

NATIONAL WEATHER SERVICE RIVER FORECAST SYSTEM
USER MANUAL OUTLINE
FOR ALL USER DISTRIBUTION
FOR RELEASE 81

<u>Part</u>	<u>Contents</u>	
Outlines	Outlines	[Bookmark]
I	General Information	[Bookmark]
II	Models and Techniques	[Bookmark]
III	User Information - Calibration Data Processing	[Bookmark]
IV	User Information - Model Calibration	[Bookmark]
V	User Information - Operations	[Bookmark]
VI	User Information - Forecasting	[Bookmark]
VII	System Documentation - Calibration	[Bookmark]
VIII	System Documentation - Operations	[Bookmark]
IX	System Documentation - Forecasting	[Bookmark]
[Bottom]		

NWSRFS USER MANUAL ALL USER OUTLINE

Outlines

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
OUTLINE-ALL_USERS	NWSRFS User Manual Outline for All Users Distribution	05/09/2005
OUTLINE-BOTH_USERS	NWSRFS User Manual Outline for All Users and Selected Users Distribution	05/09/2005

NWSRFS USER MANUAL ALL USER OUTLINE

PART I - General Information

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
I.1	Introduction to the National Weather Service River Forecast System (NWSRFS) User Manual	04/21/2005
I.1.1	Overview of the National Weather Service River Forecast System (NWSRFS)	04/27/2004
I.2	Program Execution Information	02/15/2002
I.2-UNIX	Program Execution Information for UNIX Systems	06/28/2001
I.2-UNIX-APPSDFLT	Description of the Apps Defaults System	03/30/2001
I.2-UNIX-CALB	Program Execution Information for Calibration System Programs on UNIX Systems	10/20/2004
I.2-UNIX-FFG	Program Execution Information for Flash Flood Guidance System Programs on UNIX Systems	04/21/2005
I.2-UNIX-ICP	Program Execution Information for the Calibration System Interactive Calibration Program (ICP) On UNIX Systems	04/21/2005
I.2-UNIX-OFS	Program Execution Information for Operational Forecast System Programs on UNIX Systems	04/21/2005
I.2-UNIX-SETUP-GEO	Setting Up Geographic Data Information	02/04/2002
I.2-UNIX-SETUP-OFS	Setting Up the Operational Forecast System on a UNIX System	03/15/2001
I.2-UNIX-XDAT	Program Execution Information for the INFORMIX SHEF Data Utility Program (XDAT) on UNIX Systems	03/21/2001
I.2-UNIX-XNAV	Program Execution Information for the INFORMIX Database, Gridded Data and OFS Processed Data Base Display Program (XNAV) on UNIX Systems	03/21/2001
I.2-UNIX-XSETS	Program Execution Information for the SHEF Encoded Time Series Program (XSETS) on UNIX Systems	03/21/2001
I.3-FREEFMT-UFIELD	Free Format Syntax Rules for Input Read By Routine UFIELD	07/26/2001
I.4	Data Type and Unit Codes	10/02/2002
I.4-DATATYPE-DLY	Operational Forecast System Preprocessor Data Base Daily Data Type Codes	10/02/2002
I.4-DATATYPE-RRS	Operational Forecast System Preprocessor Data Base RRS Data Type Codes	10/02/2002
I.4-DATATYPE-TS	Calibration System Historical Data and Operational Forecast System Processed Data Base Data Type Codes	10/22/2003
I.4-DATAUNIT	Data Unit Codes	10/02/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART I - General Information

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
I.5	Creation of Operational Forecast System User Data Files	04/21/2005
I.5-FILECRAT	Operational Forecast System File Creation Program (FILECRAT)	09/18/2002
I.5-FILECRAT-ESPP	Program FILECRAT Command ESPP	09/18/2002
I.5-FILECRAT-FC	Program FILECRAT Command FC	01/02/2003
I.5-FILECRAT-HCL	Program FILECRAT Command HCL	09/18/2002
I.5-FILECRAT-PDB	Program FILECRAT Command PDB	09/18/2002
I.5-FILECRAT-PPP	Program FILECRAT Command PPP	09/18/2002
I.5-FILECRAT-PRD	Program FILECRAT Command PRD	09/18/2002
I.5-FILECRAT-STOP	Program FILECRAT Command STOP	09/18/2002
I.5-FILECRAT-UPRM	Program FILECRAT Command UPRM	09/18/2002
I.5-FILECRAT-USER	Program FILECRAT Command USER	09/18/2002
I.5-FILESIZE	Operational Forecast System File Size Program (FILESIZE)	09/18/2002
I.5-FILESIZE-ESPP	Program FILESIZE Command ESPP	09/18/2002
I.5-FILESIZE-FC	Program FILESIZE Command FC	09/18/2002
I.5-FILESIZE-HCL	Program FILESIZE Command HCL	09/18/2002
I.5-FILESIZE-PDB	Program FILESIZE Command PDB	09/18/2002
I.5-FILESIZE-PPP	Program FILESIZE Command PPP	09/18/2002
I.5-FILESIZE-PRD	Program FILESIZE Command PRD	09/18/2002
I.5-FILESIZE-STOP	Program FILESIZE Command STOP	09/18/2002
I.5-FILESIZE-UPRM	Program FILESIZE Command UPRM	09/18/2002
I.5-FILESIZE-USER	Program FILESIZE Command USER	09/18/2002
I.6	State Abbreviations, Numbers and Codes	10/02/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART II - Models and Techniques

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
II.1	Introduction to Descriptions of Models and Techniques	10/20/2004
II.1-HRAPGRID	Hydrologic Rainfall Analysis Project (HRAP) Grid System	06/08/2001
II.2	Snow Models	02/13/2003
II.2-SNOW-17	HYDRO-17 Snow Model	07/22/2004
II.2-SNOW-43	NWS-43 Snow Model	08/29/2002
II.3	Rainfall-Runoff Models	02/13/2003
II.3-API-CONT	Continuous API Model	08/29/2002
II.3-API-SLC	Salt Lake City (CBRFC) API-Runoff Operation	06/10/2003
II.3-ASSIM	Assimilator Operation	04/29/2002
II.3-SAC-SMA	Conceptualization of the Sacramento Soil Moisture Accounting Model	04/12/2002
II.3-SWB-NILE	Simple Water Balance Model	09/15/2003
II.3-XIN-SMA	Xinjiang Soil Moisture Accounting	10/30/2002
II.4	Channel System Models	02/13/2003
II.4-CONS_USE	Consumptive Use Operation	06/06/2003
II.4-CONS_USE-ET	SCS Blaney Criddle Method for Evapotranspiration Estimation	06/06/2003
II.4-DWOPER	Dynamic Wave Routing	04/16/2002
II.4-LAG/K	LAG and K Routing	03/25/2002
II.4-LAY-COEF	Layered Coefficient Routing	07/22/2004
II.4-LOOKUP3	3 Variable Table Lookup Operation	08/29/2002
II.4-MUSKROUT	Muskingum Routing	07/22/2004
II.4-RES-J	Joint Reservoir Regulation Operation Methods Descriptions	11/04/2004
II.4-RES-J-ADJUST	Joint Reservoir Regulation Operation Method ADJUST	11/04/2004
II.4-RES-J-BALANCE	Joint Reservoir Regulation Operation Method BALANCE	11/04/2004
II.4-RES-J-LAGK	Joint Reservoir Regulation Operation Method LAGK	11/04/2004
II.4-RES-J-MAXDECREASE	Joint Reservoir Regulation Operation Method MAXDECREASE	11/04/2004
II.4-RES-J-MAXSTAGE	Joint Reservoir Regulation Operation Method MAXSTAGE	11/04/2004
II.4-RES-J-RAINEVAP	Joint Reservoir Regulation Operation Method RAINEVAP	11/04/2004
II.4-RES-J-SETELEVATION	Joint Reservoir Regulation Operation Method SETELEVATION	11/04/2004
II.4-RES-J-SETMAX	Joint Reservoir Regulation Operation Method SETMAX	11/04/2004
II.4-RES-J-SETMIN	Joint Reservoir Regulation Operation Method SETMIN	11/04/2004
II.4-RES-J-SETRELEASE	Joint Reservoir Regulation Operation Method SETRELEASE	11/04/2004
II.4-RES-J-SETSUM	Joint Reservoir Regulation Operation Method SETSUM	11/04/2004
II.4-RES-J-SETWITHDRAW	Joint Reservoir Regulation Operation Method SETWITHDRAW	11/04/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART II - Models and Techniques

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
II.4-RES-J-SPILLWAY	Joint Reservoir Regulation Operation Method SPILLWAY	11/04/2004
II.4-RES-SNGL	Single Reservoir Regulation Operation	03/09/2004
II.4-RES-SNGL-A	Single Reservoir Regulation Operation Scheme and Utility Descriptions	03/09/2004
II.4-RES-SNGL-A-ADJUST	Single Reservoir Regulation Operation Utility Adjust Model Results	03/09/2004
II.4-RES-SNGL-A-BACKFLOW	Single Reservoir Regulation Operation Utility Back-Computed Inflow	03/09/2004
II.4-RES-SNGL-A-ENTERISC	Single Reservoir Regulation Operation Utility Entry into Induced Surcharge Scheme	03/09/2004
II.4-RES-SNGL-A-FILLSPILL	Single Reservoir Regulation Operation Scheme Fill and Spill	03/09/2004
II.4-RES-SNGL-A-FLASHBDS	Single Reservoir Regulation Operation Scheme Flash Boards	03/09/2004
II.4-RES-SNGL-A-GOFLASH	Single Reservoir Regulation Operation Utility Entry into Flashboard Scheme	03/09/2004
II.4-RES-SNGL-A-INDSRCHGE	Single Reservoir Regulation Operation Scheme Induced Surcharge	03/09/2004
II.4-RES-SNGL-A-MAXQ	Single Reservoir Regulation Operation Utility Maximum Dam Outflow	03/09/2004
II.4-RES-SNGL-A-MINQ	Single Reservoir Regulation Operation Scheme Minimize Peak Outflow from Reservoir	03/09/2004
II.4-RES-SNGL-A-PASSFLOW	Single Reservoir Regulation Operation Scheme Pass Inflow	03/09/2004
II.4-RES-SNGL-A-POOLQ	Single Reservoir Regulation Operation Scheme Pool Elevation Controlled Discharge	03/09/2004
II.4-RES-SNGL-A-POWERGEN	Single Reservoir Regulation Operation Scheme Power Generation	03/09/2004
II.4-RES-SNGL-A-RAINEVAP	Single Reservoir Regulation Operation Utility Rainfall/Evaporation	03/09/2004
II.4-RES-SNGL-A-RULEADJ	Single Reservoir Regulation Operation Utility Rule Curve Adjustment	03/09/2004
II.4-RES-SNGL-A-RULECURVE	Single Reservoir Regulation Operation Scheme Rule Curve	03/09/2004
II.4-RES-SNGL-A-SETH	Single Reservoir Regulation Operation Scheme Prescribed Elevation	03/09/2004
II.4-RES-SNGL-A-SETMAX	Single Reservoir Regulation Operation Scheme Set Maximum Element	03/09/2004
II.4-RES-SNGL-A-SETMIN	Single Reservoir Regulation Operation Utility Select Minimum	03/09/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART II - Models and Techniques

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
II.4-RES-SNGL-A-SETQ	Element Single Reservoir Regulation Operation Scheme Prescribed Discharge	03/09/2004
II.4-RES-SNGL-A-SPILLWAY	Single Reservoir Regulation Operation Scheme Spillway Routing	03/09/2004
II.4-RES-SNGL-A-STPOOLQ	Single Reservoir Regulation Operation Scheme Outflow Based on Pool Elevation and Stage at Downstream Control Points	03/09/2004
II.4-RES-SNGL-A-SUMINF	Single Reservoir Regulation Operation Utility Inflow Summation	03/09/2004
II.4-RES-SNGL-B-RCL	Single Reservoir Regulation Operation Reservoir Command Language (RCL)	03/09/2004
II.4-SARROUTE	SSARR Channel Routing	03/18/2003
II.4-SSARRESV	SSARR Reservoir Regulation Operation	04/27/2004
II.4-STAGEQ	Stage-Discharge Conversion for a Single Valued Rating Curve	03/11/2004
II.4-STAGEQ-LOOP	Stage-Discharge Conversion Using Loop Rating	03/11/2004
II.4-SUMPOINT	Time Series Summing Point Operation	12/11/2003
II.4-TATUM	TATUM Coefficient Routing	07/22/2004
II.4-UNIT-HG	Unit Hydrograph	04/21/2005
II.5	Evaporation Models	02/13/2003
II.5-CALB-EVAP	Calibration System Evaporation and Evapotranspiration Estimates	05/16/2003
II.5-CALB-MAPE	Calibration System Mean Areal Potential Evapotranspiration (MAPE) Computational Procedure	05/16/2003
II.6	Precipitation Models	02/13/2003
II.6-CALB-MAP	Calibration System Mean Areal Precipitation (MAP) Computational Procedure	04/21/2005
II.6-OFS-FMAP	Operational Forecast System Future Mean Areal Precipitation Preprocessor Function (FMAP)	04/27/2004
II.6-OFS-MAP	Operational Forecast System Mean Areal Precipitation Preprocessor Function (MAP)	10/20/2004
II.6-OFS-MAPX	Operational Forecast System NEXRAD Mean Areal Precipitation Function (MAPX)	04/27/2004
II.7	Temperature Models	02/13/2003
II.7-CALB-MAT	Calibration System Mean Areal Temperature (MAT) Computational Procedure	04/21/2005
II.7-OFS-MAT	Operational Forecast System Mean Areal Temperature Preprocessor Function (MAT)	10/20/2004
II.8	River, Reservoir and Snow Techniques	02/13/2003

NWSRFS USER MANUAL ALL USER OUTLINE

PART II - Models and Techniques

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
II.8-OFS-RRS	Operational Forecast System River, Reservoir and Snow (RRS) Preprocessor Function	10/20/2004
II.9	Flash Flood Guidance System Techniques and Program Processing Information	04/21/2005
II.9.1	Flash Flood Guidance Techniques	04/21/2005
II.9.1-FFG	Flash Flood and Water Supply Guidance	04/21/2005
II.9.1-FFG-COMP	Flash Flood Guidance Computational Method	04/21/2005
II.9.1-FFG-OPER	Flash Flood Guidance Operation Description	04/21/2005
II.9.1-FFG-RUNOFF	Flash Flood Guidance Threshold Runoff	04/21/2005
II.9.1-FFG-WSUP	Municipal Water Supply Guidance	04/21/2005
II.9.2-FFG	Flash Flood Guidance (FFG) System Processing Information	04/21/2005
II.9.2-FFG-FFGUID	Flash Flood Guidance Computation Program (FFGUID) Processing Information	04/21/2005
II.9.2-FFG-PRODGEN	Flash Flood Guidance Product Generation Program (PRODGEN) Processing Information	04/21/2005

NWSRFS USER MANUAL ALL USER OUTLINE

PART III - User Information - Calibration Data Processing

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
III.1	Introduction to User Information for Calibration Data Processing	04/21/2005
III.2	Calibration System Historical Data Access	10/20/2004
III.2-PEAKFLOW	Peak Flow Data Access	04/27/2004
III.7	Calibration System Mean Areal Precipitation	04/27/2004
III.7-MAP	Mean Areal Precipitation Program (MAP)	07/13/2004
III.7-MAPX	NEXRAD Mean Areal Precipitation Program (MAPX)	04/27/2004
III.7-PXPP	Preliminary Precipitation Processing Program (PXPP)	10/20/2004
III.8	Calibration System Mean Areal Temperature	04/27/2004
III.8-MAT	Mean Areal Temperature Program (MAT)	07/13/2004
III.8-TAPLOT	Temperature-Elevation Plotting Program (TAPLOT)	04/27/2004
III.9-MAPE	Mean Areal Potential Evaporation Program (MAPE)	04/27/2004
III.10	Other Calibration System Programs	10/20/2004
III.10-GS2OH	Program to Convert USGS Daily Mean Streamflow Time Series Data to DATACARD Format Files (GS2OH)	10/20/2004
III.10-IDMA	Interactive Double Mass Analysis Program (IDMA)	04/27/2004
III.10-TS2OH	Program to Read Program PRDUTIL Command TSDATA Output and Write a DATACARD Format File (TS2OH)	10/20/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART IV - User Information - Model Calibration

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
IV.1	Introduction to User Information for Model Calibration	04/21/2005
IV.1.1.2	Steps to Follow When Computing Mean Areal Data Values for Model Calibration	04/27/2004
IV.1.1.2-MAP	Steps to Follow When Computing Mean Areal Precipitation (MAP) for Model Calibration	04/21/2005
IV.1.1.2-MAT	Steps to Follow When Computing Mean Areal Temperature (MAT) for Model Calibration	04/21/2005
IV.2	Determining Model Parameters	07/22/2004
IV.2.2	Initial Parameter Values for Models	07/22/2004
IV.2.2-SNOW-17	Initial Parameter Values for the HYDRO-17 Snow Model	07/22/2004
IV.2.3	Influence of Parameter Values on Model Response	07/22/2004
IV.2.3-SNOW-17	Influence of HYDRO-17 Snow Model Parameter Values on Model Response	07/22/2004
IV.4	Programs Used to Calibrate Models	04/27/2004
IV.4.1-ICP	Calibration System Interactive Calibration Program (ICP)	04/21/2005
IV.4.1-MCP3	Calibration System Manual Calibration Program (MCP3)	04/21/2005
IV.4.2-OPT3	Calibration System Automatic Parameter Optimization Program (OPT3)	04/21/2005
IV.4.2-OPT3-ARS	Program OPT3 ARS Concept Representation	07/16/2002
IV.4.2-OPT3-HMLE	Program OPT3 Maximum Likelihood Estimator for Heteroscedastic Error Case (HMLE)	07/16/2002
IV.4.2-OPT3-PATSERCH	Program OPT3 Pattern Search Concept Representation	09/03/2002
IV.4.2-OPT3-SCE-UA	Program OPT3 Shuffled Complex Evolution (SCE-UA) Concept Representation	07/16/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART V - User Information - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
V.1	Introduction to User Information for Forecast Component Time Series, Operations and Rating Curves	04/21/2005
V.2	Forecast Component Time Series Definition	04/21/2005
V.2.1	Internal Identification of Time Series	04/21/2005
V.2.2	Forecast Component Data Type Codes	04/21/2005
V.2.3	Input Summary for Defining Time Series Used By Operations in a Segment	03/25/2002
V.2.3-ESP	Input Summary for Defining Extended Streamflow Prediction System (ESP) Time Series Used By Operations in a Segment	03/25/2002
V.2.4	Forecast Component Time Series External Location Information	04/21/2005
V.2.4-CARD	NWSRFS DATACARD Format File	07/22/2004
V.2.4-FPDB	NWSRFS Processed Data Base	05/25/1999
V.3	Forecast Component Operations	04/21/2005
V.3.1	Input Summary for Defining Operations	06/28/1999
V.3.2	Forecast Component Operations	03/17/2003
V.3.3	Description of Forecast Component Operations	04/21/2005
V.3.3-ADD/SUB	Add or Subtract Time Series Operation	02/14/2002
V.3.3-ADJUST-H	Adjust Stage Operation	05/15/2003
V.3.3-ADJUST-Q	Adjust Simulated Discharge Operation	04/21/2005
V.3.3-ADJUST-T	Adjust Tide Operation	05/15/2003
V.3.3-API-CIN	Cincinnati (OHRFC) API-Runoff Operation	08/08/2003
V.3.3-API-CONT	Continuous Incremental API Operation	03/09/2004
V.3.3-API-HAR	Harrisburg (MARFC) API-Runoff Operation	09/26/2003
V.3.3-API-HAR2	Modified Harrisburg (MARFC) API-Runoff Operation	08/08/2003
V.3.3-API-HFD	Hartford (NERFC) API-Runoff Operation	01/16/2003
V.3.3-API-MKC	Kansas City (MBRFC) API-Runoff Operation	01/16/2003
V.3.3-API-SLC	Salt Lake City (CBRFC) API-Runoff Operation	08/08/2003
V.3.3-ASSIM	End of Operations to be Re-executed by Assimilator Operation	08/26/2002
V.3.3-BASEFLOW	Baseflow Simulation Operation	08/26/2002
V.3.3-BEGASSIM	Beginning of Operations to be Re-executed by Assimilator Operation	05/01/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART V - User Information - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
V.3.3-CHANGE-T	Change Time Series Data Time Interval Operation	08/26/2002
V.3.3-CHANLOSS	Channel Loss Operation	08/08/2003
V.3.3-CLEAR-TS	Clear Time Series Operation	02/14/2002
V.3.3-CONS_USE	Consumptive Use Operation	06/06/2003
V.3.3-DELTA-TS	Rate of Change of Time Series Operation	08/26/2002
V.3.3-DWOPER	Dynamic Wave Operation	01/16/2003
V.3.3-FFG	Flash Flood Guidance Operation	05/30/2003
V.3.3-FLDWA	Generalized Flood Wave Routing Operation	10/20/2004
V.3.3-GLACIER	Glacier Routing Operation	10/10/2003
V.3.3-INSQPLOT	Instantaneous Discharge Plot Operation	04/27/2004
V.3.3-LAG/K	LAG and K Routing Operation	02/14/2002
V.3.3-LAY-COEF	Layered Coefficient Routing Operation	02/14/2002
V.3.3-LIST-FTW	Fort Worth Tabular Time Series Output Operation	08/26/2002
V.3.3-LIST-MSP	Minneapolis API Tabulation Operation	08/26/2002
V.3.3-LOOKUP	2 Variable Table Lookup Operation	02/14/2002
V.3.3-LOOKUP3	3 Variable Table Lookup Operation	02/14/2002
V.3.3-MEAN-Q	Mean Discharge Computation Operation	08/26/2002
V.3.3-MERGE-TS	Merge Time Series Operation	04/21/2005
V.3.3-MULT/DIV	Multiply or Divide Time Series Operation	02/14/2002
V.3.3-MUSKROUT	Muskingum Routing Operation	04/21/2005
V.3.3-NOMSNG	No Missing Values Time Series Operation	02/14/2002
V.3.3-PEAKFLOW	Peak Flow Comparison Operation	02/14/2002
V.3.3-PLOT-TS	Plot Time Series Operation	04/21/2005
V.3.3-PLOT-TUL	Tulsa Time Series List and Plot Operation	03/25/2002
V.3.3-RES-J	Joint Reservoir Regulation Operation	11/04/2004
V.3.3-RES-J-ADJUST	Joint Reservoir Regulation Operation Method ADJUST	11/04/2004
V.3.3-RES-J-BALANCE	Joint Reservoir Regulation Operation Method BALANCE	11/04/2004
V.3.3-RES-J-LAGK	Joint Reservoir Regulation Operation Method LAGK	11/04/2004
V.3.3-RES-J-MAXDECREASE	Joint Reservoir Regulation Operation Method MAXDECREASE	11/04/2004
V.3.3-RES-J-MAXINCREASE	Joint Reservoir Regulation Operation Method MAXINCREASE	11/04/2004
V.3.3-RES-J-MAXSTAGE	Joint Reservoir Regulation Operation Method MAXSTAGE	11/04/2004
V.3.3-RES-J-RAINEVAP	Joint Reservoir Regulation Operation Method RAINEVAP	11/04/2004
V.3.3-RES-J-SETELEVATION	Joint Reservoir Regulation Operation Method SETELEVATION	11/04/2004
V.3.3-RES-J-SETMAX	Joint Reservoir Regulation	11/04/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART V - User Information - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
V.3.3-RES-J-SETMIN	Operation Method SETMAX Joint Reservoir Regulation	11/04/2004
V.3.3-RES-J-SETRELEASE	Operation Method SETMIN Joint Reservoir Regulation	11/04/2004
V.3.3-RES-J-SETSUM	Operation Method SETRELEASE Joint Reservoir Regulation	11/04/2004
V.3.3-RES-J-SETWITHDRAW	Operation Method SETSUM Joint Reservoir Regulation	11/04/2004
V.3.3-RES-J-SPILLWAY	Operation Method SETWITHDRAW Joint Reservoir Regulation	11/04/2004
V.3.3-RES-SNGL	Operation Method SPILLWAY Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-GENL	Operation Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-RCL	Operation General Section Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC	Operation Reservoir Command Language (RCL) Section Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-ADJUST	Operation Specific Section Single Reservoir Regulation	04/27/2004
V.3.3-RES-SNGL-SPEC-BACKFLOW	Operation Utility Adjust Model Results Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-ENTERISC	Operation Utility Back-Computed Inflow Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-FILLSPILL	Operation Utility Entry into Induced Surcharge Scheme Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-FLASHBDS	Operation Scheme Fill and Spill Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-GOFLASH	Operation Scheme Flash Boards Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-INDSRCHGE	Operation Utility Entry into Flashboard Scheme Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-MAXQ	Operation Scheme Induced Surcharge Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-MINQ	Operation Utility Maximum Dam Outflow Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-PASSFLOW	Operation Scheme Minimize Peak Outflow from Reservoir Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-POOLQ	Operation Scheme Pass Inflow Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-POWERGEN	Operation Scheme Pool Elevation Controlled Discharge Single Reservoir Regulation	03/09/2004
V.3.3-RES-SNGL-SPEC-RAINEVAP	Operation Scheme Power Generation Single Reservoir Regulation	03/09/2004
	Operation Utility Rainfall/Evaporation	

NWSRFS USER MANUAL ALL USER OUTLINE

PART V - User Information - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
V.3.3-RES-SNGL-SPEC-RULEADJ	Single Reservoir Regulation Operation Utility Rule Curve Adjustment	04/27/2004
V.3.3-RES-SNGL-SPEC-RULECURVE	Single Reservoir Regulation Operation Scheme Rule Curve	03/09/2004
V.3.3-RES-SNGL-SPEC-SETDH	Single Reservoir Regulation Operation Scheme Daily Rate of Change of Pool Elevation	03/09/2004
V.3.3-RES-SNGL-SPEC-SETDQ	Single Reservoir Regulation Operation Scheme Daily Rate of Change of Reservoir Release	03/09/2004
V.3.3-RES-SNGL-SPEC-SETH	Single Reservoir Regulation Operation Scheme Prescribed Elevation	03/09/2004
V.3.3-RES-SNGL-SPEC-SETMAX	Single Reservoir Regulation Operation Scheme Set Maximum Element	03/09/2004
V.3.3-RES-SNGL-SPEC-SETMIN	Single Reservoir Regulation Operation Utility Select Minimum Element	03/09/2004
V.3.3-RES-SNGL-SPEC-SETQ	Single Reservoir Regulation Operation Scheme Prescribed Discharge	03/09/2004
V.3.3-RES-SNGL-SPEC-SPILLWAY	Single Reservoir Regulation Operation Scheme Spillway Routing	03/09/2004
V.3.3-RES-SNGL-SPEC-STPOOLQ	Single Reservoir Regulation Operation Scheme Outflow Based on Pool Elevation and Stage at Downstream Control Points	03/09/2004
V.3.3-RES-SNGL-SPEC-SUMINF	Single Reservoir Regulation Operation Utility Inflow Summation	03/09/2004
V.3.3-RES-SNGL-SPEC-ENDSPEC	Single Reservoir Regulation Operation Section Trailer	03/09/2004
V.3.3-RSNWELEV	Rain-Snow Elevation Operation	02/14/2002
V.3.3-SAC-PLOT	Sacramento Type Mean Daily Flow Plot Operation	02/14/2002
V.3.3-SAC-SMA	Sacramento Soil Moisture Accounting Operation	04/21/2005
V.3.3-SARROUTE	SSARR Channel Routing Operation	05/15/2003
V.3.3-SET-TS	Set Time Series Values Operation	03/18/2002
V.3.3-SNOW-17	HYDRO-17 Snow Model Operation	04/21/2005
V.3.3-SNOW-43	NWS-43 Snow Model Operation	08/29/2002
V.3.3-SS-SAC	State Space Sacramento Model Operation	03/25/2002
V.3.3-SSARRESV	SSARR Reservoir Regulation Operation	05/30/2003
V.3.3-STAGE-Q	Stage-Discharge Conversion Operation	02/14/2002
V.3.3-STAGEREV	Stage Review Operation	05/15/2003
V.3.3-STAT-QME	Mean Daily Discharges Statistical Summary Operation	08/26/2002
V.3.3-SUMPOINT	Time Series Summing Point Operation	02/14/2002
V.3.3-SWB-NILE	Simple Water Balance Model	02/14/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART V - User Information - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
V.3.3-TATUM	Operation Tatum Routing Operation	02/14/2002
V.3.3-TIDEREV	Tide Balance Review Operation	05/15/2003
V.3.3-UNIT-HG	Unit Hydrograph Operation	04/21/2005
V.3.3-WATERBAL	Water Balance Summary Operation	02/13/2002
V.3.3-WEIGH-TS	Weight Time Series Operation	08/26/2002
V.3.3-WY-PLOT	Water Year Mean Daily Flow Plot Operation	04/21/2005
V.3.3-XIN-SMA	Xinjiang Soil Moisture Accounting Operation	10/30/2002
V.4	Input Summary for Defining Forecast Component Rating Curves	11/07/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
VI.1	Introduction to User Information for the Forecast Systems	04/21/2005
VI.2	Operational Forecast, Extended Streamflow Prediction and Flash Flood Guidance Systems Application Information	04/21/2005
VI.2A	Operational Forecast System Glossary of Terms	02/01/2000
VI.2.1	Operational Forecast System Preinitialization Considerations	02/01/2000
VI.2.2	Operational Forecast System Initialization	02/01/2000
VI.2.2A	Operational Forecast System User Data File Sizes	04/21/2005
VI.2.2B	Operational Forecast System Data Entry Definitions	02/01/2000
VI.2.2C	Operational Forecast System Preprocessor Definitions using Program PPINIT	04/21/2005
VI.2.2D	Operational Forecast System Component Definitions Using Program FCINIT	04/21/2005
VI.2.3	Operational Forecast System Execution	02/01/2000
VI.2.3A	Operational Forecast System Data Entry	02/01/2000
VI.2.3B	Operational Forecast System Forecast Generation Using Program FCST	04/21/2005
VI.2.4	Other Operational Forecast System Programs	02/01/2000
VI.2.4A	Operational Forecast System File Reordering Using Program REORDER	07/22/2004
VI.2.5	Extended Streamflow Prediction System (ESP) Application Information	02/01/2000
VI.2.6	Flash Flood Guidance System (FFG) Application Information	04/21/2005
VI.3	Definition of the Forecast Systems	07/13/2004
VI.3.1	Introduction to the Definition of the Forecast Systems	07/13/2004
VI.3.3	Preprocessor Component Initialization Program (PPINIT)	04/21/2005
VI.3.3A	Introduction to the Preprocessor Component Initialization Program (PPINIT)	07/22/2004
VI.3.3B	Program PPINIT Commands and Syntax Rules	07/22/2004
VI.3.3B-DEFINE	Program PPINIT Command DEFINE	07/22/2004
VI.3.3B-DEFINE-AREA	Program PPINIT Command DEFINE AREA (FMAP, MAP, MAPE, MAPX and MAT)	11/07/2002
VI.3.3B-DEFINE-BASIN	Program PPINIT Command DEFINE	11/07/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.3.3B-DEFINE-STATION	BASIN Program PPINIT Command DEFINE STATION	03/09/2004
VI.3.3B-DEFINE-USER	Program PPINIT Command DEFINE USER (UGNL, URRS and STBN)	11/07/2002
VI.3.3B-DELETE	Program PPINIT Command DELETE	07/22/2004
VI.3.3B-DELETE-AREA	Program PPINIT Command DELETE AREA	11/07/2002
VI.3.3B-DELETE-BASIN	Program PPINIT Command DELETE BASIN	11/07/2002
VI.3.3B-DELETE-STATION	Program PPINIT Command DELETE STATION	11/07/2002
VI.3.3B-DUMP	Program PPINIT Command DUMP	07/22/2004
VI.3.3B-INCLUDE	Program PPINIT Command INCLUDE	11/07/2002
VI.3.3B-NETWORK	Program PPINIT Command NETWORK	11/07/2002
VI.3.3B-ORDER	Program PPINIT Command ORDER	11/07/2002
VI.3.3B-SETOPT	Program PPINIT Command SETOPT	11/07/2002
VI.3.3B-STATUS	Program PPINIT Command STATUS	11/07/2002
VI.3.3B-STOP	Program PPINIT Command STOP	01/02/2003
VI.3.3C	Description of Algorithms Used by Program PPINIT	11/07/2002
VI.3.4	Forecast Component Initialization Program (FCINIT)	04/21/2005
VI.3.4A	Introduction to the Forecast Component Initialization Program (FCINIT)	04/21/2005
VI.3.4B	Program FCINIT Commands, Syntax Rules and Examples	07/22/2004
VI.3.4B-CGDEF	Program FCINIT Command CGDEF	03/26/2002
VI.3.4B-DEF-RC	Program FCINIT Command DEF-RC	03/26/2002
VI.3.4B-DELETE	Program FCINIT Command DELETE	03/26/2002
VI.3.4B-FGDEF	Program FCINIT Command FGDEF	03/26/2002
VI.3.4B-INCLUDE	Program FCINIT Command INCLUDE	03/26/2002
VI.3.4B-PRINTOPS	Program FCINIT Command PRINTOPS	03/26/2002
VI.3.4B-PRINTRC	Program FCINIT Command PRINTRC	03/26/2002
VI.3.4B-PRINTSEGS	Program FCINIT Command PRINTSEGS	05/02/2003
VI.3.4B-PUNCHCG	Program FCINIT Command PUNCHCG	03/26/2002
VI.3.4B-PUNCHCHR	Program FCINIT Command PUNCHCHR	03/26/2002
VI.3.4B-PUNCHFG	Program FCINIT Command PUNCHFG	03/26/2002
VI.3.4B-PUNCHRC	Program FCINIT Command PUNCHRC	03/26/2002
VI.3.4B-PUNCHSEGS	Program FCINIT Command PUNCHSEGS	03/26/2002
VI.3.4B-RESEGDEF	Program FCINIT Command RESEGDEF	03/26/2002
VI.3.4B-SEGDATE	Program FCINIT Command SEGDATE	11/15/2001
VI.3.4B-SEGDEF	Program FCINIT Command SEGDEF	03/26/2002
VI.3.4B-SPECIALFG	Program FCINIT Command SPECIALFG	03/26/2002
VI.3.4B-STATUS	Program FCINIT Command STATUS	03/26/2002
VI.3.5	Extended Streamflow Prediction Initialization Program (ESPINIT)	06/22/2004
VI.3.5-DEFSEG	Program ESPINIT Command DEFSEG	05/29/2003
VI.3.5-DEFSEG-ANALYSIS	Program ESPINIT Command DEFSEG Subcommand ANALYSIS	05/29/2003
VI.3.5-DEFSEG-DEF-TS	Program ESPINIT Command DEFSEG Subcommand DEF-TS	10/20/2004
VI.3.5-DELSEG	Program ESPINIT Command DELSEG	05/29/2003
VI.3.5-PRINT	Program ESPINIT Command PRINT	05/29/2003
VI.3.5-PUNCH	Program ESPINIT Command PUNCH	05/29/2003

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.3.5-REDEFSEG	Program ESPINIT Command REDEFSEG	05/29/2003
VI.3.5-RUNCHECK	Program ESPINIT Command RUNCHECK	05/29/2003
VI.3.5-STATUS	Program ESPINIT Command STATUS	05/29/2003
VI.3.5-STOP	Program ESPINIT Command STOP	05/29/2003
VI.3.6	Flash Flood Guidance System (FFGS) Initialization	04/21/2005
VI.3.6A	Flash Flood Guidance Computation Setup (Program FFGUID)	04/21/2005
VI.3.6A-SETUP	FFGUID Setup Menu	04/21/2005
VI.3.6A-SETUP-AREA	Setup: A - Areas (Zones, Countries)	04/21/2005
VI.3.6A-SETUP-GRID	Setup: G - Gridded Parameters	04/21/2005
VI.3.6A-SETUP-GRIDPM	SETUP: R - Runoff Adjust for GRIDS	04/21/2005
VI.3.6A-SETUP-HEAD	Setup: H - Headwaters	04/21/2005
VI.3.6A-SETUP-USER	Setup: U - User Controls and Options Menu	04/21/2005
VI.3.6A-SETUP-WSUP	Setup: W - Municipal Water Supply	04/21/2005
VI.3.6B	Flash Flood Guidance Product Generation Setup (Program PRODGEN)	04/21/2005
VI.3.6B-SETUP	PRODGEN Setup Menu	04/21/2005
VI.3.6B-SETUP-GROUP	Setup: G - Groups of Products	04/21/2005
VI.3.6B-SETUP-PROD	Setup: P - Products	04/21/2005
VI.3.6B-SETUP-TEXT	Setup: T - Text	04/21/2005
VI.3.6B-SETUP-USER	Setup: U - User Info and Options Menu	04/21/2005
VI.3.6C	Flash Flood Guidance System (FFGS) Parameter Input File Formats	04/21/2005
VI.3.6C-INFILE-AREA	FFGS File Format for Area Parameters	04/21/2005
VI.3.6C-INFILE-GRID	FFGS File Format for Gridded Threshold Runoff Parameters	04/21/2005
VI.3.6C-INFILE-GRIDPM	FFGS File Format for Runoff Adjustment for Grids Parameters	04/21/2005
VI.3.6C-INFILE-GROUP	FFGS File Format for Group of Products Parameters	04/21/2005
VI.3.6C-INFILE-HEAD	FFGS File Format for Headwater Parameters	04/21/2005
VI.3.6C-INFILE-PROD	FFGS File Format for Product Parameters	04/21/2005
VI.3.6C-INFILE-TEXT	FFGS File Format for Text Parameters	04/21/2005
VI.3.6C-INFILE-USER	FFGS File Format for User Control Parameters	04/21/2005
VI.3.6C-INFILE-WSUP	FFGS File Format for Water Supply Parameters	04/21/2005
VI.3.6D	Flash Flood Guidance (FFG) Gridded Threshold Runoff Computation Using THRESHR	04/21/2005
VI.3.6E	Assign FFG Threshold Runoffs by Areas to Each HRAP Bin Using Program ZGRID	04/21/2005
VI.3.6F	GRIB Encoder Program GRIBIT	02/05/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.4	Forecast System Data Transfer	07/19/1999
VI.4.1	Introduction to Forecast System Data Transfer	07/19/1999
VI.4.2	SHEF Data Transfer Using Programs SHEFPARS and SHEFPOST	04/21/2005
VI.4.3	INFORMIX Data Transfer Using Programs OFSDE and BATCHPST	07/22/2004
VI.5	Forecast System Execution	07/22/2004
VI.5.1	Introduction to the Operational Forecast Program (FCST)	04/21/2005
VI.5.2	Operational Forecast Program (FCST) Hydrologic Command Language (HCL)	04/27/2004
VI.5.2A	Introduction to the Operational Forecast Program (FCST) Hydrologic Command Language (HCL)	04/27/2004
VI.5.2B	Operational Forecast Program (FCST) Hydrologic Command Language (HCL) Syntax Rules	04/27/2004
VI.5.2C	Operational Forecast Program (FCST) Hydrologic Command Language (HCL) User Commands	04/21/2005
VI.5.2C-ADDTECH	Program FCST HCL Command ADDTECH	04/27/2004
VI.5.2C-CHANGE-PROCEDURE	Program FCST HCL Command CHANGE PROCEDURE	04/27/2004
VI.5.2C-CLEAR	Program FCST HCL Command CLEAR	04/27/2004
VI.5.2C-COMPUTE	Program FCST HCL Command COMPUTE	04/27/2004
VI.5.2C-DEFINEL-FUNCTION	Program FCST HCL Command DEFINEL FUNCTION	04/27/2004
VI.5.2C-DEFINEL-OPTION	Program FCST HCL Command DEFINEL OPTION	04/27/2004
VI.5.2C-DEFINEL-PROCEDURE	Program FCST HCL Command DEFINEL PROCEDURE	04/27/2004
VI.5.2C-DEFINEL-TECHNIQUE	Program FCST HCL Command DEFINEL TECHNIQUE	04/27/2004
VI.5.2C-DELETEL	Program FCST HCL Command DELETEL	04/27/2004
VI.5.2C-DELLDFLT	Program FCST HCL Command DELLDFLT	04/27/2004
VI.5.2C-DUMPOPT	Program FCST HCL Command DUMPOPT	04/27/2004
VI.5.2C-DUMPSYS	Program FCST HCL Command DUMPSYS	04/27/2004
VI.5.2C-EXECUTE	Program FCST HCL Command EXECUTE	04/27/2004
VI.5.2C-INCLUDE	Program FCST HCL Command INCLUDE	04/27/2004
VI.5.2C-NONFCST	Program FCST HCL Command NONFCST	04/27/2004
VI.5.2C-PAGESIZE	Program FCST HCL Command PAGESIZE	04/27/2004
VI.5.2C-REPLACE-PROCEDURE	Program FCST HCL Command REPLACE PROCEDURE	04/27/2004
VI.5.2C-SETLDFLT	Program FCST HCL Command SETLDFLT	04/27/2004
VI.5.2C-SETOPTIONS	Program FCST HCL Command SETOPTIONS	04/27/2004
VI.5.2C-SETTODAY	Program FCST HCL Command SETTODAY	04/27/2004
VI.5.2C-SETUPARM	Program FCST HCL Command SETUPARM	04/27/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.2C-STOP	Program FCST HCL Command STOP	04/27/2004
VI.5.3	Operational Forecast Program (FCST)	04/21/2005
VI.5.3A	Introduction to the Operational Forecast Program (FCST)	04/21/2005
VI.5.3B	Operational Forecast Program Hydrologic Command Language (HCL) Input Examples	04/21/2005
VI.5.3C	Operational Forecast Program (FCST) Functions	06/22/2004
VI.5.3C-CGSTATUS	Program FCST Carryover Groups Status Function (CGSTATUS)	05/18/2004
VI.5.3C-CGSTATUS-ERROR	Program FCST Function CGSTATUS Error and Warning Messages	04/21/2005
VI.5.3C-CGSTATUS-TECH	Program FCST Function CGSTATUS HCL Techniques	05/11/2004
VI.5.3C-ESP	Program FCST Extended Streamflow Prediction Function (ESP)	11/17/2004
VI.5.3C-ESP-ERROR	Program FCST Function ESP Error and Warning Messages	05/11/2004
VI.5.3C-ESP-TECH	Program FCST Function ESP HCL Techniques	10/20/2004
VI.5.3C-FCEXEC	Program FCST Forecast Execution Function (FCEXEC)	04/21/2005
VI.5.3C-FCEXEC-ERROR	Program FCST Function FCEXEC Error and Warning Messages	05/18/2004
VI.5.3C-FCEXEC-MODS	Program FCST Function FCEXEC Run Time Modifications (MODs)	12/20/2004
VI.5.3C-FCEXEC-MOD-AEICQN	Program FCST Function FCEXEC MOD AEICQN	05/11/2004
VI.5.3C-FCEXEC-MOD-AESCCHNG	Program FCST Function FCEXEC MOD AESCCHNG	05/11/2004
VI.5.3C-FCEXEC-MOD-AIADJ	Program FCST Function FCEXEC MOD AIADJ	05/11/2004
VI.5.3C-FCEXEC-MOD-APICBASF	Program FCST Function FCEXEC MOD APICBASF	05/11/2004
VI.5.3C-FCEXEC-MOD-APICCO	Program FCST Function FCEXEC MOD APICCO	05/11/2004
VI.5.3C-FCEXEC-MOD-APICQN	Program FCST Function FCEXEC MOD APICQN	05/11/2004
VI.5.3C-FCEXEC-MOD-BASEF	Program FCST Function FCEXEC MOD BASEF	05/11/2004
VI.5.3C-FCEXEC-MOD-BFRATE	Program FCST Function FCEXEC MOD BFRATE	05/11/2004
VI.5.3C-FCEXEC-MOD-BFRCHNG	Program FCST Function FCEXEC MOD BFRCHNG	05/11/2004
VI.5.3C-FCEXEC-MOD-BUBLSHFT	Program FCST Function FCEXEC MOD BUBLSHFT	05/11/2004
VI.5.3C-FCEXEC-MOD-CBASEF	Program FCST Function FCEXEC MOD CBASEF	05/11/2004
VI.5.3C-FCEXEC-MOD-CBFRATE	Program FCST Function FCEXEC MOD CBFRATE	05/11/2004
VI.5.3C-FCEXEC-MOD-CHGBLEND	Program FCST Function FCEXEC MOD CHGBLEND	05/11/2004
VI.5.3C-FCEXEC-MOD-IGNORETS	Program FCST Function FCEXEC MOD IGNORETS	05/11/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3C-FCEXEC-MOD-INCLUDE	Program FCST Function FCEXEC MOD INCLUDE	05/11/2004
VI.5.3C-FCEXEC-MOD-MATCHNG	Program FCST Function FCEXEC MOD MATCHNG	05/11/2004
VI.5.3C-FCEXEC-MOD-MFC	Program FCST Function FCEXEC MOD MFC	05/11/2004
VI.5.3C-FCEXEC-MOD-QCSHIFT	Program FCST Function FCEXEC MOD QCSHIFT	05/11/2004
VI.5.3C-FCEXEC-MOD-QPSHIFT	Program FCST Function FCEXEC MOD QPSHIFT	05/11/2004
VI.5.3C-FCEXEC-MOD-RAINSNOW	Program FCST Function FCEXEC MOD RAINSNOW	05/11/2004
VI.5.3C-FCEXEC-MOD-ROCHNG	Program FCST Function FCEXEC MOD ROCHNG	05/11/2004
VI.5.3C-FCEXEC-MOD-ROMULT	Program FCST Function FCEXEC MOD ROMULT	05/11/2004
VI.5.3C-FCEXEC-MOD-RRICHNG	Program FCST Function FCEXEC MOD RRICNG	05/11/2004
VI.5.3C-FCEXEC-MOD-RRIMULT	Program FCST Function FCEXEC MOD RRIMULT	05/11/2004
VI.5.3C-FCEXEC-MOD-SACBASEF	Program FCST Function FCEXEC MOD SACBASEF	05/11/2004
VI.5.3C-FCEXEC-MOD-SACCO	Program FCST Function FCEXEC MOD SACCO	05/11/2004
VI.5.3C-FCEXEC-MOD-SETMSNG	Program FCST Function FCEXEC MOD SETMSNG	05/11/2004
VI.5.3C-FCEXEC-MOD-SETQMEAN	Program FCST Function FCEXEC MOD SETQMEAN	05/11/2004
VI.5.3C-FCEXEC-MOD-SSARREG	Program FCST Function FCEXEC MOD SSARREG	05/11/2004
VI.5.3C-FCEXEC-MOD-SWITCHTS	Program FCST Function FCEXEC MOD SWITCHTS	05/11/2004
VI.5.3C-FCEXEC-MOD-TSADD	Program FCST Function FCEXEC MOD TSADD	05/11/2004
VI.5.3C-FCEXEC-MOD-TSCHNG	Program FCST Function FCEXEC MOD TSCHNG	05/11/2004
VI.5.3C-FCEXEC-MOD-TSMULT	Program FCST Function FCEXEC MOD TSMULT	05/11/2004
VI.5.3C-FCEXEC-MOD-TSREPL	Program FCST Function FCEXEC MOD TSREPL	05/11/2004
VI.5.3C-FCEXEC-MOD-UADJ	Program FCST Function FCEXEC MOD UADJ	05/11/2004
VI.5.3C-FCEXEC-MOD-UCBASEF	Program FCST Function FCEXEC MOD UCBASEF	05/11/2004
VI.5.3C-FCEXEC-MOD-UCBFRATE	Program FCST Function FCEXEC MOD UCBFRATE	05/11/2004
VI.5.3C-FCEXEC-MOD-UHGADJ	Program FCST Function FCEXEC MOD UHGADJ	05/11/2004
VI.5.3C-FCEXEC-MOD-UHGCDATE	Program FCST Function FCEXEC MOD UHGCDATE	11/20/2004
VI.5.3C-FCEXEC-MOD-UHGCHNG	Program FCST Function FCEXEC MOD UHGCHNG	11/20/2004
VI.5.3C-FCEXEC-MOD-WEADD	Program FCST Function FCEXEC MOD WEADD	05/11/2004
VI.5.3C-FCEXEC-MOD-WECHNG	Program FCST Function FCEXEC MOD WECHNG	05/11/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3C-FCEXEC-MOD-WEUPDATE	Program FCST Function FCEXEC MOD WEUPDATE	05/11/2004
VI.5.3C-FCEXEC-MOD-XINCO	Program FCST Function FCEXEC MOD XINCO	05/11/2004
VI.5.3C-FCEXEC-MOD-ZERODIFF	Program FCST Function FCEXEC MOD ZERODIFF	05/11/2004
VI.5.3C-FCEXEC-TECH	Program FCST Function FCEXEC HCL Techniques	10/20/2004
VI.5.3C-FMAP	Program FCST Future Mean Areal Precipitation Function (FMAP)	04/21/2005
VI.5.3C-FMAP-ERROR	Program FCST Function FMAP Error and Warning Messages	05/18/2004
VI.5.3C-FMAP-MODS	Program FCST Function FMAP Run Time Modifications (MODs)	05/19/2004
VI.5.3C-FMAP-TECH	Program FCST Function FMAP HCL Techniques	05/11/2004
VI.5.3C-FREEDATE	Program FCST Free Carryover Date Function (FREEDATE)	04/21/2005
VI.5.3C-FREEDATE-ERROR	Program FCST Function FREEDATE Error and Warning Messages	05/18/2004
VI.5.3C-FREEDATE-TECH	Program FCST Function FREEDATE HCL Techniques	05/11/2004
VI.5.3C-MAP	Program FCST Mean Areal Precipitation Function (MAP)	04/21/2005
VI.5.3C-MAP-ERROR	Program FCST Function MAP Error and Warning Messages	05/11/2004
VI.5.3C-MAP-TECH	Program FCST Function MAP HCL Techniques	05/11/2004
VI.5.3C-MAPE	Program FCST Mean Areal Potential Evaporation Function (MAPE)	05/11/2004
VI.5.3C-MAPE-ERROR	Program FCST Function MAPE Error and Warning Messages	05/18/2004
VI.5.3C-MAPE-TECH	Program FCST Function MAPE HCL Techniques	05/11/2004
VI.5.3C-MAPX	Program FCST NEXRAD Mean Areal Precipitation Function (MAPX)	05/11/2004
VI.5.3C-MAPX-ERROR	Program FCST Function MAPX Error and Warning Messages	05/11/2004
VI.5.3C-MAPX-TECH	Program FCST Function MAPX HCL Techniques	05/11/2004
VI.5.3C-MAT	Program FCST Mean Areal Temperature Function (MAT)	05/11/2004
VI.5.3C-MAT-ERROR	Program FCST Function MAT Error and Warning Messages	05/18/2004
VI.5.3C-MAT-TECH	Program FCST Function MAT HCL Techniques	05/11/2004
VI.5.3C-PRINTOPS	Program FCST Print Operations Carryover Function (PRINTOPS)	04/21/2005
VI.5.3C-PRINTOPS-ERROR	Program FCST Function PRINTOPS Error and Warning Messages	05/18/2004
VI.5.3C-PRINTOPS-TECH	Program FCST Function PRINTOPS HCL Techniques	05/11/2004
VI.5.3C-RRS	Program FCST River, Reservoir and Snow Function (RRS)	04/21/2005
VI.5.3C-RRS-ERROR	Program FCST Function RRS Error	05/18/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3C-RRS-MODS	and Warning Messages Program FCST Function RRS Run Time Modifications (MODs)	05/19/2004
VI.5.3C-RRS-TECH	Program FCST Function RRS HCL Techniques	05/11/2004
VI.5.3C-SAVE DATE	Program FCST Save Carryover Date Function (SAVE DATE)	05/11/2004
VI.5.3C-SAVE DATE-ERROR	Program FCST Function SAVE DATE Error and Warning Messages	05/11/2004
VI.5.3C-SAVE DATE-TECH	Program FCST Function SAVE DATE HCL Techniques	05/11/2004
VI.5.3D	Operational Forecast Program (FCST) Techniques	10/20/2004
VI.5.3D-ADJSIM	Program FCST Technique ADJSIM	06/08/2004
VI.5.3D-AREA	Program FCST HCL Technique AREA	06/08/2004
VI.5.3D-ASSIM	Program FCST HCL Technique ASSIM	10/20/2004
VI.5.3D-ASSMPAR	Program FCST HCL Technique ASSMPAR	06/08/2004
VI.5.3D-ASSMRUN	Program FCST HCL Technique ASSMRUN	06/08/2004
VI.5.3D-BASEPER	Program FCST HCL Technique BASEPER	06/08/2004
VI.5.3D-BLENPREC	Program FCST HCL Technique BLENPREC	10/20/2004
VI.5.3D-BLENTEMP	Program FCST HCL Technique BLENTEMP	10/20/2004
VI.5.3D-CGROUP	Program FCST HCL Technique CGROUP	06/08/2004
VI.5.3D-CONVEC	Program FCST HCL Technique CONVEC	06/08/2004
VI.5.3D-CRITERIA	Program FCST HCL Technique CRITERIA	06/08/2004
VI.5.3D-DISPOFF	Program FCST HCL Technique DISPOFF	06/08/2004
VI.5.3D-ENDRUN	Program FCST HCL Technique ENDRUN	06/08/2004
VI.5.3D-ESPADJQ	Program FCST HCL Technique ESPADJQ	06/08/2004
VI.5.3D-ESPINDIR	Program FCST HCL Technique ESPINDIR	03/04/2004
VI.5.3D-ESPOTDIR	Program FCST HCL Technique ESPOTDIR	03/04/2004
VI.5.3D-ESTTULSA	Program FCST HCL Technique ESTTULSA	06/08/2004
VI.5.3D-FCPRECP	Program FCST HCL Technique FCPRECP	04/21/2005
VI.5.3D-FFG	Program FCST HCL Technique FFG	06/08/2004
VI.5.3D-FGROUP	Program FCST HCL Technique FGROUP	06/08/2004
VI.5.3D-FREECGRP	Program FCST HCL Technique FREECGRP	06/08/2004
VI.5.3D-FREEDATE	Program FCST HCL Technique FREEDATE	06/08/2004
VI.5.3D-FREQPLOT	Program FCST HCL Technique FREQPLOT	06/08/2004
VI.5.3D-FROST	Program FCST HCL Technique FROST	06/08/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3D-FUTPRECP	Program FCST HCL Technique FUTPRECP	06/08/2004
VI.5.3D-HISTSIM	Program FCST HCL Technique HISTSIM	06/08/2004
VI.5.3D-HISTWYRS	Program FCST HCL Technique HISTWYRS	06/08/2004
VI.5.3D-KPTIME	Program FCST HCL Technique KPTIME	06/08/2004
VI.5.3D-LISTFGS	Program FCST HCL Technique LISTFGS	06/08/2004
VI.5.3D-LISTSEGS	Program FCST HCL Technique LISTSEGS	06/08/2004
VI.5.3D-LSTALLOW	Program FCST HCL Technique LSTALLOW	06/08/2004
VI.5.3D-LSTCMPDY	Program FCST HCL Technique LSTCMPDY	06/08/2004
VI.5.3D-METRIC	Program FCST HCL Technique METRIC	06/08/2004
VI.5.3D-MODAPIUN	Program FCST HCL Technique MODAPIUN	06/08/2004
VI.5.3D-MODSACUN	Program FCST HCL Technique MODSACUN	06/08/2004
VI.5.3D-MODTZC	Program FCST HCL Technique MODTZC	06/08/2004
VI.5.3D-MODUNITS	Program FCST HCL Technique MODUNITS	06/08/2004
VI.5.3D-MODWARN	Program FCST HCL Technique MODWARN	06/08/2004
VI.5.3D-NOEST6HR	Program FCST HCL Technique NOEST6HR	06/08/2004
VI.5.3D-NOUTDS	Program FCST HCL Technique NOUTDS	04/21/2005
VI.5.3D-NOUTZ	Program FCST HCL Technique	NOUTZ 04/21/2005
VI.5.3D-NUMCOSAV	Program FCST HCL Technique NUMCOSAV	06/08/2004
VI.5.3D-OBSFUTWN	Program FCST HCL Technique OBSFUTWN	06/08/2004
VI.5.3D-ONESEG	Program FCST HCL Technique ONESEG	06/08/2004
VI.5.3D-PAGESIZE	Program FCST HCL Technique PAGESIZE	06/08/2004
VI.5.3D-PLOTHYD	Program FCST HCL Technique PLOTHYD	06/08/2004
VI.5.3D-PP24MAX	Program FCST HCL Technique PP24MAX	06/08/2004
VI.5.3D-PP24TIME	Program FCST HCL Technique PP24TIME	04/21/2005
VI.5.3D-PQPFTIME	Program FCST HCL Technique PQPFTIME	06/08/2004
VI.5.3D-PREADJ	Program FCST HCL Technique PREADJ	06/08/2004
VI.5.3D-PRINTOUT	Program FCST HCL Technique PRINTOUT	06/08/2004
VI.5.3D-PRINTSMA	Program FCST HCL Technique PRINTSMA	06/08/2004
VI.5.3D-PRINTSNW	Program FCST HCL Technique	06/08/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3D-PRLASTDY	PRINTSNW Program FCST HCL Technique PRLASTDY	06/08/2004
VI.5.3D-PRNTCGRP	Program FCST HCL Technique PRNTCGRP	06/08/2004
VI.5.3D-PRNTDATE	Program FCST HCL Technique PRNTDATE	06/08/2004
VI.5.3D-PRNTFGRP	Program FCST HCL Technique PRNTFGRP	06/08/2004
VI.5.3D-PRNTFMAP	Program FCST HCL Technique PRNTFMAP	06/08/2004
VI.5.3D-PRNTLAST	Program FCST HCL Technique PRNTLAST	06/08/2004
VI.5.3D-PRNTOPER	Program FCST HCL Technique PRNTOPER	06/08/2004
VI.5.3D-PRSF	Program FCST HCL Technique	PRSF 06/08/2004
VI.5.3D-PRTDAYS	Program FCST HCL Technique PRTDAYS	06/08/2004
VI.5.3D-PRTMAP	Program FCST HCL Technique PRTMAP	06/08/2004
VI.5.3D-PRTMAPE	Program FCST HCL Technique PRTMAPE	06/08/2004
VI.5.3D-PRTMAT	Program FCST HCL Technique PRTMAT	06/08/2004
VI.5.3D-PRTPP24	Program FCST HCL Technique PRTPP24	07/22/2004
VI.5.3D-PRTPP6	Program FCST HCL Technique PRTPP6	07/22/2004
VI.5.3D-PRTRCI	Program FCST HCL Technique PRTRCI	06/08/2004
VI.5.3D-PRTRO	Program FCST HCL Technique	PRTRO 06/08/2004
VI.5.3D-PRTT24	Program FCST HCL Technique PRTT24	06/08/2004
VI.5.3D-PRTTFUT	Program FCST HCL Technique PRTTFUT	06/08/2004
VI.5.3D-PRTTINST	Program FCST HCL Technique PRTTINST	06/08/2004
VI.5.3D-REGULATE	Program FCST HCL Technique REGULATE	07/22/2004
VI.5.3D-RRSALLOB	Program FCST HCL Technique RRSALLOB	06/08/2004
VI.5.3D-RRSALLTS	Program FCST HCL Technique RRSALLTS	06/08/2004
VI.5.3D-RRSINMOB	Program FCST HCL Technique RRSINMOB	06/08/2004
VI.5.3D-RRSINMTS	Program FCST HCL Technique RRSINMTS	06/08/2004
VI.5.3D-RRSINQOB	Program FCST HCL Technique RRSINQOB	06/08/2004
VI.5.3D-RRSINQTS	Program FCST HCL Technique RRSINQTS	06/08/2004
VI.5.3D-RRSMNMOB	Program FCST HCL Technique RRSMNMOB	06/08/2004
VI.5.3D-RRSMNMTS	Program FCST HCL Technique RRSMNMTS	06/08/2004
VI.5.3D-RRSMNQOB	Program FCST HCL Technique	07/22/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3D-RRSMNQTS	RRSMNQOB Program FCST HCL Technique RRSMNQTS	06/08/2004
VI.5.3D-RRSRESOB	Program FCST HCL Technique RRSRESOB	06/08/2004
VI.5.3D-RRSRESTS	Program FCST HCL Technique RRSRESTS	06/08/2004
VI.5.3D-RRSSTGTS	Program FCST HCL Technique RRSSTGTS	06/08/2004
VI.5.3D-RWWARN	Program FCST HCL Technique RWWARN	06/08/2004
VI.5.3D-SACSNOW	Program FCST HCL Technique SACSNOW	06/08/2004
VI.5.3D-SAVECGRP	Program FCST HCL Technique SAVECGRP	06/08/2004
VI.5.3D-SAVEDATE	Program FCST HCL Technique SAVEDATE	06/08/2004
VI.5.3D-SAVETDY	Program FCST HCL Technique SAVETDY	06/08/2004
VI.5.3D-SKIPBLND	Program FCST HCL Technique SKIPBLND	10/20/2004
VI.5.3D-SNOW	Program FCST HCL Technique	SNOW 07/22/2004
VI.5.3D-STARTESP	Program FCST HCL Technique STARTESP	06/08/2004
VI.5.3D-STARTRUN	Program FCST HCL Technique STARTRUN	06/08/2004
VI.5.3D-STNPE	Program FCST HCL Technique	STNPE 06/08/2004
VI.5.3D-TABLES	Program FCST HCL Technique TABLES	06/08/2004
VI.5.3D-UPSC	Program FCST HCL Technique	UPSC 06/08/2004
VI.5.3D-UPWE	Program FCST HCL Technique	UPWE 06/08/2004
VI.5.3D-VAROFF	Program FCST HCL Technique VAROFF	06/08/2004
VI.5.3D-WINDOWS	Program FCST HCL Technique WINDOWS	06/08/2004
VI.5.3D-WSUNITS	Program FCST HCL Technique WSUNITS	06/08/2004
VI.5.3D-WTEST24	Program FCST HCL Technique WTEST24	06/08/2004
VI.5.3D-YRWEIGHT	Program FCST HCL Technique YRWEIGHT	06/08/2004
VI.5.3E	Daylight Savings and Standard Time Change	06/08/2004
VI.5.4	Other Forecast System Programs	10/20/2004
VI.5.4-IFP	Operational Forecast System Interactive Forecast Program (IFP)	12/20/2004
VI.5.4-NDFD2RFS	National Digital Forecast Database (NDFD) to OFS Future Mean Areal Temperature (FMAT) Preprocessor (NDFD2RFS)	12/20/2004
VI.5.4-XDAT	INFORMIX SHEF Data Utility Program (XDAT)	03/21/2001
VI.5.4-XDAT-PARM	XDAT Parameter Files	10/20/2004
VI.5.4-XDAT-UTIL	XDAT Utility Programs	04/21/2005
VI.5.4-XNAV	INFORMIX Database, Gridded Data	03/09/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	and OFS Processed Data Base Display Program (XNAV)	
VI.5.4-XNAV-PARM	XNAV Parameter Files	10/20/2004
VI.5.4-XNAV-UTIL	XNAV Utility Programs	04/21/2005
VI.5.4-XSETS	SHEF Encoded Time Series Program (XSETS)	03/09/2004
VI.5.4-XSETS-CONFIG	XSETS Configuration File Format	03/21/2001
VI.5.4-XSETS-EXAMPLES	XSETS Examples	03/21/2001
VI.5.5-FFG	Flash Flood Guidance System Execution	04/21/2005
VI.5.5-FFG-FFGUID	Flash Flood Guidance Computation Program (FFGUID)	04/21/2005
VI.5.5-FFG-GRIBIT	XMRG File to GRIB File Encoder Program (GRIBIT)	04/21/2005
VI.5.5-FFG-PRODGEN	Flash Flood Guidance Product Generation Program (PRODGEN)	04/21/2005
VI.5.5-FFG-ZGRID	Convert FFG Areal Zone Runoff to HRAP Grid Runoff Using Program ZGRID	04/21/2005
VI.5.5A-FFGUID	Flash Flood Guidance Execution (Program FFGUID)	01/22/1998
VI.5.5B-FFGPROD	Flash Flood Guidance Product Generation Execution (Program PRODGEN)	08/27/1997
VI.5.5C-FFGDGRIB	GRIB Decoder Execution	01/28/1999
VI.5.5D-ZGRID	Convert Zone to Grid Runoff (FFG)	01/28/1999
VI.6	Forecast System Utilities	10/22/1998
VI.6.1	Introduction to Utility Programs	10/22/1998
VI.6.3-PPDUTIL	Preprocessor Data Base Utility Program (PPDUTIL)	07/22/2004
VI.6.3-PPDUTIL-CHECKRRS	Program PPDUTIL Command CHECKRRS	05/02/2003
VI.6.3-PPDUTIL-DELRRS	Program PPDUTIL Command DELRRS	05/02/2003
VI.6.3-PPDUTIL-DUMPOBS	Program PPDUTIL Command DUMPOBS	05/02/2003
VI.6.3-PPDUTIL-DUMPPP24	Program PPDUTIL Command DUMPPP24	05/02/2003
VI.6.3-PPDUTIL-DUMPSHEF	Program PPDUTIL Command DUMPSHEF	05/02/2003
VI.6.3-PPDUTIL-DUMPSTAT	Program PPDUTIL Command DUMPSTAT	05/02/2003
VI.6.3-PPDUTIL-EDITDLY	Program PPDUTIL Command EDITDLY	05/02/2003
VI.6.3-PPDUTIL-EDITRRS	Program PPDUTIL Command EDITRRS	05/02/2003
VI.6.3-PPDUTIL-PAGESIZE	Program PPDUTIL Command PAGESIZE	05/02/2003
VI.6.3-PPDUTIL-RLSEFREE	Program PPDUTIL Command RLSEFREE	05/02/2003
VI.6.3-PPDUTIL-RRSFREE	Program PPDUTIL Command RRSFREE	05/02/2003
VI.6.3-PPDUTIL-RSETSTAT	Program PPDUTIL Command RSETSTAT	05/15/2003
VI.6.3-PPDUTIL-SETTODAY	Program PPDUTIL Command SETTODAY	05/02/2003
VI.6.3-PPDUTIL-STATION	Program PPDUTIL Command STATION	05/02/2003
VI.6.3-PPDUTIL-STATUS	Program PPDUTIL Command STATUS	05/02/2003
VI.6.3-PPDUTIL-STOP	Program PPDUTIL Command STOP	05/02/2003
VI.6.3-PPDUTIL-UNITS	Program PPDUTIL Command UNITS	05/02/2003
VI.6.3-PPDUTIL-UNSDFREE	Program PPDUTIL Command UNSDFREE	05/02/2003
VI.6.4-PRDUTIL	Processed Data Base Utility Program (PRDUTIL)	10/20/2004
VI.6.4-PRDUTIL-DEFTYPE	Program PRDUTIL Command DEFTYPE	04/30/2003
VI.6.4-PRDUTIL-DELTYPE	Program PRDUTIL Command DELTYPE	04/30/2003
VI.6.4-PRDUTIL-DUMPSHEF	Program PRDUTIL Command DUMPSHEF	04/30/2003
VI.6.4-PRDUTIL-PAGESIZE	Program PRDUTIL Command PAGESIZE	04/21/2005
VI.6.4-PRDUTIL-STATUS	Program PRDUTIL Command STATUS	04/30/2003

NWSRFS USER MANUAL ALL USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.6.4-PRDUTIL-STOP	Program PRDUTIL Command STOP	04/30/2003
VI.6.4-PRDUTIL-TSDATA	Program PRDUTIL Command TSDATA	04/30/2003
VI.6.4-PRDUTIL-TSEEDIT	Program PRDUTIL Command TSEEDIT	04/30/2003
VI.6.4-PRDUTIL-TSHDRS	Program PRDUTIL Command TSHDRS	04/30/2003
VI.7	Operational Forecast System File REORDER Program (REORDER)	07/22/2004
VI.7-COPY	Program REORDER Command COPY	04/30/2003
VI.7-INITFILE	Program REORDER Command INITFILE	07/22/2004
VI.7-ORDER	Program REORDER Command ORDER	04/30/2003
VI.7-OVERPRNT	Program REORDER Command OVERPRNT	04/30/2003
VI.7-STATUS	Program REORDER Command STATUS	04/30/2003
VI.7-STOP	Program REORDER Command STOP	04/30/2003

NWSRFS USER MANUAL ALL USER OUTLINE

PART VII - System Documentation - Calibration

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
VII.1	Introduction to System Documentation for the Calibration System	04/21/2005
VII.2	Calibration System Data File Formats	05/25/1999
VII.2-DATACARD	Calibration System DATACARD File Format	07/22/2004
VII.5	Calibration System Automatic Parameter Optimization Program (OPT3) System Documentation	07/25/2002
VII.5.3	Automatic Parameter Optimization Program (OPT3) Source Code Description	07/25/2002
VII.7-DATACARD	Calibration System DATACARD File Read/Write Routines	08/14/2003
VII.7-DATACARD-CARDHD	SUBROUTINE CARDHD	08/14/2003
VII.7-DATACARD-CARDIO	SUBROUTINE CARDIO	08/14/2003
VII.7-DATACARD-CARDLO	SUBROUTINE CARDLO	03/09/2004
VII.7-DATACARD-CARDRD	SUBROUTINE CARDRD	08/14/2003
VII.7-DATACARD-CARDWT	SUBROUTINE CARDWT	08/14/2003
VII.7-DATACARD-CLFILE	SUBROUTINE CLFILE	08/14/2003
VII.7-DATACARD-OPFILE	SUBROUTINE OPFILE	08/14/2003

NWSRFS USER MANUAL ALL USER OUTLINE

PART VIII - System Documentation - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
VIII.1	Introduction to System Documentation for Operations	04/21/2005
VIII.2	Description of Forecast Component Internal Arrays	04/21/2005
VIII.2-ARRAY_C	Forecast Component Internal Array C	03/20/2002
VIII.2-ARRAY_D	Forecast Component Internal Array D	03/20/2002
VIII.2-ARRAY_P	Forecast Component Internal Array P	03/20/2002
VIII.2-ARRAY_T	Forecast Component Internal Array T	03/20/2002
VIII.2-ARRAY_TS	Forecast Component Internal Array TS	03/20/2002
VIII.3	Forecast Component Operations System Documentation	04/21/2005
VIII.3.2	Forecast Component Operation Numbers and Identifiers	04/21/2005
VIII.3.3	Description of Forecast Component Operations	04/21/2005
VIII.3.3-ADD/SUB	Add or Subtract Time Series Operation	06/28/2001
VIII.3.3-ADJUST-H	Adjust Stage Operation	05/15/2003
VIII.3.3-ADJUST-Q	Adjust Simulated Discharge Operation	02/13/2002
VIII.3.3-ADJUST-T	Adjust Tide Operation	05/15/2003
VIII.3.3-API-CIN	Cincinnati (OHRFC) API-Runoff Operation	08/08/2003
VIII.3.3-API-CONT	Continuous Incremental API Operation	03/09/2004
VIII.3.3-API-HAR	Harrisburg (MARFC) API-Runoff Operation	12/10/2003
VIII.3.3-API-HAR2	Modified Harrisburg (MARFC) API-Runoff Operation	08/08/2003
VIII.3.3-API-HFD	Hartford (NERFC) API-Runoff Operation	01/16/2003
VIII.3.3-API-MKC	Kansas City (MBRFC) API-Runoff Operation	01/16/2003
VIII.3.3-API-SLC	Salt Lake City (CBRFC) API-Runoff Operation	08/08/2003
VIII.3.3-ASSIM	End of Operations to be Re-executed by Assimilator Operation	03/05/2002
VIII.3.3-BASEFLOW	Baseflow Simulation Operation	01/11/2002
VIII.3.3-BEGASSIM	Beginning of Operations to be Re-executed by Assimilator Operation	05/01/2002
VIII.3.3-BEGASSIM-TAB49	SUBROUTINE TAB49	09/19/1996
VIII.3.3-CHANGE-T	Change Time Series Data Time Interval Operation	04/15/2002
VIII.3.3-CHANLOSS	Channel Loss Operation	08/08/2003
VIII.3.3-CLEAR-TS	Clear Time Series Operation	06/28/2001
VIII.3.3-CONS_USE	Consumptive Use Operation	06/06/2003
VIII.3.3-DELTA-TS	Rate of Change of Time Series	04/15/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART VIII - System Documentation - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VIII.3.3-DWOPER	Operation Dynamic Wave Routing Operation	01/16/2003
VIII.3.3-FFG	Flash Flood Guidance Operation	06/03/2003
VIII.3.3-GLACIER	Glacier Routing Operation	10/10/2003
VIII.3.3-INSQPLOT	Instantaneous Discharge Plot Operation	04/27/2004
VIII.3.3-LAG/K	LAG and K Routing Operation	02/08/2001
VIII.3.3-LAY-COEF	Layered Coefficient Routing Operation	06/28/2001
VIII.3.3-LIST-FTW	Fort Worth Tabular Time Series Output Operation	03/26/2002
VIII.3.3-LIST-MSP	Minneapolis API Tabulation Operation	08/23/2002
VIII.3.3-LOOKUP	2 Variable Table Lookup Operation	06/28/2001
VIII.3.3-LOOKUP3	3 Variable Table Lookup Operation	06/28/2001
VIII.3.3-MEAN-Q	Mean Discharge Computation Operation	02/13/2002
VIII.3.3-MERGE-TS	Merge Time Series Operation	06/21/1999
VIII.3.3-MULT/DIV	Multiply/Divide Time Series Operation	12/06/2000
VIII.3.3-MUSKROUT	Muskingum Routing Operation	07/15/1999
VIII.3.3-NOMSNG	No Missing Values Time Series Operation	06/28/2001
VIII.3.3-PEAKFLOW	Peak Flow Operation	06/28/2001
VIII.3.3-PLOT-TS	Plot Time Series Operation	06/28/2001
VIII.3.3-PLOT-TUL	Tulsa Time Series List and Plot Operation	03/25/2002
VIII.3.3-RES-J	Joint Reservoir Regulation Operation	11/04/2004
VIII.3.3-RES-SNGL	Single Reservoir Regulation Operation	03/09/2004
VIII.3.3-RES-SNGL-CO	Single Reservoir Regulation Operation CO Array Layout for Specific Carryover	03/09/2004
VIII.3.3-RES-SNGL-PO-1	Single Reservoir Regulation Operation PO Array Layout for General and Specific Parameters and Time Series	03/09/2004
VIII.3.3-RES-SNGL-PO-2	Single Reservoir Regulation Operation Reservoir Command Language (RCL) Storage Format	03/09/2004
VIII.3.3-RES-SNGL-PO-3	Single Reservoir Regulation Operation IF Expression Storage Format	03/09/2004
VIII.3.3-RES-SNGL-PO-4	Single Reservoir Regulation Operation User Variable Storage Format	03/09/2004
VIII.3.3-RSNWELEV	Rain-Snow Elevation Operation	12/06/2000
VIII.3.3-SAC-PLOT	Sacramento Type Mean Daily Flow Plot Operation	06/28/2001
VIII.3.3-SAC-SMA	Sacramento Soil Moisture Accounting Operation	03/05/2004
VIII.3.3-SARROUTE	SSARR Channel Routing Operation	05/15/2003
VIII.3.3-SET-TS	Set Time Series Values Operation	03/18/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART VIII - System Documentation - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VIII.3.3-SNOW-17	HYDRO-17 Snow Model Operation	05/22/2003
VIII.3.3-SNOW-43	NWS-43 Snow Model Operation	08/28/2002
VIII.3.3-SS-SAC	State Space Sacramento Model Operation	03/25/2002
VIII.3.3-SSARRESV	SSARR Reservoir Regulation Operation	05/30/2003
VIII.3.3-STAGE-Q	Stage Discharge Conversion Operation	02/13/2002
VIII.3.3-STAGEREV	Stage Review Operation	05/15/2003
VIII.3.3-STAT-QME	Mean Daily Discharge Statistical Summary Operation	04/25/2002
VIII.3.3-SUMPOINT	Time Series Summing Point Operation	12/06/2000
VIII.3.3-SWB-NILE	Simple Water Balance Model Operation	06/28/2001
VIII.3.3-TATUM	Tatum Routing Operation	02/08/2001
VIII.3.3-TIDEREV	Tide Balance Review Operation	04/27/2004
VIII.3.3-UNIT-HG	Unit Hydrograph Operation	02/08/2001
VIII.3.3-WATERBAL	Water Balance Summary Operation	09/26/2001
VIII.3.3-WEIGH-TS	Weight Time Series Operation	09/18/2002
VIII.3.3-WY-PLOT	Water Year Mean Daily Flow Plot Operation	07/15/1999
VIII.3.3-XIN-SMA	Xinjiang Soil Moisture Accounting Operation	10/30/2002
VIII.4	How to Add a Forecast Component Operation	03/22/2002
VIII.4.1	Introduction to Adding a Forecast Component Operation	11/22/2002
VIII.4.2	Subroutines Needed for a Forecast Component Operation	11/22/2002
VIII.4.2-COX	Forecast Component Operation Carryover Transfer Subroutine (COXn)	03/22/2002
VIII.4.2-EX	Forecast Component Operation Execution Subroutine (EXn)	03/22/2002
VIII.4.2-PIN	Forecast Component Operation Parameter Input Subroutine (PINn)	03/22/2002
VIII.4.2-PRC	Forecast Component Operation Carryover PPINIT Subroutine (PRCn)	03/22/2002
VIII.4.2-PRP	Forecast Component Operation Parameter Print Subroutine (PRPn)	03/22/2002
VIII.4.2-PUC	Forecast Component Operation Punch Subroutine (PUCn)	03/22/2002
VIII.4.2-TAB	Forecast Component Operations Table Entry Subroutine (TABn)	03/22/2002
VIII.4.3	Documentation Needed for a Forecast Component Operation	11/22/2002
VIII.4.3A	Forecast Component Operation User Documentation	03/22/2002
VIII.4.3B	Forecast Component Operation System Documentation	03/22/2002

NWSRFS USER MANUAL ALL USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	[Next] [Previous] [Bookmarks] [Top]	
IX.1	Introduction to System Documentation for the Forecast Systems	04/21/2005
IX.2	Forecast System Maintenance	04/21/2005
IX.2.1	Forecast System General Information	07/22/2004
IX.2.2A	Forecast System Function Numbers	07/22/2004
IX.3	Forecast System Source Code Description	04/21/2005
IX.3.0	Forecast System Hydrologic Command Language (HCL) and General Utility Source Code Description	04/21/2005
IX.3.0A	Introduction to the Hydrologic Command Language (HCL) and General Utility Source Code Description	04/21/2005
IX.3.2	Forecast System PPINIT and Preprocessor Functions Source Code Description	04/21/2005
IX.3.2A	Introduction to the Program PPINIT and Program FCST Preprocessor Functions Source Code Description	04/21/2005
IX.3.2B	Forecast System Program PPINIT and Program FCST Preprocessor Functions Subroutine Descriptions	04/21/2005
IX.3.2C	Forecast System Program PPINIT and Program FCST Preprocessor Functions Common Block Descriptions	04/21/2005
IX.3.3	Forecast System Program FCINIT and Program FCST Forecast Functions Source Code Description	04/21/2005
IX.3.3A	Introduction to the Forecast System Program FCINIT and Program FCST Forecast Functions Source Code Description	04/21/2005
IX.3.4	Forecast System Preprocessor Data Base Read/Write Source Code Description	10/20/2004
IX.3.4A	Introduction to the Preprocessor Data Base Read/Write Source Code Description	10/20/2004
IX.3.4B	Preprocessor Data Base Read/Write Subroutine Descriptions	11/10/2004
IX.3.4B-RPDDLY	SUBROUTINE RPDDLY	10/20/2004
IX.3.4B-RPDDTE	SUBROUTINE RPDDTE	10/20/2004
IX.3.4B-RPDFIL	SUBROUTINE RPDFIL	10/20/2004
IX.3.4B-RPDHSH	SUBROUTINE RPDHSH	10/20/2004
IX.3.4B-RPDID	SUBROUTINE RPDID	10/20/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.4B-RPDLRS	SUBROUTINE RPDLRS	10/20/2004
IX.3.4B-RPDRRS	SUBROUTINE RPDRRS	12/08/2004
IX.3.4B-RPD1S	SUBROUTINE RPD1S	10/20/2004
IX.3.4B-RPD1SF	SUBROUTINE RPD1SF	10/20/2004
IX.3.4B-RPPDCO	SUBROUTINE RPPDCO	10/20/2004
IX.3.4B-WPDRRS	SUBROUTINE WPDRRS	04/21/2005
IX.3.4B-WPD1S	SUBROUTINE WPD1S	10/20/2004
IX.3.4B-WPD1SF	SUBROUTINE WPD1SF	10/20/2004
IX.3.4B-WPPDCO	SUBROUTINE WPPDCO	10/20/2004
IX.3.5	Forecast System Processed Data Base Read/Write Source Code Description	10/20/2004
IX.3.5A	Introduction to the Processed Data Base Read/Write Source Code Description	10/20/2004
IX.3.5B	Processed Data Base Read/Write Subroutine Descriptions	11/10/2004
IX.3.5B-IPRDMD	FUNCTION IPRDMD	10/20/2004
IX.3.5B-IPRDMF	FUNCTION IPRDMF	10/20/2004
IX.3.5B-IPRDMR	FUNCTION IPRDMR	10/20/2004
IX.3.5B-IPRDWC	FUNCTION IPRDWC	10/20/2004
IX.3.5B-RPDBCI	SUBROUTINE RPDBCI	10/20/2004
IX.3.5B-RPRD,RPRDF	SUBROUTINES RPRD and RPRDF	10/20/2004
IX.3.5B-RPRDD,RPRDDF	SUBROUTINES RPRDD and RPRDDF	10/20/2004
IX.3.5B-RPRDH,RPRDFH	SUBROUTINES RPRDH and RPRDFH	10/20/2004
IX.3.5B-WPRDD,WPRDDF	SUBROUTINES WPRDD and WPRDDF	10/20/2004
IX.3.6	Forecast System Preprocessor Parametric Data Base Read/Write Source Code Description	11/17/2004
IX.3.6A	Preprocessor Parametric Data Base Read/Write Subroutine Descriptions	10/20/2004
IX.3.6B	Introduction to the Preprocessor Parametric Base Read/Write Source Code Description	11/10/2004
IX.3.6B-RPPCHR	SUBROUTINE RPPCHR	10/20/2004
IX.3.6B-RPPMT	SUBROUTINE RPPMT	10/20/2004
IX.3.6B-RPPPCO	SUBROUTINE RPPPCO	10/20/2004
IX.3.6B-RPPREC	SUBROUTINE RPPREC	10/20/2004
IX.3.6B-RPP1CH	SUBROUTINE RPP1CH	10/20/2004
IX.3.6B-RPP1MT	SUBROUTINE RPP1MT	10/20/2004
IX.3.7	Forecast System Forecast Component Data Base Read/Write Source Code Description	04/21/2005
IX.3.7A	Introduction to the Forecast Component Data Base Read/Write Source Code Description	04/21/2005
IX.3.7B	Forecast System Forecast Component Data Base Read/Write Subroutine Descriptions	04/21/2005
IX.3.7B-FGETCO	SUBROUTINE FGETCO	10/20/2004
IX.3.7B-FGETRC	SUBROUTINE FGETRC	12/18/2001
IX.3.7B-FGETSG	SUBROUTINE FGETSG	12/18/2001
IX.3.7B-FIDFLT	SUBROUTINE FIDFLT	12/18/2001
IX.3.7B-INSTRT	SUBROUTINE INSTRT	12/18/2001
IX.4	Forecast Systems Data File and	04/21/2005

NWSRFS USER MANUAL ALL USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	Data Base Descriptions	
IX.4-DATATYPE	System File DATATYPE	04/21/2005
IX.4-DATAUNIT	System File DATAUNIT	04/21/2005
IX.4-FILEUNIT	System File FILEUNIT	04/21/2005
IX.4-FS5FLDCB	System File FS5FLDCB	04/21/2005
IX.4-PRD2SHEF	System File PRD2SHEF	04/21/2005
IX.4-RRSTYPE2	System File RRSTYPE2	04/21/2005
IX.4-USERPARM	System File USERPARM	04/21/2005
IX.4.0	Forecast System Hydrologic Command Language Data Base Description	04/21/2005
IX.4.0A	Introduction to the Hydrologic Command Language Data Base Description	04/21/2005
IX.4.0B	Hydrologic Command Language Data Base File Descriptions	07/22/2004
IX.4.0B-HCLCARDS	Hydrologic Command Language File HCLCARDS	07/22/2004
IX.4.0B-HCLDEFIN	Hydrologic Command Language File HCLDEFIN	07/22/2004
IX.4.0B-HCLDFLTS	Hydrologic Command Language File HCLDFLTS	07/22/2004
IX.4.0B-HCLINDEX	Hydrologic Command Language File HCLINDEX	07/22/2004
IX.4.0B-HCLLDFLT	Hydrologic Command Language File HCLLDFLT	07/22/2004
IX.4.0B-HCLOPTNS	Hydrologic Command Language File HCLOPTNS	07/22/2004
IX.4.0B-HCLPROC	Hydrologic Command Language File HCLPROC	10/20/2004
IX.4.1	Forecast System Data Entry Data Files	04/21/2005
IX.4.1-VL2V5	OFSDE/BATCHPST File vl2v5.buf	04/21/2005
IX.4.1A-SHEF	Introduction to Standard Hydrologic Exchange Format (SHEF) File Descriptions	10/20/2004
IX.4.1B-SHEF-SHEFOUT	Standard Hydrologic Exchange Format (SHEF) File SHEFOUT	10/20/2004
IX.4.1B-SHEF-SHEFPARM	Standard Hydrologic Exchange Format (SHEF) File SHEFPARM	10/20/2004
IX.4.1B-SHEF-SHEFPPDB	Standard Hydrologic Exchange Format (SHEF) File SHEFPPDB	10/20/2004
IX.4.2	Forecast System Preprocessor Data Base Description	07/22/2004
IX.4.2A	Introduction to the Preprocessor Data Base Description	04/21/2005
IX.4.2B	Preprocessor Data Base File Descriptions	07/22/2004
IX.4.2B-PDBDLYn	Preprocessor Data Base File PDBDLYn	07/22/2004
IX.4.2B-PDBINDEX	Preprocessor Data Base File PDBINDEX	07/22/2004
IX.4.2B-PDBRRS	Preprocessor Data Base File PDBRRS	07/22/2004
IX.4.3	Forecast System Preprocessor Parametric Data Base Description	04/21/2005

NWSRFS USER MANUAL ALL USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.4.3A	Introduction to the Preprocessor Parametric Data Base Description	04/21/2005
IX.4.3B	Preprocessor Parametric Data Base File Descriptions	07/22/2004
IX.4.3B-PPPINDEX	Preprocessor Parametric Data Base File PPPINDEX	07/22/2004
IX.4.3B-PPPPARMn	Preprocessor Parametric Data Base File PPPPARMn	07/22/2004
IX.4.3C	Preprocessor Parametric Data Base Parameter Array Contents	10/20/2004
IX.4.3C-ASSM	Preprocessor Parametric Data Base Parameter Array ASSM: Assimilator Operation Parameters	07/22/2004
IX.4.3C-BASN	Preprocessor Parametric Data Base Parameter Array BASN: Basin Boundary Parameters	07/22/2004
IX.4.3C-FFG	Preprocessor Parametric Data Base Parameter Array FFG: Flash Flood Guidance Operation Parameters	07/22/2004
IX.4.3C-FMPO	Preprocessor Parametric Data Base Parameter Array FMPO: Future MAP Computational Order Parameters	07/22/2004
IX.4.3C-GENL	Preprocessor Parametric Data Base Parameter Array GENL: Station General Parameters	07/22/2004
IX.4.3C-MAP	Preprocessor Parametric Data Base Parameter Array MAP: Mean Areal Precipitation (MAP) Area Parameters	07/22/2004
IX.4.3C-MAPE	Preprocessor Parametric Data Base Parameter Array MAPE: Mean Areal Potential Evaporation (MAPE) Area Parameters	07/22/2004
IX.4.3C-MAPS	Preprocessor Parametric Data Base Parameter Array MAPS: Mean Areal Precipitation (MAP) Station Parameters	07/22/2004
IX.4.3C-MAPX	Preprocessor Parametric Data Base Parameter Array MAPX: NEXRAD Mean Areal Precipitation Parameters	07/22/2004
IX.4.3C-MAT	Preprocessor Parametric Data Base Parameter Array MAT: Mean Areal Precipitation (MAT) Area Parameters	07/22/2004
IX.4.3C-MPCO	Preprocessor Parametric Data Base Parameter Array MPCO: MAP Carryover Group Computational Order Parameters	07/22/2004
IX.4.3C-MPFO	Preprocessor Parametric Data Base Parameter Array MPFO: MAP Forecast Group Computational Order Parameters	07/22/2004
IX.4.3C-MXCO	Preprocessor Parametric Data	07/22/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.4.3C-NTWK	Base Parameter Array MXCO: MAPX Computational Order Parameters Preprocessor Parametric Data Base Parameter Array NTWK: Network Computation Indicator Parameters	07/22/2004
IX.4.3C-OE24	Preprocessor Parametric Data Base Parameter Array OE24: Potential Evaporation Station Alphabetical Order Parameters	07/22/2004
IX.4.3C-OP24	Preprocessor Parametric Data Base Parameter Array OP24: 24 Hour Precipitation Station Alphabetical Order Parameters	07/22/2004
IX.4.3C-OPVR	Preprocessor Parametric Data Base Parameter Array OPVR: Less Than 24 Hour Precipitation Station Alphabetical Order Parameters	07/22/2004
IX.4.3C-ORDR	Preprocessor Parametric Data Base Parameter Array ORDR: Computation Order General Parameters	07/22/2004
IX.4.3C-ORRS	Preprocessor Parametric Data Base Parameter Array ORRS: River, Reservoir and Snow (RRS) Station Alphabetical Order Parameters	07/22/2004
IX.4.3C-OT24	Preprocessor Parametric Data Base Parameter Array OT24: 24 Hour Maximum/Minimum Temperature Station Alphabetical Order Parameters	07/22/2004
IX.4.3C-PCPN	Preprocessor Parametric Data Base Parameter Array PCPN: Station Precipitation Parameters	07/22/2004
IX.4.3C-PE	Preprocessor Parametric Data Base Parameter Array PE: Station Potential Evaporation Parameters	07/22/2004
IX.4.3C-RRS	Preprocessor Parametric Data Base Parameter Array RRS: Station River, Reservoir and Snow Parameters	07/22/2004
IX.4.3C-STBN	Preprocessor Parametric Data Base Parameter Array STBN: State Boundaries Parameters	07/22/2004
IX.4.3C-TEMP	Preprocessor Parametric Data Base Parameter Array TEMP: Station Temperature Parameters	07/22/2004
IX.4.3C-URRS	Preprocessor Parametric Data Base Parameter Array URRS: User River, Reservoir and Snow Parameters	07/22/2004
IX.4.3C-USER	Preprocessor Parametric Data Base Parameter Array USER: User General Parameters	07/22/2004

NWSRFS USER MANUAL ALL USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.4.3C-XGRD	Preprocessor Parametric Data Base Parameter Array XGRD: MAPX Grid Point Definition Parameters	07/22/2004
IX.4.4	Forecast System Processed Data Base Description	07/22/2004
IX.4.4A	Introduction to the Processed Data Base Description	04/21/2005
IX.4.4B	Processed Data Base File Descriptions	07/22/2004
IX.4.4B-PRDINDEX	Processed Data Base File PRDINDEX	07/22/2004
IX.4.4B-PRDPARM	Processed Data Base File PRDPARM	07/22/2004
IX.4.4B-PRDTSn	Processed Data Base File PRDTSn	07/22/2004
IX.4.5	Forecast System Forecast Component Data Base Description	04/21/2005
IX.4.5A	Introduction to the Forecast Component Data Base Description	04/21/2005
IX.4.5B	Forecast Component Data Base File Descriptions	04/21/2005
IX.4.5B-FCCARRY	Forecast Component Data Base File FCCARRY	04/21/2005
IX.4.5B-FCCOGDEF	Forecast Component Data Base File FCCOGDEF	04/21/2005
IX.4.5B-FCFGLIST	Forecast Component Data Base File FCFGLIST	04/21/2005
IX.4.5B-FCFGSTAT	Forecast Component Data Base File FCFGSTAT	04/21/2005
IX.4.5B-FCPARAM	Forecast Component Data Base File FCPARAM	04/21/2005
IX.4.5B-FCRATING	Forecast Component Data Base File FCRATING	04/21/2005
IX.4.5B-FCRCPTR	Forecast Component Data Base File FCRCPTR	04/21/2005
IX.4.5B-FCSEGPTR	Forecast Component Data Base File FCSEGPTR	04/21/2005
IX.4.5B-FCSEGSTS	Forecast Component Data Base File FCSEGSTS	04/21/2005
IX.4.5B-TEMPn	Forecast Component Data Base File TEMPn	04/21/2005
IX.4.6	Extended Streamflow Prediction System Data File Description	07/22/2004
IX.4.6B	Extended Streamflow Prediction System Data File Descriptions	04/21/2005
IX.4.6B-ESPPARM	Extended Streamflow Prediction System File ESPPARM	04/21/2005
IX.4.7	Flash Flood Guidance (FFG) System File Descriptions	04/21/2005
IX.4.7A	Flash Flood Guidance (FFG) System File Descriptions	04/21/2005
IX.4.7A-AFFG	FFGS File /affg/[id]	04/21/2005
IX.4.7A-CARY	FFGS File /cary/[id]	04/21/2005
IX.4.7A-GDPM	FFGS File /gdpm/id	04/21/2005
IX.4.7A-GRIDX	FFGS Files /grff/xhr[d] and /grro/xhr[d]	04/21/2005
IX.4.7A-GRPP	FFGS File /grpp/[id]	04/21/2005
IX.4.7A-HFFG	FFGS File /hffg/[id]	04/21/2005

NWSRFS USER MANUAL ALL USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.4.7A-INDEX	FFGS File /[dir]/index	04/21/2005
IX.4.7A-PROD	FFGS File /prod/[id]	04/21/2005
IX.4.7A-TEXT	FFGS File /text/[id]	04/21/2005
IX.4.7A-USER	FFGS File /user/usrinfo	04/21/2005
IX.4.7A-WSUP	FFGS File /wsup/[id]	04/21/2005
IX.4.7B	Contents of Flash Flood Guidance (FFG) System Parameter Arrays	04/21/2005
IX.4.7B-AFFG	FFG Parameter Type AFFG	04/21/2005
IX.4.7B-CARY	FFG Parameter Type CARY	04/21/2005
IX.4.7B-GDPM	FFG Parameter Type GDPM	04/21/2005
IX.4.7B-GRID	FFG Parameter Types GRRO AND GRFF	04/21/2005
IX.4.7B-GRIDX	FFG Parameter Types GRRO and GRFF	04/21/2005
IX.4.7B-GRPP	FFG Parameter Type GRPP	04/21/2005
IX.4.7B-HFFG	FFG Parameter Type HFFG	04/21/2005
IX.4.7B-INDEX	FFG Parameter Type AFFG, HFFG and GDPM	04/21/2005
IX.4.7B-PROD	FFG Parameter Type PROD	04/21/2005
IX.4.7B-TEXT	FFG Parameter Type TEXT	04/21/2005
IX.4.7B-USER	FFG Parameter Type USER	04/21/2005
IX.4.7B-WSUP	FFG Parameter Type WSUP	04/21/2005
IX.5	Forecast System Data Base Access	04/21/2005
IX.5.1	Forecast System Data Base Access General Information	04/21/2005
IX.5.3	Forecast System Preprocessor Data Base Access	04/21/2005
IX.5.4	Forecast System Preprocessor Parametric Data Base Access	04/21/2005
IX.5.5	Forecast System Processed Data Base Access	04/21/2005
IX.5.6	Forecast System Forecast Component Data Base Access	04/21/2005
IX.6	Extended Streamflow Prediction (ESP) System Documentation	04/21/2005
IX.6.1	Extended Streamflow Prediction (ESP) Internal Arrays	04/21/2005
IX.6.1-PESP	Extended Streamflow Prediction Internal Array PESP	04/21/2005
IX.6.1-TSESP	Extended Streamflow Prediction Internal Array TSESP	04/21/2005

[Next] [[Previous](#)] [[Bookmarks](#)] [[Top](#)]