

**SOUTH  
TECHNICAL  
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# **TECHNICAL NOTE**

**Subject: ECONOMICS**  
**Series No.: 604**  
**Reference: Flood Distribution by Months**  
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UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
South Regional Technical Service Center  
Engineering and Watershed Planning Unit  
Fort Worth, Texas

January 10, 1969

EWP TECHNICAL GUIDE NO. 26

Re: WATERSHED PLANNING-Hydrology and Economics - Flood Distribution by  
Months

The purpose of this Technical Guide is to provide data on the monthly and seasonal distribution of floods to be used in economic evaluations of watersheds.

The attached map shows those areas in which monthly flood distributions are similar. The attached Table 1 shows the flood distribution percentage by months for each of the flood distribution areas indicated on the map. The percentages are based upon a regional analysis of U.S. Geological Survey stream gage data and include only those flood events which occurred fifteen or more days apart.

This Technical Guide replaces the tentative draft of this material which was distributed May 18, 1967.

Attachments - 2

  
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TABLE 1

FLOOD DISTRIBUTION PERCENTAGE BY MONTHS <sup>1/</sup>  
 (Two-Day Runoff Volume With Minimum 15-Day Interval Between Floods)

| AREA NO. | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|----------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|
| 1        | 12   | 13   | 15    | 14    | 6   | 5    | 4    | 5    | 5     | 6    | 7    | 8    |
| 2        | 15   | 18   | 19    | 12    | 6   | 4    | 3    | 3    | 3     | 4    | 5    | 8    |
| 3        | 19   | 21   | 21    | 8     | 6   | 2    | 2    | 2    | 2     | 2    | 4    | 11   |
| 4        | 13   | 14   | 16    | 16    | 14  | 5    | 2    | 2    | 2     | 3    | 6    | 7    |
| 5-A      | 8    | 12   | 15    | 15    | 12  | 7    | 6    | 5    | 5     | 4    | 5    | 6    |
| 5-B      | 4    | 4    | 9     | 12    | 14  | 14   | 12   | 8    | 6     | 6    | 6    | 5    |
| 6        | 2    | 2    | 3     | 7     | 11  | 15   | 22   | 16   | 12    | 6    | 2    | 2    |
| 7        | 12   | 18   | 20    | 17    | 5   | 4    | 3    | 2    | 2     | 3    | 5    | 9    |
| 8        | 16   | 20   | 20    | 12    | 6   | 3    | 2    | 2    | 2     | 3    | 4    | 10   |
| 9        | 17   | 20   | 20    | 13    | 5   | 4    | 3    | 2    | 2     | 2    | 4    | 8    |
| 10-A     | 11   | 11   | 14    | 15    | 17  | 7    | 2    | 2    | 2     | 4    | 6    | 9    |
| 10-B     | 8    | 8    | 10    | 13    | 16  | 13   | 4    | 3    | 4     | 6    | 7    | 8    |
| 11       | 3    | 3    | 5     | 9     | 12  | 15   | 18   | 13   | 10    | 6    | 3    | 3    |
| 12-A     | 10   | 15   | 17    | 12    | 8   | 6    | 5    | 4    | 5     | 5    | 5    | 8    |
| 12-B     | 7    | 10   | 13    | 8     | 7   | 5    | 8    | 10   | 12    | 9    | 5    | 6    |
| 13       | 9    | 13   | 22    | 14    | 5   | 4    | 6    | 5    | 5     | 4    | 4    | 9    |
| 14       | 10   | 14   | 20    | 12    | 6   | 5    | 5    | 4    | 4     | 5    | 7    | 8    |
| 15-A     | 10   | 10   | 13    | 14    | 15  | 9    | 3    | 3    | 3     | 5    | 6    | 9    |
| 15-B     | 9    | 10   | 12    | 13    | 14  | 10   | 4    | 3    | 4     | 5    | 7    | 9    |
| 16       | 3    | 5    | 7     | 12    | 14  | 16   | 13   | 10   | 8     | 6    | 3    | 3    |
| 17       | 6    | 7    | 10    | 6     | 6   | 5    | 9    | 13   | 16    | 12   | 5    | 5    |
| 18-A     | 12   | 13   | 15    | 11    | 10  | 7    | 5    | 3    | 3     | 5    | 6    | 10   |
| 18-B     | 7    | 9    | 11    | 14    | 12  | 10   | 6    | 3    | 6     | 6    | 8    | 8    |
| 19       | 5    | 6    | 9     | 5     | 5   | 4    | 11   | 16   | 19    | 13   | 4    | 3    |

<sup>1/</sup> Based on 157 U.S. Geological Survey stream gaging stations in the South Regional Technical Service Center area.