

MONTHLY WEATHER REVIEW,

OCTOBER, 1874.

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE

INTRODUCTORY.

The Monthly Weather Review for October expresses the mean meteorological conditions as determined by observations made at 448 stations. These stations are thus classified:

United States Army Signal Service.....	91
Canadian Meteorological Service.....	9
United States Army Surgeons.....	60
United States Naval Hospitals.....	1
Volunteer Observers.....	287

Their collective observations have been supplemented by extracts from the press reports, and other memoranda.

Only one very dangerous storm has been recorded. The general aspects of the October weather have been dryness and calmness, the usual haziness and moderate barometric contrasts; while frosts, abundant at the close of the month, and the first snows of winter fell over the Northwest and the Lake region. The forest fires in the central States were encouraged by the prolonged rainless season. The thermometric range was considerable and several times sudden. The nocturnal radiation of the earth (large because of the dryness of the air) was manifested by high nocturnal humidity.

ATMOSPHERIC PRESSURE.

(1.) The general distribution of pressure is exhibited by the isobarometric lines (in black) on Map No. II. The high pressure areas moving over the country appear less clearly defined than usual for October.

(2.) *Areas of low barometer.*—There have been nine distinguishable depressions moving across the country, or near its frontiers, whose disturbing effects have been felt. The tracks of each of these, chronologically numbered, appear in black lines on Map No. I and the details of each storm are herewith appended. The most severe of these storms have