VIII.3.3-LIST-FTW FORT WORTH TABULAR TIME SERIES OUTPUT OPERATION

Identifier: LIST-FTW

Operation Number: 27

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

Position	Type	Contents
1	I*4	Operation version number
2	I*4	Number of words in PO array
3	I*4	Number of title lines
4	I*4	Number of time series to print
5	I*4	<pre>New page option: 0 = do not begin output on a new page 1 = begin output on a new page</pre>
6	I*4	Number of columns to use for print
7	R*4	4-character flag used to mark the end of previous hydrologic days
8	R*4	4-character flag used to mark the last computational day and hour
9	R*4	4-character flag used to mark the end of future hydrologic days
10-11	R*4	Rating curve identifier (blank if no Rating Curve information is to be printed along with the data)
12	I*4	Number of blank lines to print in between time series
13-22	I*4	Relative line number after which a blank line will be printed
23-30	I*4	Unused
31-48	R*4	First title line to be printed

For each title line 18 spaces are used in the PO array. The second title line is stored immediately after the first, etc.

Beginning at the location IPT=30+(num_title_lines*18) the following positions are repeated for each time series:

Position Type	<u>Contents</u>
IPT+1-IPT+2 R*4	Time series identifier
IPT+3 R*4	Time series data type
IPT+4 I*4	Time series data time interval
IPT+5 I*4	Time series print time interval
IPT+6 I*4	Option to not print missing data: 0 = print missing data 1 = do not print missing data
PT+7 R*4	User identifier to print with time series
IPT+8 I*4	Number of ordinates into the future to print (based on the time series print interval)
IPT+9 I*4	Number of digits to the right of the decimal to print
IPT+10 I*4	Number of digits to the left of the decimal to print
IPT+11 I*4	<pre>Time series print control type: 0 = always print if print output is warranted 1 = print this time series only if at least one value exceeds the print criteria and print output is warranted 2 = a control time series - if the time series does not have at least one data value above the print criteria, no print output is generated for the entire Operation</pre>
IPT+12 I*4	<pre>Volume output option: 0 = express volume as acre-feet or cubic meters 1 = express volume as flow for a unit of time Data values are converted using this expression: data=data*24/(print_time_interval)</pre>
IPT+13 R*4	Criteria or limit value if needed
IPT+14 I*4	<pre>Units of criteria value input: 0 = English units input 1 = Metric units input</pre>
IPT+15 R*4	Metric units code
IPT+16 R*4	English unit code
IPT+17 R*4	Multiplication conversion factor to convert from Metric to English
IPT+18 R*4	Offset value to go from Metric to English
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Position Type Contents

<u>Carryover Array</u>: This Operation has no carryover.

<u>Subroutines Names and Functions</u>: Subroutines associated with this Operation are:

Subroutine	Function
PIN27	Input cards and stores values in the PO array
PRP27	Print information on the PO array
EX27	Execute the Operation
PUC27	Punch cards with information from the PO arrays which may be used as input to the PIN routine
TAB27	Make entries into the Operations Table

Subroutines PIN27, PRP27 and PUC27 have the standard argument lists for these routines as described in Section VIII.4.3.

SUBROUTINE EX27 (PO,IP,D)

<u>Function</u>: This is the execution subroutine for Operation LIST-FTW.

Argument List:

	<u>Variable</u>	Input/ Output	Type	Dimension	Description
	PO	Input	R*3	Variable	Contains parameters and other information
	IP	Input	I*4	Variable	Contains pointers to the beginning location in the D array of each time series to be printed (pointers are in the same order as the time series information is listed in the PO array)
pı	D cint	Input	R*4	Variable	Array of time series data to

SUBROUTINE TAB27 (TO, LEFT, IUSET, NXT, LPO, PO, TS, MTS, NWORK, NDD, LWORK, IDT)

<u>Function</u>: This is the Operations Table entry subroutine for Operation ?OPNAME?.

Argument List: The arguments for this subroutine 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	<u>Contents</u>			
1	Operation number			
2	Location of next Operation in T array			
3	Location of parameters in P array			
4	Location of Rating Curve identifier in P array: 0 = none used			
5	Minimum time interval of any time series			
6 to 5+NTS	Location of each time series in the D array (NTS is total number of time series)			