

IX.4.7B-HFFG FFG PARAMETER TYPE HFFG

Purpose

Parameter array type HFFG contains parameters used to compute headwater Flash Flood Guidance.

Array Contents

<u>Starting Position</u>	<u>Dimension</u>	<u>Type</u>	<u>Input/Generated</u>	<u>Description</u>
1	1	I*4	G	Parameter array version number
2	1	C*8	I	Headwater identifier
4	1	C*4	I	Parameter array type code ('hffg')
5	1	R*4	G	Number of words required for parameters
6	1	C*20	I	Headwater name
11	1	C*20	I	Stream name
16	1	C*8	I	Rating Curve identifier
18	1	R*4	I	Latitude of centroid of area in degrees and minutes
19	1	R*4	I	Longitude of centroid of area in degrees and minutes
20	1	R*4	I	1/2 width of area in latitude
21	1	R*4	I	1/2 width of area in longitude
22	1	I*4	I	Type of weighting
23	1	R*4	I	Flow at flood stage
24	1	R*4	I	Unit graph peak flow (or threshold runoff) for 1 hour duration
25	1	R*4	I	Unit graph peak flow (or threshold runoff) for 3 hour duration
26	1	R*4	I	Unit graph peak flow (or threshold runoff) for 6 hour duration

<u>Starting Position</u>	<u>Dimension</u>	<u>Type</u>	<u>Input/Generated</u>	<u>Description</u>
27	1	R*4	I	Unit graph peak flow (or threshold runoff) for 1 hour duration; optional
28	1	R*4	I	Unit graph peak flow (or threshold runoff) for 24hour duration; optional
29	1	R*4	I	Percent impervious area
30	3	R*4	G	Unused <u>1</u> /
33	1	I*4	G	Location of output FFG values (LFFG)
34	1	I*4	G	Location of high base flow adjust parameters (LBADJ)
35	1	I*4	G	Location of intensity adjust parameters (LIADJ)
36	1	I*4	G	Location of number of areas (LOAR)
37	1	I*4	G	Julian date of last computed values (hours since 0Z on 01/01/1900)
LFFG	5	R*4	G	Output flash flood guidance values for 1, 3 and 6 hour durations (12 and 24 hour durations optional) <u>1</u> /
LBADJ	1	I*4	I	High flow adjust option: 0 = no adjust 1 = forecast flows at hours entered 2 = highest forecast flow over next hours entered 3 = highest forecast flow in time series
LBADJ+1	1	R*4	I	Time to adjust flow for 1 hour duration
LBADJ+2	1	R*4	I	Time to adjust flow for 3 hour duration
LBADJ+3	1	R*4	I	Time to adjust flow for 6 hour duration
LBADJ+4	1	R*4	I	Time to adjust flow for 12 hour duration

<u>Starting Position</u>	<u>Dimension</u>	<u>Type</u>	<u>Input/Generated</u>	<u>Description</u>
				duration
LBADJ+5	1	R*4	I	Time to adjust flow for 24 hour duration
LBADJ+6	1	C*8	I	Time series identifier of forecast flows
LBADJ+8	1	C*4	I	Time series data type code of forecast flows
LBADJ+9	1	I*4	I	Time interval of forecast flow time series
LBADJ+10	2	R*4	G	Unused <u>1</u> /
LIADJ	1	I*4	I	Intensity adjust option 0 = no adjust 1 = adjust runoff 2 = use intensity value as flash flood guidance (ffg) 3 = use runoff as ffg
LIADJ+1	1	R*4	I	Intensity parameter for 1 hour duration
LIADJ+2	1	R*4	I	Intensity parameter for 3 hour duration
LIADJ+3	1	R*4	I	Intensity parameter for 6 hour duration
LIADJ+4	1	R*4	I	Intensity parameter for 12 hour duration
LIADJ+5	1	R*4	I	Intensity parameter for 24 hour duration
LIADJ+6	2	R*4	G	Unused <u>1</u> /
LOAR	1	I*4	I	Number of pairs of weights and basins used to compute FFG (NARS)
LOAR+1	3	R*4	G	Unused <u>1</u> /
The following items are repeated NARS times (maximum 15) <u>2</u> /				
LOAR+4	1	R*4	I	Weights
LOAR+5	2	R*4	I	FFG area identifiers

Notes:

1/ Initialized to -999.0.

2/ Starting location is only for the first set of values.