

## II.9.2-FFG FLASH FLOOD GUIDANCE (FFG) SYSTEM PROCESSING INFORMATION

The Flash Flood Guidance (FFG) System software consists of two major components:

1. The Operation FFG [[Hyperlink](#)] which uses the specified rainfall-runoff and snow models and the current soil-moisture and snow conditions to produce rainfall-runoff relationships for each basin (MAP area). Relationships are generated for 1, 3, 6, 12 and 24 hour duration rainfall amounts. The relationships are stored in a record in the Preprocessor Parametric Data Base (PPPDB) [[Hyperlink](#)] for each MAP area. The user can produce updated relationships whenever needed (typically at 6 hour intervals) and not have to store carryover prior to FFG computations.
2. The FFG System programs FFGUID [[Hyperlink](#)] and PRODGEN [[Hyperlink](#)] which:
  - o computes guidance using information from the FFG and Operational Forecast System (OFS) [[Hyperlink](#)] data bases
  - o accesses the current rainfall-runoff relationship for each basin, certain discharge time series to adjust for current flow levels and other information from the OFS data bases
  - o maintains information on threshold runoff values including their magnitude, location and cross reference with MAP areas using OFS basin boundary information
  - o create FFG products

The order and station/location contents of all FFG products are defined during the setup process. FFG products include gridded, headwater and the areal groups of county and urban FFG. FFG is computed for 1, 3, 6, 12 and 24 hour durations.

Sections II.9.2-FFG-FFGUID [[Hyperlink](#)] contains processing information for program FFGUID.

Sections II.9.2-FFG-PRODGEN [[Hyperlink](#)] contains processing information for program PRODGEN.