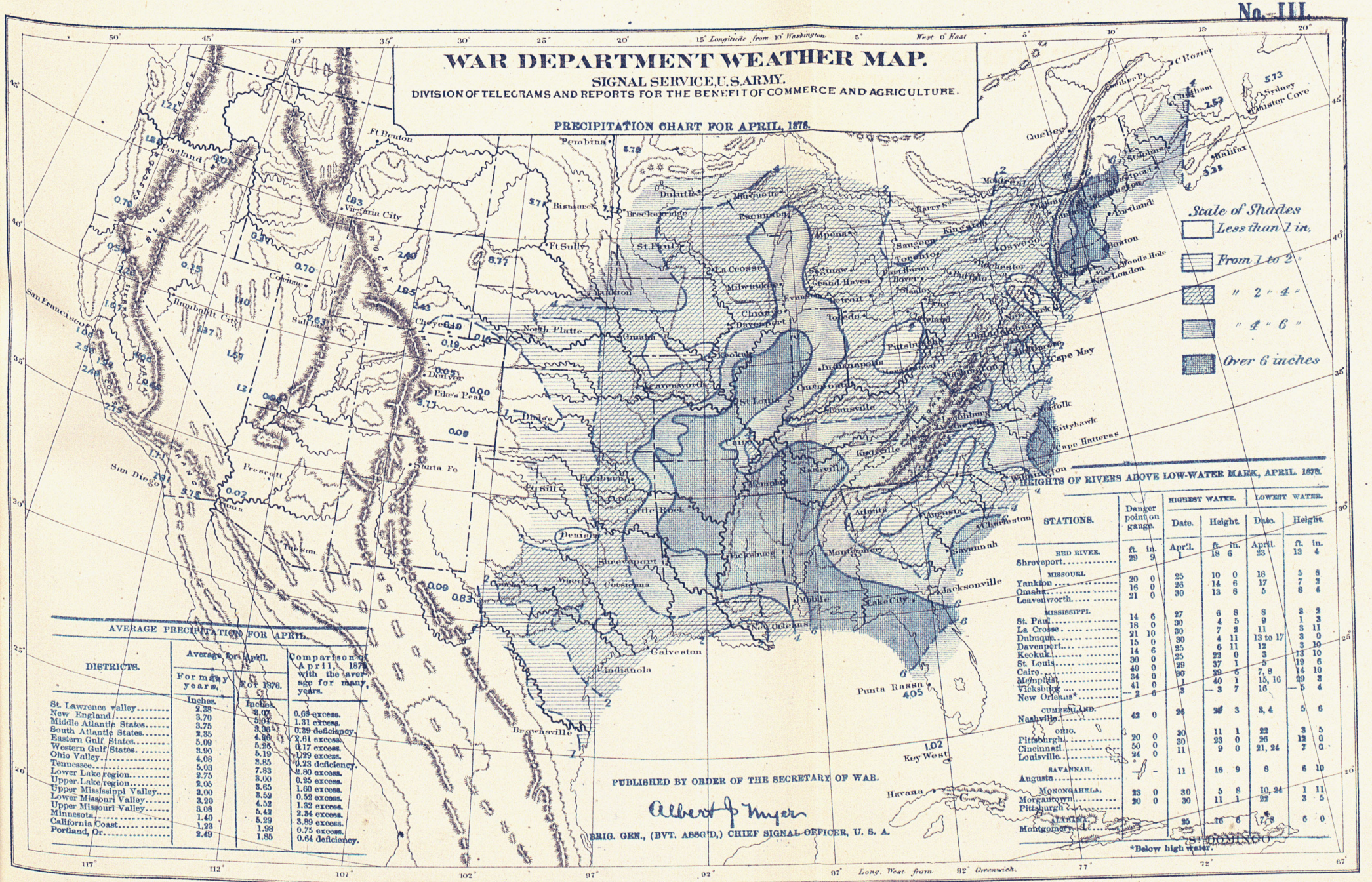
No. III.

# WAR DEPARTMENT WEATHER MAP.

SIGNAL SERVICE, U.S. ARMY.

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

## PRECIPITATION CHART FOR APRIL, 1878.




## AVERAGE PRECIPITATION FOR APRIL.

| DISTRICTS. | Average for April. For many years. | Average for April. For 1878. | Comparison of April, 1878, with the average for many years. |
|---|---|---|---|
| | Inches. | Inches. | |
| St. Lawrence valley | 2.38 | 3.07 | 0.69 excess. |
| New England | 3.70 | 5.01 | 1.31 excess. |
| Middle Atlantic States | 3.75 | 3.36 | 0.39 deficiency. |
| South Atlantic States | 2.35 | 4.96 | 2.61 excess. |
| Eastern Gulf States | 5.09 | 5.26 | 0.17 excess. |
| Western Gulf States | 3.90 | 5.19 | 1.29 excess. |
| Ohio Valley | 4.08 | 3.85 | 0.23 deficiency. |
| Tennessee | 5.03 | 7.83 | 2.80 excess. |
| Lower Lake region | 2.75 | 3.00 | 0.25 excess. |
| Upper Lake region | 2.05 | 3.65 | 1.60 excess. |
| Upper Mississippi Valley | 3.00 | 3.52 | 0.52 excess. |
| Lower Missouri Valley | 3.20 | 4.52 | 1.32 excess. |
| Upper Missouri Valley | 3.08 | 5.42 | 2.34 excess. |
| Minnesota | 1.40 | 5.29 | 3.89 excess. |
| California Coast | 1.23 | 1.98 | 0.75 excess. |
| Portland, Or | 2.49 | 1.85 | 0.64 deficiency. |

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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, APRIL, 1878.

| STATIONS. | Danger point on gauge. | | Highest water. Date. | Highest water. Height. | | Lowest water. Date. | Lowest water. Height. | |
|---|---|---|---|---|---|---|---|---|
| | ft. | in. | April. | ft. | in. | April. | ft. | in. |
| RED RIVER. | | | | | | | | |
| Shreveport | 29 | 9 | 1 | 18 | 6 | 23 | 13 | 4 |
| MISSOURI. | | | | | | | | |
| Yankton | 20 | 0 | 25 | 10 | 0 | 18 | 5 | 8 |
| Omaha | 16 | 0 | 26 | 14 | 6 | 17 | 7 | 2 |
| Leavenworth | 21 | 0 | 30 | 13 | 8 | 5 | 8 | 4 |
| MISSISSIPPI. | | | | | | | | |
| St. Paul | 14 | 6 | 27 | 6 | 8 | 8 | 3 | 2 |
| La Crosse | 18 | 0 | 30 | 4 | 5 | 9 | 1 | 3 |
| Dubuque | 21 | 10 | 30 | 7 | 2 | 11 | 3 | 11 |
| Davenport | 15 | 0 | 30 | 4 | 11 | 13 to 17 | 3 | 0 |
| Keokuk | 14 | 6 | 25 | 6 | 11 | 12 | 3 | 10 |
| St. Louis | 30 | 0 | 25 | 22 | 0 | 3 | 13 | 10 |
| Cairo | 40 | 0 | 29 | 37 | 1 | 5 | 19 | 6 |
| Memphis | 34 | 0 | 30 | 29 | 5 | 7, 8 | 14 | 10 |
| Vicksburg | 41 | 0 | 1 | 40 | 1 | 15, 16 | 29 | 3 |
| New Orleans* | — | 2 | 3 | — | 3 | 7 | 16 | — 5 4 |
| CUMBERLAND. | | | | | | | | |
| Nashville | 42 | 0 | 26 | 36 | 3 | 3, 4 | 5 | 6 |
| OHIO. | | | | | | | | |
| Pittsburgh | 20 | 0 | 30 | 11 | 1 | 22 | 3 | 5 |
| Cincinnati | 50 | 0 | 30 | 23 | 0 | 26 | 12 | 0 |
| Louisville | 24 | 0 | 11 | 9 | 0 | 21, 24 | 7 | 0 |
| SAVANNAH. | | | | | | | | |
| Augusta | — | — | 11 | 16 | 9 | 8 | 6 | 10 |
| MONONGAHELA. | | | | | | | | |
| Morgantown | 23 | 0 | 30 | 5 | 8 | 10, 24 | 1 | 11 |
| Pittsburgh | 30 | 0 | 30 | 11 | 1 | 22 | 3 | 5 |
| ALABAMA. | | | | | | | | |
| Montgomery | | | 25 | 16 | 6 | 7, 8 | 6 | 0 |

*Below high water.