

MONTHLY WEATHER REVIEW,

SEPTEMBER, 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 September is based upon reports from 442 stations, classified principally as follows:

Canadian Meteorological Service.....	14
United States Army Signal Service.....	92
United States Army Surgeons.....	45
United States Naval Hospitals.....	5
Volunteer Observers.....	286

together with numerous extracts from logs of vessels. Destructive storms have not been numerous, the single prominent exception was No. XIII, which was only destructive in its passage from Florida to North Carolina.

The weather, in general, for the month, has been marked only by the not unusual features of droughts in some portions of the country, while other portions have experienced unusually heavy rains. These latter regions are well shown by the heavily-shaded spots on Map No. III, in Texas, the Missouri and Mississippi valleys and the Middle Atlantic States. Portions of Ohio, Indiana and Illinois, still continue to report a deficiency of rain-fall, thus prolonging the dry season in that region, to the great detriment of agriculture.

BAROMETRIC PRESSURE.

(1.) *In general.*—The general distribution of barometric pressure is seen from the isobars on Map No. II, where it appears that the highest average, 30.10, pertains to the Middle Atlantic, between Capes Hatteras and Cod, whence the pressure steadily diminished to 29.90 in Dakota. The mean 29.90 for the southern end of California seems low for that region.

(2.) *Areas of low barometer.*—The tracks pursued by the areas of low pressure are given on Map No. I, further details are found in the following paragraphs. It will be seen that these have, as in previous years, been frequently pushed far to the west and north, but that the better developed severe cyclones Nos. I, III, IV, V and XIII have pursued tracks differing but little from their normal courses.

Storm No. I. This small but well-marked cyclonic depression became first apparent on the 1st, near Nova Scotia, but kept to the eastward of that province and passed