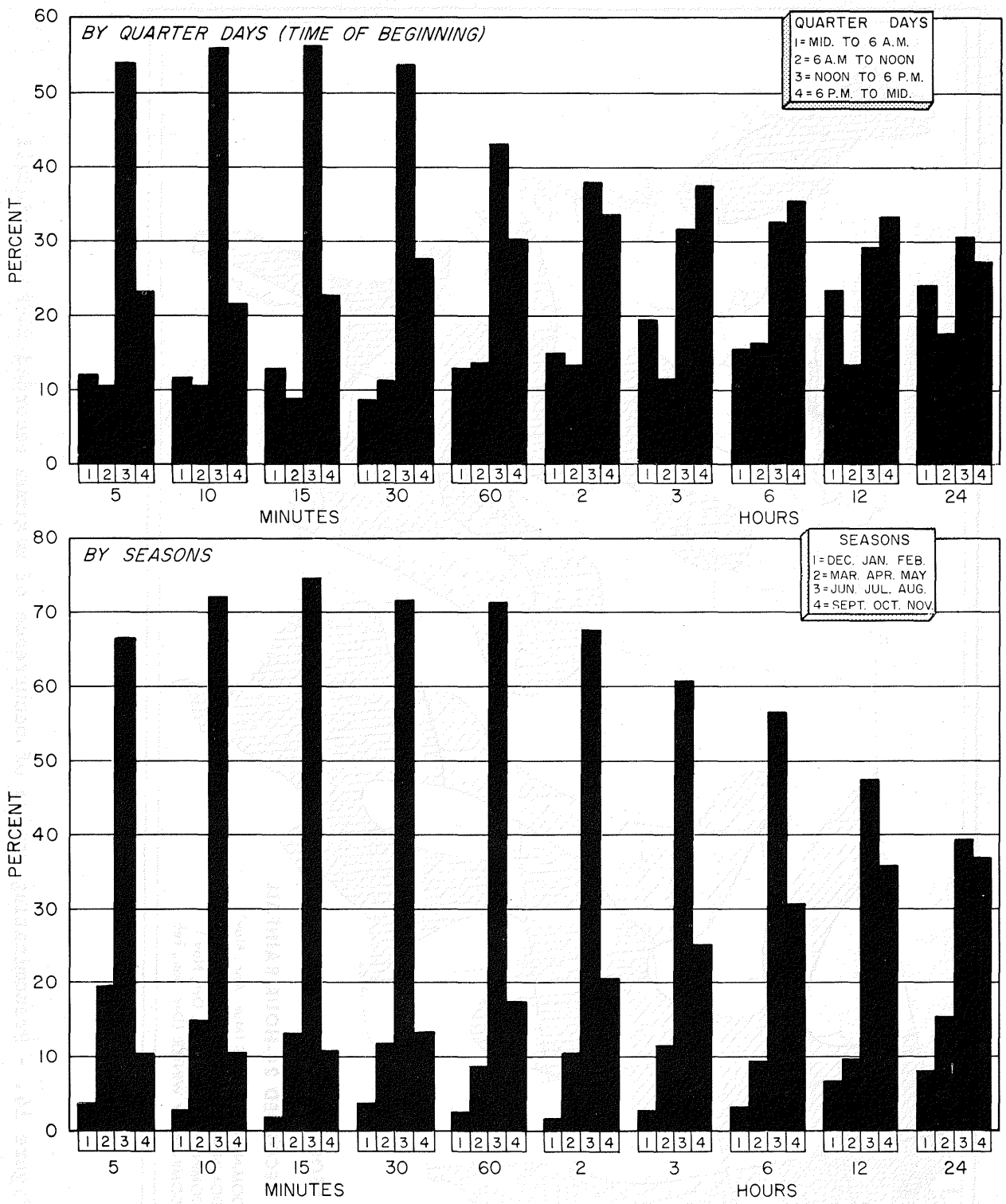

Figure 13. - Daily and seasonal distribution of maximum rainfall occurrences

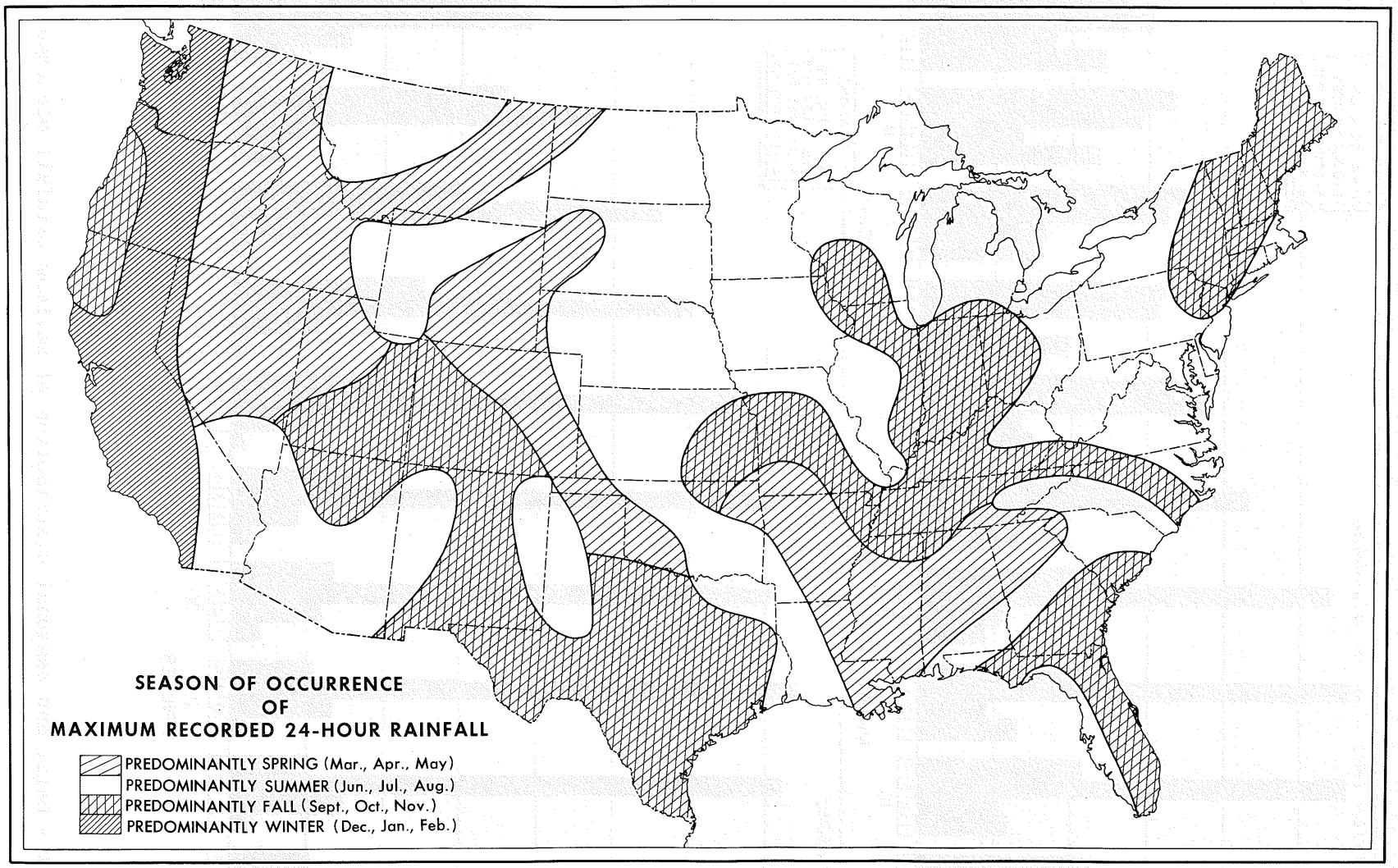

Figure 14. - Predominating season of occurrence of maximum recorded 24-hour rainfall

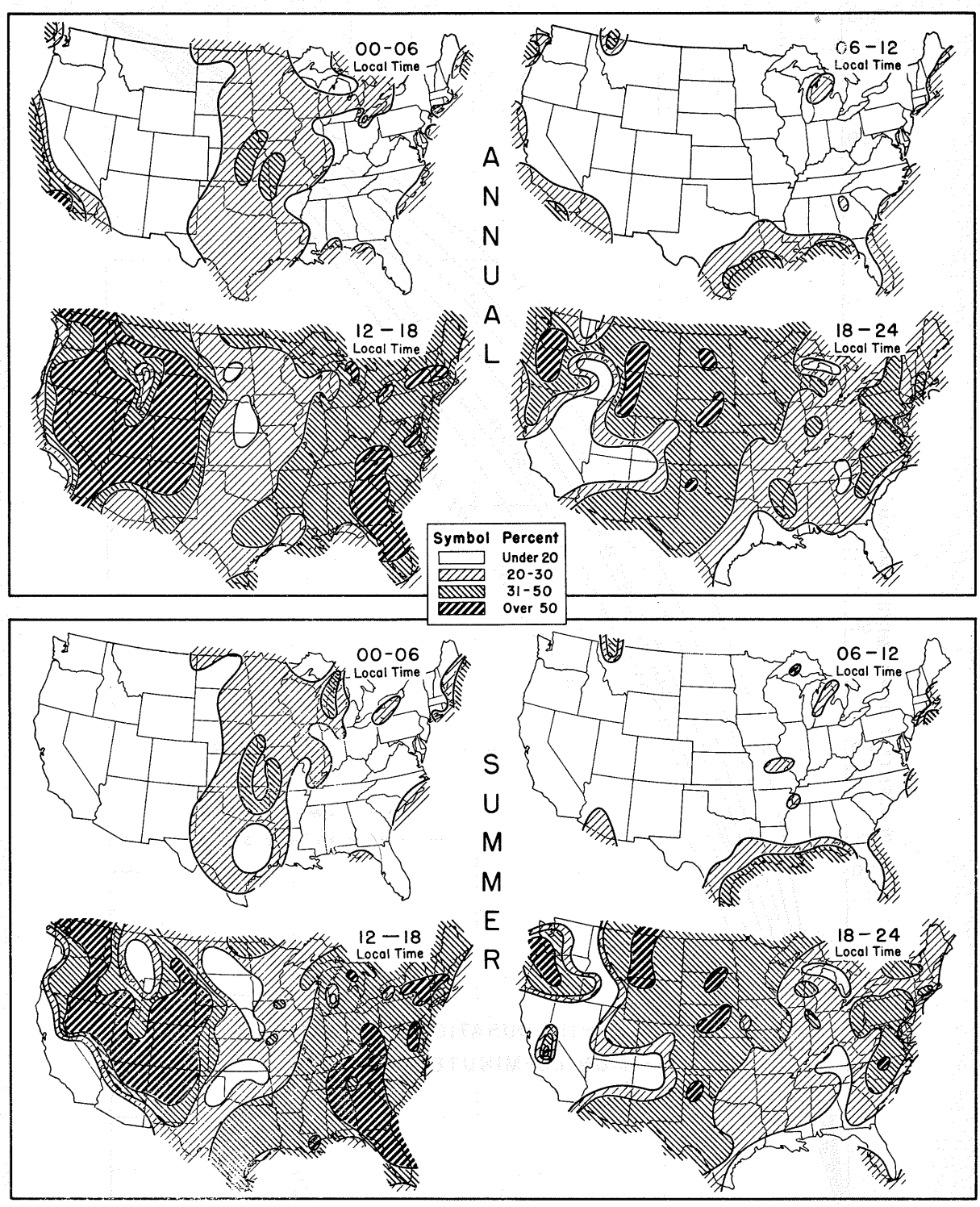

Figure 15.- Percentages of excessive rain occurrences per quarter day, 1904-33. (from /15/.)

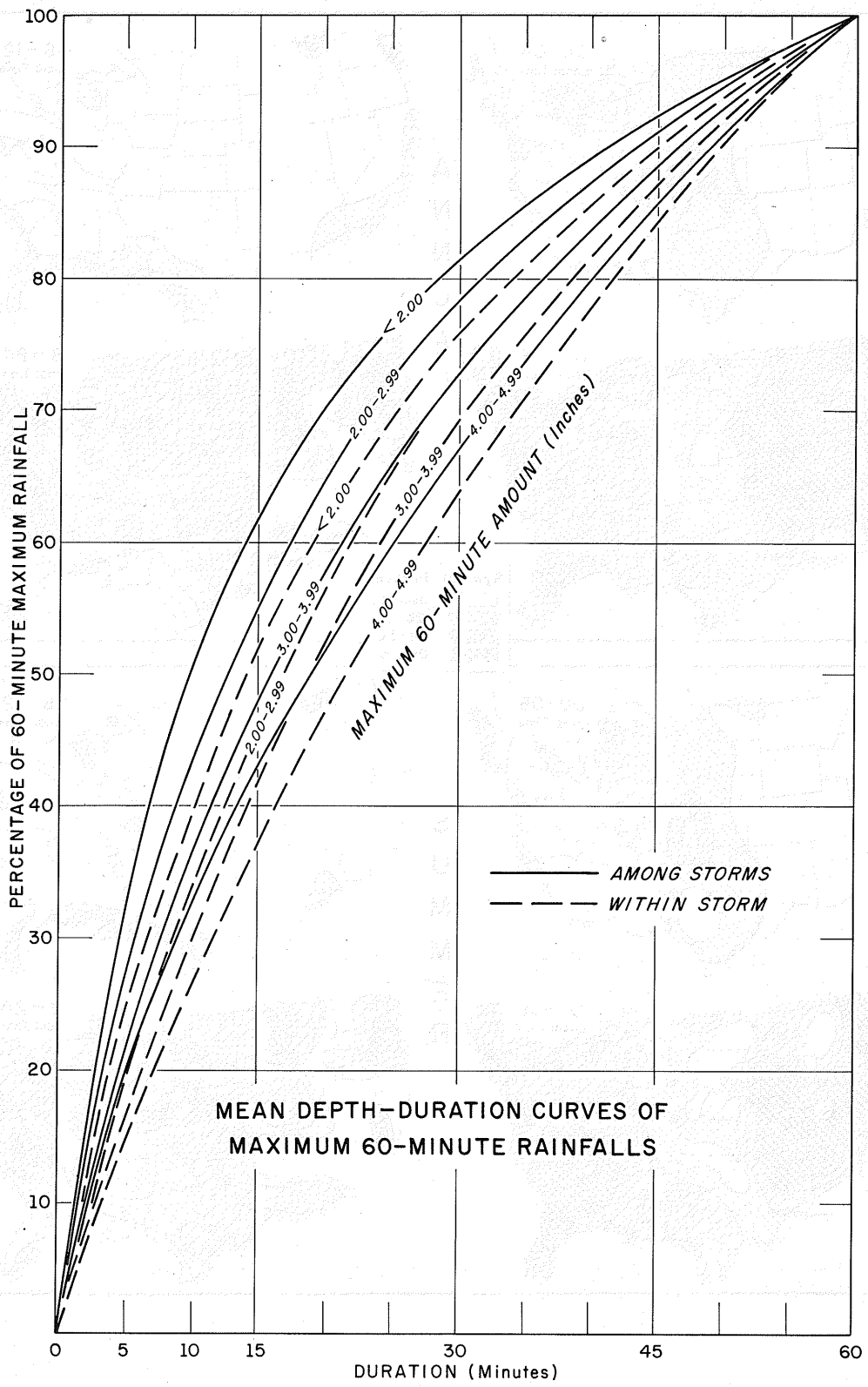

Figure 16. - Mean depth-duration curves of maximum 60-minute rainfalls.

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