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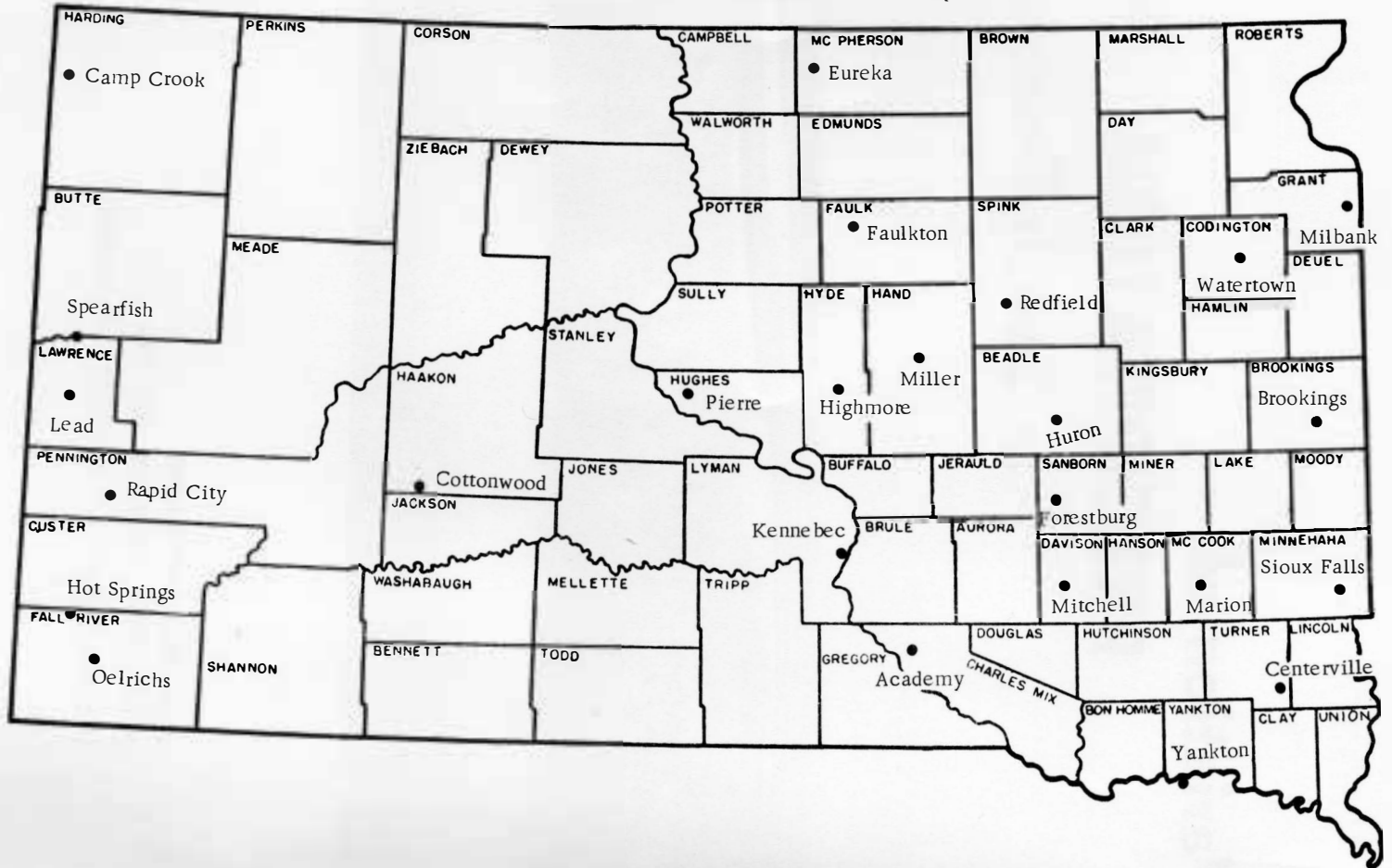
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Variation of PRECIPITATION in South Dakota



ECONOMICS DEPARTMENT
AGRICULTURAL EXPERIMENT STATION
SOUTH DAKOTA STATE UNIVERSITY, BROOKINGS

Figure 1. Location of Stations for Variations in Precipitation.



Variation of PRECIPITATION in South Dakota

By Ray F. Pengra, Emeritus Professor of Economics

What is the probability of various amounts of precipitation in South Dakota? The purpose of this pamphlet is to answer this question. The answer to this question will be of interest to farmers, agronomists, plant pathologists, engineers, irrigation specialists and livestock producers among others. For example, these data can be used to determine the best planting time for crops and the influence of precipitation on crop yields. Certain plant diseases and insects are affected by precipitation and plans for irrigation must consider the probabilities of precipitation if they are to be successful.

To determine the probability of precipitation in South Dakota the data from 25 weather stations was analyzed. The location of these stations is shown on the map, Figure 1. The years of record used for each station are given in Table 1. Either 50 or 60 years of data were used from each Station except Miller where 59 years were available. Some years were omitted when the data were incomplete or missing as was the case at Camp Crook, Centerville, Highmore, Oelrichs and Watertown. Because data were available before 1901 at Camp Crook, High-

more, Oelrichs and Watertown it was still possible to use 60 years of data in the analysis.

Since length of record was the criteria used in picking the stations, the distribution of stations over the state is not uniform. However, extrapolation may be used between stations.

The Weather Bureau's system of numbering weeks was used in this study. Week No. 1 always starts with March 1 of each year and week No. 53 always includes leap year in one year of four. The number of each week with inclusive dates are shown in Table 2. Note that the 44th week includes December 27 to January 2 of each year. Each of the charts starts with the 45th week or January 3-9 in order to present the data by approximately the calendar year.

Table 3 shows the average weekly precipitation for the 25 weather stations for weeks 6, 10, 15 and 20. These weeks cover a period from April 5 to July 18.

Table 4 lists the percentage of years precipitation received was below a half inch and the percent it was a half inch or more for selected weeks for the

W. F. Lytle, associate professor of Agricultural Engineering assisted with this publication.

Table 1. Data Used

Station	Dates	Total years
Academy	1901 - 1960	60
Brookings	1901 - 1960	60
Camp Crook	1896 - 1905, 1907 - 1917, 1920 - 1953, 1955, 1957 - 1960	60
Centerville	1907 - 1947, 1952 - 1960	50
Cottonwood	1911 - 1960	50
Eureka	1911 - 1960	50
Faulkton	1901 - 1960	60
Forestburg	1901 - 1960	60
Highmore	1900, 1901, 1903 - 1960	60
Hot Springs	1911 - 1960	50
Huron	1901 - 1960	60
Kennebec	1911 - 1960	50
Lead	1911 - 1960	50
Marion	1901 - 1960	60
Milbank	1901 - 1960	60
Miller	1902 - 1960	59
Mitchell	1901 - 1960	60
Oelrichs	1897 - 1908, 1910 - 1952, 1955, 1957 - 1960	60
Pierre	1901 - 1960	60
Rapid City	1901 - 1960	60
Redfield	1901 - 1960	60
Sioux Falls	1901 - 1960	60
Spearfish	1901 - 1960	60
Watertown	1899, 1900, 1903 - 1960	60
Yankton	1901 - 1960	60

25 stations included in this study. As is shown in the other tables and charts precipitation is received later in the growing season in the eastern part of the state than in the central and western areas. This no doubt accounts for the higher yields of corn and other long season crops in the eastern part of the state.

Earlier the probabilities of various amounts of precipitation in South Dakota had been developed using 12 weather stations. These data were used

with similar data from other states to prepare precipitation probability maps for the North Central States for one - two - and three - week periods and for six different periods throughout the year.¹

Thus the present study increases our knowledge of the variations in precipitation by analyzing the data from twice as many stations.

There is a definite reduction in total precipitation received within

Table 2. Week Numbers with Inclusive Dates Used In This Study

Week Number	Beginning Date	Ending Date	Week Number	Beginning Date	Ending Date
1	Mar. 1	Mar. 7	28	Sept. 6	Sept. 12
2	Mar. 8	Mar. 14	29	Sept. 13	Sept. 19
3	Mar. 15	Mar. 21	30	Sept. 20	Sept. 26
4	Mar. 22	Mar. 28	31	Sept. 27	Oct. 3
5	Mar. 29	Apr. 4	32	Oct. 4	Oct. 10
6	Apr. 5	Apr. 11	33	Oct. 11	Oct. 17
7	Apr. 12	Apr. 18	34	Oct. 18	Oct. 24
8	Apr. 19	Apr. 25	35	Oct. 25	Oct. 31
9	Apr. 26	May 2	36	Nov. 1	Nov. 7
10	May 3	May 9	37	Nov. 8	Nov. 14
11	May 10	May 16	38	Nov. 15	Nov. 21
12	May 17	May 23	39	Nov. 22	Nov. 28
13	May 24	May 30	40	Nov. 29	Dec. 5
14	May 31	June 6	41	Dec. 6	Dec. 12
15	June 7	June 13	42	Dec. 13	Dec. 19
16	June 14	June 20	43	Dec. 20	Dec. 26
17	June 21	June 27	44	Dec. 27	Jan. 2
18	June 28	July 4	45	Jan. 3	Jan. 9
19	July 5	July 11	46	Jan. 10	Jan. 16
20	July 12	July 18	47	Jan. 17	Jan. 23
21	July 19	July 25	48	Jan. 24	Jan. 30
22	July 26	Aug. 1	49	Jan. 31	Feb. 6
23	Aug. 2	Aug. 8	50	Feb. 7	Feb. 13
24	Aug. 9	Aug. 15	51	Feb. 14	Feb. 20
25	Aug. 16	Aug. 22	52	Feb. 21	Feb. 27
26	Aug. 23	Aug. 29	53	Feb. 28	Feb. 29
27	Aug. 30	Sept. 5			

South Dakota from the southeast to the west and north. This is due in part to the fact that the usual path of the pre-

vailing winds that bring the bulk of the moisture to the central and north central part of the United States comes

¹See: North Central Regional Technical Committee NC-26 Precipitation Probabilities in the North Central States. North Central Regional Publication 115, Missouri Agricultural Experiment Station Bulletin 753 June 1960 (copies available from author). The data from which these maps were prepared are presented in Gerald L. Barger, Robert H. Shaw, and Robert F. Dale, Chances of Receiving Selected Amounts of Precipitation in the North Central Region of the U. S., Iowa Agricultural Experiment Station, Ames (mimeographed publication), 1959, p. 277

Table 3. The Average Weekly Precipitation at 25 Stations in South Dakota

Station	6 Apr. 5-11	10 May 3-9	15 June 7-13	20 July 12-18	25 Aug. 16-22
Academy	.431	.600	.892	.470	.682
Brookings	.349	.677	.955	.432	.475
Camp Crook	.202	.362	.862	.448	.292
Centerville	.424	.670	1.091	.527	.689
Cottonwood	.325	.508	.886	.525	.536
Eureka	.223	.405	.850	.515	.559
Faulkton	.395	.487	.794	.446	.479
Forestburg	.432	.589	.934	.554	.572
Highmore	.323	.501	.766	.512	.451
Hot Springs	.411	.582	.719	.664	.363
Huron	.369	.516	.835	.553	.481
Kennebec	.327	.457	.835	.437	.504
Lead	.667	.583	1.022	.698	.486
Marion	.467	.653	1.060	.759	.599
Milbank	.444	.533	.982	.527	.735
Miller	.387	.473	.834	.472	.572
Mitchell	.457	.627	.853	.634	.578
Oelrichs	.453	.591	.897	.509	.260
Pierre	.283	.486	.760	.504	.488
Rapid City	.340	.514	.893	.593	.290
Redfield	.350	.479	.799	.494	.576
Sioux Falls	.455	.734	1.043	.601	.615
Spearfish	.432	.536	.968	.528	.339
Watertown	.345	.472	.914	.642	.625
Yankton	.429	.714	1.103	.700	.614

from the Gulf of Mexico. The prevailing winds normally move slightly northwest from the Gulf. Over the central part of Nebraska the current turns in a northeastern direction and flows over Iowa the southeastern part of Minnesota, Wisconsin and Illinois. Normally, only the southeastern part of South Dakota is in the path of these prevailing winds. These air currents are extremely erratic especially on the northern and western edges of the normal path. The farther north and west the more variable the amount of pre-

cipitation received. Because a large part of South Dakota lies beyond the normal path of these air currents the amount of precipitation varies considerably over most of the state and particularly from year to year. When less than average or normal precipitation is received dry land farming is in trouble.

The variations in precipitation can be readily seen in the tables and charts for the 25 stations within the various areas of the State. The wide

Table 4. Percentage of Years Weekly Precipitation Was Below A Half Inch and A Half Inch or Above

Week Number	Selected Weeks									
	6		10		15		20		25	
	Apr. 5-11		May 3-9		June 7-13		July 12-18		Aug. 16-22	
	Below .5	.5 or more	Below .5	.5 or more	Below .5	.5 or more	Below .5	.5 or more	Below .5	.5 or more
Academy	62	38	56	44	45	55	72	28	62	38
Brookings	75	25	58	42	35	65	68	32	64	36
Camp Crook	90	10	73	27	50	50	68	32	74	26
Centerville	72	28	52	48	34	66	66	34	58	42
Cottonwood	80	20	68	32	52	48	72	28	68	32
Eureka	82	18	72	28	48	52	68	32	62	38
Faulkton	73	27	65	35	50	50	72	28	63	37
Forestburg	72	28	60	40	35	65	60	40	66	34
Highmore	70	30	70	30	43	57	67	33	70	30
Hot Springs	78	22	52	48	48	52	50	50	70	30
Huron	75	25	68	32	45	55	69	31	72	28
Kennebec	74	26	68	32	48	52	68	32	70	30
Lead	52	48	52	48	40	60	60	40	64	36
Marion	67	33	50	50	38	62	52	48	52	48
Milbank	68	32	58	42	35	65	65	35	60	40
Miller	71	29	70	30	45	55	70	30	63	37
Mitchell	68	32	54	46	40	60	59	41	60	40
Oelrichs	68	32	58	42	45	55	64	36	80	20
Pierre	76	24	70	30	46	54	65	35	67	33
Rapid City	73	27	67	33	42	58	58	42	83	17
Redfield	73	27	68	32	49	51	72	28	71	29
Sioux Falls	69	31	48	52	28	72	58	42	55	45
Spearfish	65	35	58	42	45	55	75	25	73	27
Watertown	78	22	64	36	45	55	55	45	60	40
Yankton	72	28	51	49	39	61	60	40	59	41

Table 5. Comparison of Precipitation for an Eastern, Central and Western Station To Show Variations Between Areas

Week Number	Average Weekly Precipitation in Inches									
	6		10		15		20		25	
	Apr. 5-11		May 3-9		June 7-13		July 12-18		Aug. 16-22	
Sioux Falls	.455	.734	1.043	.601	.615					
Huron	.369	.516	.835	.553	.481					
Camp Crook	.202	.362	.862	.448	.292					

	Per Cent of Years									
	Below .5" or .5 over		Below .5" or .5 over		Below .5" or .5 over		Below .5" or .5 over		Below .5" or .5 over	
	6	10	15	20	25	6	10	15	20	25
Sioux Falls	69	31	48	52	28	72	58	42	55	45
Huron	75	25	68	32	45	55	69	31	72	28
Camp Crook	90	10	73	27	50	50	68	32	74	26

variations in precipitation are particularly clear when data for Sioux Falls, Huron and Camp Crook are compared as in Table 5.

During each of the five weeks shown the amount of precipitation decreases from station to station from east to west. Likewise the percentage of years receiving less than a half inch of precipitation during each week increases from east to west. During the 6th week (April 5-11) precipitation at Sioux Falls exceeded .5 inches in 31 percent of the years while in Huron this occurred in only 25 percent of the years and in Camp Crook during only 10 percent of the years. The same general relationship holds for the 10th, 15th, 20th and 25th weeks. The heaviest precipitation for all stations of the state falls within the 14th and 16th week or from May 31st through June 20.

The remainder of this report consists of graphs for each of the 25 Weather Stations that show average weekly

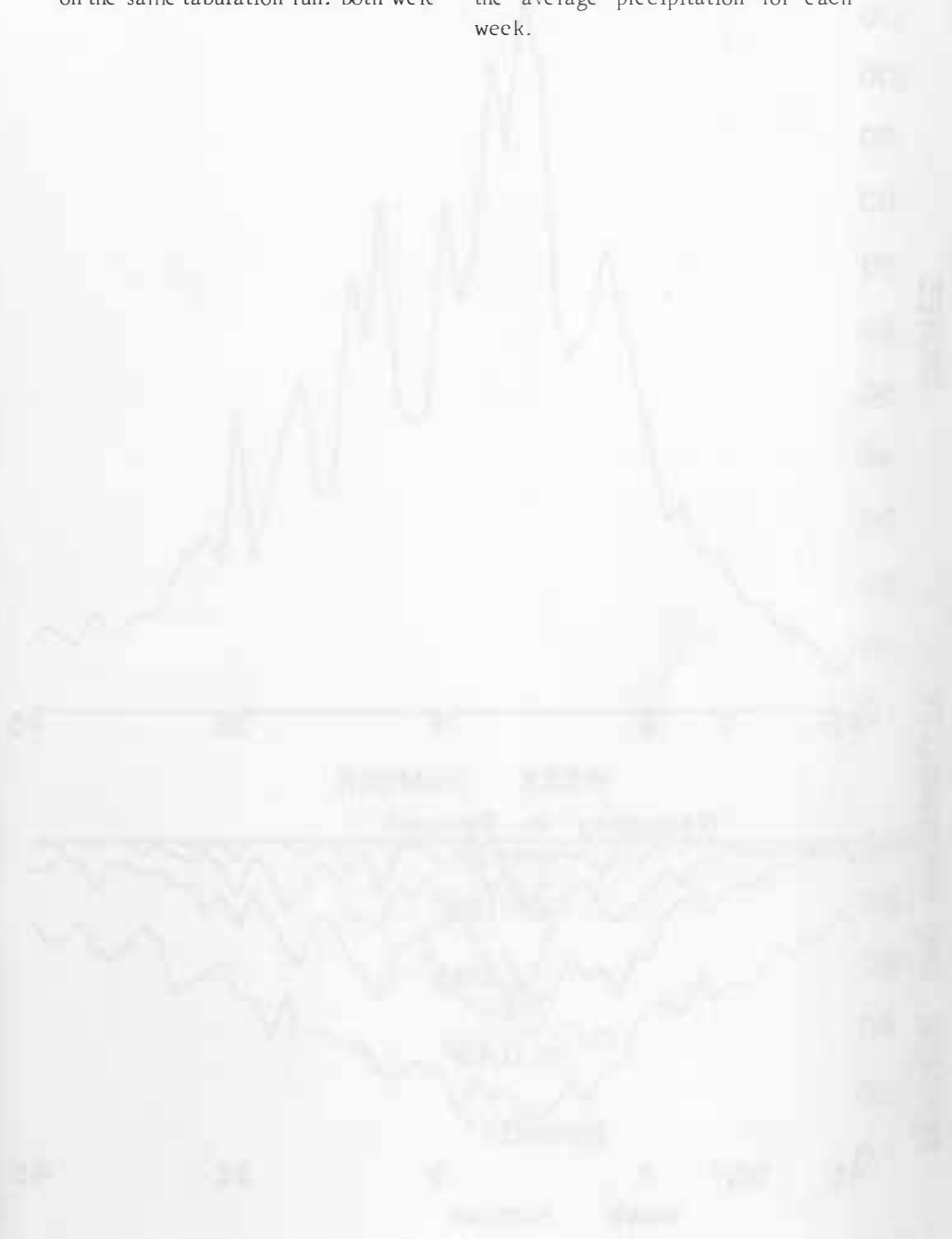
precipitation and the likelihood of the precipitation for the week falling within the ranges specified above. Also included are the tables of data from which these graphs were made.

The daily weather data for each station were placed on weather cards and these were summarized on weekly weather cards. The data for the tables and graphs were then secured from the weekly weather cards. International Business Machines were used in compiling this data.

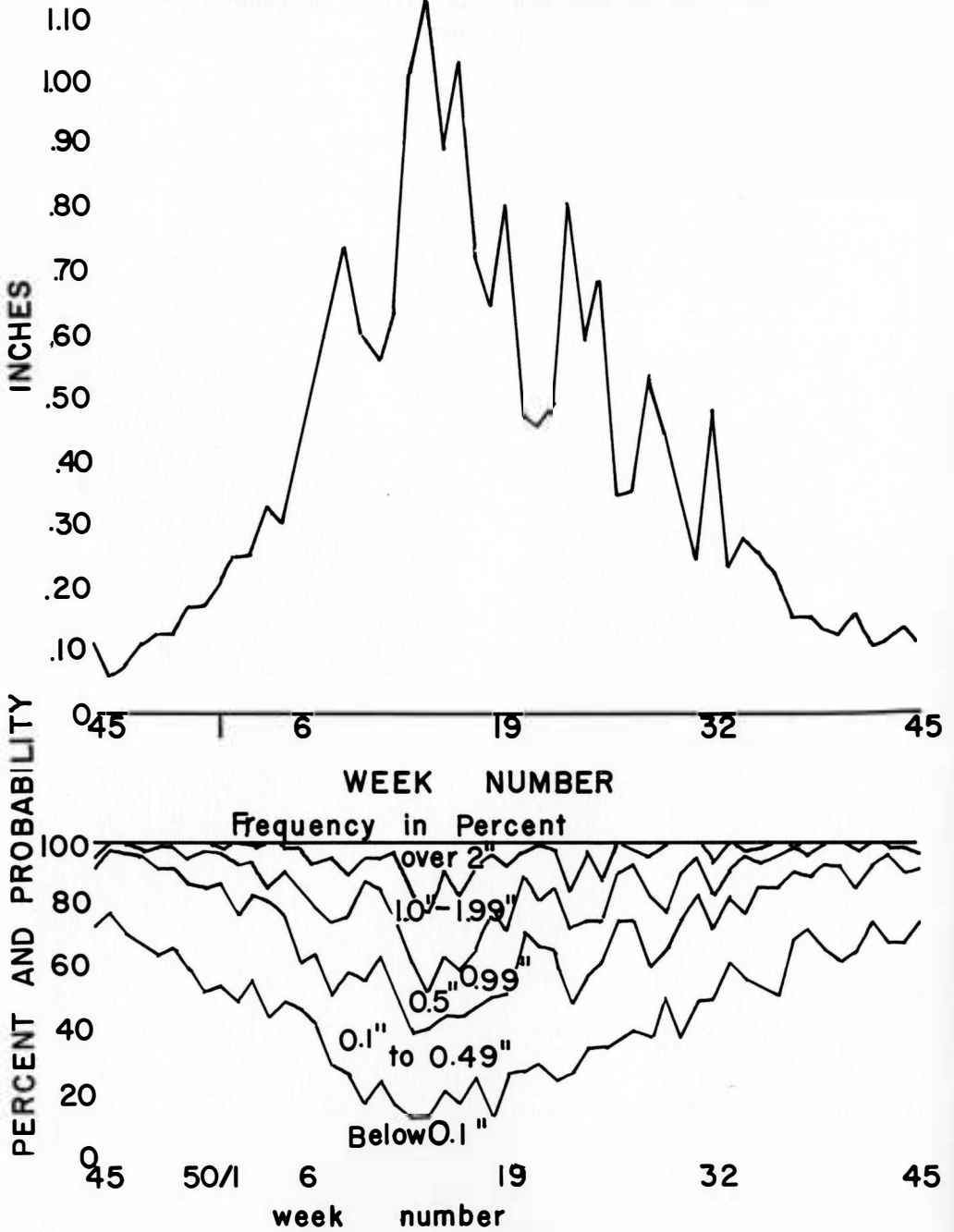
To secure the data, the weekly weather cards for each station were first arrayed according to the amount of precipitation received. The cards were then sorted by weeks and tabulated to secure the cumulative frequency for each of the following precipitation ranges: below 0.1 inches; from 0.1 inches to 0.49; from 0.50 to 0.99; from 1.00 to 1.99 inches and 2.00 inches and over. The total pre-

precipitation for each week for all the years for each station was also secured on the same tabulation run. Both were

then divided by the number of years of data used from each station to secure the average precipitation for each week.



Average Weekly Precipitation, Academy (0043), 1901-1960

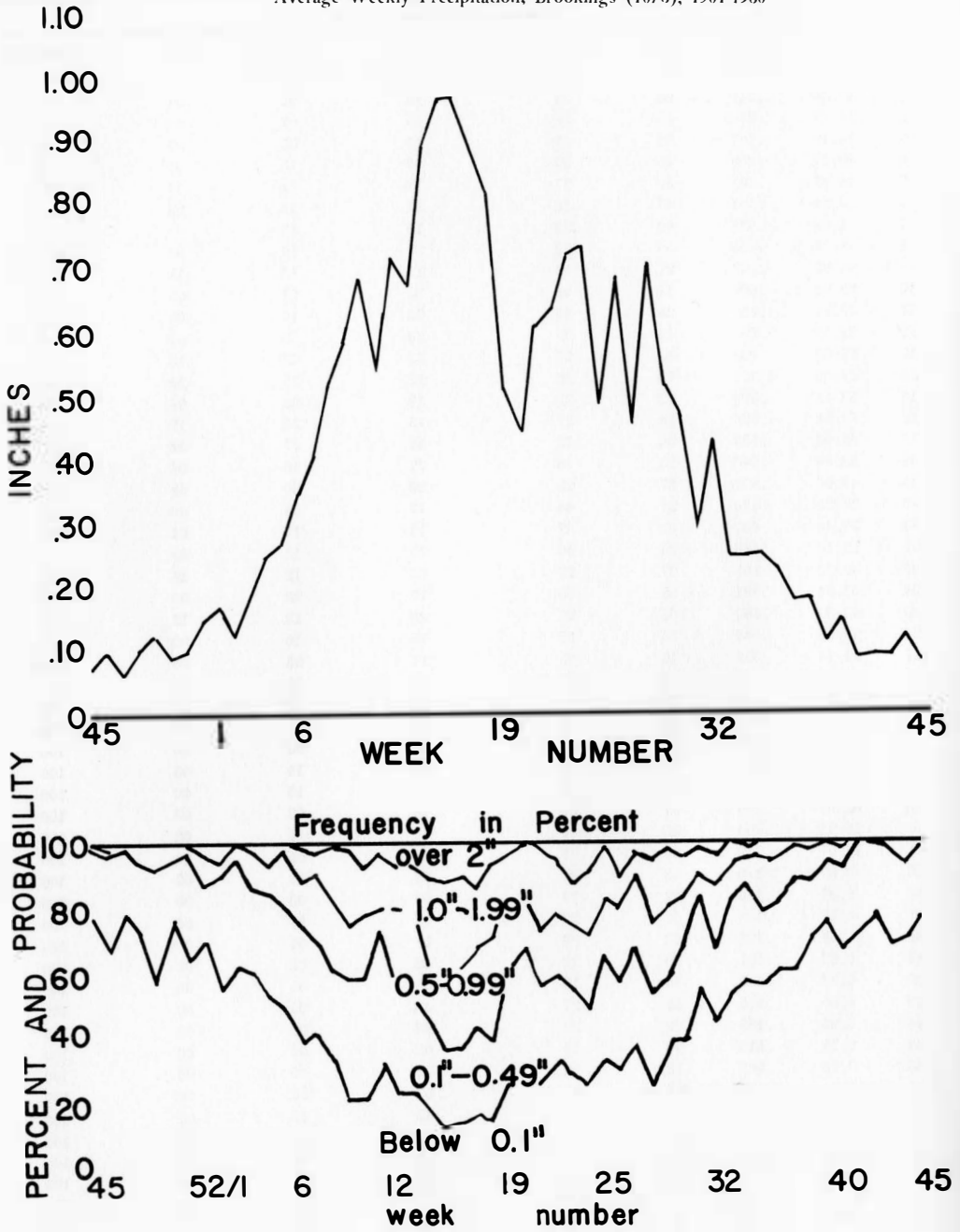


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (0043) Academy, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	Accumulated
1	12.74	.212	55	32	10	02	01	100
2	14.97	.250	50	28	15	07	00	100
3	15.42	.257	57	27	10	05	01	100
4	19.77	.330	45	37	03	15	00	100
5	18.07	.301	50	27	15	07	01	100
6	25.84	.431	47	15	23	13	02	100
7	31.68	.528	42	23	15	13	07	100
8	38.25	.638	30	22	23	20	05	100
9	44.82	.747	27	32	17	13	11	100
10	35.98	.600	18	38	32	07	05	100
11	33.83	.565	25	40	20	10	05	100
12	38.13	.636	17	35	23	22	03	100
13	59.89	.998	13	27	22	22	16	100
14	67.36	1.123	13	28	12	25	22	100
15	53.54	.892	22	23	19	28	08	100
16	61.54	1.026	18	27	15	23	17	100
17	45.04	.751	26	22	17	27	08	100
18	38.38	.640	13	38	27	18	04	100
19	48.06	.801	27	25	20	20	08	100
20	28.22	.470	28	44	17	08	03	100
21	27.44	.457	30	37	15	17	01	100
22	29.14	.486	25	40	20	12	03	100
23	48.32	.805	27	22	23	12	16	100
24	34.84	.581	35	23	17	22	03	100
25	40.90	.682	35	27	13	13	12	100
26	20.85	.348	38	37	15	10	00	100
27	21.13	.352	40	35	17	05	03	100
28	32.11	.535	38	22	22	13	05	100
29	26.79	.447	50	15	13	22	00	100
30	20.59	.343	38	37	15	10	00	100
31	14.64	.244	50	33	12	05	00	100
32	28.45	.474	50	22	10	10	08	100
33	13.93	.232	62	20	08	10	00	100
34	16.56	.276	57	20	18	02	03	100
35	15.21	.254	55	30	08	05	02	100
36	13.07	.218	52	33	10	05	00	100
37	9.37	.156	68	22	08	00	02	100
38	9.37	.156	72	17	06	05	00	100
39	8.12	.135	65	27	07	01	00	100
40	7.68	.128	62	30	07	01	00	100
41	9.67	.161	65	20	12	03	00	100
42	6.53	.109	74	18	08	00	00	100
43	6.90	.115	68	27	03	02	00	100
44	8.32	.139	68	22	08	02	00	100
45	6.78	.113	74	18	05	03	00	100
46	3.75	.063	78	20	02	00	00	100
47	4.65	.078	72	25	03	00	00	100
48	6.58	.110	68	28	02	02	00	100
49	7.94	.132	65	27	07	01	00	100
50	8.00	.133	67	25	07	01	00	100
51	10.40	.173	60	27	08	05	00	100
52	10.60	.177	53	33	12	02	00	100
53	2.27	.038	90	08	02	00	00	100

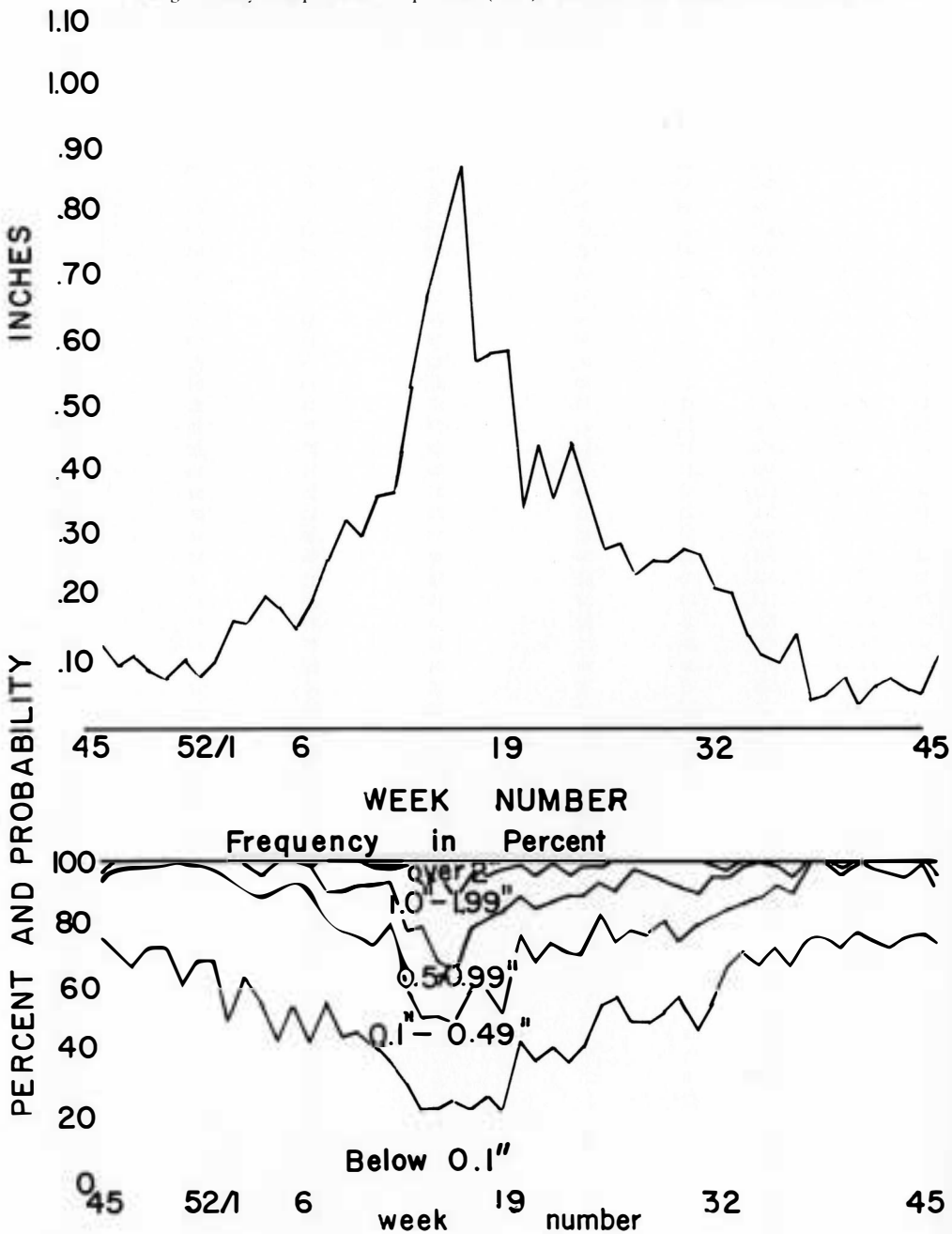
Average Weekly Precipitation, Brookings (1076), 1901-1960



Average Weekly Percipitation and Frequency of Occurrence of Indicated Amounts (1076) Brookings, 60 years

Weeks	Total Precip.	Average Precip.	Frequency in Per cent of Weeks					Accumulated
			Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	
1	10.14	.169	55	35	05	05	00	100
2	7.73	.129	62	33	05	00	00	100
3	11.51	.192	60	26	12	02	00	100
4	14.95	.249	52	33	08	07	00	100
5	15.81	.264	48	32	17	03	00	100
6	20.96	.349	38	37	13	12	00	100
7	24.10	.402	42	27	22	06	03	100
8	30.79	.513	32	28	22	18	00	100
9	34.46	.574	20	38	17	23	02	100
10	40.64	.677	20	38	20	15	07	100
11	32.15	.536	32	40	08	17	03	100
12	42.23	.704	22	30	23	18	07	100
13	40.16	.669	22	30	28	13	07	100
14	52.40	.873	17	27	18	27	11	100
15	57.29	.955	12	23	23	30	12	100
16	57.47	.958	13	23	25	27	12	100
17	53.31	.889	15	28	25	18	14	100
18	48.64	.811	13	25	33	22	07	100
19	30.29	.505	27	32	23	15	03	100
20	25.92	.432	30	38	13	19	00	100
21	36.13	.602	25	30	17	25	03	100
22	37.50	.625	33	25	20	17	05	100
23	42.78	.713	27	28	19	13	13	100
24	43.76	.729	25	23	23	20	09	100
25	28.51	.475	32	32	18	17	01	100
26	40.59	.677	28	28	24	08	12	100
27	26.63	.444	37	30	22	08	03	100
28	42.07	.701	23	30	22	20	05	100
29	30.75	.513	38	22	20	17	03	100
30	27.67	.461	38	30	15	12	05	100
31	16.86	.281	55	28	07	08	02	100
32	25.29	.422	43	23	20	10	04	100
33	14.59	.243	53	28	12	07	00	100
34	14.54	.242	57	30	08	03	02	100
35	14.58	.243	55	23	17	05	00	100
36	13.44	.224	60	22	12	06	00	100
37	10.31	.172	60	28	10	02	00	100
38	10.60	.177	70	17	10	03	00	100
39	6.65	.111	76	17	05	02	00	100
40	8.86	.148	66	25	07	02	00	100
41	5.19	.087	72	27	01	00	00	100
42	5.38	.090	77	22	01	00	00	100
43	5.38	.090	68	29	03	00	00	100
44	7.09	.118	70	23	07	00	00	100
45	4.24	.071	78	20	02	00	00	100
46	6.14	.102	67	30	02	01	00	100
47	3.71	.062	78	20	02	00	00	100
48	6.17	.103	72	22	05	01	00	100
49	7.39	.123	58	35	07	00	00	100
50	5.59	.093	77	18	05	00	00	100
51	5.97	.100	64	33	03	00	00	100
52	8.54	.142	70	17	10	03	00	100
53	1.53	.026	92	08	00	00	00	100

Average Weekly Precipitation, Camp Crook (1294), 1896-1905, 1907-1917, 1920-1953, 1955, 1957-1960

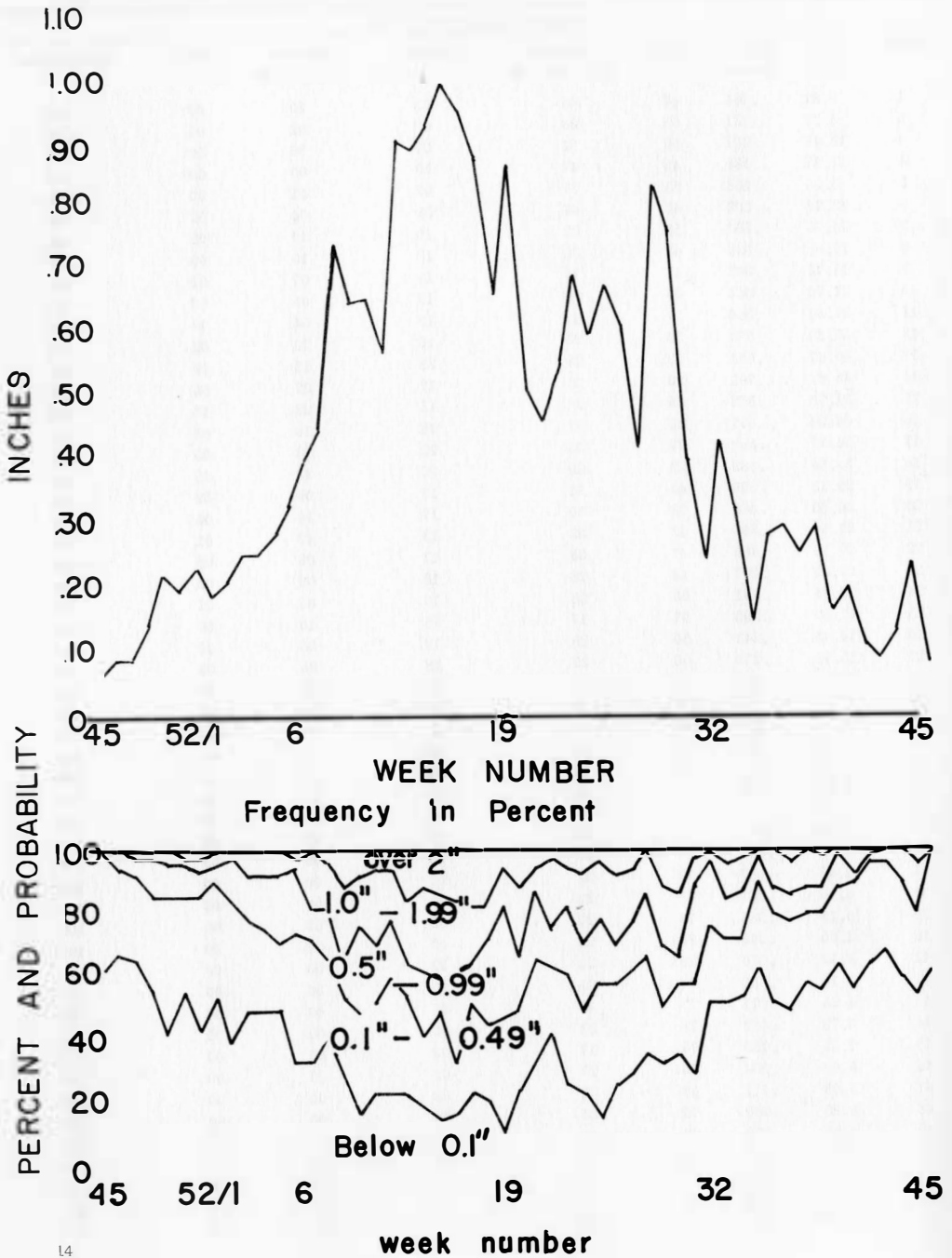


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (1294) Camp Crook, 60 years

Frequency in Per cent of Weeks

Weeks	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	Accumulated
1	9.81	.164	47	45	08	00	00	100
2	9.67	.161	63	28	07	02	00	100
3	12.40	.207	55	32	07	06	00	100
4	11.27	.188	43	47	10	00	00	100
5	9.95	.166	55	37	07	01	00	100
6	12.13	.202	43	47	08	00	02	100
7	15.70	.263	58	22	10	10	00	100
8	19.69	.328	45	32	13	10	00	100
9	18.12	.302	47	30	15	07	01	100
10	21.70	.362	43	30	19	05	03	100
11	21.86	.364	37	43	13	04	03	100
12	31.80	.530	30	30	18	20	02	100
13	40.87	.681	23	28	28	12	09	100
14	45.67	.761	23	28	17	27	05	100
15	51.73	.862	25	25	15	22	13	100
16	34.24	.571	23	37	19	18	03	100
17	34.97	.583	27	33	22	13	05	100
18	35.36	.589	22	30	32	13	03	100
19	20.18	.336	43	33	13	09	02	100
20	26.88	.448	38	30	17	10	05	100
21	21.56	.359	42	32	13	12	01	100
22	27.16	.453	37	35	17	06	05	100
23	22.61	.377	43	28	18	09	02	100
24	16.85	.281	55	28	10	05	02	100
25	17.52	.292	57	17	16	10	00	100
26	14.45	.241	50	28	19	03	00	100
27	15.79	.263	50	27	18	05	00	100
28	15.83	.264	52	29	12	07	00	100
29	17.13	.286	57	18	17	08	00	100
30	16.71	.279	47	33	10	10	00	100
31	13.53	.226	55	28	12	03	02	100
32	12.02	.200	67	18	10	02	03	100
33	9.33	.156	72	15	12	01	00	100
34	7.24	.121	68	20	12	00	00	100
35	6.65	.111	73	20	05	02	00	100
36	9.33	.156	67	23	05	05	00	100
37	3.43	.057	77	22	01	00	00	100
38	3.76	.063	77	23	00	00	00	100
39	5.15	.086	73	23	02	02	00	100
40	2.60	.043	78	22	00	00	00	100
41	4.19	.070	75	23	02	00	00	100
42	5.18	.086	74	23	03	00	00	100
43	4.25	.071	77	18	05	00	00	100
44	3.73	.062	78	22	00	00	00	100
45	7.35	.123	75	17	03	05	00	100
46	5.63	.094	70	27	02	01	00	100
47	6.65	.111	65	32	03	00	00	100
48	5.35	.089	72	25	03	00	00	100
49	4.63	.077	72	25	02	01	00	100
50	6.05	.101	60	38	02	00	00	100
51	4.65	.078	68	29	03	00	00	100
52	6.47	.108	68	28	02	02	00	100
53	0.99	.017	92	08	00	00	00	100

Average Weekly Precipitation, Centerville (1579), 1907-1947, 1952-1960

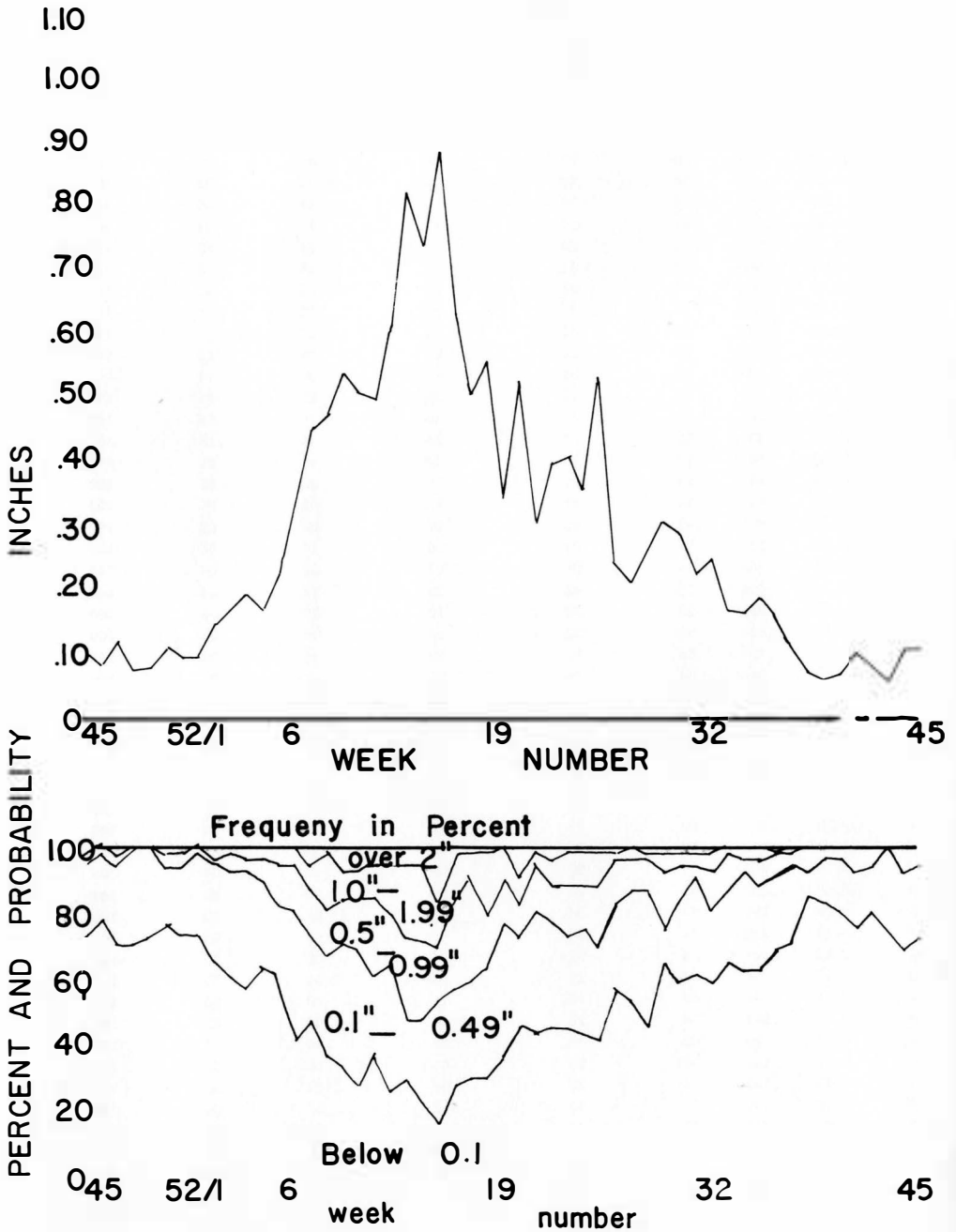


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (1579) Centerville, 50 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	11.63	.233	40	44	14	02	00	100
2	13.68	.274	50	28	14	08	00	100
3	13.61	.272	50	26	16	08	00	100
4	15.04	.301	50	22	20	08	00	100
5	17.69	.354	34	40	20	04	02	100
6	21.19	.424	34	38	10	18	00	100
7	23.42	.468	42	24	16	14	04	100
8	38.29	.766	30	24	10	24	12	100
9	33.46	.669	18	32	26	16	08	100
10	33.52	.670	24	28	18	24	06	100
11	29.42	.588	24	36	18	16	06	100
12	45.83	.917	24	30	10	20	16	100
13	45.43	.909	20	22	20	26	12	100
14	46.97	.939	16	34	10	26	14	100
15	54.53	1.091	18	16	28	22	16	100
16	48.12	.962	24	28	12	18	18	100
17	43.76	.875	22	24	26	10	18	100
18	33.41	.668	12	36	34	12	06	100
19	43.80	.876	24	26	16	22	12	100
20	26.35	.527	34	32	22	06	06	100
21	23.84	.477	42	22	12	22	02	100
22	28.42	.568	26	36	20	12	06	100
23	35.30	.706	24	26	20	22	08	100
24	30.18	.604	16	42	20	18	04	100
25	34.45	.689	26	32	12	22	08	100
26	30.98	.620	30	32	14	16	08	100
27	21.35	.427	36	30	20	14	00	100
28	42.29	.846	34	16	20	18	12	100
29	38.63	.773	36	22	08	20	14	100
30	21.01	.420	30	28	30	10	02	100
31	12.90	.258	52	24	20	04	00	100
32	22.02	.440	52	20	12	12	04	100
33	17.03	.341	54	18	14	12	02	100
34	7.86	.157	62	28	08	02	00	100
35	14.81	.296	52	28	08	12	00	100
36	15.41	.308	50	28	10	10	02	100
37	13.15	.263	58	22	08	12	00	100
38	15.44	.309	56	24	08	10	02	100
39	8.98	.180	64	24	08	04	00	100
40	10.49	.210	56	34	02	08	00	100
41	6.22	.124	64	32	02	02	00	100
42	4.97	.099	68	28	04	00	00	100
43	7.04	.141	60	30	10	00	00	100
44	12.45	.249	54	26	14	04	02	100
45	4.48	.090	62	38	00	00	00	100
46	6.04	.121	68	26	06	00	00	100
47	6.05	.121	66	26	06	02	00	100
48	8.18	.164	56	30	12	02	00	100
49	12.47	.249	42	44	10	04	00	100
50	10.98	.220	56	30	10	02	02	100
51	12.75	.255	44	42	08	04	02	100
52	10.46	.209	54	36	06	04	00	100
53	.95	.019	90	10	00	00	00	100

Average Weekly Precipitation, Cottonwood (1972), 1911-1960

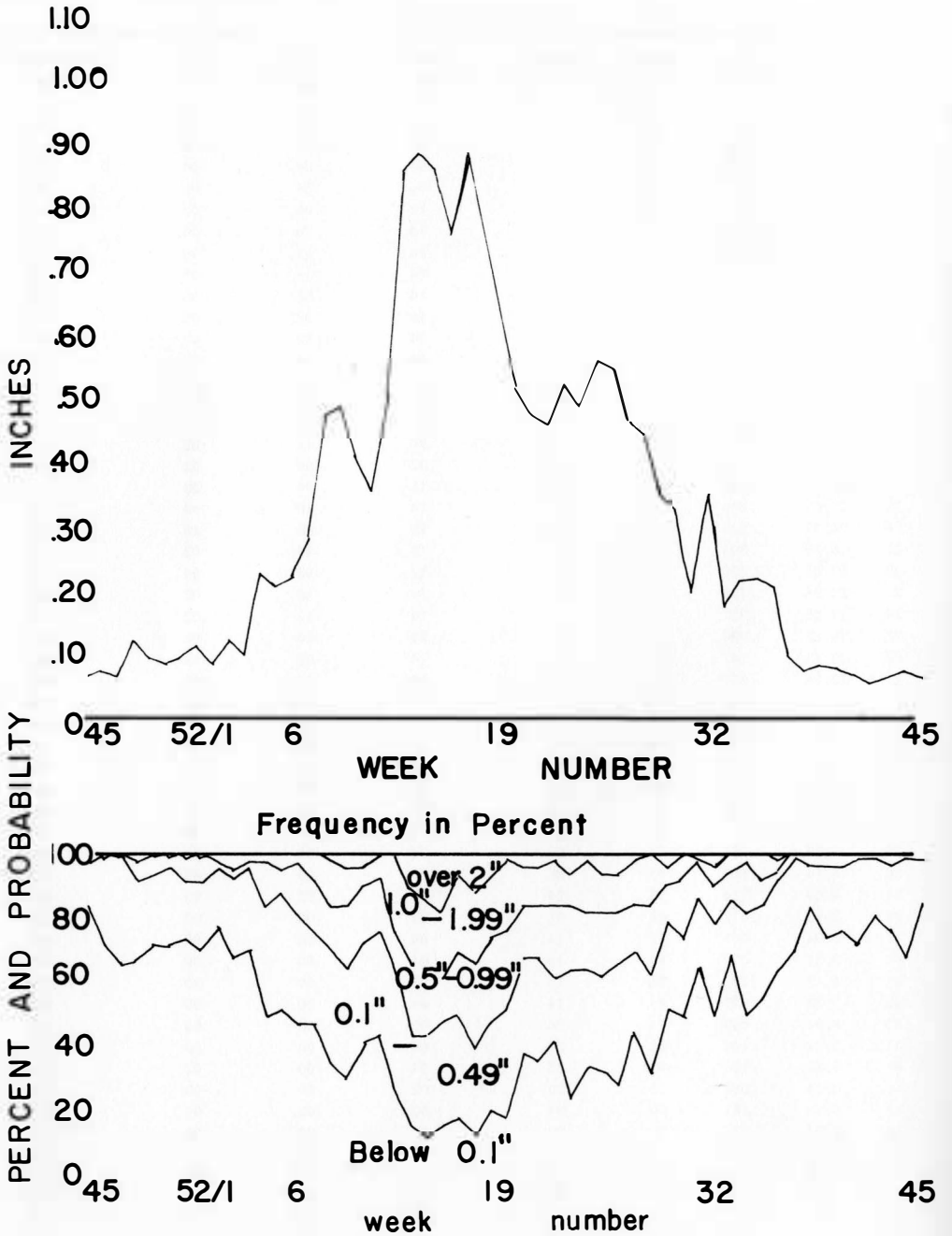


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (1972) Cottonwood, 50 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	7.23	.145	64	30	02	04	00	100
2	8.32	.166	60	32	06	02	00	100
3	9.58	.192	56	36	04	04	00	100
4	8.33	.167	62	28	06	04	00	100
5	11.09	.222	60	22	12	06	00	100
6	16.24	.325	40	40	14	06	00	100
7	22.57	.451	46	26	14	08	06	100
8	23.77	.475	34	32	14	18	02	100
9	26.94	.539	32	38	14	08	08	100
10	25.38	.508	26	42	16	08	08	100
11	24.66	.493	36	24	24	12	04	100
12	30.82	.616	24	40	14	16	06	100
13	40.66	.813	28	18	26	22	06	100
14	36.62	.732	20	26	24	24	06	100
15	44.31	.886	16	36	16	14	18	100
16	31.31	.626	26	30	26	16	02	100
17	25.03	.501	28	30	32	08	02	100
18	27.81	.556	28	34	16	20	02	100
19	17.01	.340	34	42	14	10	00	100
20	26.27	.525	44	28	10	08	10	100
21	15.26	.305	42	38	14	04	02	100
22	19.81	.396	44	32	12	08	04	100
23	20.28	.406	44	28	16	10	02	100
24	17.86	.357	42	32	14	10	02	100
25	26.82	.536	40	28	20	10	02	100
26	12.13	.243	56	26	14	02	02	100
27	10.84	.217	52	34	10	04	00	100
28	13.38	.268	44	42	10	02	02	100
29	15.21	.304	64	10	18	06	02	100
30	14.41	.288	58	24	12	04	02	100
31	11.21	.224	60	30	04	04	02	100
32	12.47	.249	58	22	12	06	02	100
33	8.38	.168	64	22	12	02	00	100
34	8.14	.163	62	30	04	04	00	100
35	9.39	.188	62	26	08	04	00	100
36	8.14	.163	68	22	08	00	02	100
37	5.68	.114	70	24	04	02	00	100
38	3.62	.072	84	08	08	00	00	100
39	3.04	.061	82	14	04	00	00	100
40	3.51	.070	80	16	04	00	00	100
41	5.12	.102	74	18	08	00	00	100
42	3.84	.077	80	14	06	00	00	100
43	2.94	.059	74	26	00	00	00	100
44	5.42	.108	68	24	08	00	00	100
45	6.33	.106	72	22	04	00	02	100
46	4.14	.083	78	20	02	00	00	100
47	5.83	.117	70	24	00	02	04	100
48	3.54	.071	70	30	00	00	00	100
49	3.92	.078	72	28	00	00	00	100
50	5.22	.104	76	18	04	02	00	100
51	4.76	.095	72	22	04	02	00	100
52	4.69	.094	72	26	02	00	00	100
53	1.87	.037	90	08	00	02	00	100

Average Weekly Precipitation, Eureka (2797), 1911-1960

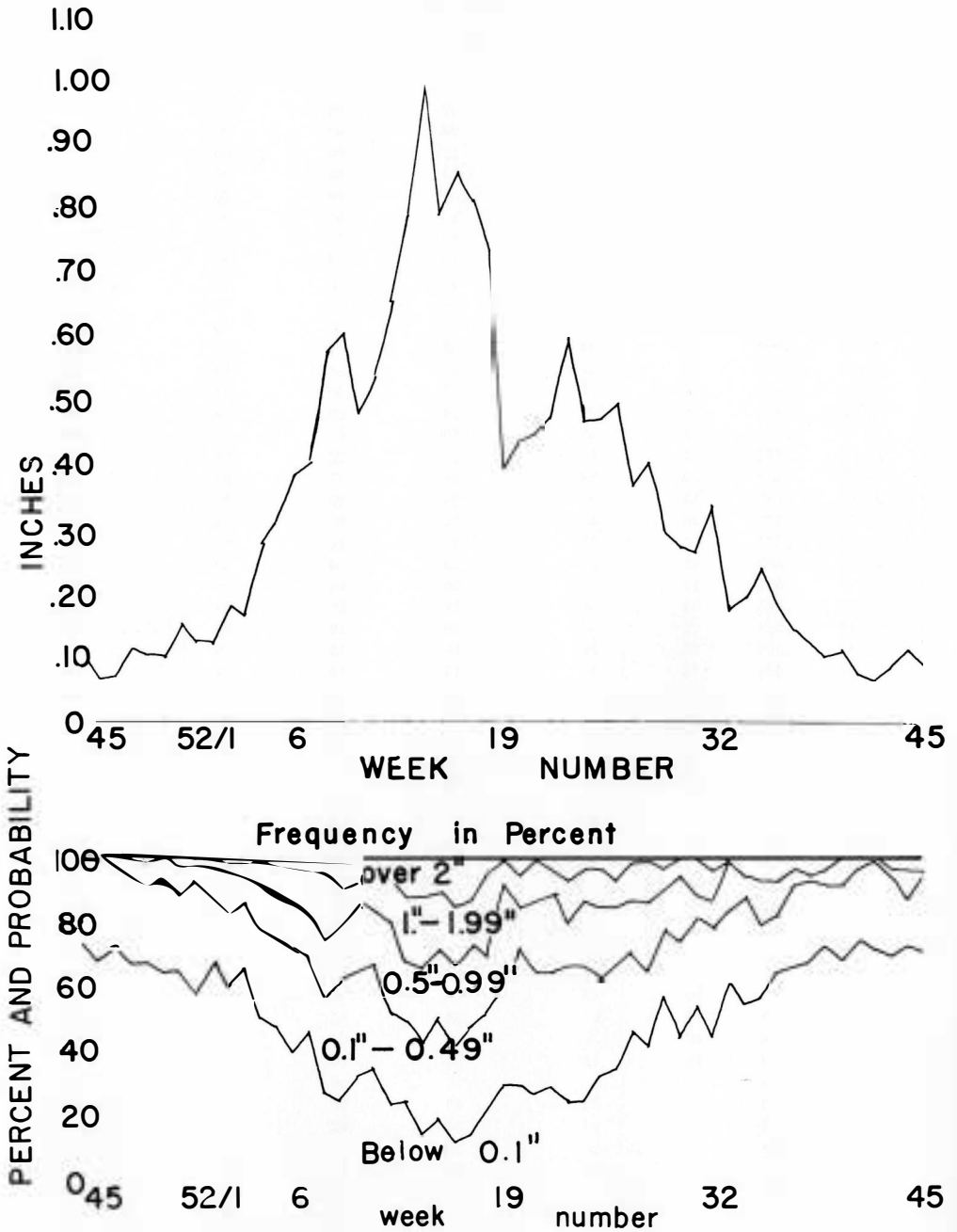


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (2797) Eureka, 50 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	4.28	.086	78	18	02	02	00	100
2	6.04	.121	68	24	04	04	00	100
3	4.94	.099	70	26	02	02	00	100
4	11.25	.225	50	34	14	02	00	100
5	10.22	.204	52	36	08	04	00	100
6	11.14	.223	48	34	16	02	00	100
7	14.04	.281	48	28	16	08	00	100
8	23.49	.470	36	34	14	14	02	100
9	24.25	.485	30	34	20	12	04	100
10	20.25	.405	42	30	18	06	04	100
11	17.51	.350	44	32	16	08	00	100
12	25.26	.505	28	36	12	24	00	100
13	42.50	.850	16	28	22	24	10	100
14	44.02	.880	12	32	22	20	14	100
15	42.48	.850	16	32	14	20	18	100
16	37.54	.751	18	32	20	24	06	100
17	44.11	.882	12	28	26	22	12	100
18	37.95	.759	20	28	26	18	08	100
19	31.86	.637	18	34	24	22	02	100
20	25.73	.515	38	30	16	12	04	100
21	23.51	.470	36	32	16	12	04	100
22	22.92	.458	42	20	22	14	02	100
23	26.06	.521	24	40	20	10	06	100
24	24.27	.485	34	30	18	16	02	100
25	27.93	.559	32	30	20	12	06	100
26	27.37	.547	28	38	16	12	06	100
27	23.22	.464	44	26	14	14	02	100
28	22.16	.443	32	30	22	16	00	100
29	17.40	.348	52	26	12	06	04	100
30	16.33	.327	50	24	18	08	00	100
31	9.89	.198	64	22	12	00	02	100
32	17.29	.346	50	28	12	06	04	100
33	8.49	.170	68	18	08	06	00	100
34	10.58	.212	50	32	16	02	00	100
35	10.95	.219	56	28	08	08	00	100
36	10.27	.205	64	28	02	04	02	100
37	4.96	.099	70	28	02	00	00	100
38	3.71	.074	84	12	04	00	00	100
39	4.00	.080	74	22	04	00	00	100
40	3.94	.079	76	20	04	00	00	100
41	3.40	.068	72	26	02	00	00	100
42	2.62	.052	80	18	02	00	00	100
43	3.05	.061	76	20	04	00	00	100
44	3.68	.074	68	30	02	00	00	100
45	3.21	.064	84	14	02	00	00	100
46	3.69	.074	72	28	00	00	00	100
47	3.28	.066	66	34	00	00	00	100
48	6.07	.121	68	24	06	02	00	100
49	4.88	.098	72	22	06	00	00	100
50	4.28	.086	72	24	04	00	00	100
51	4.81	.096	74	18	08	00	00	100
52	5.69	.114	70	22	08	00	00	100
53	1.21	.024	90	10	00	00	00	100

Average Weekly Precipitation, Faulkton (2927), 1901-1960

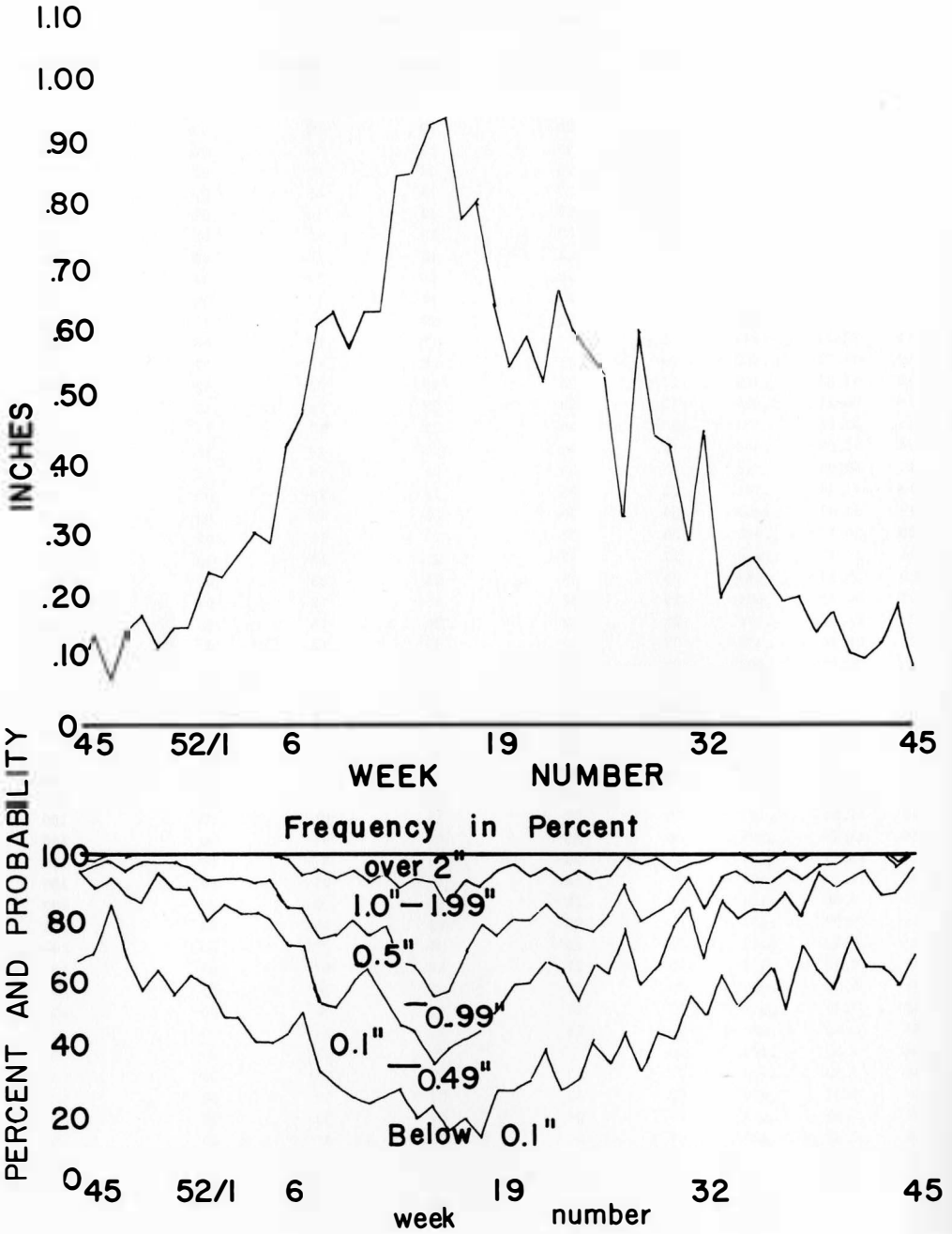


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (2927) Faulkton, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	7.92	.132	68	20	10	02	00	100
2	11.90	.198	60	23	13	02	02	100
3	10.62	.177	67	20	08	03	02	100
4	17.42	.290	50	27	15	08	00	100
5	19.54	.326	48	28	12	10	02	100
6	23.71	.395	40	33	13	12	02	100
7	25.05	.418	47	23	15	10	05	100
8	34.90	.582	27	30	18	22	03	100
9	36.79	.613	25	37	18	12	08	100
10	29.20	.487	33	32	22	07	06	100
11	32.73	.546	35	32	17	10	06	100
12	39.72	.662	24	28	28	13	07	100
13	47.85	.798	25	25	18	20	12	100
14	60.27	1.005	15	28	23	22	12	100
15	47.66	.794	20	30	22	17	11	100
16	51.83	.864	12	30	25	18	15	100
17	49.06	.818	15	33	25	14	13	100
18	44.46	.741	22	30	18	25	05	100
19	23.99	.400	30	30	32	08	00	100
20	26.77	.446	30	42	13	10	05	100
21	27.47	.458	27	38	22	13	00	100
22	29.05	.484	30	35	24	08	03	100
23	36.21	.604	25	42	13	13	07	100
24	28.58	.476	25	42	20	10	03	100
25	28.74	.479	33	30	22	12	03	100
26	30.19	.503	35	32	18	08	07	100
27	22.70	.378	47	25	15	12	01	100
28	24.89	.415	42	23	22	12	01	100
29	18.50	.308	58	20	13	06	03	100
30	17.08	.285	45	30	20	05	00	100
31	16.67	.278	55	27	07	11	00	100
32	20.97	.350	45	34	08	10	03	100
33	11.24	.187	62	22	15	01	00	100
34	12.49	.208	55	33	07	05	00	100
35	15.39	.257	57	23	13	07	00	100
36	11.87	.198	65	18	10	07	00	100
37	9.66	.161	67	25	05	02	01	100
38	8.27	.138	68	25	02	05	00	100
39	6.72	.112	73	19	05	03	00	100
40	7.23	.121	69	23	08	00	00	100
41	5.33	.089	75	22	03	00	00	100
42	4.70	.078	72	27	01	00	00	100
43	5.92	.099	70	25	02	03	00	100
44	7.55	.126	73	15	09	03	00	100
45	6.32	.105	72	23	02	03	00	100
46	4.47	.075	68	32	00	00	00	100
47	5.00	.083	73	23	04	00	00	100
48	7.63	.127	67	27	05	01	00	100
49	6.98	.116	68	22	08	02	00	100
50	6.88	.115	65	28	07	00	00	100
51	9.87	.165	65	23	08	04	00	100
52	8.15	.136	58	35	05	02	00	100
53	2.65	.044	88	09	03	00	00	100

Average Weekly Precipitation, Forestburg (3029), 1901-1960

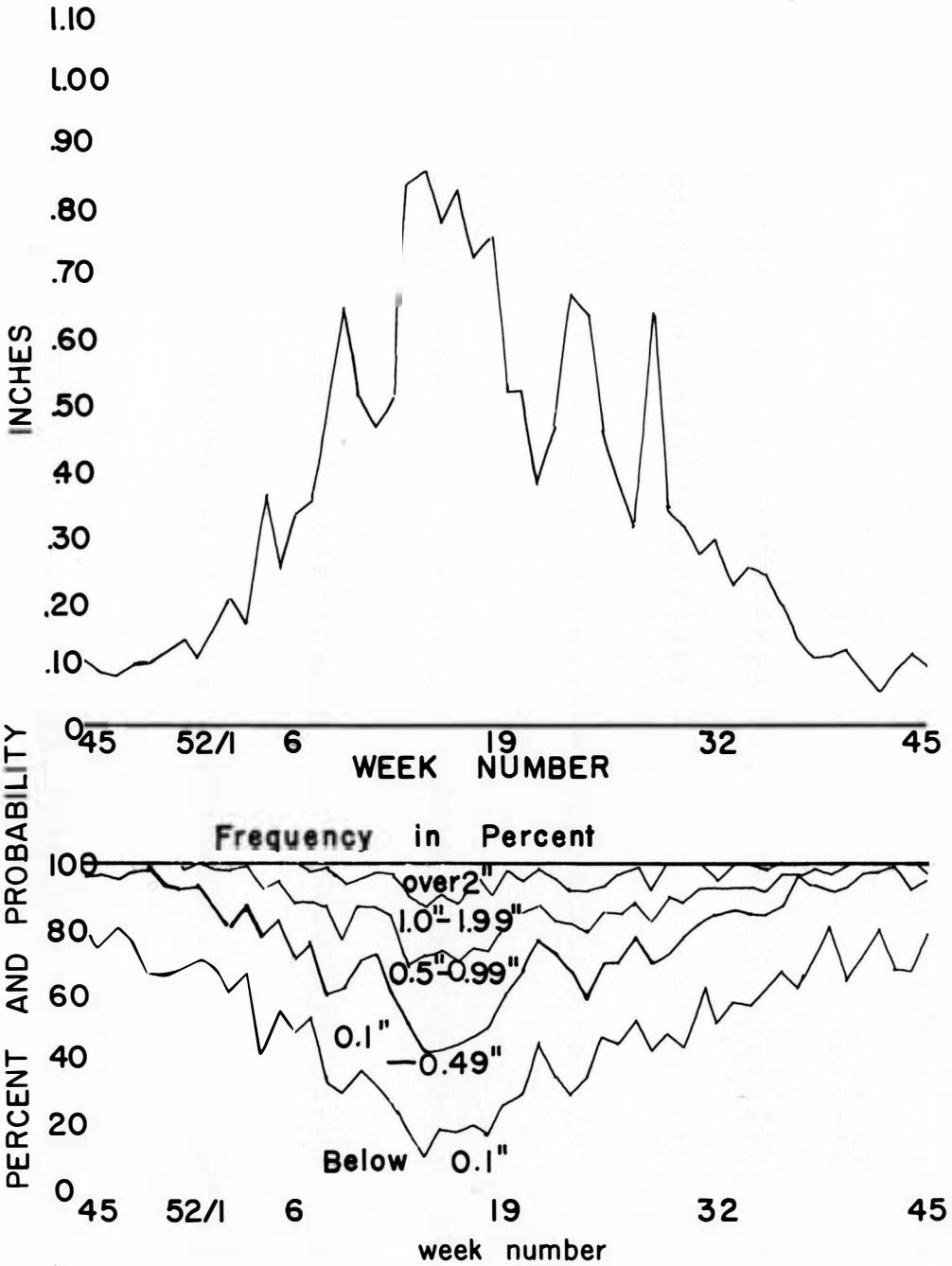


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (3029) Forestburg, 60 years

Frequency in Per Cent of Weeks

Weeks	Total Precip.	Average Precip.	Frequency in Per Cent of Weeks					Accumulated inches
			Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	
1	14.52	.242	60	20	13	07	00	100
2	13.94	.232	50	35	08	07	00	100
3	16.22	.270	50	32	11	07	00	100
4	18.32	.305	42	40	10	08	00	100
5	17.19	.287	42	38	13	07	00	100
6	25.93	.432	45	27	12	15	01	100
7	29.87	.498	52	20	12	10	06	100
8	37.28	.621	32	22	20	21	05	100
9	38.66	.644	28	25	22	18	07	100
10	35.34	.589	25	35	20	15	05	100
11	38.65	.644	23	42	10	17	08	100
12	38.59	.643	25	32	22	15	06	100
13	51.44	.857	28	17	20	25	10	100
14	51.60	.860	18	28	20	27	07	100
15	56.03	.934	22	13	22	35	08	100
16	56.78	.946	15	25	18	27	15	100
17	47.25	.788	18	25	27	22	08	100
18	49.40	.823	13	32	33	12	10	100
19	39.46	.658	27	25	23	20	05	100
20	33.25	.554	27	33	20	17	03	100
21	36.54	.609	30	30	20	13	07	100
22	32.10	.535	40	27	18	10	05	100
23	40.28	.671	27	38	15	12	08	100
24	36.64	.611	30	25	22	18	05	100
25	34.34	.572	43	23	10	17	07	100
26	32.37	.540	35	28	18	12	07	100
27	19.25	.321	45	32	13	10	00	100
28	37.13	.619	33	27	19	18	03	100
29	26.84	.447	45	20	17	17	01	100
30	25.96	.433	43	35	07	10	05	100
31	17.27	.288	57	27	08	05	03	100
32	27.11	.452	50	18	15	15	02	100
33	11.62	.194	63	23	07	07	00	100
34	14.71	.245	53	27	15	05	00	100
35	15.69	.262	58	25	08	07	02	100
36	13.77	.230	65	18	08	07	02	100
37	11.53	.192	52	37	06	05	00	100
38	12.04	.201	73	08	12	05	02	100
39	8.55	.143	64	30	03	03	00	100
40	10.76	.179	58	32	07	03	00	100
41	6.99	.117	74	18	08	00	00	100
42	6.17	.103	65	30	05	00	00	100
43	7.67	.128	65	22	13	00	00	100
44	11.56	.193	60	28	08	02	02	100
45	5.76	.096	68	27	05	00	00	100
46	8.56	.143	70	20	07	02	01	100
47	4.41	.074	85	08	05	02	00	100
48	8.92	.149	68	20	07	05	00	100
49	10.33	.172	58	27	13	02	00	100
50	7.42	.124	65	30	03	02	00	100
51	9.12	.152	57	33	08	02	00	100
52	9.28	.155	63	27	07	03	00	100
53	2.34	.039	90	08	02	00	00	100

Average Weekly Precipitation, Highmore (3832), 1900, 1901, 1903-1960

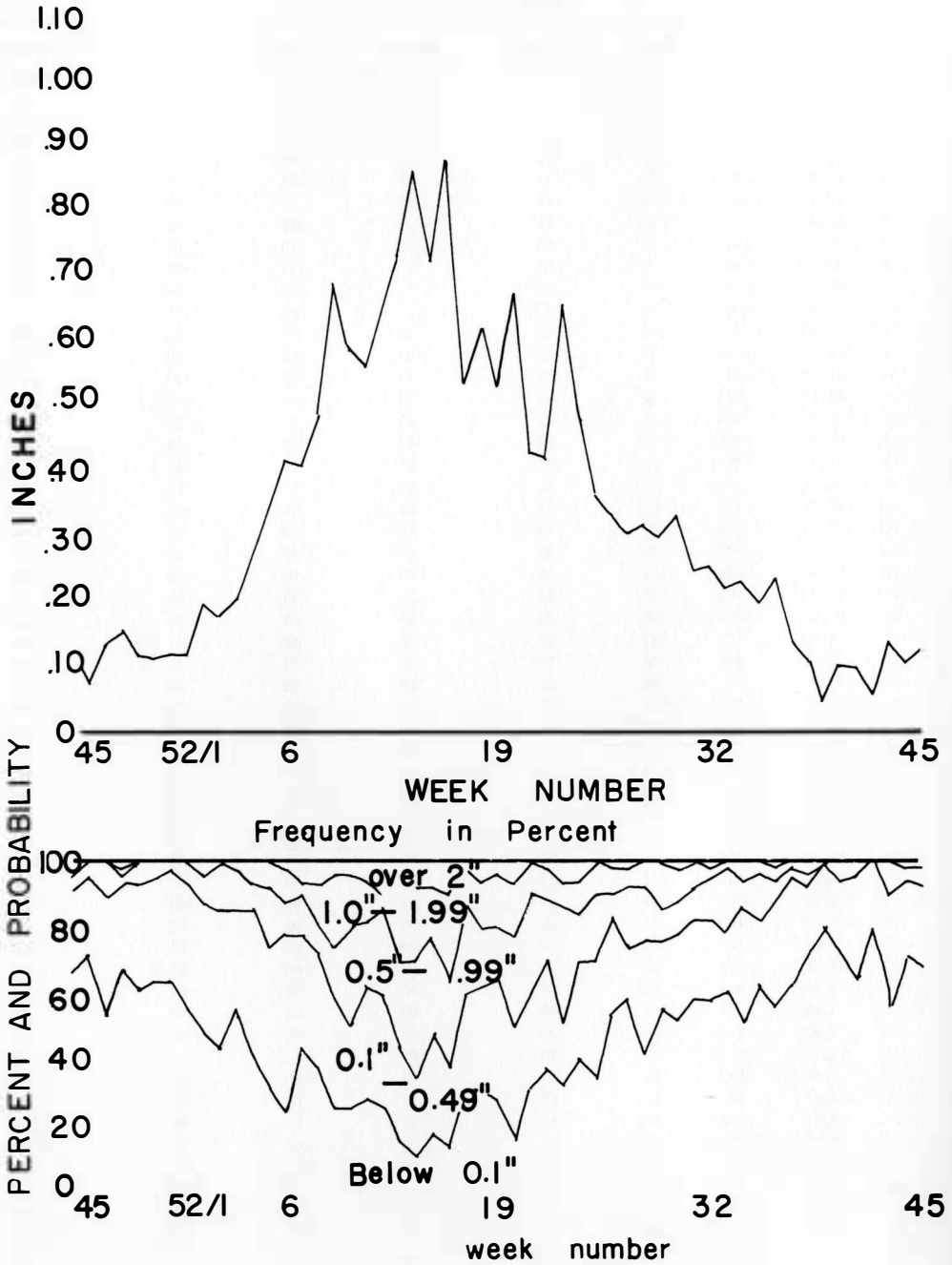


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (3832) Highmore, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and .99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	9.07	.151	68	18	12	02	00	100
2	11.96	.199	60	20	18	02	00	100
3	9.18	.153	67	20	12	01	00	100
4	21.07	.351	40	37	15	07	01	100
5	14.27	.238	57	25	12	06	00	100
6	19.40	.323	48	22	18	12	00	100
7	20.82	.347	53	23	12	10	02	100
8	29.55	.493	33	27	27	12	01	100
9	38.46	.641	30	32	15	17	06	100
10	30.07	.501	37	33	17	08	05	100
11	27.46	.458	32	40	15	10	03	100
12	30.17	.503	27	33	25	12	03	100
13	49.84	.831	18	33	17	22	10	100
14	51.05	.851	10	32	30	15	13	100
15	45.95	.766	18	25	30	17	10	100
16	49.33	.822	18	27	25	18	12	100
17	43.11	.719	20	27	27	23	03	100
18	44.81	.747	17	33	23	17	10	100
19	30.72	.512	27	33	23	15	02	100
20	30.71	.512	29	38	18	10	05	100
21	22.03	.367	45	32	10	12	01	100
22	27.65	.461	35	38	10	12	05	100
23	39.64	.661	29	38	15	10	08	100
24	37.56	.626	35	24	20	13	08	100
25	27.06	.451	47	23	15	08	07	100
26	22.71	.379	45	25	15	12	03	100
27	18.44	.307	53	25	10	12	00	100
28	31.52	.625	43	27	12	10	08	100
29	19.99	.333	48	25	17	10	00	100
30	18.36	.306	45	33	10	12	00	100
31	15.87	.265	62	20	10	08	00	100
32	17.40	.290	52	33	08	02	05	100
33	12.76	.213	58	28	07	07	00	100
34	14.50	.242	57	28	08	07	00	100
35	14.05	.234	62	23	07	07	01	100
36	10.96	.183	68	19	10	03	00	100
37	8.06	.134	62	35	00	03	00	100
38	6.34	.106	72	22	05	01	00	100
39	6.46	.108	82	10	05	03	00	100
40	7.15	.119	65	28	07	00	00	100
41	4.99	.083	72	25	03	00	00	100
42	3.03	.051	80	18	02	00	00	100
43	4.91	.082	68	32	00	00	00	100
44	6.75	.113	68	25	07	00	00	100
45	5.80	.097	79	17	02	00	02	100
46	4.81	.080	73	23	04	00	00	100
47	4.71	.079	80	15	03	02	00	100
48	5.69	.095	75	22	03	00	00	100
49	5.45	.091	65	33	02	00	00	100
50	6.79	.113	65	28	07	00	00	100
51	7.85	.131	67	25	07	01	00	100
52	6.14	.102	70	23	07	00	00	100
53	2.26	.038	90	07	03	00	00	100

Average Weekly Precipitation, Hot Springs (4007), 1911-1960

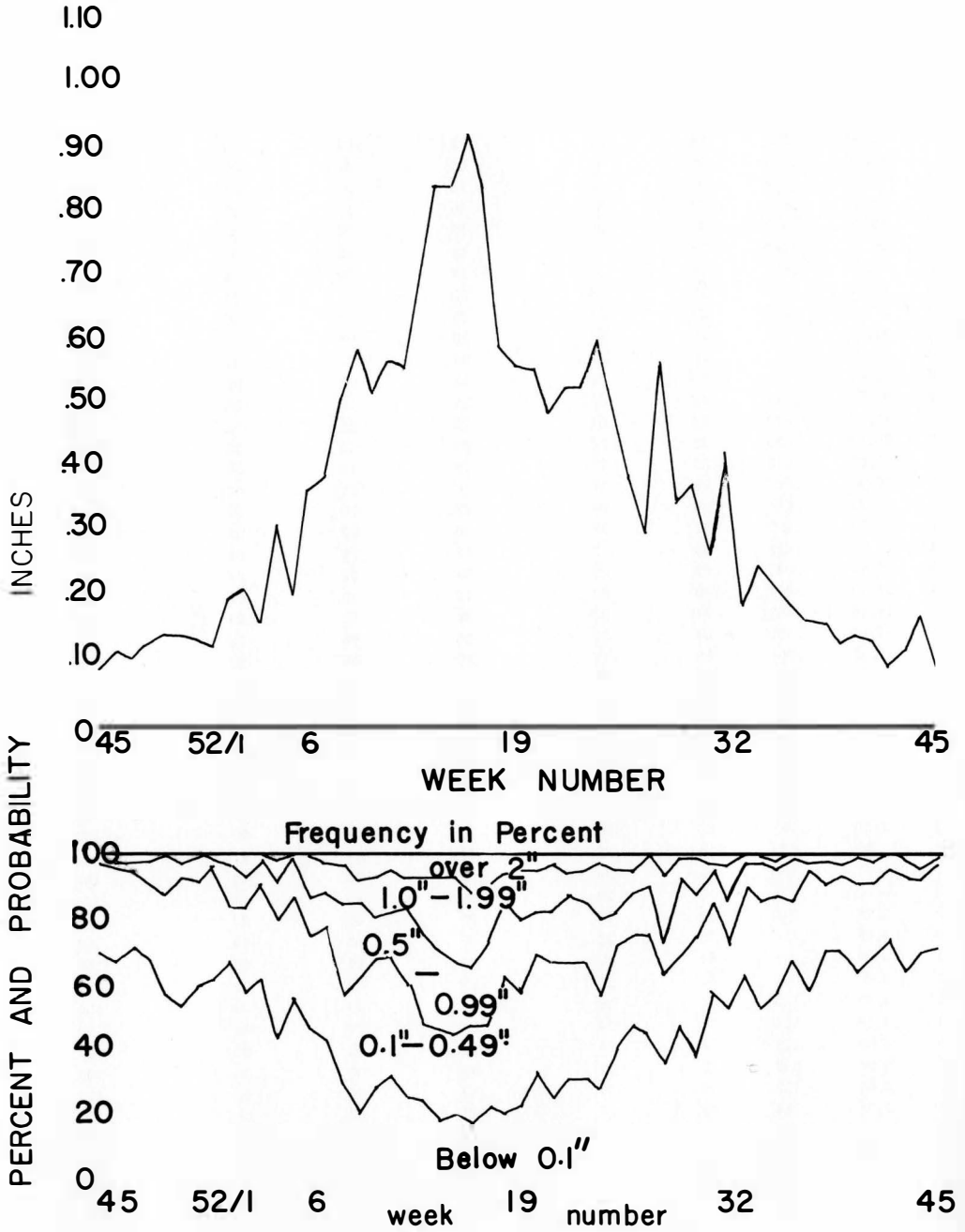


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (4007) Hot Springs. 50 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0. 1"	Between 0. 1" and 0. 49"	Between 0. 5" and 0. 99"	Between 1" and 1. 99"	Above 2"	Accumulated inches
1	9. 59	. 192	48	40	08	04	00	100
2	8. 92	. 178	44	42	14	00	00	100
3	10. 04	. 201	56	30	12	02	00	100
4	13. 16	. 263	42	44	08	06	00	100
5	16. 90	. 338	32	42	18	08	00	100
6	20. 54	. 411	24	54	10	10	02	100
7	20. 46	. 409	44	34	12	04	06	100
8	24. 17	. 483	38	34	10	12	06	100
9	34. 14	. 683	26	34	14	22	04	100
10	29. 12	. 582	26	24	30	16	04	100
11	27. 89	. 558	28	34	20	12	06	100
12	32. 18	. 644	26	34	26	04	10	100
13	36. 04	. 721	16	28	26	26	04	100
14	42. 86	. 857	10	24	36	22	08	100
15	35. 96	. 719	18	30	28	16	08	100
16	43. 96	. 879	14	24	26	26	10	100
17	26. 64	. 533	32	28	28	10	02	100
18	30. 07	. 615	30	32	18	14	06	100
19	26. 34	. 527	28	36	16	16	04	100
20	33. 20	. 664	16	34	28	16	06	100
21	21. 10	. 422	32	28	30	10	00	100
22	20. 96	. 419	38	32	18	10	02	100
23	32. 24	. 645	32	20	34	08	06	100
24	23. 70	. 474	40	30	14	10	06	100
25	18. 15	. 363	34	36	20	10	00	100
26	16. 54	. 331	54	30	06	08	02	100
27	15. 03	. 301	58	16	18	06	02	100
28	15. 94	. 319	42	34	16	08	00	100
29	14. 81	. 296	56	20	10	14	00	100
30	16. 50	. 330	52	26	10	10	02	100
31	12. 14	. 242	58	24	10	08	00	100
32	12. 56	. 251	58	24	12	04	02	100
33	10. 90	. 218	60	18	20	02	00	100
34	11. 43	. 229	52	34	08	06	00	100
35	9. 86	. 197	62	20	14	04	00	100
36	11. 49	. 230	56	32	06	04	02	100
37	6. 87	. 137	62	34	02	02	00	100
38	5. 42	. 108	72	20	04	04	00	100
39	2. 29	. 046	80	20	00	00	00	100
40	4. 98	. 100	72	22	06	00	00	100
41	4. 90	. 098	64	32	04	00	00	100
42	2. 66	. 053	80	20	00	00	00	100
43	7. 00	. 140	56	36	08	00	00	100
44	5. 18	. 104	70	24	04	02	00	100
45	6. 46	. 129	68	24	06	02	00	100
46	3. 95	. 079	72	24	04	00	00	100
47	6. 61	. 132	54	36	10	00	00	100
48	7. 71	. 154	68	26	02	02	02	100
49	5. 92	. 118	62	32	06	00	00	100
50	5. 62	. 112	64	32	04	00	00	100
51	5. 71	. 114	64	34	02	00	00	100
52	5. 97	. 119	56	38	06	00	00	100
53	1. 34	. 027	90	10	00	00	00	100

Average Weekly Precipitation, Huron (4127), 1901-1960

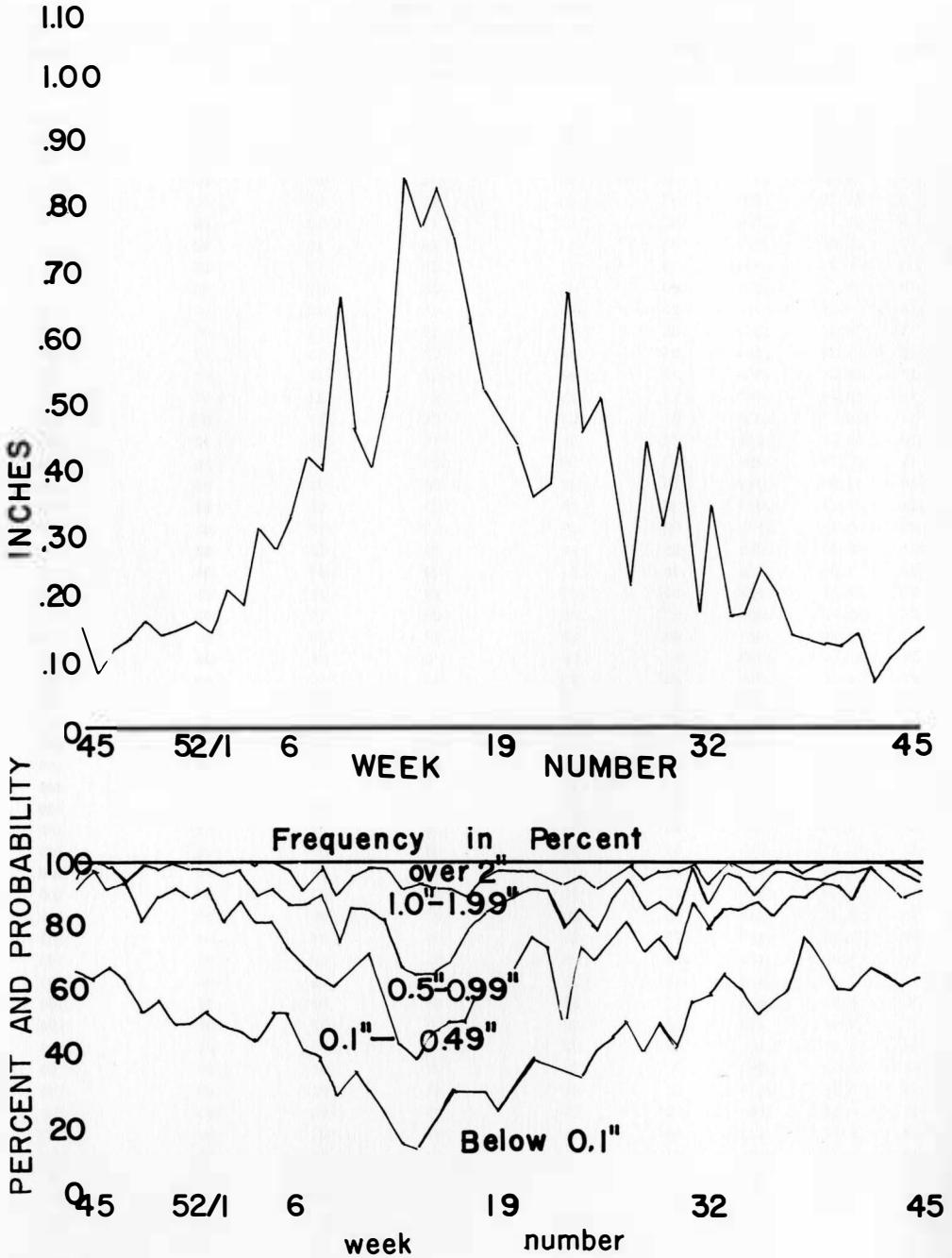


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (4127) Huron, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated
1	11.92	.199	67	17	13	03	00	100
2	13.07	.218	57	27	10	06	00	100
3	9.62	.160	62	30	07	01	00	100
4	18.83	.314	43	37	12	07	01	100
5	12.32	.205	57	30	12	01	00	100
6	22.15	.369	47	28	12	13	00	100
7	23.25	.388	43	35	10	10	02	100
8	30.24	.504	30	27	28	12	03	100
9	35.18	.586	20	42	23	07	08	100
10	30.98	.516	28	40	13	12	07	100
11	34.00	.567	32	37	13	13	05	100
12	33.23	.554	25	35	23	10	07	100
13	42.26	.704	24	23	28	18	07	100
14	50.20	.837	18	28	24	23	07	100
15	50.11	.835	20	25	22	26	07	100
16	55.11	.919	17	30	18	23	12	100
17	49.74	.829	22	25	26	17	10	100
18	34.99	.583	20	42	25	07	06	100
19	33.51	.559	22	35	23	15	05	100
20	33.18	.553	32	37	13	13	05	100
21	28.97	.483	25	42	15	15	03	100
22	31.34	.522	30	37	20	07	06	100
23	33.56	.528	30	37	18	10	05	100
24	35.78	.596	27	30	23	17	03	100
25	28.86	.481	40	32	10	13	05	100
26	22.95	.383	47	28	13	07	05	100
27	18.02	.300	45	30	15	10	00	100
28	34.05	.568	35	28	10	20	07	100
29	20.75	.346	47	22	23	07	01	100
30	22.72	.379	37	37	13	12	01	100
31	15.85	.264	57	28	10	02	03	100
32	25.61	.427	52	20	13	12	03	100
33	11.26	.188	62	27	08	03	00	100
34	14.80	.247	52	33	12	02	01	100
35	13.13	.219	57	30	08	03	02	100
36	11.20	.187	67	18	13	02	00	100
37	9.65	.161	58	37	02	03	00	100
38	9.47	.158	70	20	07	03	00	100
39	7.53	.126	70	23	03	04	00	100
40	8.30	.138	63	28	07	02	00	100
41	7.81	.130	68	23	07	02	00	100
42	5.59	.093	72	23	05	00	00	100
43	7.08	.118	63	30	05	02	00	100
44	9.89	.165	69	23	03	05	00	100
45	5.52	.092	70	27	02	01	00	100
46	6.96	.116	68	28	02	02	00	100
47	6.38	.106	72	23	03	02	00	100
48	8.27	.138	68	23	07	02	00	100
49	8.76	.146	57	31	12	00	00	100
50	8.65	.144	53	40	05	02	00	100
51	8.19	.137	60	32	08	00	00	100
52	7.40	.123	62	35	02	01	00	100
53	2.72	.045	90	08	00	02	00	100

Average Weekly Precipitation, Kennebec (4516), 1911-1960

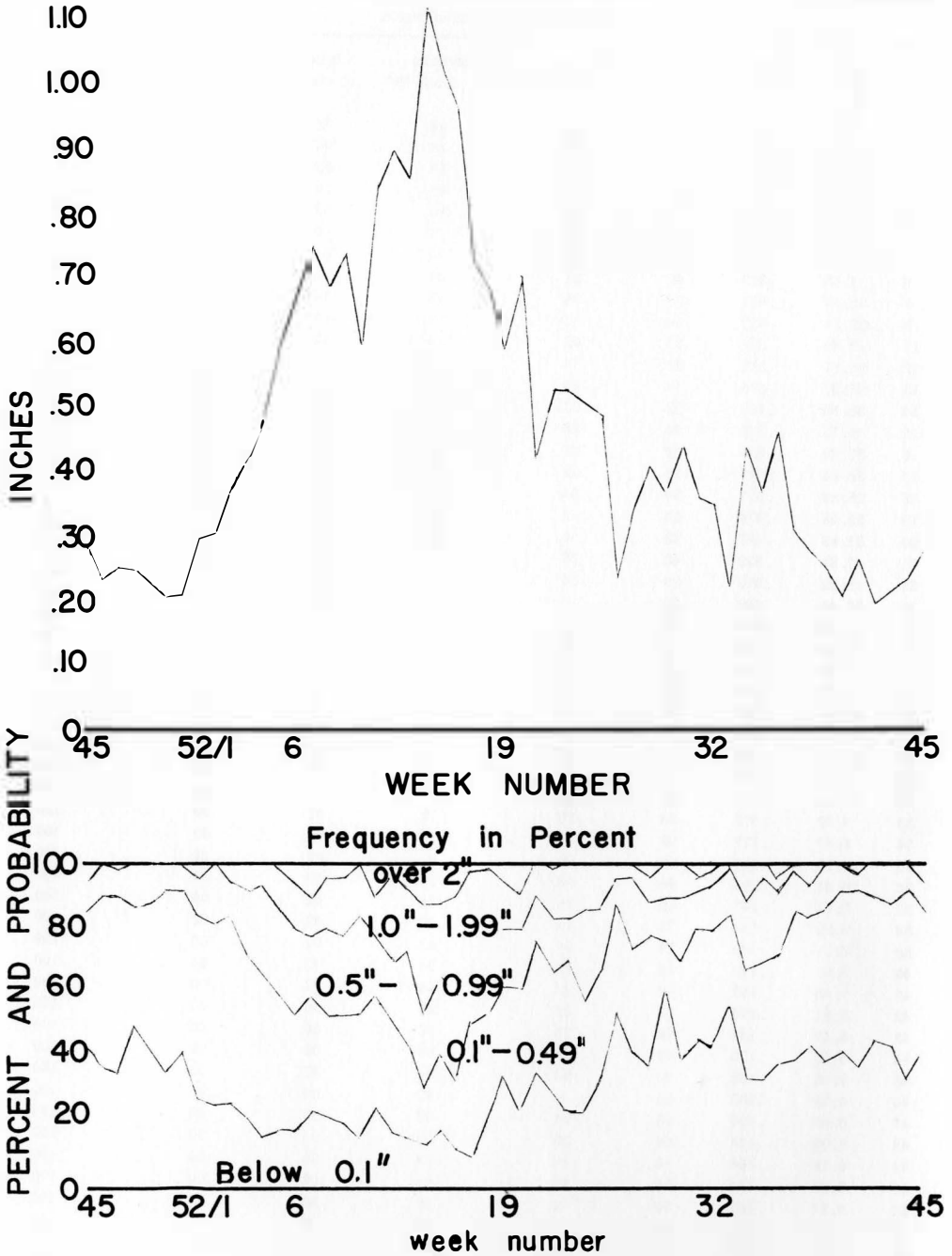


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (4516) Kennebec, 50 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	7.38	.148	54	38	06	02	00	100
2	10.90	.218	50	32	14	04	00	100
3	9.47	.189	48	40	10	02	00	100
4	15.36	.307	44	38	08	10	00	100
5	13.85	.277	54	28	10	08	00	100
6	16.37	.327	54	20	14	10	02	100
7	20.88	.418	42	26	20	04	08	100
8	19.65	.393	40	24	26	10	00	100
9	33.04	.661	28	34	12	16	10	100
10	22.83	.457	36	32	18	10	04	100
11	19.90	.398	30	42	14	12	02	100
12	25.61	.512	22	36	24	16	02	100
13	42.27	.845	14	30	24	24	08	100
14	38.16	.763	12	28	26	28	06	100
15	41.72	.835	20	28	18	26	08	100
16	37.80	.756	30	22	18	22	08	100
17	30.84	.617	30	22	28	10	10	100
18	25.85	.517	30	34	20	12	04	100
19	23.68	.474	24	38	26	10	02	100
20	21.83	.437	32	36	22	08	02	100
21	17.61	.352	40	38	14	06	02	100
22	18.82	.376	38	36	18	04	04	100
23	33.46	.669	36	16	28	14	06	100
24	22.20	.444	34	40	12	10	04	100
25	25.20	.504	42	28	10	12	08	100
26	18.32	.366	46	30	14	06	04	100
27	10.79	.216	52	30	14	04	00	100
28	21.91	.438	42	30	14	10	04	100
29	15.26	.305	52	26	10	10	02	100
30	21.81	.436	42	28	14	14	02	100
31	8.83	.177	58	30	10	02	00	100
32	17.04	.341	60	20	08	06	06	100
33	8.62	.172	66	20	12	02	00	100
34	8.87	.177	62	24	10	04	00	100
35	12.20	.244	54	34	02	08	02	100
36	10.31	.206	58	26	14	02	00	100
37	7.14	.143	62	28	08	02	00	100
38	6.92	.138	78	12	06	02	02	100
39	6.51	.130	70	24	02	04	00	100
40	6.40	.128	62	32	04	02	00	100
41	7.45	.149	62	28	08	02	00	100
42	3.51	.070	68	32	00	00	00	100
43	5.47	.109	66	28	06	00	00	100
44	6.80	.136	64	26	08	02	00	100
45	7.58	.152	66	26	04	02	02	100
46	4.12	.082	64	34	02	00	00	100
47	6.01	.120	68	24	06	02	00	100
48	6.95	.139	64	30	00	06	00	100
49	8.18	.164	54	28	18	00	00	100
50	7.03	.141	58	32	08	02	00	100
51	7.57	.151	50	42	08	00	00	100
52	8.18	.164	50	40	08	02	00	100
53	1.38	.038	90	08	02	00	00	100

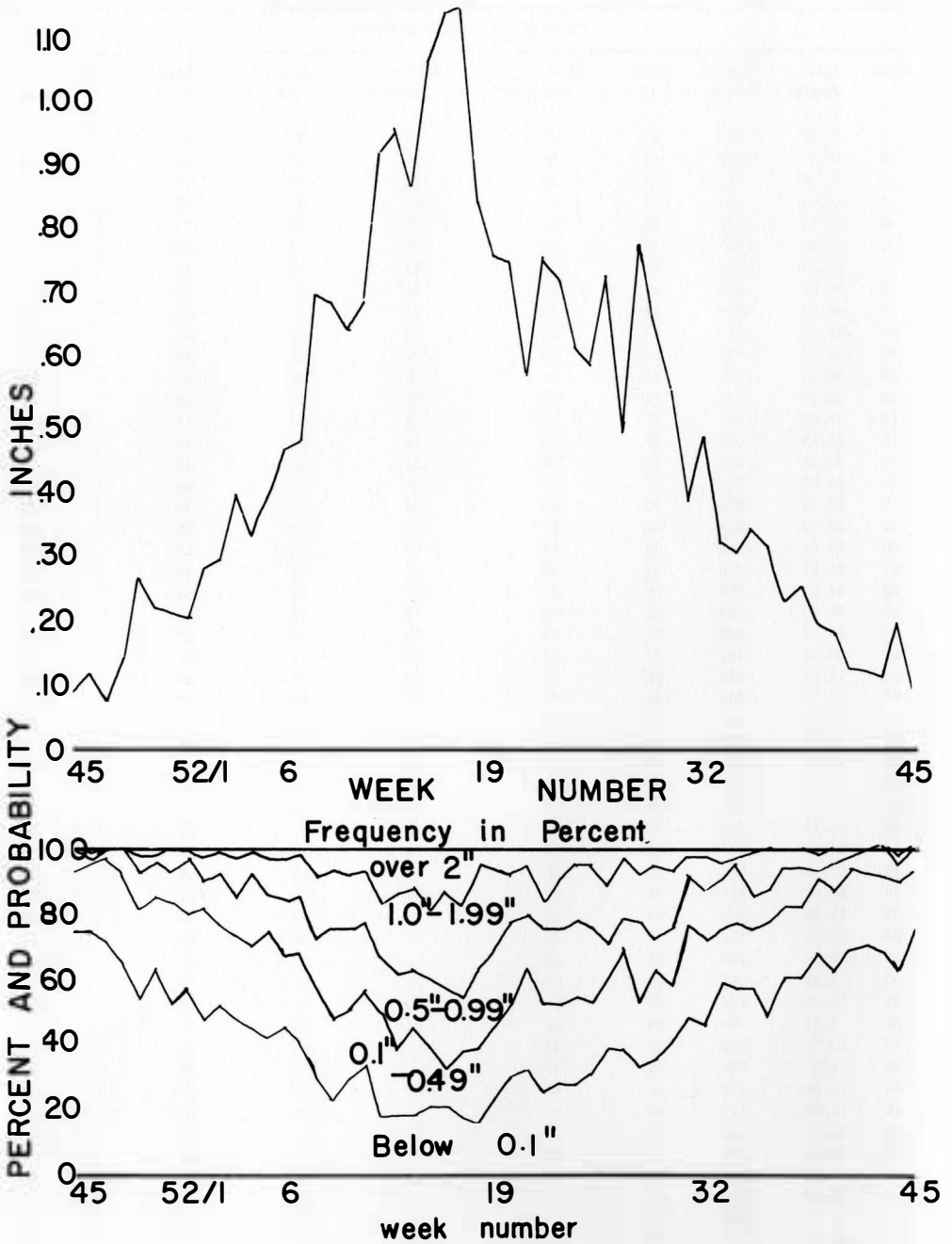
Average Weekly Precipitation, Lead (4834), 1901-1960



Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (4834) Lead, 50 years

Week	Frequency in Per Cent of Weeks							
	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	15.01	.300	24	56	18	02	00	100
2	18.61	.372	24	58	10	08	00	100
3	20.96	.419	20	50	20	10	00	100
4	23.96	.474	14	50	28	06	02	100
5	29.46	.589	16	42	26	12	04	100
6	33.36	.667	16	36	26	14	08	100
7	37.23	.745	22	36	18	12	12	100
8	34.06	.681	20	32	26	16	06	100
9	36.69	.734	18	34	24	18	06	100
10	29.12	.583	14	38	30	16	02	100
11	41.50	.830	24	34	18	12	12	100
12	44.65	.893	16	34	18	26	06	100
13	42.22	.844	14	28	30	18	10	100
14	56.03	1.121	12	16	24	34	14	100
15	51.12	1.022	16	24	24	22	14	100
16	47.82	.956	10	22	24	32	12	100
17	36.04	.721	08	42	30	16	04	100
18	33.94	.679	20	32	24	20	04	100
19	28.92	.578	32	28	18	14	08	100
20	34.91	.698	22	38	18	10	12	100
21	20.97	.419	34	40	14	12	00	100
22	26.27	.525	28	38	16	14	04	100
23	26.20	.524	22	46	14	18	00	100
24	25.10	.502	22	34	28	14	02	100
25	24.30	.486	30	34	20	14	02	100
26	11.19	.224	52	34	08	06	00	100
27	16.70	.334	40	32	22	04	02	100
28	20.31	.406	36	40	10	08	06	100
29	18.07	.361	60	14	14	10	02	100
30	21.95	.439	38	30	20	10	02	100
31	18.06	.361	44	34	12	04	06	100
32	17.43	.349	42	36	14	04	04	100
33	10.83	.217	56	26	16	02	00	100
34	21.85	.437	32	34	20	14	00	100
35	17.83	.357	32	36	26	06	00	100
36	23.05	.461	36	34	20	04	06	100
37	15.19	.304	38	46	12	02	02	100
38	13.66	.273	42	40	10	08	00	100
39	12.49	.250	38	46	14	02	00	100
40	9.88	.208	40	50	08	02	00	100
41	13.19	.264	36	54	06	02	02	100
42	9.51	.190	44	44	12	00	00	100
43	10.71	.214	42	44	12	02	00	100
44	11.61	.232	32	58	08	02	00	100
45	13.95	.279	42	42	08	06	02	100
46	11.34	.227	36	52	10	02	00	100
47	12.48	.250	34	54	08	04	00	100
48	12.08	.242	48	36	14	00	02	100
49	11.19	.224	40	46	12	02	00	100
50	10.09	.202	34	56	10	00	00	100
51	10.17	.203	40	50	08	02	00	100
52	14.63	.293	26	56	12	06	00	100
53	2.88	.058	80	18	02	00	00	100

Average Weekly Precipitation, Marion (5228), 1901-1960

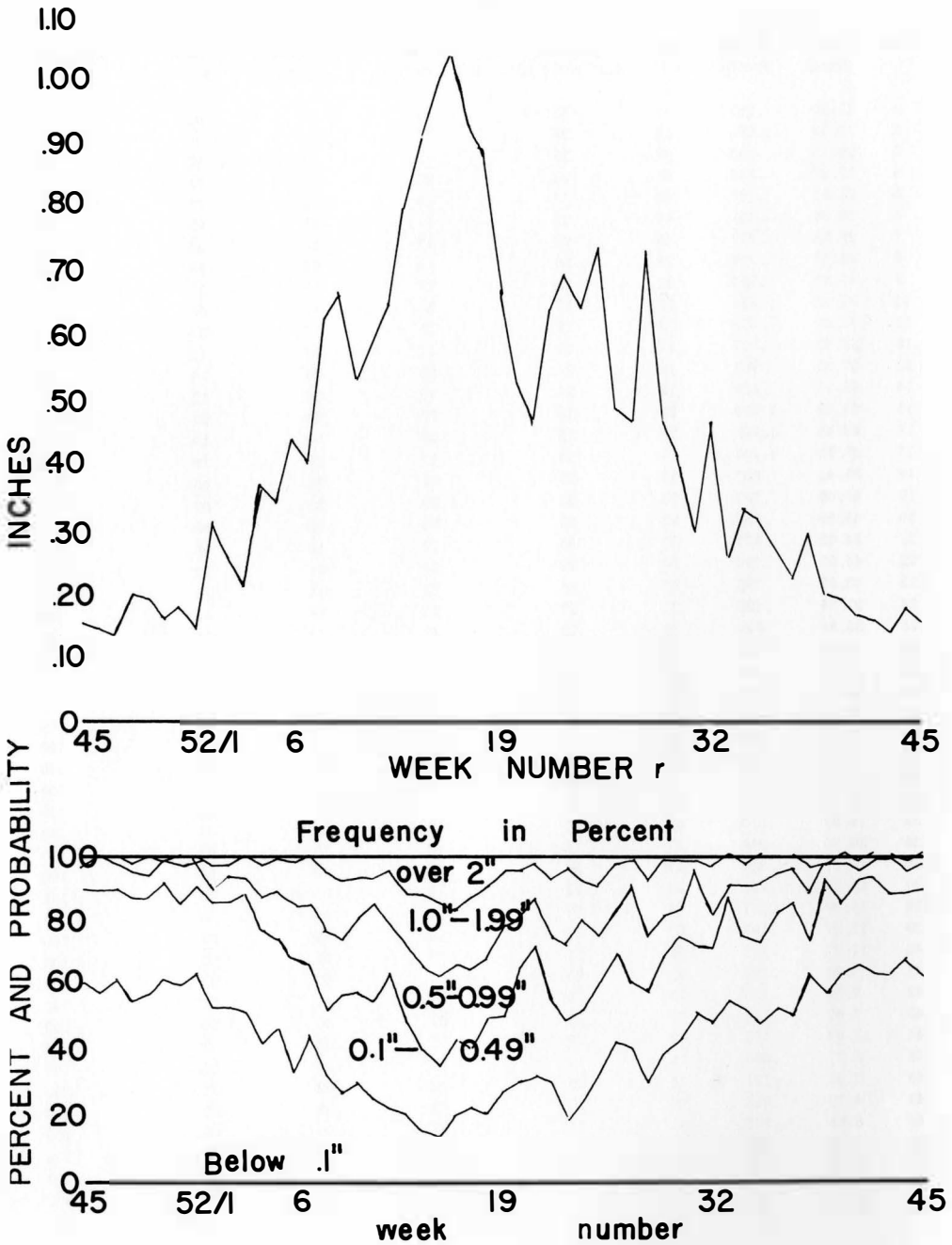


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (5228) Marion, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	17.20	.287	47	35	08	08	02	100
2	17.78	.296	52	25	15	07	01	100
3	24.15	.403	48	25	12	13	02	100
4	19.97	.333	45	25	22	07	01	100
5	23.67	.395	42	33	10	12	03	100
6	28.04	.467	45	22	17	13	03	100
7	28.73	.479	40	28	17	13	02	100
8	42.47	.708	28	30	14	20	08	100
9	41.83	.697	22	25	28	18	07	100
10	39.15	.653	28	22	25	17	08	100
11	41.61	.694	33	23	20	17	07	100
12	55.62	.927	17	32	17	17	17	100
13	57.80	.963	18	20	23	25	14	100
14	52.15	.869	18	27	17	26	12	100
15	63.62	1.060	20	18	22	20	20	100
16	68.40	1.140	20	12	25	30	13	100
17	68.93	1.149	17	20	17	28	18	100
18	51.41	.857	15	23	25	32	05	100
19	46.00	.767	23	22	23	25	07	100
20	45.53	.759	29	23	25	15	08	100
21	34.59	.577	32	30	17	16	05	100
22	45.53	.759	24	28	23	08	17	100
23	43.98	.733	27	25	23	15	10	100
24	37.54	.626	27	27	23	18	05	100
25	35.94	.599	30	22	23	20	05	100
26	43.82	.730	38	22	10	18	12	100
27	29.66	.494	38	30	10	19	03	100
28	46.67	.778	32	20	25	15	08	100
29	39.94	.666	35	27	10	22	06	100
30	33.80	.563	40	18	17	18	07	100
31	22.98	.383	48	29	15	05	03	100
32	28.94	.482	45	27	15	10	03	100
33	19.25	.321	58	17	15	05	05	100
34	18.59	.310	57	20	18	02	03	100
35	20.63	.344	57	18	10	13	02	100
36	19.01	.317	47	30	10	13	00	100
37	13.94	.232	60	22	12	06	00	100
38	15.08	.251	60	22	12	06	00	100
39	11.87	.198	67	23	03	05	02	100
40	11.27	.188	62	25	08	05	00	100
41	7.70	.128	69	25	03	03	00	100
42	7.54	.126	70	22	07	01	00	100
43	7.07	.118	68	23	09	00	00	100
44	11.68	.195	62	28	05	03	02	100
45	5.77	.096	75	18	07	00	00	100
46	7.26	.121	75	20	02	02	01	100
47	4.70	.078	72	25	03	00	00	100
48	8.55	.143	65	27	08	00	00	100
49	16.09	.268	53	28	12	05	02	100
50	13.23	.221	63	22	10	03	02	100
51	13.08	.218	53	30	10	07	00	100
52	12.55	.209	57	23	17	03	00	100

Average Weekly Precipitation, Milbank (5536), 1901-1960

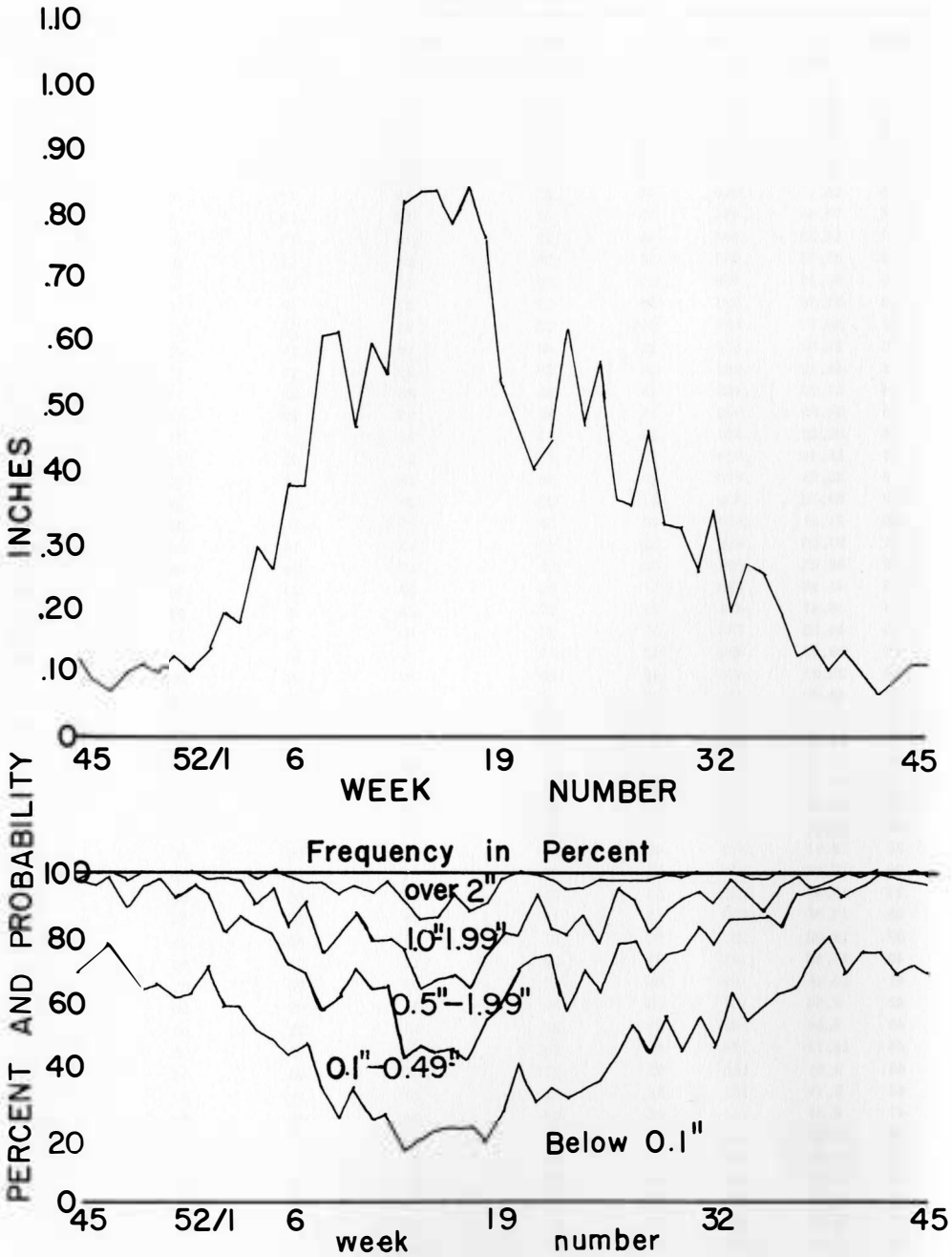


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (5536) Milbank, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	18.90	.315	53	32	05	07	03	100
2	16.15	.269	53	33	08	03	03	100
3	13.03	.217	52	36	05	07	00	100
4	22.47	.375	42	35	10	10	03	100
5	20.77	.346	47	27	15	10	01	100
6	26.66	.444	33	35	17	13	02	100
7	24.23	.404	45	22	18	15	00	100
8	37.96	.633	32	20	25	18	05	100
9	40.15	.669	27	30	17	18	08	100
10	31.95	.533	30	28	23	12	07	100
11	35.77	.596	25	30	30	08	07	100
12	39.01	.650	22	42	16	15	05	100
13	48.12	.802	20	28	25	15	12	100
14	54.20	.903	15	25	25	23	12	100
15	58.93	.982	13	22	28	22	15	100
16	62.22	1.037	20	23	23	17	17	100
17	55.44	.924	22	18	25	22	13	100
18	52.65	.876	20	30	18	22	10	100
19	39.72	.662	27	23	28	17	05	100
20	31.61	.527	30	35	15	15	05	100
21	27.00	.450	32	40	15	10	03	100
22	38.03	.634	30	25	17	20	08	100
23	41.56	.693	17	32	23	23	05	100
24	38.47	.641	25	27	28	12	08	100
25	44.12	.735	33	27	15	15	10	100
26	29.62	.494	42	27	13	15	03	100
27	28.21	.470	40	20	30	08	02	100
28	43.84	.731	29	28	17	18	08	100
29	27.76	.463	38	30	13	17	02	100
30	24.79	.413	43	32	08	15	02	100
31	17.87	.298	53	19	23	03	02	100
32	27.75	.463	48	23	10	15	04	100
33	15.46	.258	55	32	03	10	00	100
34	20.30	.338	52	23	15	07	03	100
35	18.91	.315	48	25	18	09	00	100
36	16.21	.270	52	30	12	06	00	100
37	13.49	.225	50	35	10	05	00	100
38	17.96	.299	63	10	15	08	04	100
39	12.03	.201	57	35	05	00	03	100
40	11.58	.193	63	22	12	03	00	100
41	10.16	.169	65	27	03	03	02	100
42	9.64	.161	63	30	05	02	00	100
43	8.54	.142	63	25	10	02	00	100
44	10.70	.178	68	20	07	03	02	100
45	9.61	.160	62	27	08	03	00	100
46	9.14	.152	58	32	10	00	00	100
47	8.39	.140	62	28	08	02	00	100
48	12.25	.204	55	33	07	03	02	100
49	11.95	.199	57	30	07	06	00	100
50	10.10	.168	62	30	07	00	01	100
51	11.29	.188	60	25	12	03	00	100
52	9.04	.151	63	28	07	02	00	100
53	2.21	.037	87	10	03	00	00	100

Average Weekly Precipitation, Miller (5561), 1902-1960

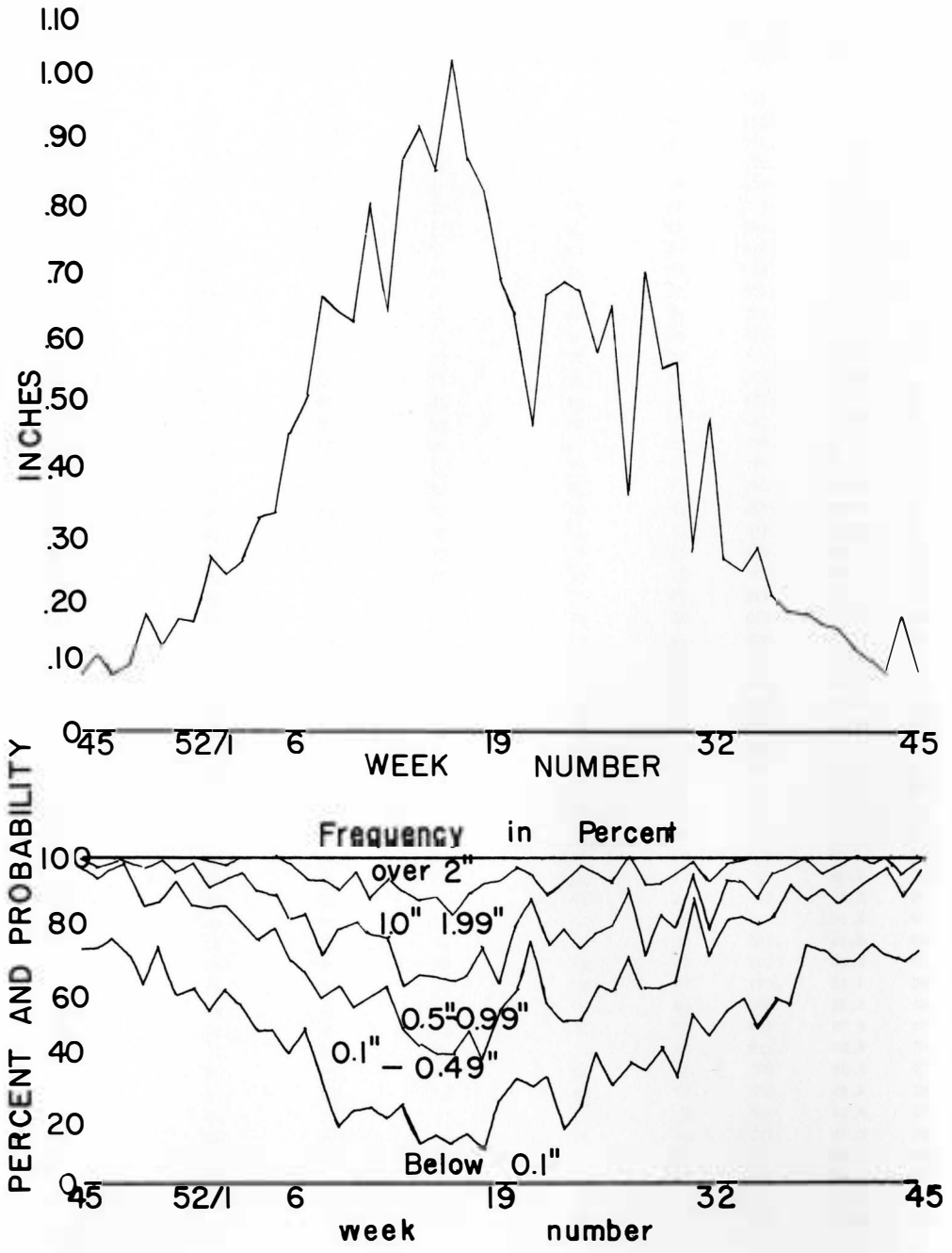


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (5561) Miller, 59 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0. 1"	Between 0. 1" and 0. 49"	Between 0. 5" and 0. 99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	8. 06	. 137	71	22	05	02	00	100
2	11. 31	. 192	59	22	17	02	00	100
3	10. 41	. 176	59	27	11	03	00	100
4	17. 43	. 295	52	31	07	07	03	100
5	15. 11	. 256	49	32	14	05	00	100
6	22. 86	. 387	44	27	12	15	02	100
7	22. 76	. 386	47	22	21	08	02	100
8	36. 27	. 616	34	24	17	22	03	100
9	36. 40	. 617	25	37	19	12	07	100
10	27. 91	. 473	34	36	17	08	05	100
11	35. 53	. 602	22	42	15	14	07	100
12	32. 46	. 550	24	41	14	18	03	100
13	48. 29	. 818	15	27	34	14	10	100
14	49. 03	. 831	19	28	17	22	14	100
15	49. 23	. 834	21	24	22	19	14	100
16	46. 06	. 781	22	24	22	25	07	100
17	49. 72	. 843	22	20	22	24	12	100
18	45. 27	. 767	17	37	19	17	10	100
19	32. 29	. 547	27	32	22	17	02	100
20	27. 86	. 472	42	28	10	20	00	100
21	24. 35	. 413	29	44	19	07	01	100
22	26. 84	. 455	34	41	07	15	03	100
23	37. 02	. 627	31	26	24	14	05	100
24	27. 82	. 472	34	36	17	08	05	100
25	33. 74	. 572	36	27	15	19	03	100
26	21. 72	. 368	44	34	17	02	03	100
27	18. 07	. 306	54	25	13	05	03	100
28	27. 84	. 472	44	25	12	16	03	100
29	19. 09	. 324	56	18	14	10	02	100
30	18. 98	. 322	45	31	15	07	02	100
31	14. 98	. 254	56	27	10	07	00	100
32	20. 55	. 348	46	32	12	10	00	100
33	11. 49	. 195	64	21	12	03	00	100
34	15. 55	. 264	54	31	07	06	02	100
35	14. 90	. 253	59	27	02	10	02	100
36	11. 46	. 194	63	20	12	05	00	100
37	7. 49	. 127	64	29	05	02	00	100
38	8. 61	. 146	75	19	01	05	00	100
39	6. 16	. 104	80	15	02	03	00	100
40	8. 04	. 136	68	24	07	01	00	100
41	5. 95	. 101	75	20	03	02	00	100
42	4. 18	. 071	75	24	01	00	00	100
43	5. 32	. 090	69	29	02	00	00	100
44	6. 70	. 114	71	26	03	00	00	100
45	6. 96	. 118	69	27	02	02	00	100
46	5. 38	. 091	73	22	05	00	00	100
47	4. 41	. 075	78	20	02	00	00	100
48	6. 14	. 104	71	17	10	02	00	100
49	6. 78	. 115	64	31	05	00	00	100
50	5. 94	. 101	65	32	03	00	00	100
51	7. 39	. 125	61	31	08	00	00	100
52	6. 15	. 104	63	32	05	00	00	100
53	2. 09	. 035	90	08	02	00	00	100

Average Weekly Precipitation, Mitchell (5671), 1901-1960

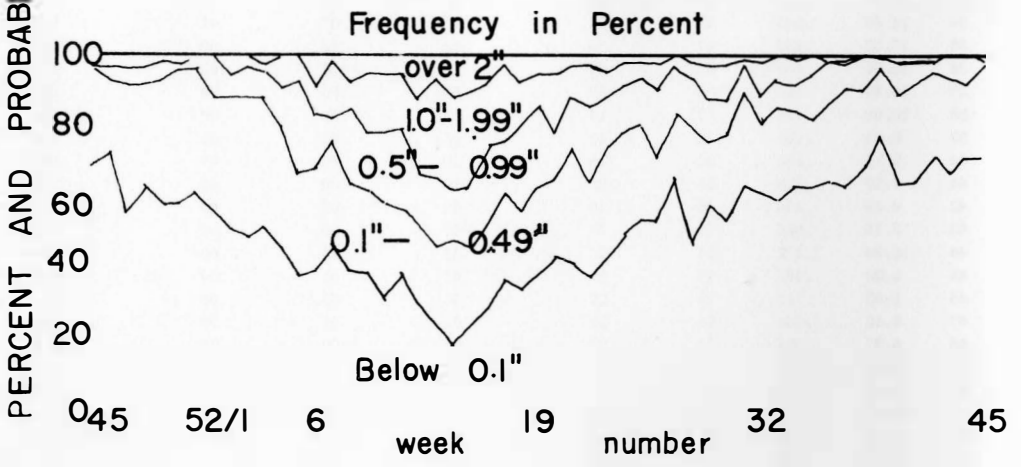
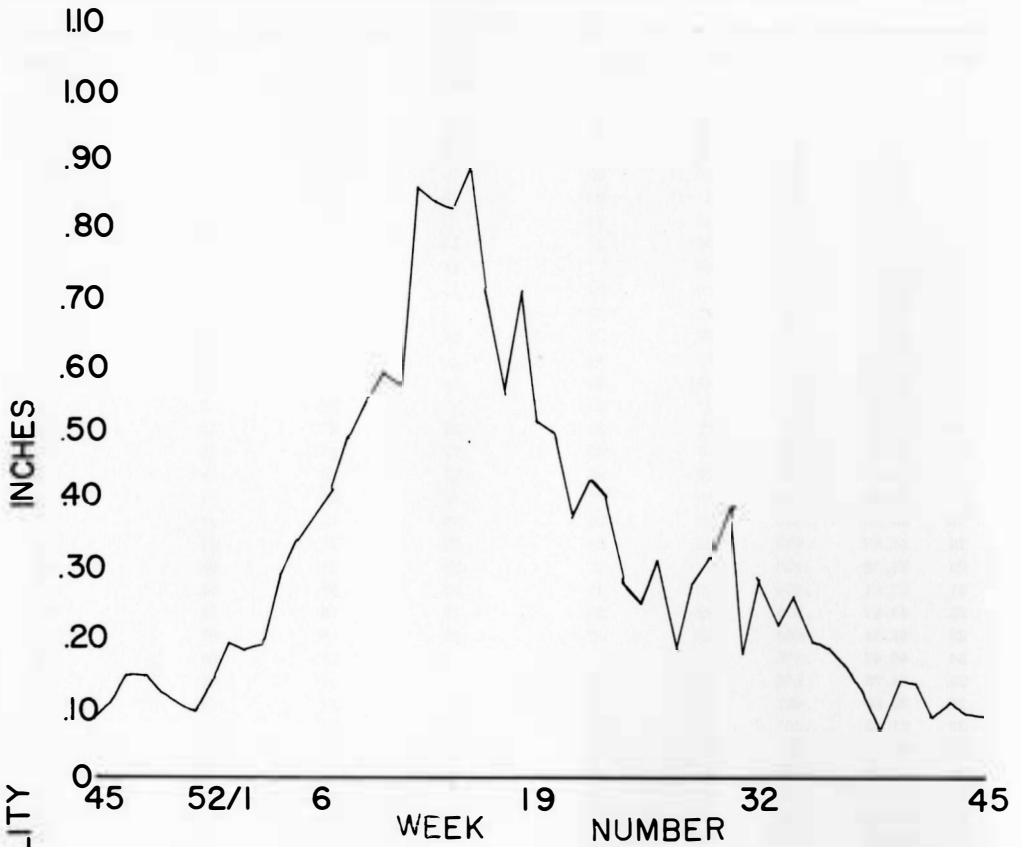


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (5671) Mitchell, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	16.00	.267	52	32	07	08	01	100
2	14.34	.239	60	25	08	05	02	100
3	15.71	.262	55	25	15	05	00	100
4	19.69	.328	47	28	15	10	00	100
5	19.90	.332	47	32	10	11	00	100
6	27.39	.457	40	28	13	17	02	100
7	30.92	.515	48	17	18	10	07	100
8	39.93	.666	33	24	13	23	07	100
9	38.60	.643	17	43	18	12	10	100
10	37.63	.627	22	32	26	15	05	100
11	48.34	.806	23	34	20	10	13	100
12	38.86	.648	20	40	15	18	07	100
13	52.49	.875	24	23	13	30	10	100
14	55.27	.921	12	30	22	23	13	100
15	51.15	.853	15	25	23	25	12	100
16	61.24	1.021	12	28	22	20	18	100
17	52.69	.878	15	32	17	25	11	100
18	49.80	.830	10	28	35	19	08	100
19	41.58	.693	25	28	08	32	07	100
20	38.02	.634	32	27	20	18	03	100
21	27.81	.464	30	45	12	08	05	100
22	40.27	.671	32	23	18	15	12	100
23	41.39	.690	18	32	28	15	07	100
24	40.47	.675	23	27	22	25	03	100
25	34.72	.578	40	20	17	18	05	100
26	39.09	.652	30	29	20	13	08	100
27	21.43	.357	37	33	20	10	00	100
28	42.34	.706	35	25	10	22	08	100
29	33.48	.558	42	18	22	10	08	100
30	34.10	.568	32	30	17	16	05	100
31	16.40	.273	52	35	07	05	01	100
32	28.81	.480	45	25	08	15	07	100
33	15.64	.261	53	28	12	05	02	100
34	14.64	.244	57	25	10	07	01	100
35	17.02	.284	47	33	08	12	00	100
36	12.56	.209	57	25	13	05	00	100
37	10.81	.180	55	37	05	03	00	100
38	10.68	.178	73	14	13	00	00	100
39	9.81	.164	72	18	05	05	00	100
40	9.16	.153	68	18	12	02	00	100
41	7.29	.122	68	22	10	00	00	100
42	6.28	.105	73	20	05	02	00	100
43	5.16	.086	70	27	03	00	00	100
44	10.34	.172	68	20	07	05	00	100
45	5.20	.087	72	25	02	01	00	100
46	6.83	.114	72	22	03	03	00	100
47	5.12	.085	75	22	02	01	00	100
48	5.87	.098	70	28	00	02	00	100
49	10.96	.183	60	25	12	03	00	100
50	7.38	.123	72	15	12	01	00	100
51	10.07	.168	58	35	02	05	00	100
52	9.78	.163	60	25	13	02	00	100
53	2.33	.039	87	13	00	00	00	100

Average Weekly Precipitation, Oelrichs (6212), 1897-1908, 1910-1952, 1957-1960

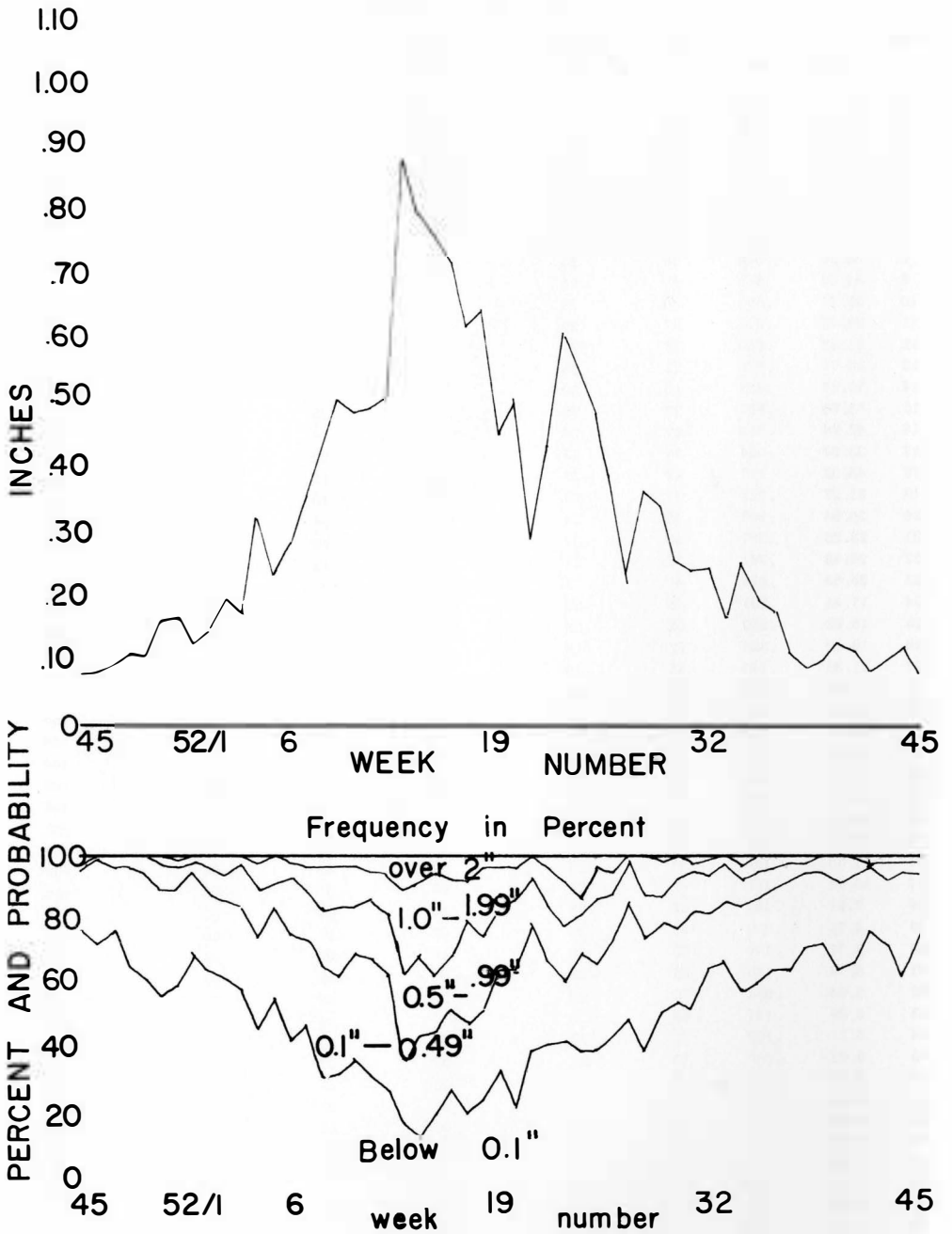


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (6212) Oelrichs. 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	12.14	.202	50	38	07	05	00	100
2	11.68	.195	48	40	09	03	00	100
3	12.15	.203	50	38	08	02	02	100
4	18.17	.303	44	35	13	08	00	100
5	21.13	.352	36	30	27	07	00	100
6	27.18	.453	38	30	15	08	09	100
7	25.59	.427	45	30	07	17	01	100
8	30.26	.504	38	25	22	08	07	100
9	34.06	.568	37	25	16	17	05	100
10	35.47	.591	30	28	20	17	05	100
11	34.58	.576	37	20	22	16	05	100
12	51.58	.860	28	23	15	22	12	100
13	50.74	.846	22	23	20	28	07	100
14	50.27	.838	16	30	15	27	12	100
15	53.80	.897	23	22	17	28	10	100
16	42.96	.716	27	24	23	18	08	100
17	33.84	.564	35	25	15	22	03	100
18	43.03	.717	32	23	25	13	07	100
19	31.27	.521	37	25	23	10	05	100
20	30.54	.509	42	22	13	18	05	100
21	23.20	.387	40	34	15	08	03	100
22	26.48	.441	36	27	22	12	03	100
23	25.03	.417	41	32	15	07	05	100
24	17.45	.291	48	30	13	07	02	100
25	15.62	.260	52	28	13	05	02	100
26	19.49	.325	52	18	20	08	02	100
27	11.39	.190	65	18	14	03	00	100
28	17.20	.287	45	35	13	05	02	100
29	19.44	.324	57	18	12	10	03	100
30	23.96	.399	52	25	10	10	03	100
31	10.99	.183	62	27	08	02	01	100
32	17.88	.298	60	20	08	10	02	100
33	13.41	.224	58	27	08	07	00	100
34	16.32	.272	62	22	07	08	01	100
35	12.22	.204	62	20	12	06	00	100
36	11.75	.196	63	23	12	00	02	100
37	10.11	.169	62	28	07	01	02	100
38	7.81	.130	67	23	10	00	00	100
39	4.75	.079	77	20	02	01	00	100
40	8.77	.146	63	25	10	02	00	100
41	8.70	.145	63	28	07	02	00	100
42	5.64	.094	70	25	03	02	00	100
43	6.99	.117	65	28	07	00	00	100
44	6.11	.102	70	22	08	00	00	100
45	5.62	.094	70	27	01	02	00	100
46	6.91	.115	72	22	03	03	00	100
47	9.26	.154	55	37	05	03	00	100
48	9.48	.158	62	30	05	03	00	100
49	7.79	.130	58	35	05	02	00	100
50	6.96	.116	58	38	02	02	00	100
51	6.10	.102	60	37	03	00	00	100
52	9.02	.150	55	33	12	00	00	100
53	2.36	.039	85	13	02	00	00	100

Average Weekly Precipitation, Pierre (6597), 1901-1960

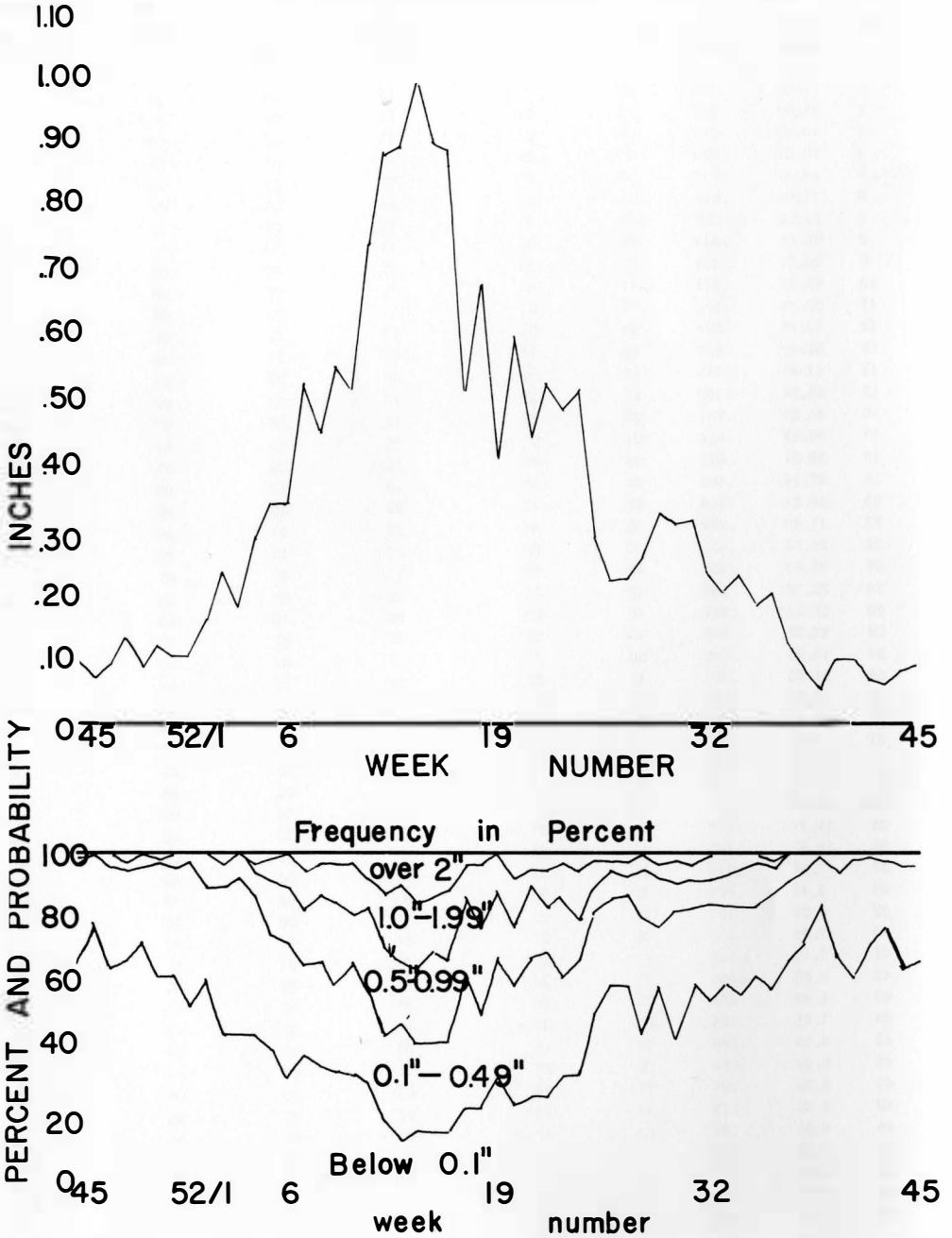


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (6597) Pierre, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	9.00	.150	65	23	08	04	00	100
2	11.99	.200	62	25	07	06	00	100
3	10.59	.177	58	27	13	02	00	100
4	19.21	.320	47	28	15	08	02	100
5	14.01	.234	57	27	08	08	00	100
6	17.00	.283	43	33	18	04	02	100
7	21.53	.359	48	27	15	07	03	100
8	26.65	.444	32	35	17	13	03	100
9	30.31	.505	33	30	22	12	03	100
10	29.16	.486	37	33	15	12	03	100
11	29.48	.491	32	37	18	08	05	100
12	30.48	.508	28	37	18	12	05	100
13	52.40	.873	18	18	27	27	10	100
14	47.67	.795	13	32	25	22	08	100
15	45.59	.760	21	25	17	32	05	100
16	43.26	.721	28	25	17	23	07	100
17	36.85	.614	21	27	32	13	07	100
18	38.51	.642	25	28	22	22	03	100
19	27.14	.452	35	30	19	13	03	100
20	30.21	.504	22	43	22	10	03	100
21	17.40	.290	40	40	13	07	00	100
22	26.08	.435	42	26	17	12	03	100
23	36.50	.608	43	18	17	15	07	100
24	32.70	.545	40	30	12	05	13	100
25	29.27	.488	40	27	20	10	03	100
26	23.32	.389	45	30	13	07	05	100
27	13.30	.222	50	36	13	01	00	100
28	21.63	.361	40	35	13	12	00	100
29	20.44	.341	52	27	08	12	01	100
30	15.38	.256	55	23	15	07	00	100
31	14.62	.244	53	30	12	03	02	100
32	14.76	.246	65	17	12	05	01	100
33	9.92	.165	68	18	12	02	00	100
34	15.29	.255	58	27	08	04	03	100
35	11.87	.198	60	27	08	05	00	100
36	10.92	.182	65	25	07	03	00	100
37	7.06	.118	65	28	05	02	00	100
38	5.46	.091	72	23	03	02	00	100
39	6.20	.103	73	22	05	00	00	100
40	7.95	.133	65	27	08	00	00	100
41	7.17	.120	67	27	05	01	00	100
42	5.27	.088	77	20	01	02	00	100
43	6.49	.108	73	20	05	02	00	100
44	7.41	.124	63	32	03	02	00	100
45	5.15	.086	77	18	03	02	00	100
46	5.14	.086	72	27	01	00	00	100
47	5.72	.095	77	20	03	00	00	100
48	6.88	.115	67	30	03	00	00	100
49	6.52	.109	63	32	05	00	00	100
50	9.92	.165	57	33	08	02	00	100
51	10.08	.168	60	30	07	02	01	100
52	7.70	.128	70	25	03	02	00	100
53	1.91	.032	90	10	00	00	00	100

Average Weekly Precipitation, Rapid City (6937), 1901-1960

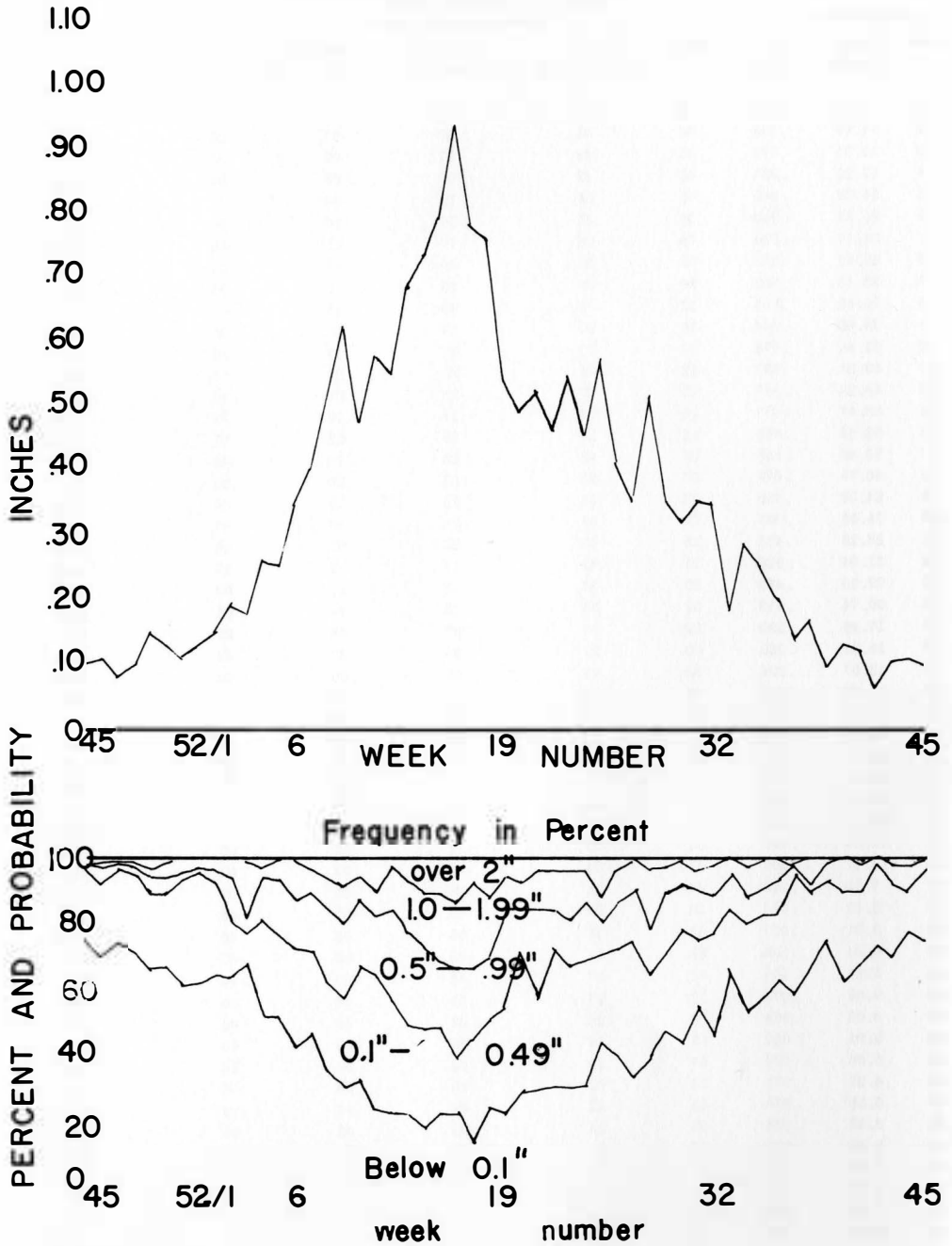


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (6937) Rapid City, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	9.62	.160	62	28	10	00	00	100
2	14.09	.235	45	45	07	03	00	100
3	10.55	.176	45	48	07	00	00	100
4	17.20	.287	45	42	07	03	03	100
5	20.39	.340	40	35	17	07	01	100
6	20.39	.340	32	41	17	10	00	100
7	31.77	.530	38	28	17	12	05	100
8	26.60	.443	35	32	20	10	03	100
9	33.10	.552	33	27	25	12	03	100
10	30.85	.514	32	35	15	15	03	100
11	38.62	.744	30	27	27	08	08	100
12	52.44	.874	17	27	27	17	12	100
13	53.21	.887	12	35	20	23	10	100
14	59.24	.987	15	27	23	20	15	100
15	53.57	.893	15	27	28	17	13	100
16	53.09	.885	15	27	25	22	11	100
17	30.46	.508	22	42	23	10	03	100
18	40.76	.679	22	28	27	20	03	100
19	24.53	.409	33	35	20	12	00	100
20	35.55	.593	23	35	20	15	07	100
21	26.29	.438	25	43	22	05	05	100
22	31.54	.526	25	45	13	12	05	100
23	29.30	.488	32	30	25	10	03	100
24	30.76	.513	32	35	13	15	05	100
25	17.40	.290	50	33	07	08	02	100
26	13.51	.225	60	27	08	03	02	100
27	13.57	.226	60	28	05	05	02	100
28	15.73	.262	45	35	15	05	00	100
29	19.59	.327	60	18	14	05	03	100
30	18.64	.311	43	40	08	07	02	100
31	19.16	.319	60	21	08	05	03	100
32	13.91	.232	55	30	07	08	00	100
33	12.38	.206	60	25	08	07	00	100
34	14.04	.234	57	28	10	05	00	100
35	11.34	.189	63	22	12	03	00	100
36	12.41	.207	58	30	08	02	02	100
37	7.30	.122	67	25	08	00	00	100
38	5.15	.086	73	22	05	00	00	100
39	3.51	.059	85	15	00	00	00	100
40	6.24	.104	68	27	05	00	00	100
41	6.27	.105	62	37	01	00	00	100
42	4.39	.073	72	27	01	00	00	100
43	4.06	.068	78	20	02	00	00	100
44	5.22	.087	65	32	03	00	00	100
45	5.86	.098	67	30	02	01	00	100
46	4.25	.071	78	22	00	00	00	100
47	5.38	.090	65	32	03	00	00	100
48	8.02	.134	67	28	03	02	00	100
49	5.19	.087	73	23	04	00	00	100
50	7.18	.120	62	35	02	01	00	100
51	6.32	.105	63	33	04	00	00	100
52	6.21	.104	53	45	02	00	00	100
53	2.10	.035	90	08	02	00	00	100

Average Weekly Precipitation, Redfield (7047), 1901--1960

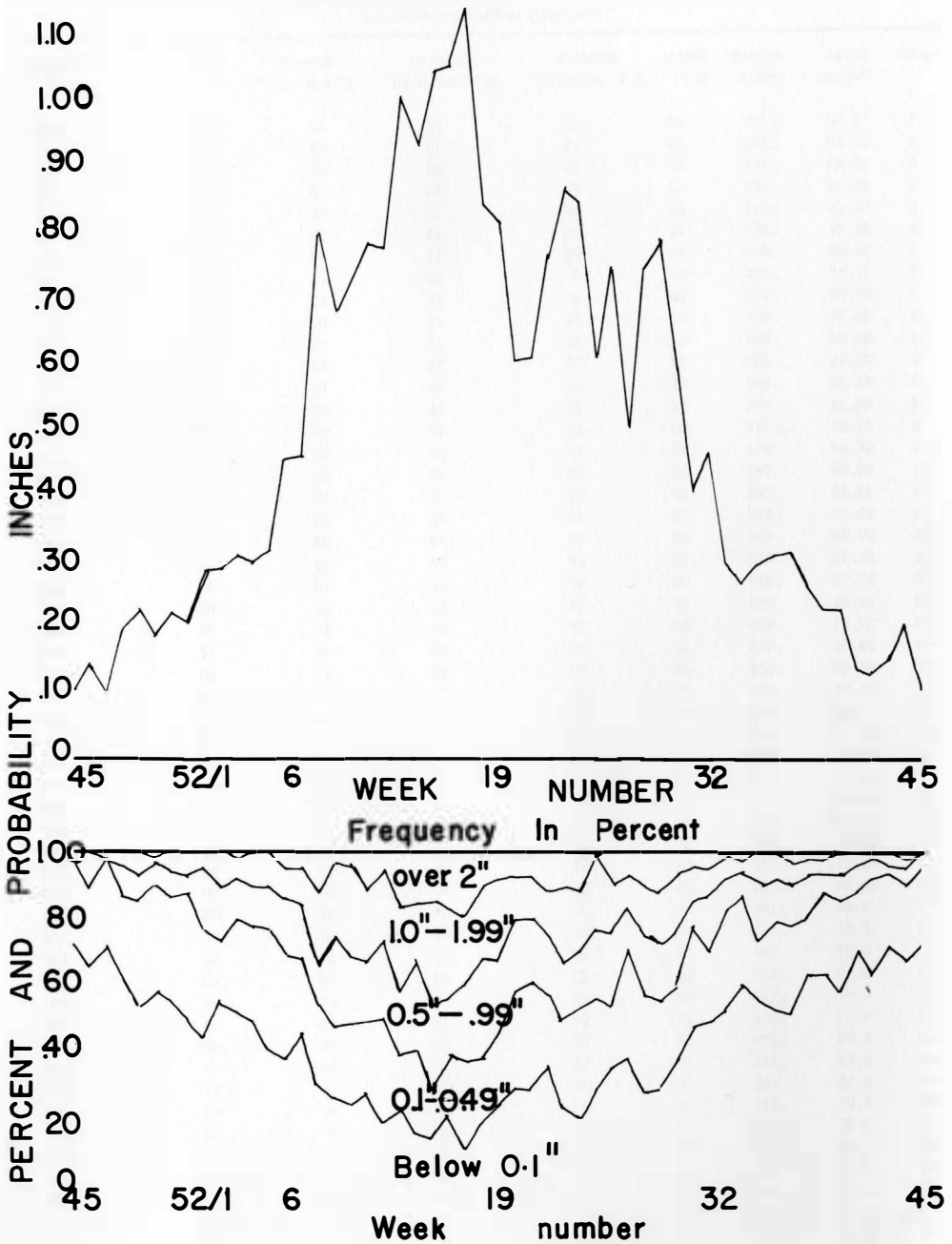


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (7047) Redfield, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	9.33	.156	67	23	07	03	00	100
2	11.53	.192	64	18	13	05	00	100
3	10.88	.181	68	19	05	08	00	100
4	15.72	.262	52	30	13	03	02	100
5	15.44	.257	52	25	17	06	00	100
6	21.01	.350	42	31	15	12	00	100
7	24.06	.401	47	25	18	07	03	100
8	31.56	.526	35	27	22	11	05	100
9	37.39	.623	30	27	23	12	08	100
10	28.73	.479	32	36	20	07	05	100
11	34.80	.580	23	42	18	07	10	100
12	33.12	.552	22	35	28	13	02	100
13	41.36	.689	22	27	28	16	07	100
14	44.15	.736	18	30	25	17	10	100
15	47.93	.799	22	27	20	21	10	100
16	56.43	.941	22	17	28	20	13	100
17	46.86	.781	13	32	22	26	07	100
18	45.63	.761	23	28	19	18	12	100
19	32.77	.546	22	33	30	10	05	100
20	29.66	.494	28	44	13	08	07	100
21	31.70	.528	29	28	28	12	03	100
22	27.72	.462	30	43	12	12	03	100
23	32.81	.547	30	37	15	15	03	100
24	27.21	.454	30	39	18	10	03	100
25	34.54	.576	43	28	09	08	12	100
26	25.05	.418	40	32	15	10	03	100
27	21.26	.354	32	43	15	10	00	100
28	31.09	.518	39	25	15	18	03	100
29	21.70	.362	47	25	18	08	02	100
30	19.38	.323	43	36	13	08	00	100
31	21.43	.357	55	20	15	07	03	100
32	21.21	.354	45	32	12	10	01	100
33	11.09	.185	67	17	11	05	00	100
34	17.53	.292	53	27	08	10	02	100
35	15.27	.255	58	25	08	09	00	100
36	12.19	.203	63	20	10	07	00	100
37	8.51	.142	58	37	03	00	02	100
38	10.21	.170	67	23	02	08	00	100
39	5.96	.099	75	18	05	02	00	100
40	8.13	.136	63	27	10	00	00	100
41	7.41	.124	68	22	08	02	00	100
42	4.14	.069	73	25	02	00	00	100
43	6.56	.109	70	23	05	02	00	100
44	6.68	.111	77	13	08	02	00	100
45	6.12	.102	75	22	02	00	01	100
46	6.67	.111	70	23	05	02	00	100
47	5.27	.088	75	22	02	01	00	100
48	6.40	.107	72	23	03	02	00	100
49	9.96	.166	67	23	05	03	02	100
50	8.18	.136	62	32	03	03	00	100
51	6.70	.112	63	33	02	02	00	100
52	8.03	.134	65	28	04	03	00	100
53	2.82	.047	85	10	03	02	00	100

Average Weekly Precipitation, Sioux Falls (7667), 1901-1960

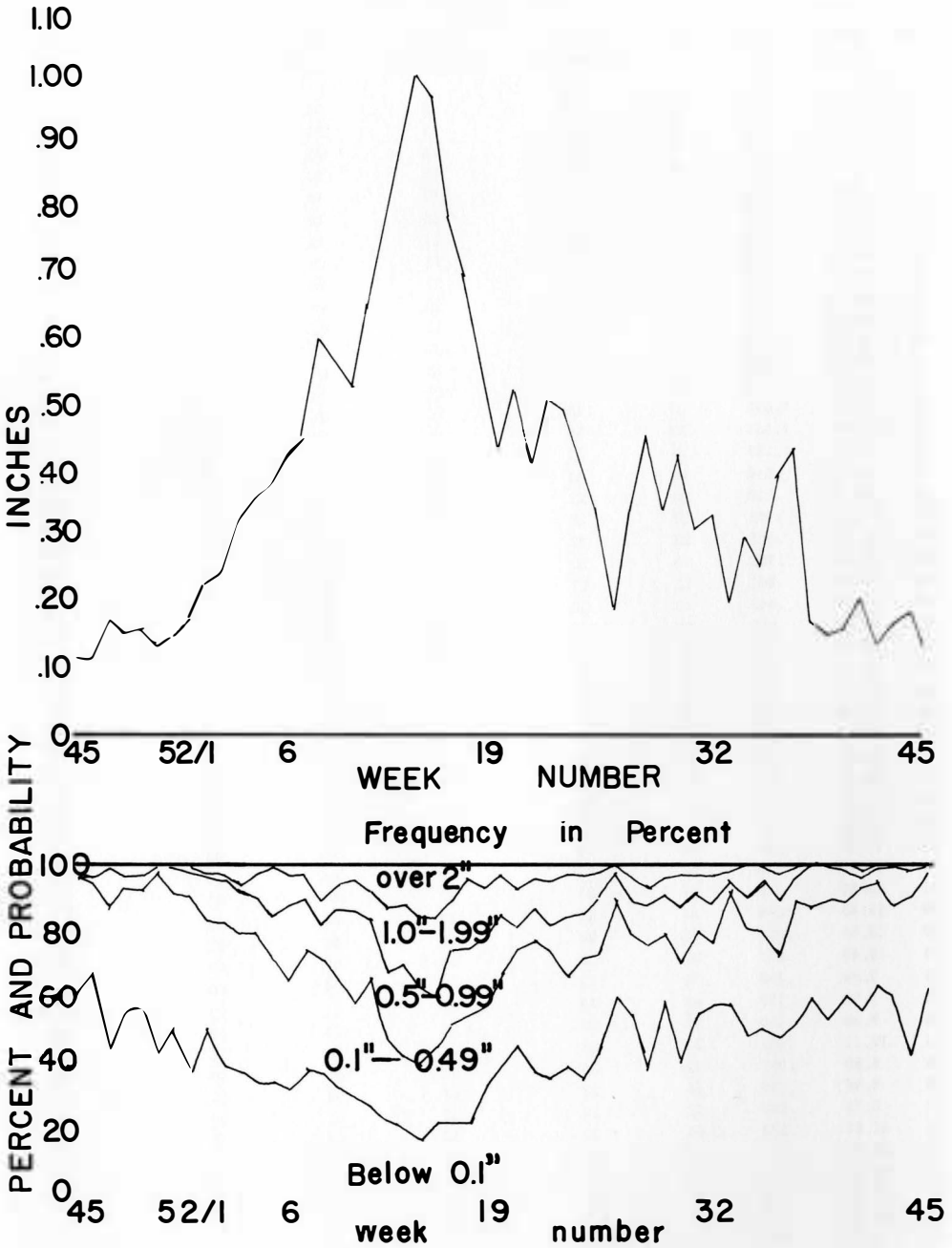


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (7667) Sioux Falls, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	16.92	.282	43	33	19	05	00	100
2	17.16	.286	55	18	17	10	00	100
3	18.10	.302	52	28	12	07	01	100
4	17.84	.297	48	30	12	10	00	100
5	19.10	.318	40	37	13	10	00	100
6	27.31	.455	37	32	16	10	05	100
7	27.37	.456	45	22	17	11	05	100
8	48.27	.805	28	25	13	22	12	100
9	40.57	.676	25	22	27	23	03	100
10	44.03	.734	23	25	20	28	04	100
11	46.93	.782	27	22	18	22	11	100
12	46.69	.778	18	32	23	22	05	100
13	60.51	1.009	22	17	18	27	16	100
14	55.78	.930	15	25	27	18	15	100
15	62.59	1.043	13	15	26	31	15	100
16	63.05	1.051	20	18	18	27	17	100
17	68.32	1.139	10	27	23	20	20	100
18	50.73	.846	18	20	30	22	10	100
19	48.74	.812	23	22	22	25	08	100
20	36.07	.601	28	30	22	13	07	100
21	36.27	.605	28	32	20	12	08	100
22	45.70	.762	35	22	18	13	12	100
23	52.00	.867	22	27	18	22	11	100
24	50.71	.845	19	33	18	18	12	100
25	36.89	.615	28	27	22	23	00	100
26	44.67	.745	35	18	22	15	10	100
27	30.49	.508	38	33	12	10	07	100
28	44.91	.749	27	30	17	16	10	100
29	47.39	.790	28	27	17	16	12	100
30	37.03	.617	37	23	16	17	07	100
31	24.50	.408	47	30	08	10	05	100
32	28.17	.470	48	22	17	08	05	100
33	17.42	.290	52	30	10	07	01	100
34	15.84	.264	60	27	07	03	03	100
35	17.51	.292	55	18	17	10	00	100
36	18.46	.308	52	27	13	08	00	100
37	18.80	.313	51	27	12	07	03	100
38	15.48	.258	63	17	13	05	02	100
39	13.60	.227	63	25	05	05	02	100
40	13.63	.227	57	28	08	07	00	100
41	7.96	.133	70	18	08	04	00	100
42	7.75	.129	62	30	07	01	00	100
43	9.00	.150	72	22	01	05	00	100
44	12.11	.202	67	23	05	03	02	100
45	5.80	.097	72	25	03	00	00	100
46	8.16	.136	65	23	12	00	00	100
47	5.73	.096	72	27	00	01	00	100
48	11.51	.192	63	23	10	04	00	100
49	13.30	.222	53	32	08	07	00	100
50	10.83	.181	58	32	07	02	01	100
51	13.13	.219	55	32	07	06	00	100
52	12.25	.204	50	38	05	07	00	100
53	2.70	.045	87	12	00	01	00	100

Average Weekly Precipitation, Spearfish (7882), 1901-1960

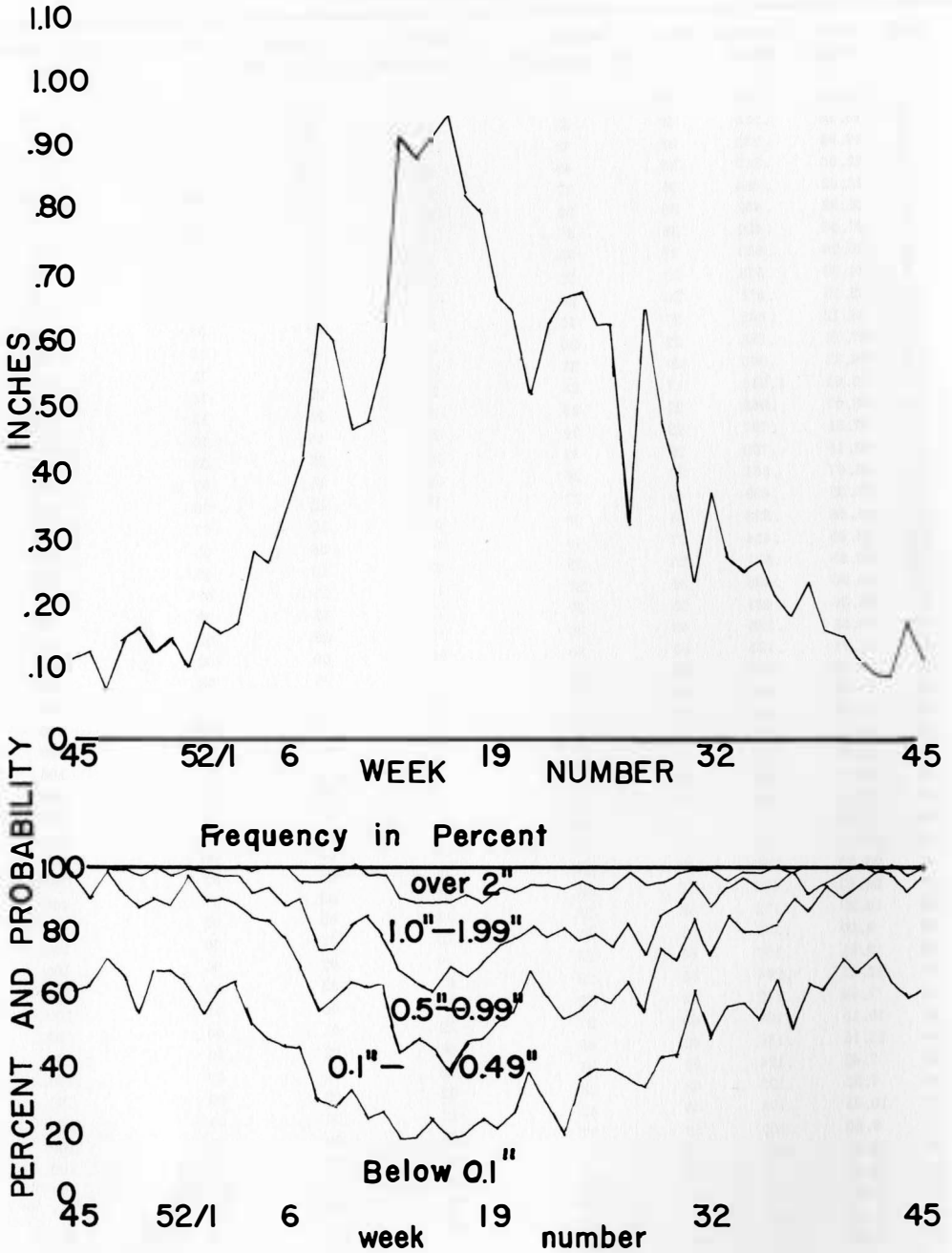


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (1882) Spearfish, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	14.33	.239	52	32	13	01	02	100
2	15.28	.255	40	43	13	02	02	100
3	19.90	.332	38	42	12	03	05	100
4	22.00	.367	35	45	10	08	02	100
5	23.02	.384	35	37	13	15	00	100
6	25.92	.432	33	32	23	10	02	100
7	27.56	.459	38	37	15	08	02	100
8	36.20	.603	37	35	10	08	10	100
9	34.38	.573	33	32	22	08	05	100
10	32.13	.536	30	28	28	10	04	100
11	38.72	.645	27	40	17	08	08	100
12	47.16	.786	22	26	20	20	12	100
13	54.32	.905	20	22	28	18	12	100
14	60.60	1.010	17	23	23	22	15	100
15	58.07	.968	22	23	15	25	15	100
16	47.81	.797	22	30	23	15	10	100
17	42.15	.703	22	33	20	22	03	100
18	33.67	.561	32	26	20	15	07	100
19	26.32	.439	40	27	18	12	03	100
20	31.68	.528	45	30	06	12	07	100
21	24.85	.414	37	40	10	08	05	100
22	30.65	.511	35	39	08	13	05	100
23	29.90	.498	39	27	18	13	03	100
24	25.36	.423	35	37	13	12	03	100
25	20.31	.339	43	30	17	08	02	100
26	11.71	.195	60	30	08	00	02	100
27	20.56	.343	54	25	10	08	03	100
28	27.44	.457	38	38	12	05	07	100
29	20.66	.344	59	20	12	05	04	100
30	25.67	.428	40	30	17	10	03	100
31	18.65	.311	55	25	12	05	03	100
32	20.15	.336	57	18	13	09	03	100
33	12.06	.201	57	35	03	03	02	100
34	18.05	.301	48	32	10	10	00	100
35	15.04	.251	50	30	15	05	00	100
36	23.75	.396	47	25	17	08	03	100
37	26.13	.436	52	37	07	03	01	100
38	10.29	.172	59	26	13	00	00	100
39	9.20	.153	52	37	10	01	00	100
40	9.61	.160	60	28	10	02	00	100
41	12.21	.204	55	38	03	02	02	100
42	7.94	.132	62	32	05	00	01	100
43	10.10	.168	60	27	12	01	00	100
44	11.15	.186	42	48	08	02	00	100
45	7.42	.124	62	35	02	01	00	100
46	7.35	.123	68	28	02	02	00	100
47	10.65	.178	45	43	12	00	00	100
48	9.60	.160	58	37	03	00	02	100
49	10.03	.167	58	35	05	00	02	100
50	8.40	.140	43	55	02	00	00	100
51	9.33	.156	52	40	08	00	00	100
52	11.12	.185	38	53	07	02	00	100
53	2.46	.041	88	09	03	00	00	100

Average Weekly Precipitation, Watertown (8932), 1899, 1900, 1903-1960

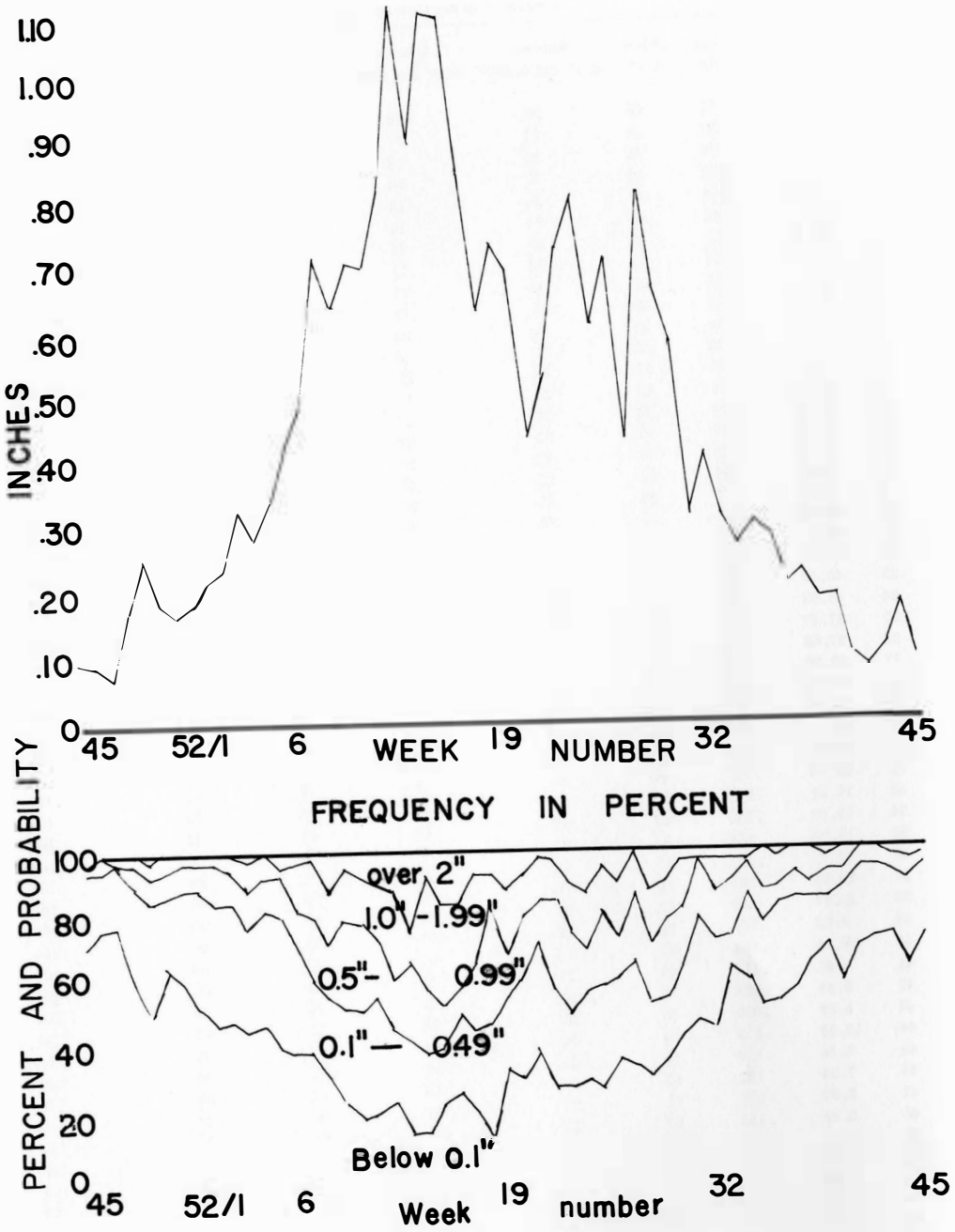


Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (8932) Watertown, 60 years

Frequency in Per Cent of Weeks

Week	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"	Accumulated inches
1	10.58	.176	55	35	08	02	00	100
2	9.51	.159	63	27	07	03	00	100
3	10.19	.170	65	24	08	03	00	100
4	17.17	.286	52	32	08	07	01	100
5	15.84	.264	47	36	10	07	00	100
6	20.67	.345	45	33	10	12	00	100
7	25.48	.425	45	23	22	05	05	100
8	37.48	.625	28	28	19	20	05	100
9	35.67	.595	27	33	15	23	02	100
10	28.30	.472	32	32	18	18	00	100
11	28.54	.476	23	40	22	12	03	100
12	34.36	.573	25	39	15	18	03	100
13	54.18	.903	17	26	25	22	10	100
14	52.57	.876	17	30	17	25	11	100
15	54.81	.914	23	22	17	27	11	100
16	56.96	.949	17	20	32	20	11	100
17	49.21	.820	18	28	20	25	09	100
18	47.96	.799	22	25	23	18	12	100
19	40.28	.671	20	33	23	17	07	100
20	38.53	.642	25	30	23	14	08	100
21	30.84	.514	37	32	12	13	06	100
22	37.53	.626	27	32	20	15	06	100
23	40.09	.668	18	35	28	12	07	100
24	40.68	.678	35	22	20	18	05	100
25	37.47	.625	38	22	18	15	07	100
26	37.65	.628	38	20	17	18	07	100
27	29.29	.322	35	30	18	15	02	100
28	39.32	.655	33	22	17	22	06	100
29	28.76	.479	42	33	10	10	05	100
30	23.19	.387	43	28	17	10	02	100
31	14.00	.233	62	22	10	05	01	100
32	22.64	.377	47	25	15	12	01	100
33	16.61	.277	57	28	08	02	05	100
34	15.00	.250	58	22	15	03	02	100
35	15.98	.266	53	27	13	05	02	100
36	12.42	.207	65	17	12	06	00	100
37	10.98	.183	50	40	08	00	02	100
38	13.97	.233	63	23	05	09	00	100
39	9.55	.159	62	32	01	05	00	100
40	9.14	.152	72	18	07	03	00	100
41	7.01	.117	67	27	06	00	00	100
42	5.88	.098	73	25	00	02	00	100
43	5.38	.090	65	33	02	00	00	100
44	10.30	.172	60	32	05	03	00	100
45	6.88	.115	62	35	02	01	00	100
46	7.34	.122	63	27	10	00	00	100
47	3.99	.067	72	27	01	00	00	100
48	8.42	.140	67	25	07	01	00	100
49	9.97	.166	55	33	09	03	00	100
50	7.38	.123	68	22	10	00	00	100
51	8.85	.148	68	20	09	03	00	100
52	6.14	.102	65	32	02	01	00	100
53	1.43	.024	93	05	02	00	00	100

Average Weekly Precipitation, Yankton (9502), 1901-1960



Average Weekly Precipitation and Frequency of Occurrence of Indicated Amounts (9502) Yankton, 60 years

Week	Frequency in Per Cent of Weeks								Accumulated inches
	Total Precip.	Average Precip.	Below 0.1"	Between 0.1" and 0.49"	Between 0.5" and 0.99"	Between 1" and 1.99"	Above 2"		
1	13.45	.224	47	38	12	03	00	100	
2	14.51	.242	48	37	10	05	00	100	
3	19.84	.331	45	32	12	10	01	100	
4	17.22	.287	47	35	10	08	00	100	
5	20.83	.347	40	41	12	02	05	100	
6	25.71	.429	38	34	10	15	03	100	
7	29.71	.495	38	23	19	18	02	100	
8	43.24	.721	30	25	16	17	12	100	
9	38.78	.646	22	30	27	16	05	100	
10	42.82	.714	18	33	27	14	08	100	
11	42.43	.707	20	36	17	17	10	100	
12	49.34	.822	23	23	15	27	12	100	
13	67.73	1.129	13	29	23	10	25	100	
14	54.46	.908	13	25	20	34	08	100	
15	66.20	1.103	22	17	13	32	16	100	
16	65.90	1.098	25	27	05	27	16	100	
17	51.54	.859	20	25	20	28	07	100	
18	37.92	.632	12	35	36	10	07	100	
19	44.43	.741	32	23	13	20	12	100	
20	41.99	.700	30	30	20	12	08	100	
21	26.57	.443	38	35	12	13	02	100	
22	32.10	.535	27	30	28	12	03	100	
23	43.90	.732	27	23	25	15	10	100	
24	48.77	.813	29	27	13	18	13	100	
25	36.83	.614	27	32	23	13	05	100	
26	43.63	.727	35	25	13	17	10	100	
27	26.43	.441	33	32	22	12	01	100	
28	49.33	.822	30	23	18	17	12	100	
29	40.08	.668	35	19	24	12	10	100	
30	35.27	.588	42	22	18	15	03	100	
31	19.25	.321	47	32	17	01	03	100	
32	25.10	.418	45	27	15	10	03	100	
33	19.25	.321	63	10	17	07	03	100	
34	16.46	.274	60	25	10	02	03	100	
35	18.37	.306	52	25	10	13	00	100	
36	17.40	.290	53	30	05	10	02	100	
37	12.97	.216	57	28	08	07	00	100	
38	14.22	.237	65	20	05	10	00	100	
39	11.50	.192	70	15	08	05	02	100	
40	12.37	.199	58	30	05	07	00	100	
41	6.26	.104	70	25	05	00	00	100	
42	5.15	.086	72	23	05	00	00	100	
43	7.04	.117	73	20	05	02	00	100	
44	11.22	.187	63	27	07	03	00	100	
45	5.94	.099	73	22	03	02	00	100	
46	5.44	.091	77	18	05	00	00	100	
47	4.38	.073	78	20	00	02	00	100	
48	10.54	.176	60	30	07	03	00	100	
49	15.56	.259	50	35	08	05	02	100	
50	11.31	.189	65	22	08	05	00	100	
51	10.15	.169	60	29	08	03	00	100	
52	11.30	.188	52	37	08	03	00	100	
53	2.98	.050	87	10	01	02	00	100	