

TABLE III.—Flood stages in the Great Lakes drainage during December, 1918.

| River and station.     | Flood stage. | Above flood stages—dates. |     | Crest.       |       |
|------------------------|--------------|---------------------------|-----|--------------|-------|
|                        |              | From—                     | To— | Stage.       | Date. |
| <i>Maumee:</i>         | <i>Feet.</i> |                           |     | <i>Feet.</i> |       |
| Fort Wayne, Ind.....   | 15           | 15                        | 16  | 16.1         | 15    |
| Do.....                |              | 22                        | 26  | 17.6         | 23    |
| <i>St. Joseph:</i>     |              |                           |     |              |       |
| Montpellier, Ohio..... | 10           | 15                        | 15  | 10.6         | 15    |
| Do.....                |              | 22                        | 25  | 11.8         | 23    |

TABLE IV.—Flood stages in the Mississippi River drainage during December, 1918.

| River and station.       | Flood stage. | Above flood stages—dates. |      | Crest.       |           |
|--------------------------|--------------|---------------------------|------|--------------|-----------|
|                          |              | From—                     | To—  | Stage.       | Date.     |
| <i>Scioto:</i>           | <i>Feet.</i> |                           |      | <i>Feet.</i> |           |
| Circleville.....         | 7            |                           |      | 6.4          | 16        |
| <i>Wabash:</i>           |              |                           |      |              |           |
| Lafayette, Ind.....      | 11           | 15                        | 18   | 17.4         | 16        |
| Do.....                  |              | 22                        | 28   | 19.7         | 24-25     |
| Terre Haute, Ind.....    | 16           | 21                        | (**) | 19.0         | 27        |
| Vincennes, Ind.....      | 14           | 21                        | (**) | 17.4         | 30        |
| Mount Carmel, Ill.....   | 15           | 15                        | (**) | 21.5         | 30        |
| <i>White:</i>            |              |                           |      |              |           |
| Decker, Ind.....         | 18           | 18                        | (**) | 19.9         | 22        |
| <i>White, West Fork:</i> |              |                           |      |              |           |
| Noblesville, Ind.....    | 14           |                           |      | 12.1         | 15        |
| Elliston, Ind.....       | 19           | 14                        | 19   | 23.0         | 17        |
| Do.....                  |              | 22                        | 28   | 25.2         | 26        |
| <i>French Broad:</i>     |              |                           |      |              |           |
| Penrose, N. C.....       | 13           | 22                        | 25   | 20.2         | 22        |
| Asheville, N. C.....     | 4            | 15                        | 15   | 4.0          | 15        |
| Do.....                  |              | 17                        | 17   | 4.5          | 17        |
| Do.....                  |              | 22                        | 26   | 9.0          | 23        |
| Marshall, N. C.....      | 10           |                           |      | 9.5          | 23        |
| Danhridge, Tenn.....     | 12           |                           |      | 11.6         | 23        |
| <i>Big Pigeon:</i>       |              |                           |      |              |           |
| Newport, Tenn.....       | 6            | 22                        | 22   | 10.0         | 22        |
| <i>Tennessee:</i>        |              |                           |      |              |           |
| Knoxville, Tenn.....     | 12           | 28                        | 25   | 13.0         | 24        |
| Riverton, Ala.....       | 32           |                           |      | 29.5         | 28        |
| <i>Little Tennessee:</i> |              |                           |      |              |           |
| McGhee, Tenn.....        | 20           |                           |      | 13.8         | 23        |
| <i>Hiwassee:</i>         |              |                           |      |              |           |
| Charleston, Tenn.....    | 22           | 23                        | 23   | 22.5         | 23        |
| <i>Illinois:</i>         |              |                           |      |              |           |
| Morris, Ill.....         | 13           |                           |      | 11.9         | 24        |
| Peru, Ill.....           | 14           | 22                        | (**) | 15.1         | 25, 27-28 |
| Henry, Ill.....          | 7            | 20                        | (**) | 9.0          | 29-30     |
| Peoria, Ill.....         | 16           |                           |      | 15.9         | 31        |
| Havana, Ill.....         | 14           |                           |      | 12.9         | 31        |
| Beardstown, Ill.....     | 12           | 30                        | (**) | 12.3         | 31        |
| <i>Meramec:</i>          |              |                           |      |              |           |
| Pacific, Mo.....         | 11           |                           |      | 10.3         | 16        |
| <i>Ouachita:</i>         |              |                           |      |              |           |
| Arkadelphia, Ark.....    | 18           | 14                        | 15   | 18.6         | 14        |
| Camden, Ark.....         | 30           | 19                        | 19   | 30.2         | 19        |
| <i>Petit Jean:</i>       |              |                           |      |              |           |
| Danville, Ark.....       | 20           | 14                        | 18   | 24.3         | 15-16     |
| <i>White:</i>            |              |                           |      |              |           |
| Batesville, Ark.....     | 23           |                           |      | 21.5         | 15        |
| Georgetown, Ark.....     | 22           |                           |      | 21.4         | 24-25     |
| <i>Black:</i>            |              |                           |      |              |           |
| Black Rock, Ark.....     | 14           | 14                        | (**) | 19.4         | 14        |
| <i>CACHE:</i>            |              |                           |      |              |           |
| Jelks, Ark.....          | 9            | 20                        | (**) | 9.6          | 31        |
| <i>Little:</i>           |              |                           |      |              |           |
| White Cliffs, Ark.....   | 28           | 16                        | 17   | 28.7         | 16        |
| <i>Sulphur:</i>          |              |                           |      |              |           |
| Finley, Tex.....         | 24           | 17                        | 20   | 27.8         | 13        |
| Ringo Crossing, Tex..... | 20           | 14                        | 15   | 25.0         | 14        |

\* Continued from November.

\*\*Continued into January.

TABLE V.—Flood stages in the West Gulf drainage during December, 1918.

| River and station.  | Flood stage. | Above flood stages—dates. |      | Crest.       |       |
|---------------------|--------------|---------------------------|------|--------------|-------|
|                     |              | From—                     | To—  | Stage.       | Date. |
| <i>Trinity:</i>     | <i>Feet.</i> |                           |      | <i>Feet.</i> |       |
| Dallas, Tex.....    | 25           | 21                        | 28   | 32.2         | 25    |
| Trinidad, Tex.....  | 28           | 15                        | 20   | 32.9         | 17    |
| Do.....             |              | 26                        | (**) | 33.6         | 31    |
| Long Lake, Tex..... | 40           | 21                        | 21   | 40.6         | 21    |
| Liberty, Tex.....   | 25           | (*)                       | 8    | 25.7         | 4-6   |
| Do.....             |              | 31                        | (**) | 25.0         | 31    |
| Bridgeport.....     | 25           |                           |      | 20.0         | 23    |
| <i>Colorado:</i>    |              |                           |      |              |       |
| Columbus, Tex.....  | 28           |                           |      | 26.4         | 26    |

\*Continued from November.

\*\*Continued into January.

**SNOWFALL IN THE HIGH MOUNTAINS, DECEMBER, 1918.**

The meteorological conditions during the month were not conducive to heavy snowfall in the mountains. The snowstorms were more or less local in that they prevailed over different parts of the mountain region on different dates; there was no single period of snowfall that affected all parts of the region alike. High pressure prevailed almost continuously throughout the month.

In the southern part of the Rocky Mountain and Plateau region there was considerable snow on the high altitudes at the close of November and this snow seems to have been fairly well conserved during December. Temperature was quite uniformly below the normal in this region, possibly as a result of the snow cover on the higher altitudes.

**MEAN LAKE LEVELS DURING DECEMBER, 1918.**

By UNITED STATES LAKE SURVEY.

[Dated: Detroit, Mich., Jan. 6, 1919.]

The following data are reported in the "Notice to Mariners" of the above date:

| Data.  | Lakes.*      |                     |              |              |
|--|--------------|---------------------|--------------|--------------|
|  | Superior.    | Michigan and Huron. | Erie.        | Ontario.     |
| Mean level during December, 1918:              |              |                     |              |              |
| Above mean sea level at New York.....          | Feet. 602.42 | Feet. 581.05        | Feet. 572.21 | Feet. 245.89 |
| Above or below—                                |              |                     |              |              |
| Mean stage of November, 1918.....              | -0.12        | -0.07               | -0.03        | -0.11        |
| Mean stage of December, 1917.....              | +0.28        | +0.25               | -0.35        | -0.56        |
| Average stage for December, last 10 years..... | +0.17        | +0.03               | +0.60        | +0.52        |
| Highest recorded December stage.....           | -0.71        | -1.53               | -1.32        | -1.72        |
| Lowest recorded December stage.....            | +1.22        | +2.05               | +1.35        | +2.46        |
| Average relation of the December level to—     |              |                     |              |              |
| November level.....                            |              | -0.2                | -0.2         | -0.2         |
| January level.....                             |              | +0.2                | +0.1         | +0.1         |

\* Lake St. Clair's level: In December, 575.42 feet.