WAR DEPARTMENT WEATHER MAP.

SIGNAL SERVICE, U.S. ARMY.

DIVISION OF TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

PRECIPITATION CHART FOR JULY, 1877.

AVERAGE PRECIPITATION FOR JULY.

DISTRICTS.	Average for July. For many years.	Average for July. For 1877.	Comparison of July, 1877, with the average for many years.
	Inches.	Inches.	
St. Lawrence valley	3.25	2.42	0.83 deficiency.
New England	3.90	3.62	Small deficiency.
Middle Atlantic States	3.90	4.18	Excess.
South Atlantic States	5.25	6.53	Excess.
Eastern Gulf States	6.00	5.24	Small deficiency.
Western Gulf States	4.15	3.39	0.76 deficiency.
Lower Lake region	3.50	3.17	Small deficiency.
Upper Lake region	2.90	2.74	Small deficiency.
Ohio Valley	6.41	4.67	Large deficiency.
Tennessee	3.85	3.86	Normal.
Upper Mississippi Valley	4.45	3.77	Small deficiency.
Lower Missouri Valley	3.80	3.06	Small deficiency.
Upper Missouri Valley	2.55	1.84	0.71 deficiency.
Minnesota	3.00	3.02	Normal.
California Coast	0.02	0.01	Normal.
Portland, Or	0.48	0.54	Small excess.

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Albert J. Myer

BRIG. GEN., (BVT. ASSG'D,) CHIEF SIGNAL OFFICER, U. S. A.

HEIGHTS OF RIVERS ABOVE LOW-WATER MARK, JULY, 1877.

STATIONS.	Danger point on gauge.	HIGHEST WATER. Date.	HIGHEST WATER. Height.	LOWEST WATER. Date.	LOWEST WATER. Height.
	ft. in.	July.	ft. in.	July.	ft. in.
RED RIVER.					
Shreveport	29 9	1	19 11	31	11 7
MISSOURI.					
Fort Sully	— —	—	— —	—	— —
Yankton	20 0	1	11 10	31	8 0
Omaha	16 0	1	15 2	31	10 8
Leavenworth	21 0	3	18 7	31	12 0
MISSISSIPPI.					
St. Paul	14 6	8, 9	7 1	31	3 5
La Cresse	18 0	12, 13	4 11	31	0 1
Dubuque	21 10	18, 19	8 3	31	5 1
Davenport	15 0	20-21	6 0	31	3 10
Keokuk	14 6	1, 4	10 11	31	5 2
St. Louis	30 0	4	26 6	31	16 1
Cairo	40 0	2, 3	29 4	31	18 1
Memphis	34 0	4	24 0	31	14 11
Vicksburg	41 0	1	39 7	31	25 6
New Orleans *	2 6	1, 10	4 4	31	7 6
CUMBERLAND.					
Nashville	42 0	20	6 0	16, 17	2 4
OHIO.					
Pittsburgh	20 0	5	7 7	18	1 6
Cincinnati	50 0	10	17 11	31	7 6
Louisville	24 0	11	8 1	24	5 0
SAVANNAH.					
Augusta	— —	21	12 0	11	4 10
MONONGAHELA.					
Morgantown	23 0	4	4 10	17	1 1
Pittsburgh	20 0	5	7 7	18	1 6

* Below high water mark.