VIII.3.3-PLOT-TUL TULSA TIME SERIES LIST AND PLOT OPERATION

Identifier: PLOT-TUL

Operation Number: 25

Parameter Array: The FORTRAN identifier used for the parameter array for this Operation is PO. The contents of the PO array are:

Position	Contents	Form
1	Operation version number	Integer
2	Plot is a hydrograph with a Rating Curve: 0 = plot has no Rating curve (even if it is a hydrograph) 1 = plot is a hydrograph with a Rating Curve 9 = plot is not to be treated as a hydrograph by the HCL Technique PLOTHYD (i.e., printing of the plot is not controlled by PLOTHYD)	Integer
3	Top of page option: 0 = will not advance to top of page for each plot 1 = will advance to top of page for each plot	Integer
4	Plot size option - 51 or 101	Integer
5	Punch stream of plot option: 0 = no punch stream 1 = punch stream only (plot size of 51) 2 = punch and print stream (plot size of 51)	Integer
6	Minimum scale (increment)	Integer
7	Time interval of time series	Integer
8	Preferred time increment	Integer
9	Total number of time series	Integer
10	Number of time series to list	Integer
11	Ordinate plotting symbol	1 Character
12	Current time plotting symbol	1 Character

Position	Contents	Form
13	Plot criteria if no rating curve define	Integer
14	Plot base value	Integer
15	Unused	n/a
16-25	Plot name label	40 Character
or		
16	Plot stage	Integer
17	Percent of flood flow	Integer
18	Flood flow plotting symbol	1 Character
19	Rating upper limit plot symbol	1 Character
20	Maximum of record plotting symbol	1 Character
21-22	Rating curve identifier	8 Character
23	Unused	n/a
24	Unused	n/a
25	Unused	n/a
26-30	Left side column heading	20 Character
or		
26-30	Left side column heading	20 Character
31-43	Right side column heading	52 Character
For each time series:		
+1,+2	Time series identifier	8 Character
+3	Type code	4 Character
+4	Standard Metric Units	4 Character
+5	Dimension of units	4 Character
+6	List/plot/both option	4 Character
+7	Plotting symbol	1 Character
+8,+9	Listing format - real	8 Character
+10	Multiplication conversion factor	Real
+11	Addition constant	Real
+12	Standard English units	4 Character

The size of the PO array is equal to 30 or 43 plus the number of time series multiplied by 12.

Carryover Array: There is no carryover array.

Subroutines Names and Functions: The subroutines associated with this Operation are:

Subroutine	Function
PIN25	Input cards and store values in PO array
PRP25	Print information in PO array
PUC25	Punch information in PO array
EX25	Execute the Operation
TAB25	Operation Table entry subroutine

Subroutines PIN25, PRP25 and PUC25 have the standard argument lists for these subroutines as given in Section VIII.4.3.

SUBROUTINE EX25 (PO,DI,WI,LOCTS)

Function: This is the execution routine for Operation PLOT-TUL.

Argument List:

Variable	Input/ Output	Type	Dimension	Description
PO	Input	R*4	Variable	Parameters and other information
DI	Input	R*4	Variable	Time series data
WI	-	R*4	Variable	Work space
LOCTS	Input	I*4	Variable	Locations of the first elements of each time series used in the Operation

SUBROUTINE TAB25 (TO,LEFT,IUSET,NXT,LPO,PO,TS,MTS,NWORK,NDD,LWORK)

Function: This is the Operations Table entry subroutine Operation PLOT-TUL.

Argument List: The arguments for the routine are similar to the arguments for the Operations Table entry subroutines for other Operations. A description of the arguments is contained in Section VIII.4.2-TAB.

Operation Table Array: The contents of the TO array are:

Position	Contents
1	Operation number
2	Location in the T array of the next Operation to be executed
3	Location of the parameter array for the Operation in the P array
4	Location of the rating curve identifier in the P array: 0 = no rating curve used
5	Location of the start of work space in the D array
6 thru NTS+5	Location of each time series to be plotted and/or listed in the array (NTS is the total number of time series)