

20th.—Extreme northwestern Florida, southern Georgia, and the South Carolina coast.

23d.—Northeastern Michigan.

Heavy-snow warnings were issued at 9:30 p. m. on the 19th for New York, Pennsylvania, eastern and southern Ohio, northern West Virginia, and western Maryland, and for New England the following morning. Heavy snow occurred over nearly the entire area for which it was forecast, and there was a foot or more of snow over a considerable area.

Frost warnings were issued for the south Atlantic coast, northern and central Florida, and the southern portions of Alabama and Mississippi on the 20th and 25th, and for Alabama, southern Mississippi, and extreme northwestern Florida on the 23d. However, no damaging frosts occurred during the month in these sections.—*Charles L. Mitchell.*

#### WARNINGS IN OTHER DISTRICTS.

*Chicago forecast district.*—The month, as a whole, throughout the forecast district, was remarkably warm and dry.

No general cold wave swept the district during the entire month and special warnings issued were confined to a few local cold-wave warnings and advices to live-stock interests.

Because of the open winter, stock on the ranges is generally in fine condition. Transportation at any time has not met with any material interruption, and the handling of perishable goods, so far as precipitation and cold are concerned, has been easy. However, greater care has been taken than is usual during the winter season in the shipment of perishables affected by heat. During most of the season shipments of fish throughout this area have had to be made in iced refrigerator cars, whereas as a rule during the cold winter when the temperature averages considerably below freezing, the shipment is made in ordinary box cars.

The ice industry has also been seriously affected by the mild weather and the managers have been hard put in their endeavors to lay in a supply. The reserves of ice left over from the previous season, as well as the artificial ice, will have to be largely depended upon during the coming season.

With the assistance of the Alaskan reports, the forecaster has been able to furnish daily to shippers information covering several days in advance as regards probable temperature conditions. These advices have been considered invaluable by the interested parties.—*H. J. Cox.*

*New Orleans forecast district.*—Warnings were issued for this forecast district as follows:

Northwest storm warnings were ordered for the Texas coast 9:00 a. m. February 19 and verifying velocities occurred at most stations. Small-craft warnings were displayed on the Texas coast on February 6, 7, and 15 and on the Louisiana coast on the 19th.

Cold weather for the season prevailed over the district from the 18th to 20th. Cold-wave warnings were ordered on the 18th for east Texas except the northwest portion

and were repeated on the morning of the 19th to the Texas coast stations and southern Louisiana. The warnings were generally justified.

Warnings for injurious temperatures were issued for the sugar and trucking regions on the 19th, 20th, 21st, and 23d.

Live-stock warnings were issued for Oklahoma, Arkansas, and east Texas on the 19th.

Fire-weather warnings were issued for Oklahoma and Arkansas on the 15th.—*I. M. Cline.*

*Denver forecast district.*—The temperature during the month was, for the most part, considerably above the normal, and the precipitation was light and infrequent. Except at Durango, where the verifying limit was just reached on the morning of the 16th, no cold waves occurred, and no warnings of any kind were issued, aside from the advices in the regular forecasts.

A storm of considerable intensity which appeared on the coast of Oregon on the 4th and moved southeastward was attended by light but general precipitation between that date and the 7th, when the disturbance reached the Gulf coast. Another low that was first noted over western Oregon on the 12th moved across Wyoming on the 15th, attended on the latter date by light snow in Utah, western Colorado, and northern Arizona. The passage of the storm was followed by a sharp fall in temperature. A third disturbance advanced from the north Pacific coast across Wyoming and Colorado between the 19th and 21st and was accompanied by light snow or rain in Arizona, Utah, and Colorado.—*J. M. Sherier.*

*San Francisco forecast district.*—February was a rather stormy month in the northern and central portions of this district, especially north of Cape Mendocino; and particularly so during the first half of the month. As in January, the pressure continued high over Alaska during the first and second decades, which forced the storm movement well to the south, causing rain and snow frequently from central California northward.

During the month storm warnings were ordered 15 times, and advisory warnings were issued 5 times. Most of the warnings were verified, at least partially so, and vessel reports showed that stormy weather prevailed at sea when coast stations did not report verifying velocities.

On the 20th a heavy local rain caused flood conditions in the Eel River valley and Humboldt Bay sections, doing considerable damage to roads and telegraph and telephone lines.

During the gale on the night of the 4-5th, the steam-schooner *Klamath* was wrecked on Fish Rock, which is a few miles south of Point Arena, and was a complete loss. The passengers and crew, 55 in all, were saved.

A warm wave spread over southern California and southern Nevada on the 24th and 25th, and previous high temperature records for February were broken at many stations.

Warnings of heavy or killing frosts were issued seven times in California during the month, and were verified, but at no time did the temperature fall low enough to do serious damage to crops.—*G. H. Willson.*