V.3.3-STAGEREV STAGE REVIEW OPERATION

Identifier: STAGEREV

Application: All programs

<u>Description</u>: This Operation compares an observed and forecast stage time series and creates adjustments that are used by Operation ADJUST-H.

Operation STAGEREV divides the forecast hydrograph equally into four slices and creates a table of daily average computed differences between an observed and computed stage time series per stage slice for the entire run time. The number of values used in determining the daily average balances per stage slice from start time to present are also displayed. Time series of the stage slice delineation and the average daily balance per slice are created.

The maximum run length is 30 days.

Developed by: Northwest River Forecast Center

Allowable Data Time Intervals: 1 hour

Time Series Used: Time series used in this Operation are as follows:

General Type	Dimn	Units	Use	Required	Data Time Interval	Missing Values Allowed
				·		
Observed stage	L	FT	I	yes	1	no
Forecast stage	L	FT	I	yes	1	no
RangelLowLimit	L	FT	I	yes	24	no
Range2LowLimit	L	FT	I	yes	24	no
Range3LowLimit	L	FT	I	yes	24	no
Range4LowLimit	L	FT	I	yes	24	no

<u>Input Summary</u>: The card input for this Operation is in free-format and is as follows:

Card	Field	Format	Contents
1	1	A72	User supplied information

		Input time series definition:
1	I	Input time series data time interval
2	A8	Observed stage time series identifier
3	A4	Observed stage time series data type code
4	A8	Forecast stage time series identifier
5	A4	Forecast stage time series data type code
6	I	Output time series data time interval
7	A8	Range time series identifier
8	A4	Output time series data type code
		Output time series definition:
1	A8	Rangel lower limit time series identifier
2	A8	Range2 lower limit time series identifier
3	A8	Range3 lower limit time series identifier
4	A8	Range4 lower limit time series identifier

<u>Sample Input and Output</u>: Sample input for this Operation is shown in Figure 1. Sample output from the parameter print routine is shown in Figure 2. Sample output from the execution routine is shown in Figure 3.

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Figure 1. Sample card input for Operation STAGEREV

STAGEREV PRTO3 STAGE REVIEW 1 PRTO3 STG PRTO3ADJ SSTG 24 RANGE SSTG SBALR1 SBALR2 SBALR3 SBALR4

Figure 2. Sample output from Operation STAGEREV print parameter routine

SBALR4

STAGEREV OPERATION NAME=PRTO3 PREVIOUS NAME= STAGE REVIEW- VERSION 1 STAGE REVIEW
 IPUT TIME SERIES
 ID
 CODE

 OBS/FCST TIME INTERVAL
 1

 OBSERVED
 STAGE
 PRTO3
 STG

 DW OBS/FCST
 STAGE
 PRTO3ADJ
 SSTG
CODE INPUT TIME SERIES PRIMARY OUTPUT TIME SERIES OUTPUT TIME INTERVAL 24 RANGE RANGE LIMIT SSTG AVE BALANCE RANGE1 AVE BALANCE RANGE2 AVE BALANCE RANGE3 SBALR1 SBALR2 SBALR3 AVE BALANCE RANGE4

NO. OF VALUES PER AVERAGE DAILY BALANCE

STAGE RANGE	5/27	5/28	5/29	5/30	5/31	6/1	6/2			
11.5->12.7:	20	24	4	0	0	0	0			
12.7->13.9:	0	0	9	0	0	0	0			
13.9->15.2:	0	0	10	24	24	24	4			
15.2->16.4:	0	0	0	0	0	0	0			
AVERAGE DAILY H	BALANCE	S								
STAGE RANGE	5/27	5/28	5/29	5/30	5/31	6/1	6/2	6/3	6/4	6/5
11.5->12.7: 12.7->13.9: 13.9->15.2: 15.2->16.4:	.4 .2E .1E .1E	.3 .2E .1E .1E	.3 .2 .1 .1E	.3E .2E .2 .2E	.3E .2E .2 .2E	.3E .2E .3 .3E	E .3E .2E .2 .2 .2 .2E	.3E .2E .2E .2E	.3E .2E .2E .2E	.34 .2E .2E .2E

Notes:

Data are in English units.

An 'E' following a data value indicates it is estimated.