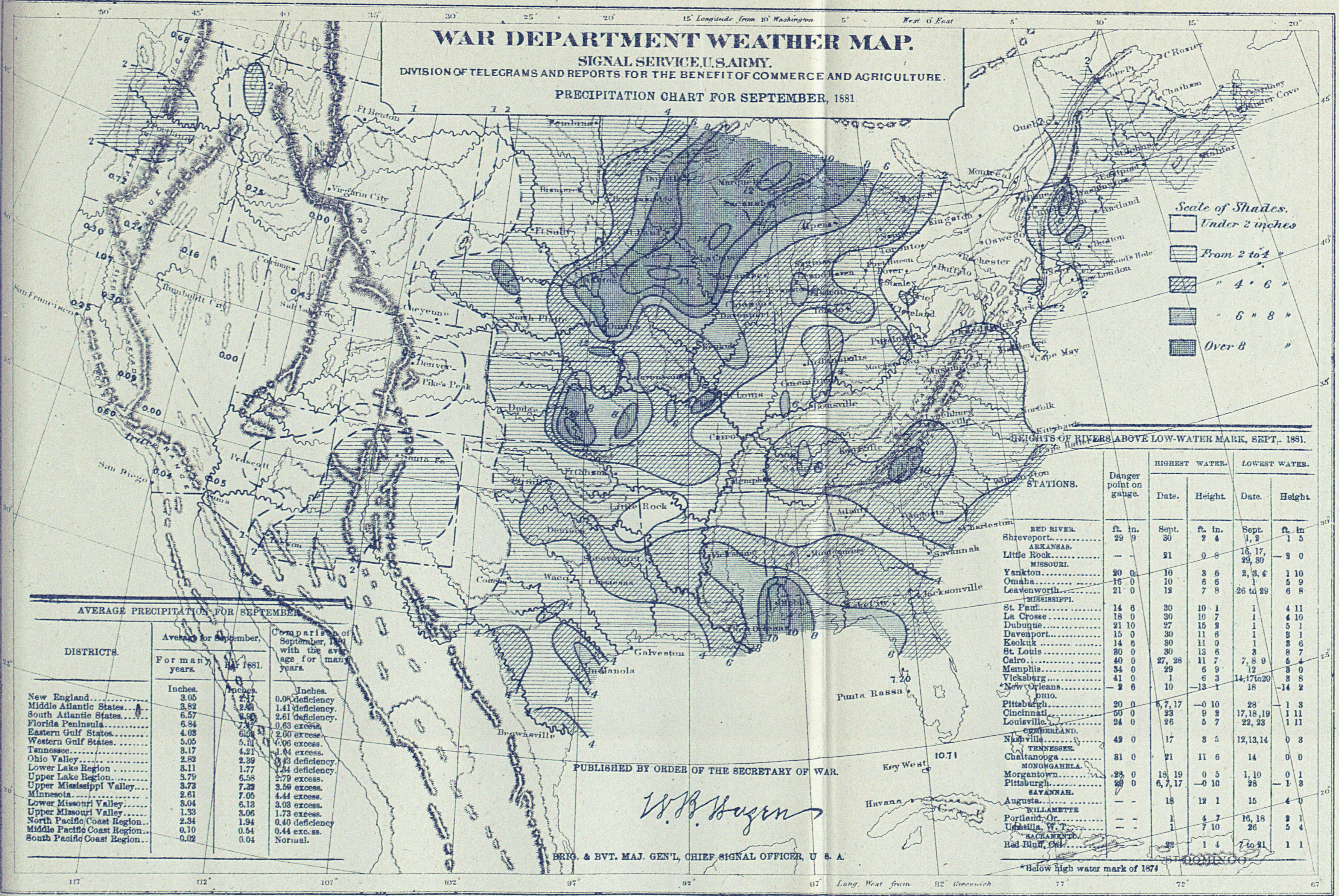
WAR DEPARTMENT WEATHER MAP.

SIGNAL SERVICE, U.S. ARMY.

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

PRECIPITATION CHART FOR SEPTEMBER, 1881



AVERAGE PRECIPITATION FOR SEPTEMBER.

DISTRICTS.	Average for September, For many years.	Average for September, For 1881.	Comparison of September, 1881, with the average for many years.
	Inches.	Inches.	Inches.
New England	3.05	2.97	0.08 deficiency
Middle Atlantic States	3.82	2.41	1.41 deficiency.
South Atlantic States	6.57	3.96	2.61 deficiency.
Florida Peninsula	6.84	7.47	0.63 excess.
Eastern Gulf States	4.03	6.03	2.00 excess.
Western Gulf States	5.05	5.11	0.06 excess.
Tennessee	3.17	4.21	1.04 excess.
Ohio Valley	2.82	2.39	0.43 deficiency.
Lower Lake Region	3.11	1.77	1.34 deficiency.
Upper Lake Region	3.79	6.58	2.79 excess.
Upper Mississippi Valley	3.73	7.32	3.59 excess.
Minnesota	2.61	7.05	4.44 excess.
Lower Missouri Valley	3.04	6.13	3.03 excess.
Upper Missouri Valley	1.33	3.06	1.73 excess.
North Pacific Coast Region	2.34	1.94	0.40 deficiency
Middle Pacific Coast Region	0.10	0.54	0.44 excess.
South Pacific Coast Region	0.02	0.04	Normal.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

W. B. Hazen

BRIG. & BVT. MAJ. GEN'L, CHIEF SIGNAL OFFICER, U. S. A.

HEIGHTS OF RIVERS ABOVE LOW-WATER MARK, SEPT., 1881.

STATIONS.	Danger point on gauge.	Highest Water. Date.	Highest Water. Height.	Lowest Water. Date.	Lowest Water. Height.
	ft. in.	Sept.	ft. in.	Sept.	ft. in.
RED RIVER.					
Shreveport	29 9	30	2 4	1, 2	1 5
ARKANSAS.					
Little Rock	— -	21	0 8	16, 17, 29, 30	— 2 0
MISSOURI.					
Yankton	20 0	10	3 6	2, 3, 4	1 10
Omaha	16 0	10	6 6	1	5 9
Leavenworth	21 0	12	7 8	26 to 29	6 8
MISSISSIPPI.					
St. Paul	14 6	30	10 1	1	4 11
La Crosse	18 0	30	10 7	1	4 10
Dubuque	21 10	27	15 2	1	5 1
Davenport	15 0	30	11 6	1	3 1
Keokuk	14 6	30	11 0	1	3 6
St. Louis	30 0	30	13 6	3	8 7
Cairo	40 0	27, 28	11 7	7, 8, 9	5 4
Memphis	34 0	29	6 9	12	3 0
Vicksburg	41 0	1	6 3	14, 17 to 20	3 8
*New Orleans	— 2 6	10	—13 1	18	—14 2
OHIO.					
Pittsburgh	20 0	6, 7, 17	—0 10	28	— 1 3
Cincinnati	50 0	23	9 2	17, 18, 19	1 11
Louisville	24 0	26	5 7	22, 23	1 11
CUMBERLAND.					
Nashville	42 0	17	3 5	12, 13, 14	0 3
TENNESSEE.					
Chattanooga	31 0	21	11 6	14	0 0
MONONGAHELA.					
Morgantown	23 0	18, 19	0 5	1, 10	0 1
Pittsburgh	20 0	6, 7, 17	—0 10	28	— 1 3
SAVANNAH.					
Augusta	— -	18	12 1	15	4 0
WILLAMETTE					
Portland, Or.	— -	1	4 7	16, 18	2 1
Umatilla, W. T.	— -	1	7 10	26	5 4
SACRAMENTO.					
Red Bluff, Cal.	— -	23	1 4	7 to 21	1 1

*Below high water mark of 1874