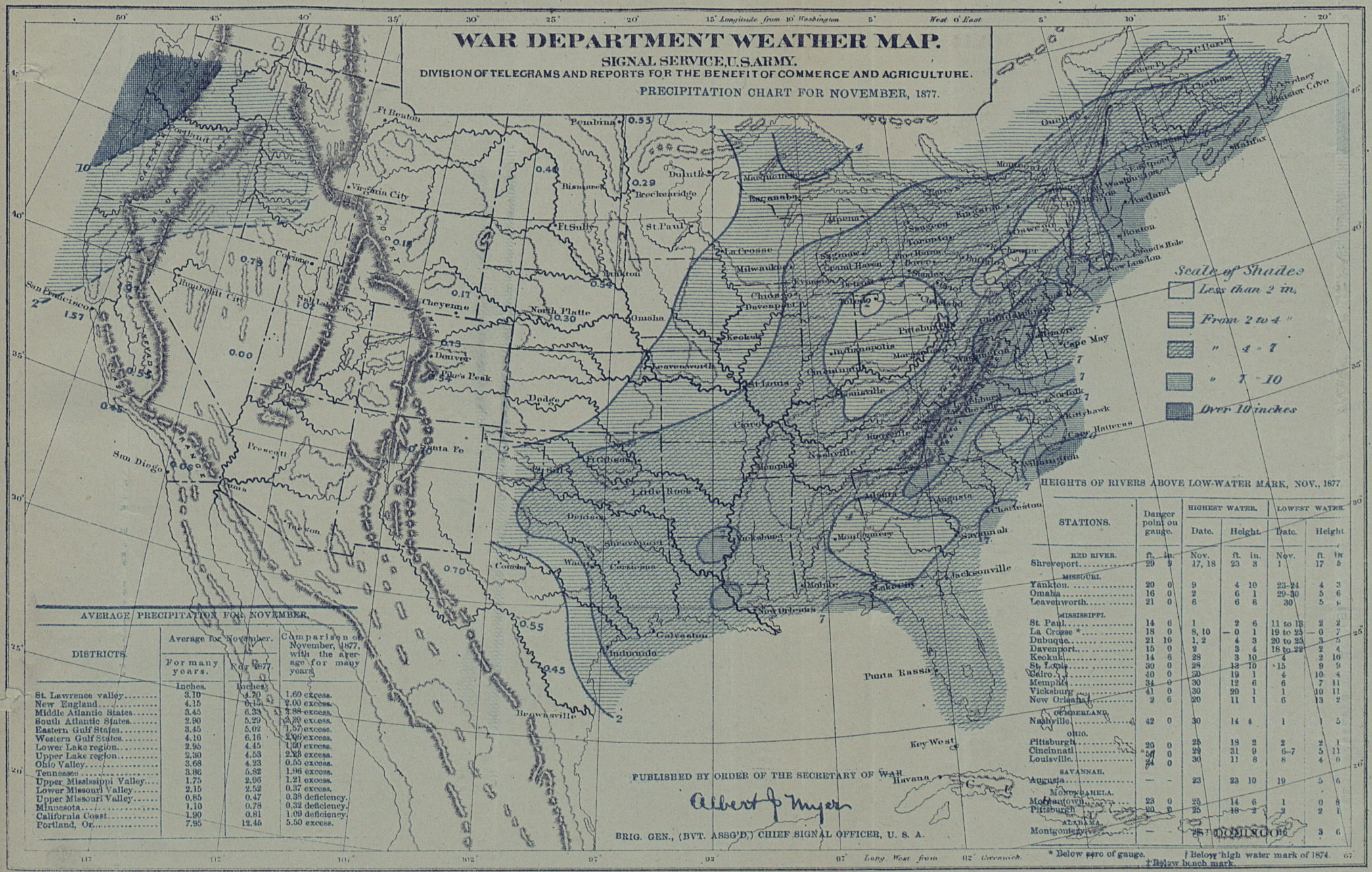
No. III.

WAR DEPARTMENT WEATHER MAP.

SIGNAL SERVICE, U.S. ARMY.

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

PRECIPITATION CHART FOR NOVEMBER, 1877.



AVERAGE PRECIPITATION FOR NOVEMBER.

DISTRICTS.	Average for November. For many years.	Average for November. For 1877.	Comparison of November, 1877, with the average for many years.
	Inches.	Inches.	
St. Lawrence valley	3.10	4.70	1.60 excess.
New England	4.15	6.15	2.00 excess.
Middle Atlantic States	3.45	6.33	2.88 excess.
South Atlantic States	2.90	5.29	2.39 excess.
Eastern Gulf States	3.45	5.02	1.57 excess.
Western Gulf States	4.10	6.16	2.06 excess.
Lower Lake region	2.95	4.45	1.50 excess.
Upper Lake region	2.30	4.53	2.23 excess.
Ohio Valley	3.68	4.23	0.55 excess.
Tennessee	3.86	5.82	1.96 excess.
Upper Mississippi Valley	1.75	2.96	1.21 excess.
Lower Missouri Valley	2.15	2.52	0.37 excess.
Upper Missouri Valley	0.85	0.47	0.38 deficiency.
Minnesota	1.10	0.78	0.32 deficiency.
California Coast	1.90	0.81	1.09 deficiency.
Portland, Or	7.95	12.45	5.50 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, NOV., 1877.

STATIONS.	Danger point on gauge.	HIGHEST WATER. Date.	HIGHEST WATER. Height.	LOWEST WATER. Date.	LOWEST WATER. Height.
RED RIVER.	ft. in.	Nov.	ft. in.	Nov.	ft. in.
Shreveport	29 9	17, 18	23 3	1	17 5
MISSOURI.					
Yankton	20 0	9	4 10	23-24	4 3
Omaha	16 0	2	6 1	29-30	5 6
Leavenworth	21 0	6	6 8	30	5 8
MISSISSIPPI.					
St. Paul	14 6	1	2 6	11 to 13	2 2
La Crosse *	18 0	8, 10	— 0 1	19 to 25	— 0 7
Dubuque	21 10	1, 2	4 3	20 to 25	3 5
Davenport	15 0	2	3 4	18 to 22	2 4
Keokuk	14 6	28	3 10	4	2 10
St. Louis	30 0	28	13 10	15	9 9
Cairo	40 0	30	19 1	4	10 4
Memphis	34 0	30	12 6	6	7 11
Vicksburg	41 0	30	20 1	1	10 11
New Orleans	2 6	30	11 1	6	13 2
CUMBERLAND.					
Nashville	42 0	30	14 4	1	1 5
OHIO.					
Pittsburgh	20 0	25	18 2	2	2 1
Cincinnati	50 0	29	31 9	6–7	5 11
Louisville	24 0	30	11 8	8	4 6
SAVANNAH.					
Augusta	— —	23	23 10	19	5 6
MONONGAHELA.					
Morgantown	23 0	25	14 6	1	0 8
Pittsburgh	20 0	25	18 2	3	2 1
ALABAMA.					
Montgomery	— —	28†	DIMNOOR		3 6

* Below zero of gauge. † Below high water mark of 1874. ‡ Below bench mark.