V.2.3-ESP INPUT SUMMARY FOR DEFINING EXTENDED STREAMFLOW PREDICTION SYSTEM (ESP) TIME SERIES USED BY OPERATIONS IN A SEGMENT

Input Summary

The input to define time Extended Streamflow Prediction System (ESP) series used in Operations by a Segment is as follows:

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If the time series type is UPDATE the file type specified will apply only to the input location of the time series. The output location will be specified on a later card.

3 Time series location information

If the file type is CARD then card 3 is the filename. See Chapter I.2-UNIX for a description of the directory structure.

If the file type is ESP (ESP scratch or permanent time series files) the information on card 3 depends on whether the time series type is input or output.

For an INPUT time series:

3A4	1-12	ESP Segment identifier - must be the name
		of the Segment from which the time series
		was written

- 3X,2A4 16-23 Time series identifier
- 2X,A4 26-29 Time series data type
- 1X, I5 31-35 Time series data time interval (hours)

I5 36-40 Indicator if scratch file time series can
be deleted after it is read (e.g., it is
not needed for a later Segment):
 0 = no
 1 = yes

For an OUTPUT time series:

3A4 1-12 ESP Segment identifier - the file name created by program FCST is of the form

esegid.tsid.dtype.dtime.CS

where esegid is the ESP Segment identifier tsid is the time series identifier dtype is the time series data type dtime is the time series data Card Format Columns Contents

time interval

2X,I5 15-19 Indicator if time series should be written only to the scratch time series files: 0 = write time series to scratch or permanent files depending on HCL Technique PERMWRIT 1 = write time series only to scratch file regardless of HCL Technique PERMWRIT

If the output file type is MSNG no additional input is required.

If the output file type is GENR then additional cards are required depending on the generate type.

2A4	1-8	Generate type	e:				
		'CREAT-PE'	to create a potential				
			evapotranspiration time				
			series				
		'BLEND-TS'	to create a time series by				
			blending future data with				
			historical data				

If the generate type is CREAT-PE:

4	12F5.0	1-60	Potential evapotranspiration (MM/DAY) fo	r
			the 16th of each month (January-December)

If the generate type is BLEND-TS:

4	F5.2	1-5	Weight assigned to future data at the start of the run

- F5.2 6-10 Weight assigned to future data at the end of the weighting period
 - I5 11-15 Length of the weighting period in hours
- I5 16-20 Length of the blending period in days

5 File name (see Chapter I.2-UNIX)

If the output file type is REPL then additional cards are required depending on the new time series file type.

3	2A4	1-8	New time series identifier
	3X,A4	12-15	New time series data type
	3X,I2	19-20	New time series time interval
	26X,A4	47-50	New time series file type

Card Format Columns Contents

4 Input for new file type

If time series type on card 2 is UPDATE, the output file type must also be specified, since ESP will not allow the same file for input and output for an update time series.

4 A4 1-4 Output file type: 'ESP ' or 'NONE'

If the output file type is NONE no additional input is required for the time series.

If the output file type is ESP:

5 3A4 1-12 ESP Segment identifier

Repeat card types 2 through 5 for each time series that must be defined differently than the default definitions:

Time Serie: <u>(in Foreca</u>	s Type <u>st definiti</u>	lon)		Default F <u>(in ESP)</u>	'ile Type
Input Update Output Internal		remains becomes becomes remains	Input Input Internal Internal	'MSNG' 'MSNG' n/a n/a	
Last	1-3	'END'			

Sample Input

Figure 1 is sample input used to define time series in the Operational Forecast System program FCINIT.

10		20	30	40	50	60	C	70	80
+	+-	++	+	+	++-	+	++	+	-++
DEF-TS									
TAHC1	MAP	6	IN	IPUT	FPDB	CARD			
TAHMAP	MAP								
esp/tah.ma	p	<i>c</i>				3515			
ТАНСІ танмат	MAT.	6	TV	IPU.I.	F.PDB	GENR			
IARMAI BLEND-TS	MAI								
1.00 .50	120	5							
esp/tah.ma	t	-							
TAH10D	QME	24	IN	IPUT	FPDB	MSNG			
THLC1	QME								
TAHC1_1	PELV	1	IN	IPUT	FPDB	MSNG			
THLC1	PELV								
TAHC1	PELV	6	IN	IPUT	FPDB	CARD			
IHLCI	+ pool	6 poly							
TAHC1 24	DELV	24	TN	ידיזסו	FDDR	MSNG			
THLC1	PELV	21	11	101	IIDD	MBING			
UTRC1 1	OIN	1	IN	IPUT	FPDB	MSNG			
UTRC1	QIN								
UTRC1	QIN	6	IN	IPUT	FPDB	MSNG			
UTRC1	QIN								
TAHC1	RQOT	6	IN	IPUT	FPDB	CARD			
TAHC1	RQOT								
esp/tancl.	rqot	2.4	T N	ידידי	מתחש	MONO			
TAHC1_24	RQUI	24	TN	IPUI	FPDB	MSNG			
TAHLND	MAP	6	TN	TERNAL.					
TAHLAK	MAP	6	IN	TERNAL					
TAHSYN	RQIN	6	IN	TERNAL					
TAHC1	QME	24	IN	TERNAL		CARD	INPUT		
esp/tah_fn	f_cree	ks.qme							
TAHC1	RSEL	6	IN	TERNAL					
TAHC1	RAIM	6	IN	TERNAL					
TAHCI	RAIM	24		TERNAL					
TARCI TARCI	MAP SASC	24	TN	TERNAL					
TAHC1	SWE	24	TN	TERNAL					
TAHC1	INFW	6	IN	TERNAL					
TAHC11	SQIN	6	IN	TERNAL					
TAHC1IW	SQIN	6	IN	TERNAL					
TAHC1IW	SQME	6	IN	TERNAL					
TAHC1IW	QINE	6	IN	TERNAL					
TAHIW24	SQME	24	IN	TERNAL					
TAHIW24	AQME	24		TERNAL					
TAHIUD TAHIUD	QIN Otne	6	TN	II ERNAL ITEDNAT					
TAH10D TAH10D	AOME	2.4	TN	TERNAL					
UTRC1	OINE	6	IN	TERNAL					
UTRC1	QME	24	IN	TERNAL					
UTRC1	AQME	24	IN	TERNAL					
TAHC10	SQME	б	IN	TERNAL					
TAHC1_0	RQME	6	IN	TERNAL					
TAHC10	RQME	24	IN	TERNAL					
TAHCIO	AQME	24		TERNAL					
TARCIU	DLIL DLIL	6		I LANAL TTITT	ਕਰਰਜ਼				
TAHC1	PELE	39.18	120.1	1 LAKE	TAHOR	ELEV			
TAHC1	SSTG	6	00	TPUT	FPDB				
TAHC1	SSTG	39.18	120.1	1 LAKE	TAHOE	STAGE			
TAHC1_24	PELE	24	IN	TERNAL					
TAHC1	SPEL	б	OU	TPUT	FPDB	ESP			

70	10 80	20	30		40		50		60	
+	+	-++	-++	+	+	+	+	-+	+	+
++	+									
TAHC1 TAHC1	SPEL	39.18 0	120.11	LAKE	TAHOE	ELEV	7			
TAHC1_24	SPEL	24	INTERNA	L						
TAHC1	SRSO	6	INTERNA	L						
TAHC1_24	SRSO	24	INTERNA	L						
RAINEVAP	SQME	б	INTERNA	L						
RNEV_24	SQME	24	INTERNA	L						
TAHC1_6	SOME	б	INTERNA	L						
TAHC1	SQME	24	OUTPUT		FPDB		ESP			
TAHC1	SQME	39.18	120.11	LAKE	TAHOE	FNF				
TAHC1		0								
TAHC1	QINE	б	OUTPUT		FPDB		ESP			
TAHC1	QINE	39.18	120.11	LAKE	TAHOE	FNF				
TAHC1	-	0								
END										