

NATIONAL WEATHER SERVICE RIVER FORECAST SYSTEM
USER MANUAL OUTLINE
FOR ALL AND SELECTED USER DISTRIBUTION
FOR RELEASE 82

<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 AND SELECTED 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-SLCT_USERS	NWSRFS User Manual Outline for Selected Users Distribution	05/11/2005
OUTLINE-BOTH_USERS	NWSRFS User Manual Outline for All Users and Selected Users Distribution	05/11/2005

NWSRFS USER MANUAL ALL AND SELECTED 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 AND SELECTED 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-FILECRAT-SYSTEM-DCBMBR	Program FILECRAT Command DCBMBR	05/16/2002
I.5-FILECRAT-SYSTEM-DEBUG	Program FILECRAT Command DEBUG	05/16/2002
I.5-FILECRAT-SYSTEM-UNIT	Program FILECRAT Command UNIT	05/16/2002
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.5-FILESIZE-SYSTEM-ABSTR	Program FILESIZE Command ABSTR	03/22/2004
I.5-FILESIZE-SYSTEM-DCBMBR	Program FILESIZE Command DCBMBR	05/16/2002
I.5-FILESIZE-SYSTEM-DEBUG	Program FILESIZE Command DEBUG	05/16/2002
I.5-FILESIZE-SYSTEM-TRACKS	Program FILESIZE Command TRACKS	05/16/2002
I.5-FILESIZE-SYSTEM-UNIT	Program FILESIZE Command UNIT	05/16/2002
I.6	State Abbreviations, Numbers and Codes	10/02/2002

NWSRFS USER MANUAL ALL AND SELECTED 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-MAXINCREASE	Joint Reservoir Regulation Operation Method MAXINCREASE	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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART II - Models and Techniques

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
II.4-RES-J-SETWITHDRAW	Joint Reservoir Regulation Operation Method SETWITHDRAW	11/04/2004
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART II - Models and Techniques

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
II.4-RES-SNGL-A-SETMIN	Single Reservoir Regulation Operation Utility Select Minimum Element	03/09/2004
II.4-RES-SNGL-A-SETQ	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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART II - Models and Techniques

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
II.8	River, Reservoir and Snow Techniques	02/13/2003
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 AND SELECTED 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-MAP-SYSTEM	Mean Areal Precipitation Program (MAP) System Commands	03/22/2004
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

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.1.2	Steps to Follow When Computing Mean Areal Data Values for Model Calibration	04/27/2004
IV.1.2-MAP	Steps to Follow When Computing Mean Areal Precipitation (MAP) for Model Calibration	04/21/2005
IV.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.4.1-MCP3-SYSTEM	Manual Calibration Program (MCP3) System Commands	02/22/2005
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 AND SELECTED 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 AND SELECTED 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 AND SELECTED 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 AND SELECTED 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 AND SELECTED 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 AND SELECTED 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 AND SELECTED 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.3.3B-SYSTEM	Program PPINIT System Commands	09/08/2004
VI.3.3B-SYSTEM-CPUTIME	Program PPINIT Command CPUTIME	08/20/2002
VI.3.3B-SYSTEM-DEBUG	Program PPINIT Command DEBUG	08/20/2002
VI.3.3B-SYSTEM-DECODE	Program PPINIT Command DECODE	08/20/2002
VI.3.3B-SYSTEM-DEFINE-AREA	Program PPINIT DEFINE AREA Parameters (MARO)	08/20/2002
VI.3.3B-SYSTEM-DEFINE-GBOX	Program PPINIT DEFINE GBOX Parameters	08/20/2002
VI.3.3B-SYSTEM-DEFINE-RFRO	Program PPINIT DEFINE RFRO Parameters	08/20/2002
VI.3.3B-SYSTEM-DEFINE-USER	Program PPINIT DEFINE Command DEFINE USER	08/20/2002
VI.3.3B-SYSTEM-DELETE	Program PPINIT Command DELETE	08/20/2002
VI.3.3B-SYSTEM-DUMP	Program PPINIT Command DUMP	08/21/2002
VI.3.3B-SYSTEM-FILOPEN	Program PPINIT Command FILOPEN	08/20/2002
VI.3.3B-SYSTEM-LISTCMD	Program PPINIT Command LISTCMD	08/20/2002
VI.3.3B-SYSTEM-LISTINP	Program PPINIT Command LISTINP	08/20/2002
VI.3.3B-SYSTEM-MDRGRID	Program PPINIT Command MDRGRID	08/20/2002
VI.3.3B-SYSTEM-MODE	Program PPINIT Command MODE	08/20/2002
VI.3.3B-SYSTEM-NETWORK	Program PPINIT Command NETWORK	08/20/2002
VI.3.3B-SYSTEM-NEWPAGE	Program PPINIT Command NEWPAGE	08/21/2002
VI.3.3B-SYSTEM-NEWUSER	Program PPINIT Command NEWUSER	08/20/2002
VI.3.3B-SYSTEM-RUN	Program PPINIT Command RUN	08/20/2002
VI.3.3B-SYSTEM-SETNSP	Program PPINIT Command SETNSP	08/20/2002
VI.3.3B-SYSTEM-SETOPT	Program PPINIT Command SETOPT	08/20/2002
VI.3.3B-SYSTEM-SETUNT	Program PPINIT Command SETUNT	08/20/2002
VI.3.3B-SYSTEM-STATUS	Program PPINIT Command STATUS	08/21/2002
VI.3.3B-SYSTEM-USRNAME	Program PPINIT Command USRNAME	08/20/2002
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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.3.4B-SYSTEM	Program FCINIT System Commands	09/08/2004
VI.3.4B-SYSTEM-DEBUG	Program FCINIT Command DEBUG	03/26/2002
VI.3.4B-SYSTEM-NEWUSER	Program FCINIT Command NEWUSER	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
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.3.5-SYSTEM	Program ESPINIT System Commands	09/08/2004
VI.3.5-SYSTEM-SETBUG	Program ESPINIT Command SETBUG	03/30/2004
VI.3.5-SYSTEM-UDEBUG	Program ESPINIT Command UDEBUG	03/30/2004
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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
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.4.2-SYSTEM	SHEFPOST System Commands	11/20/1997
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	04/21/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	(FCST) Hydrologic Command Language (HCL) User Commands	
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
VI.5.2C-STOP	Program FCST HCL Command STOP	04/27/2004
VI.5.2C-SYSTEM	Operational Forecast Program (FCST) Hydrologic Command Language (HCL) System Commands	09/08/2004
VI.5.2C-SYSTEM-DEBUG	Program FCST HCL Command DEBUG	03/22/2004
VI.5.2C-SYSTEM-DEFINEG-FUNCTION	Program FCST HCL Command DEFINEG FUNCTION	03/22/2004
VI.5.2C-SYSTEM-DEFINEG-PROCEDURE	Program FCST HCL Command DEFINEG PROCEDURE	03/22/2004
VI.5.2C-SYSTEM-DEFINEG-TECHNIQUE	Program FCST HCL Command DEFINEG TECHNIQUE	03/22/2004
VI.5.2C-SYSTEM-DELETEG	Program FCST HCL Command DELETEG	03/22/2004
VI.5.2C-SYSTEM-FCST	Program FCST HCL Command FCST	03/22/2004
VI.5.2C-SYSTEM-NEWUSER	Program FCST HCL Command NEWUSER	03/22/2004
VI.5.2C-SYSTEM-SETGDFLT	Program FCST HCL Command SETGDFLT	03/22/2004
VI.5.2C-SYSTEM-STATUS	Program FCST HCL Command STATUS	03/22/2004
VI.5.3	Operational Forecast Program (FCST)	04/21/2005
VI.5.3A	Introduction to the Operational Forecast Program (FCST)	04/21/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3A-SYSTEM	Operational Forecast Program (FCST) System Information	09/08/2004
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
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3C-FCEXEC-MOD-MFC	MATCHNG 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 RRICHNG	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
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	05/11/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3C-FCEXEC-MOD-ZERODIFF	XINCO 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 and Warning Messages	05/18/2004
VI.5.3C-RRS-MODS	Program FCST Function RRS Run Time Modifications (MODs)	05/19/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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.5.3C-SYSTEM	Operational Forecast Program (FCST) System Functions	09/08/2004
VI.5.3C-SYSTEM-CPUCHECK	Program FCST Function CPU Time Check (CPUCHECK)	09/20/2004
VI.5.3C-SYSTEM-CPUCHECK-TECH	Program FCST Function CPUCHECK HCL Techniques	09/08/2004
VI.5.3C-SYSTEM-MARO	Program FCST Function WGRFC Mean Areal Runoff (MARO)	09/20/2004
VI.5.3C-SYSTEM-MARO-ERROR	Program FCST Function MARO Warning and Error Messages	09/08/2004
VI.5.3C-SYSTEM-MARO-MOD	Program FCST Function MARO Run Time Modifications	09/08/2004
VI.5.3C-SYSTEM-MARO-TECH	Program FCST Function MARO HCL Techniques	09/08/2004
VI.5.3C-SYSTEM-SETDEBUG	Program FCST Function Set Debug (SETDEBUG)	09/20/2004
VI.5.3C-SYSTEM-SETDEBUG-TECH	Program FCST Function SETDEBUG HCL Techniques	09/08/2004
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-BLENTMP	Program FCST HCL Technique BLENTMP	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	03/04/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3D-ESTTULSA	ESPOTDIR 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-FGROUPE	Program FCST HCL Technique FGROUPE	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
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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 PRINTSNW	06/08/2004
VI.5.3D-PRLASTDY	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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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 RRSMNQOB	07/22/2004
VI.5.3D-RRSMNQTS	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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.5.3D-SYSTEM	Operational Forecast Program (FCST) System Techniques	09/08/2004
VI.5.3D-SYSTEM-APIMAX	Program FCST HCL Technique APIMAX	09/08/2004
VI.5.3D-SYSTEM-APIMIN	Program FCST HCL Technique APIMIN	09/08/2004
VI.5.3D-SYSTEM-APIRCMIN	Program FCST HCL Technique APIRCMIN	09/08/2004
VI.5.3D-SYSTEM-APIREC	Program FCST HCL Technique APIREC	09/08/2004
VI.5.3D-SYSTEM-APISCON	Program FCST HCL Technique APISCON	09/08/2004
VI.5.3D-SYSTEM-BOXDEBUG	Program FCST HCL Technique BOXDEBUG	09/08/2004
VI.5.3D-SYSTEM-BOXDKEY	Program FCST HCL Technique BOXDKEY	09/08/2004
VI.5.3D-SYSTEM-BOXDUMP	Program FCST HCL Technique BOXDUMP	09/08/2004
VI.5.3D-SYSTEM-DEBUGPR	Program FCST HCL Technique DEBUGPR	09/08/2004
VI.5.3D-SYSTEM-DUR	Program FCST HCL Technique DUR	09/08/2004
VI.5.3D-SYSTEM-ERRORPR	Program FCST HCL Technique ERRORPR	09/08/2004
VI.5.3D-SYSTEM-ESTFTW	Program FCST HCL Technique ESTFTW	09/08/2004
VI.5.3D-SYSTEM-FCDEBUG	Program FCST HCL Technique FCDEBUG	09/08/2004
VI.5.3D-SYSTEM-FTWMDRDS	Program FCST HCL Technique FTWMDRDS	09/08/2004
VI.5.3D-SYSTEM-FTWQPF	Program FCST HCL Technique FTWQPF	09/08/2004
VI.5.3D-SYSTEM-HCLDB	Program FCST HCL Technique HCLDB	09/08/2004
VI.5.3D-SYSTEM-HCLTR	Program FCST HCL Technique HCLTR	09/08/2004
VI.5.3D-SYSTEM-HISTUNIT	Program FCST HCL Technique HISTUNIT	09/08/2004
VI.5.3D-SYSTEM-MDRDIST	Program FCST HCL Technique MDRDIST	09/08/2004
VI.5.3D-SYSTEM-MDREST24	Program FCST HCL Technique MDREST24	09/08/2004
VI.5.3D-SYSTEM-MDREST6	Program FCST HCL Technique MDREST6	09/08/2004
VI.5.3D-SYSTEM-MDRONLY	Program FCST HCL Technique MDRONLY	09/08/2004
VI.5.3D-SYSTEM-MDRTABLE	Program FCST HCL Technique MDRTABLE	09/08/2004
VI.5.3D-SYSTEM-NUMQDT	Program FCST HCL Technique NUMQDT	09/08/2004
VI.5.3D-SYSTEM-PERMDATE	Program FCST HCL Technique PERMDATE	09/08/2004
VI.5.3D-SYSTEM-PERMWRIT	Program FCST HCL Technique PERMWRIT	09/08/2004
VI.5.3D-SYSTEM-PGSZMARO	Program FCST HCL Technique PGSZMARO	09/08/2004
VI.5.3D-SYSTEM-PLOTDAYS	Program FCST HCL Technique PLOTDAYS	09/08/2004
VI.5.3D-SYSTEM-PLOTTP24	Program FCST HCL Technique	09/08/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	PLOTTP24	
VI.5.3D-SYSTEM-PPDDB	Program FCST HCL Technique PPDDB	09/08/2004
VI.5.3D-SYSTEM-PPDEBUG	Program FCST HCL Technique PPDEBUG	09/08/2004
VI.5.3D-SYSTEM-PPDTR	Program FCST HCL Technique PPDTR	09/08/2004
VI.5.3D-SYSTEM-PPPDB	Program FCST HCL Technique PPPDB	09/08/2004
VI.5.3D-SYSTEM-PPPRINT	Program FCST HCL Technique PPPRINT	09/08/2004
VI.5.3D-SYSTEM-PPPTR	Program FCST HCL Technique PPPTR	09/08/2004
VI.5.3D-SYSTEM-PPTRACE	Program FCST HCL Technique PPTRACE	09/08/2004
VI.5.3D-SYSTEM-PRDDB	Program FCST HCL Technique PRDDB	09/08/2004
VI.5.3D-SYSTEM-PRDTR	Program FCST HCL Technique PRDTR	09/08/2004
VI.5.3D-SYSTEM-PRINT	Program FCST HCL Technique PRINT	09/08/2004
VI.5.3D-SYSTEM-PRTMARO	Program FCST HCL Technique PRTMARO	09/08/2004
VI.5.3D-SYSTEM-PRTMDR	Program FCST HCL Technique PRTMDR	09/08/2004
VI.5.3D-SYSTEM-PRTMDR6	Program FCST HCL Technique PRTMDR6	09/08/2004
VI.5.3D-SYSTEM-PRTPPZRO	Program FCST HCL Technique PRTPPZRO	09/08/2004
VI.5.3D-SYSTEM-PUNCH	Program FCST HCL Technique PUNCH	09/08/2004
VI.5.3D-SYSTEM-RESETCPU	Program FCST HCL Technique RESETCPU	09/08/2004
VI.5.3D-SYSTEM-ROPRINT	Program FCST HCL Technique ROPRINT	09/08/2004
VI.5.3D-SYSTEM-SEARCH	Program FCST HCL Technique SEARCH	09/08/2004
VI.5.3D-SYSTEM-SYSDEBUG	Program FCST HCL Technique SYSDEBUG	09/08/2004
VI.5.3D-SYSTEM-TSUNITS	Program FCST HCL Technique TSUNITS	09/08/2004
VI.5.3D-SYSTEM-UTLDB	Program FCST HCL Technique UTLDB	09/08/2004
VI.5.3D-SYSTEM-UTLTR	Program FCST HCL Technique ULTR	09/08/2004
VI.5.3D-SYSTEM-WKLAG	Program FCST HCL Technique WKLAG	09/08/2004
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 and OFS Processed Data Base Display Program (XNAV)	03/09/2004
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	03/09/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	(XSETS)	
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.6.3-PPDUTIL-SYSTEM	Program PPDUTIL System Commands	09/08/2004
VI.6.3-PPDUTIL-SYSTEM-CHNGSPEC	Program PPDUTIL Command CHNGSPEC	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-DEBUG	Program PPDUTIL Command DEBUG	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-DEFTYPE	Program PPDUTIL Command DEFTYPE	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-DELSTA	Program PPDUTIL Command DELSTA	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-DELTYPE	Program PPDUTIL Command DELTYPE	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-DUMPSIF	Program PPDUTIL Command DUMPSIF	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-NEWUSER	Program PPDUTIL Command NEWUSER	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-PDFNDR	Program PPDUTIL Command PDFNDR	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-RESET	Program PPDUTIL Command RESET	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-RRSDUMP	Program PPDUTIL Command RRSDUMP	03/22/2004
VI.6.3-PPDUTIL-SYSTEM-ZERODATE	Program PPDUTIL Command ZERODATE	03/22/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VI - User Information - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VI.6.3-PPDUTIL-SYSTEM-ZERODLY	Program PPDUTIL Command ZERODLY	03/22/2004
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
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.6.4-PRDUTIL-SYSTEM	Program PRDUTIL System Commands	09/08/2004
VI.6.4-PRDUTIL-SYSTEM-CHKNUMTS	Program PRDUTIL Command CHKNUMTS	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-CHNGTS	Program PRDUTIL Command CHNGTS	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-CHNGTSF	Program PRDUTIL Command CHNGTSF	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-CHNGTYPE	Program PRDUTIL Command CHNGTYPE	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-DEBUG	Program PRDUTIL Command DEBUG	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-DEFTS	Program PRDUTIL Command DEFTS	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-DEFTSF	Program PRDUTIL Command DEFTSF	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-DELTS	Program PRDUTIL Command DELTS	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-DUMPFIL	Program PRDUTIL Command DUMPFIL	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-DUMPTS	Program PRDUTIL Command DUMPTS	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-DUMPTSIX	Program PRDUTIL Command DUMPTSIX	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-MINDAY	Program PRDUTIL Command MINDAY	03/22/2004
VI.6.4-PRDUTIL-SYSTEM-NEWUSER	Program PRDUTIL Command NEWUSER	03/22/2004
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
VI.7-SYSTEM	Program REORDER System Commands	09/08/2004
VI.7-SYSTEM-DEBUG	Program REORDER Command DEBUG	09/08/2004
VI.7-SYSTEM-MAXERROR	Program REORDER Command MAXERROR	09/08/2004
VI.7-SYSTEM-MAXWARN	Program REORDER Command MAXWARN	09/08/2004
VI.7-SYSTEM-WORKUSAG	Program REORDER Command WORKUSAG	09/08/2004

NWSRFS USER MANUAL ALL AND SELECTED 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.3B-SYSTEM-UBLOCKC	BLOCK DATA UBLOCKC	05/22/2002
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.5.3B-COMP	SUBROUTINE COMP	04/30/1992
VII.5.3B-ETPRNT	SUBROUTINE ETPRNT	04/30/1992
VII.5.3B-GASDEV	FUNCTION GASDEV (ISEED1)	04/30/1992
VII.5.3B-SYSTEM-INDEXX	SUBROUTINE INDEXX	01/05/2005
VII.5.3B-OAPIIN	SUBROUTINE OAPIIN	04/30/1992
VII.5.3B-OARSCH	SUBROUTINE OARSCH	04/30/1992
VII.5.3B-OARSIN	SUBROUTINE OARSIN	04/30/1992
VII.5.3B-OBADID	SUBROUTINE OBADID	04/30/1992
VII.5.3B-OBNDCK	SUBROUTINE OBNDCK	04/30/1992
VII.5.3B-OCCEUA	SUBROUTINE OCCEUA	04/30/1992
VII.5.3B-OPARST	SUBROUTINE OPARST	04/30/1992
VII.5.3B-OPCARD	SUBROUTINE OPCARD	04/30/1992
VII.5.3B-OPECRV	SUBROUTINE OPECRV	04/30/1992
VII.5.3B-OPETCK	SUBROUTINE OPETCK	04/30/1992
VII.5.3B-OPREAD	SUBROUTINE OPREAD	04/30/1992
VII.5.3B-OPRINT	SUBROUTINE OPRINT	04/30/1992
VII.5.3B-OPSRCH	SUBROUTINE OPSRCH	04/30/1992
VII.5.3B-OPSTAT	SUBROUTINE OPSTAT	04/30/1992
VII.5.3B-OPTION	SUBROUTINE OPTION	04/30/1992
VII.5.3B-OPTMN	SUBROUTINE OPTMN	04/30/1992
VII.5.3B-OPTYPE	SUBROUTINE OPTYPE	04/30/1992
VII.5.3B-OPUGAJ	SUBROUTINE OPUGAJ	04/30/1992
VII.5.3B-OPUGCK	SUBROUTINE OPUGCK	04/30/1992
VII.5.3B-ORESET	SUBROUTINE ORESET	04/30/1992
VII.5.3B-OSACIN	SUBROUTINE OSACIN	04/30/1992
VII.5.3B-OSCEIN	SUBROUTINE OSCEIN	04/30/1992
VII.5.3B-OSCEUA	SUBROUTINE OSCEUA	04/30/1992
VII.5.3B-OSCHIN	SUBROUTINE OSCHIN	04/30/1992
VII.5.3B-OSLCIN	SUBROUTINE OSLCIN	04/30/1992
VII.5.3B-OSNOIN	SUBROUTINE OSNOIN	04/30/1992
VII.5.3B-OUGIN	SUBROUTINE OUGIN	04/30/1992
VII.5.3B-OXININ	SUBROUTINE OXININ	04/30/1992
VII.5.3B-POINT	SUBROUTINE POINT	04/30/1992
VII.5.3B-RANDU	SUBROUTINE RANDU	04/30/1992
VII.5.3B-RAN1	FUNCTION RAN1	04/30/1992
VII.5.3B-SORT	SUBROUTINE SORT	04/30/1992
VII.5.3B-SORT1	SUBROUTINE SORT1	04/30/1992
VII.5.3B-UGPRNT	SUBROUTINE UGPRNT	04/30/1992
VII.5.3C-ARS	Common Block ARS	04/30/1992
VII.5.3C-ODROP	Common Block ODROP	04/30/1992

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VII - System Documentation - Calibration

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VII.5.3C-OPARS	Common Block OPARS	04/30/1992
VII.5.3C-OPSAVE	Common Block OPSAVE	04/30/1992
VII.5.3C-OPSCE	Common Block OPSCE	04/30/1992
VII.5.3C-OPSCHM	Common Block OPSCHM	04/30/1992
VII.5.3C-OPTTS	Common Block OPTTS	04/30/1992
VII.5.3C-OSCRCH	Common Block OSCRCH	04/30/1992
VII.5.3C-OSTATS	Common Block OSTATS	04/30/1992
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 AND SELECTED 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 AND SELECTED 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-RES-SNGL-S-ARUL26	SUBROUTINE ARUL26	03/22/2004
VIII.3.3-RES-SNGL-S-CKST26	SUBROUTINE CKST26	03/22/2004
VIII.3.3-RES-SNGL-S-CONV26	SUBROUTINE CONV26	03/22/2004
VIII.3.3-RES-SNGL-S-EDST26	SUBROUTINE EDST26	03/22/2004
VIII.3.3-RES-SNGL-S-ERUL26	SUBROUTINE ERUL26	03/22/2004
VIII.3.3-RES-SNGL-S-EVAA26	SUBROUTINE EVAA26	03/22/2004
VIII.3.3-RES-SNGL-S-EVAB26	SUBROUTINE EVAB26	03/22/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VIII - System Documentation - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VIII.3.3-RES-SNGL-S-EVAC26	SUBROUTINE EVAC26	03/22/2004
VIII.3.3-RES-SNGL-S-EVSQ26	SUBROUTINE EVSQ26	03/22/2004
VIII.3.3-RES-SNGL-S-EX26	SUBROUTINE EX26	03/30/2004
VIII.3.3-RES-SNGL-S-F3WAYX	SUBROUTINE F3WAYX	03/22/2004
VIII.3.3-RES-SNGL-S-F3WAYY	SUBROUTINE F3WAYY	03/22/2004
VIII.3.3-RES-SNGL-S-F3WAYZ	SUBROUTINE F3WAYZ	03/22/2004
VIII.3.3-RES-SNGL-S-FILL26	SUBROUTINE FILL26	03/22/2004
VIII.3.3-RES-SNGL-S-FLSH26	SUBROUTINE FLSH26	03/22/2004
VIII.3.3-RES-SNGL-S-FRAC26	FUNCTION FRAC26	03/22/2004
VIII.3.3-RES-SNGL-S-GOFL26	SUBROUTINE GOFL26	03/22/2004
VIII.3.3-RES-SNGL-S-NDUC26	SUBROUTINE NDUC26	03/22/2004
VIII.3.3-RES-SNGL-S-NTER26	SUBROUTINE NTER26	03/22/2004
VIII.3.3-RES-SNGL-S-OBSV26	SUBROUTINE OBSV26	03/22/2004
VIII.3.3-RES-SNGL-S-OSOH26	SUBROUTINE OSOH26	03/22/2004
VIII.3.3-RES-SNGL-S-OVER26	SUBROUTINE OVER26	03/22/2004
VIII.3.3-RES-SNGL-S-PASN26	SUBROUTINE PASN26	03/22/2004
VIII.3.3-RES-SNGL-S-PREL26	SUBROUTINE PREL26	03/22/2004
VIII.3.3-RES-SNGL-S-PREQ26	SUBROUTINE PREQ26	03/22/2004
VIII.3.3-RES-SNGL-S-QGEN26	SUBROUTINE QGEN26	03/22/2004
VIII.3.3-RES-SNGL-S-QMIN26	SUBROUTINE QMIN26	03/22/2004
VIII.3.3-RES-SNGL-S-RULE26	SUBROUTINE RULE26	03/22/2004
VIII.3.3-RES-SNGL-S-RUTE26	SUBROUTINE RUTE26	03/22/2004
VIII.3.3-RES-SNGL-S-SUMN26	SUBROUTINE SUMN26	03/22/2004
VIII.3.3-RES-SNGL-S-SUMO26	SUBROUTINE SUMO26	03/22/2004
VIII.3.3-RES-SNGL-S-SURC26	SUBROUTINE SURC26	03/22/2004
VIII.3.3-RES-SNGL-S-TAB26	SUBROUTINE TAB26	03/22/2004
VIII.3.3-RES-SNGL-S-TERP26	SUBROUTINE TERP26	03/22/2004
VIII.3.3-RES-SNGL-S-USMN26	SUBROUTINE USMN26	03/22/2004
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
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	07/15/1999

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART VIII - System Documentation - Operations

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
VIII.3.3-XIN-SMA	Operation 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 AND SELECTED 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.2.2B-SYSTEM	Adding Operational Forecast Program Functions and Techniques	09/08/2004
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.3.0B-SYSTEM	Forecast System Hydrologic Command Language (HCL) and General Utility Subroutine Descriptions	04/19/2005
IX.3.0B-SYSTEM-ERROR	SUBROUTINE ERROR	04/19/2005
IX.3.0B-SYSTEM-ERRWRN	SUBROUTINE ERRWRN	04/19/2005
IX.3.0B-SYSTEM-HADTEC	SUBROUTINE HADTEC	04/19/2005
IX.3.0B-SYSTEM-HBLNKE	SUBROUTINE HBLNKE	04/19/2005
IX.3.0B-SYSTEM-HBLNKS	SUBROUTINE HBLNKS	04/19/2005
IX.3.0B-SYSTEM-HCARDI	SUBROUTINE HCARDI	04/19/2005
IX.3.0B-SYSTEM-HCARDR	SUBROUTINE HCARDR	04/19/2005
IX.3.0B-SYSTEM-HCARDW	SUBROUTINE HCARDW	04/19/2005
IX.3.0B-SYSTEM-HCKARG	SUBROUTINE HCKARG	04/19/2005
IX.3.0B-SYSTEM-HCKCNG	SUBROUTINE HCKCNG	04/19/2005
IX.3.0B-SYSTEM-HCKDAT	SUBROUTINE HCKDAT	04/19/2005
IX.3.0B-SYSTEM-HCKDTC	SUBROUTINE HCKDTC	04/19/2005
IX.3.0B-SYSTEM-HCKIDS	SUBROUTINE HCKIDS	04/19/2005
IX.3.0B-SYSTEM-HCKPSW	SUBROUTINE HCKPSW	04/19/2005
IX.3.0B-SYSTEM-HCKTAG	SUBROUTINE HCKTAG	04/19/2005
IX.3.0B-SYSTEM-HCKTYP	SUBROUTINE HCKTYP	04/19/2005
IX.3.0B-SYSTEM-HCKYNI	SUBROUTINE HCKYNI	04/19/2005
IX.3.0B-SYSTEM-HCLEAR	SUBROUTINE HCLEAR	04/19/2005
IX.3.0B-SYSTEM-HCLBLOCK	BLOCK DATA HCLBLOCK	04/19/2005
IX.3.0B-SYSTEM-HCMPSU	SUBROUTINE HCMPSU	04/19/2005
IX.3.0B-SYSTEM-HCNGPR	SUBROUTINE HCNGPR	04/19/2005
IX.3.0B-SYSTEM-HCNUNV	SUBROUTINE HCNUNV	04/19/2005
IX.3.0B-SYSTEM-HCOMPT	SUBROUTINE HCOMPT	04/19/2005
IX.3.0B-SYSTEM-HDATEA	SUBROUTINE HDATEA	04/19/2005
IX.3.0B-SYSTEM-HDATEC	SUBROUTINE HDATEC	04/19/2005
IX.3.0B-SYSTEM-HDDFLT	SUBROUTINE HDDFLT	04/19/2005
IX.3.0B-SYSTEM-HDELDF	SUBROUTINE HDELDF	04/19/2005
IX.3.0B-SYSTEM-HDELDFN	SUBROUTINE HDELDFN	04/19/2005
IX.3.0B-SYSTEM-HDELDD	SUBROUTINE HDELDD	04/19/2005
IX.3.0B-SYSTEM-HDELOP	SUBROUTINE HDELOP	04/19/2005
IX.3.0B-SYSTEM-HDELPR	SUBROUTINE HDELPR	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.0B-SYSTEM-HDELTN	SUBROUTINE HDELTN	04/19/2005
IX.3.0B-SYSTEM-HDFLTF	SUBROUTINE HDFLTF	04/19/2005
IX.3.0B-SYSTEM-HDFLTP	SUBROUTINE HDFLTP	04/19/2005
IX.3.0B-SYSTEM-HDFLTT	SUBROUTINE HDFLTT	04/19/2005
IX.3.0B-SYSTEM-HDFUNC	SUBROUTINE HDFUNC	04/19/2005
IX.3.0B-SYSTEM-HDLLD1	SUBROUTINE HDLLD1	04/19/2005
IX.3.0B-SYSTEM-HDLLDA	SUBROUTINE HDLLDA	04/19/2005
IX.3.0B-SYSTEM-HDLLDR	SUBROUTINE HDLLDR	04/19/2005
IX.3.0B-SYSTEM-HDOPTN	SUBROUTINE HDOPTN	04/19/2005
IX.3.0B-SYSTEM-HDPROC	SUBROUTINE HDPROC	04/19/2005
IX.3.0B-SYSTEM-HDTECH	SUBROUTINE HDTECH	04/19/2005
IX.3.0B-SYSTEM-HDWLDR	SUBROUTINE HDWLDR	04/19/2005
IX.3.0B-SYSTEM-HEXECF	SUBROUTINE HEXECF	04/19/2005
IX.3.0B-SYSTEM-HFDFNM	SUBROUTINE HFDFNM	04/19/2005
IX.3.0B-SYSTEM-HFEQLS	SUBROUTINE HFEQLS	04/19/2005
IX.3.0B-SYSTEM-HFEXCP	SUBROUTINE HFEXCP	04/19/2005
IX.3.0B-SYSTEM-HFLPRN	SUBROUTINE HFLPRN	04/19/2005
IX.3.0B-SYSTEM-HFND3B	SUBROUTINE HFND3B	04/19/2005
IX.3.0B-SYSTEM-HFNDDF	SUBROUTINE HFNDDF	04/19/2005
IX.3.0B-SYSTEM-HFRPRN	SUBROUTINE HFRPRN	04/19/2005
IX.3.0B-SYSTEM-HGARSZ	SUBROUTINE HGARSZ	04/19/2005
IX.3.0B-SYSTEM-HGETPM	SUBROUTINE HGETPM	04/19/2005
IX.3.0B-SYSTEM-HGETTA	SUBROUTINE HGETTA	04/19/2005
IX.3.0B-SYSTEM-HGFNUM	SUBROUTINE HGFNUM	04/19/2005
IX.3.0B-SYSTEM-HGTDFR	SUBROUTINE HGTDFR	04/19/2005
IX.3.0B-SYSTEM-HGTDIN	SUBROUTINE HGTDIN	04/19/2005
IX.3.0B-SYSTEM-HGTGID	SUBROUTINE HGTGID	04/19/2005
IX.3.0B-SYSTEM-HGTRCD	SUBROUTINE HGTRCD	04/19/2005
IX.3.0B-SYSTEM-HGTRDN	SUBROUTINE HGTRDN	04/19/2005
IX.3.0B-SYSTEM-HGTSTR	SUBROUTINE HGTSTR	04/19/2005
IX.3.0B-SYSTEM-HIDCHK	SUBROUTINE HIDCHK	04/19/2005
IX.3.0B-SYSTEM-HINCNX	SUBROUTINE HINCNX	04/19/2005
IX.3.0B-SYSTEM-HLDCBS	SUBROUTINE HLDCBS	04/19/2005
IX.3.0B-SYSTEM-HMCHID	SUBROUTINE HMCHID	04/19/2005
IX.3.0B-SYSTEM-HMODCD	SUBROUTINE HMODCD	04/19/2005
IX.3.0B-SYSTEM-HMODCK	SUBROUTINE HMODCK	04/19/2005
IX.3.0B-SYSTEM-HNMPSW	SUBROUTINE HNMPSW	04/19/2005
IX.3.0B-SYSTEM-HPASMD	SUBROUTINE HPASMD	04/19/2005
IX.3.0B-SYSTEM-HPAST, HPASTA	SUBROUTINES HPAST AND HPASTA	04/19/2005
IX.3.0B-SYSTEM-HPFLDF	SUBROUTINE HPFLDF	04/19/2005
IX.3.0B-SYSTEM-HPFNUM	SUBROUTINE HPFNUM	04/19/2005
IX.3.0B-SYSTEM-HPFUNG	SUBROUTINE HPFUNG	04/19/2005
IX.3.0B-SYSTEM-HPOPTG	SUBROUTINE HPOPTG	04/19/2005
IX.3.0B-SYSTEM-HPPLDF	SUBROUTINE HPPLDF	04/19/2005
IX.3.0B-SYSTEM-HPPRCG	SUBROUTINE HPPRCG	04/19/2005
IX.3.0B-SYSTEM-HPRARS	SUBROUTINE HPRARS	04/19/2005
IX.3.0B-SYSTEM-HPRIDS	SUBROUTINE HPRIDS	04/19/2005
IX.3.0B-SYSTEM-HPRMOD	SUBROUTINE HPRMOD	04/19/2005
IX.3.0B-SYSTEM-HPRNTS	SUBROUTINE HPRNTS	04/19/2005
IX.3.0B-SYSTEM-HPRTOG	SUBROUTINE HPRTOG	04/19/2005
IX.3.0B-SYSTEM-HPRTOS	SUBROUTINE HPRTOS	04/19/2005
IX.3.0B-SYSTEM-HPTCHN	SUBROUTINE HPTCHN	04/19/2005
IX.3.0B-SYSTEM-HPTECG	SUBROUTINE HPTECG	04/19/2005
IX.3.0B-SYSTEM-HPTRCD	SUBROUTINE HPTRCD	04/19/2005
IX.3.0B-SYSTEM-HPTSTR	SUBROUTINE HPTSTR	04/19/2005
IX.3.0B-SYSTEM-HPUTLD	SUBROUTINE HPUTLD	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.0B-SYSTEM-HRDCTL	SUBROUTINE HRDCTL	04/19/2005
IX.3.0B-SYSTEM-HREPPR	SUBROUTINE HREPPR	04/19/2005
IX.3.0B-SYSTEM-HREPRD	SUBROUTINE HREPRD	04/19/2005
IX.3.0B-SYSTEM-HREPRN	SUBROUTINE HREPRN	04/19/2005
IX.3.0B-SYSTEM-HRIDXC	SUBROUTINE HRIDXC	04/19/2005
IX.3.0B-SYSTEM-HRLDRR	SUBROUTINE HRLDRR	04/19/2005
IX.3.0B-SYSTEM-HROPTN	SUBROUTINE HROPTN	04/19/2005
IX.3.0B-SYSTEM-HSAVED	SUBROUTINE HSAVED	04/19/2005
IX.3.0B-SYSTEM-HSETAR	SUBROUTINE HSETAR	04/19/2005
IX.3.0B-SYSTEM-HSETDY	SUBROUTINE HSETDY	04/19/2005
IX.3.0B-SYSTEM-HSETHR	SUBROUTINE HSETHR	04/19/2005
IX.3.0B-SYSTEM-HSETOP	SUBROUTINE HSETOP	04/19/2005
IX.3.0B-SYSTEM-HSRLDR	SUBROUTINE HSRLDR	04/19/2005
IX.3.0B-SYSTEM-HSYSDA	SUBROUTINE HSYSDA	04/19/2005
IX.3.0B-SYSTEM-HTODAY	SUBROUTINE HTODAY	04/19/2005
IX.3.0B-SYSTEM-HWDCTL	SUBROUTINE HWDCTL	04/19/2005
IX.3.0B-SYSTEM-HWIDXC	SUBROUTINE HWIDXC	04/19/2005
IX.3.0B-SYSTEM-HWIXEN	SUBROUTINE HWIXEN	04/19/2005
IX.3.0B-SYSTEM-HWPROC	SUBROUTINE HWPROC	04/19/2005
IX.3.0B-SYSTEM-HWROPT	SUBROUTINE HWROPT	04/19/2005
IX.3.0B-SYSTEM-JULDA	SUBROUTINE JULDA	04/19/2005
IX.3.0B-SYSTEM-MDYH1 ,MDYH2	SUBROUTINES MDYH1 AND MDYH2	04/19/2005
IX.3.0B-SYSTEM-PPHASH	SUBROUTINE PPHASH	04/19/2005
IX.3.0B-SYSTEM-RCOMND	SUBROUTINE RCOMND	04/19/2005
IX.3.0B-SYSTEM-RPCARD	SUBROUTINE RPCARD	04/19/2005
IX.3.0B-SYSTEM-RVLRC	SUBROUTINE RVLRC	04/19/2005
IX.3.0B-SYSTEM-SUBSTR	SUBROUTINE SUBSTR	04/19/2005
IX.3.0B-SYSTEM-UBEGIN	SUBROUTINE UBEGIN	04/19/2005
IX.3.0B-SYSTEM-UBLOCK	BLOCK DATA UBLOCK	04/19/2005
IX.3.0B-SYSTEM-UBLOCKF	BLOCK DATA UBLOCKF	04/19/2005
IX.3.0B-SYSTEM-UCHNGE	SUBROUTINE UCHNGE	04/19/2005
IX.3.0B-SYSTEM-UCKFLT	SUBROUTINE UCKFLT	04/19/2005
IX.3.0B-SYSTEM-UCKINT	SUBROUTINE UCKINT	04/19/2005
IX.3.0B-SYSTEM-UCKLOG	SUBROUTINE UCKLOG	04/19/2005
IX.3.0B-SYSTEM-UDKBLK	SUBROUTINE UDKBLK	04/19/2005
IX.3.0B-SYSTEM-UDTRRS	SUBROUTINE UDTRRS	04/19/2005
IX.3.0B-SYSTEM-UDTYPE	SUBROUTINE UDTYPE	04/19/2005
IX.3.0B-SYSTEM-UDUCNV	SUBROUTINE UDUCNV	04/19/2005
IX.3.0B-SYSTEM-UDUNIT	SUBROUTINE UDUNIT	04/19/2005
IX.3.0B-SYSTEM-UEROR	SUBROUTINE UEROR	04/19/2005
IX.3.0B-SYSTEM-UFA2F	SUBROUTINE UFA2F	04/19/2005
IX.3.0B-SYSTEM-UFA2I	SUBROUTINE UFA2I	04/19/2005
IX.3.0B-SYSTEM-UFI2A	SUBROUTINE UFI2A	04/19/2005
IX.3.0B-SYSTEM-UFI2AZ	SUBROUTINE UFI2AZ	04/19/2005
IX.3.0B-SYSTEM-UFIELD	SUBROUTINE UFIELD	04/19/2005
IX.3.0B-SYSTEM-UFLDST	SUBROUTINE UFLDST	04/19/2005
IX.3.0B-SYSTEM-UINDEX	SUBROUTINE UINDEX	04/19/2005
IX.3.0B-SYSTEM-UINTCH	SUBROUTINE UINTCH	04/19/2005
IX.3.0B-SYSTEM-ULEFTC	SUBROUTINE ULEFTC	04/19/2005
IX.3.0B-SYSTEM-ULENTH	SUBROUTINE ULENTH	04/19/2005
IX.3.0B-SYSTEM-ULINE	SUBROUTINE ULINE	04/19/2005
IX.3.0B-SYSTEM-ULINEL	SUBROUTINE ULINEL	04/19/2005
IX.3.0B-SYSTEM-UMEMO2	SUBROUTINE UMEMO2	04/19/2005
IX.3.0B-SYSTEM-UMEMOV	SUBROUTINE UMEMOV	04/19/2005
IX.3.0B-SYSTEM-UMEMS2	SUBROUTINE UMEMS2	04/19/2005
IX.3.0B-SYSTEM-UMEMST	SUBROUTINE UMEMST	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.0B-SYSTEM-UMOVE	SUBROUTINE UMOVE	04/19/2005
IX.3.0B-SYSTEM-UMOVEX	SUBROUTINE UMOVEX	04/19/2005
IX.3.0B-SYSTEM-UPAGE	SUBROUTINE UPAGE	04/19/2005
IX.3.0B-SYSTEM-UPRFLD	SUBROUTINE UPRFLD	04/19/2005
IX.3.0B-SYSTEM-URBLOCK	BLOCK DATA URBLOCK	04/19/2005
IX.3.0B-SYSTEM-URELCH	SUBROUTINE URELCH	04/19/2005
IX.3.0B-SYSTEM-UREPET	SUBROUTINE UREPET	04/19/2005
IX.3.0B-SYSTEM-URGHTC	SUBROUTINE URGHTC	04/19/2005
IX.3.0B-SYSTEM-USORT1	SUBROUTINE USORT1	04/19/2005
IX.3.0B-SYSTEM-USORT2	SUBROUTINE USORT2	04/19/2005
IX.3.0B-SYSTEM-USTOP	SUBROUTINE USTOP	04/19/2005
IX.3.0B-SYSTEM-UWARN	SUBROUTINE UWARN	04/19/2005
IX.3.0B-SYSTEM-WARN	SUBROUTINE WARN	04/19/2005
IX.3.0B-SYSTEM-WPCARD	SUBROUTINE WPCARD	04/19/2005
IX.3.0B-SYSTEM-WVLRCD	SUBROUTINE WVLRCD	04/19/2005
IX.3.0C-SYSTEM	Forecast System Hydrologic Command Language (HCL) and General Utility Common Block Descriptions	04/19/2005
IX.3.0C-SYSTEM-FCTIME	Common Block FCTIME	04/19/2005
IX.3.0C-SYSTEM-FENGMT	Common Block FENGMT	04/19/2005
IX.3.0C-SYSTEM-HARGMN	Common Block HARGMN	04/19/2005
IX.3.0C-SYSTEM-HCNTRL	Common Block HCNTRL	04/19/2005
IX.3.0C-SYSTEM-HCOMND	Common Block HCOMND	04/19/2005
IX.3.0C-SYSTEM-HCURFC	Common Block HCURFC	04/19/2005
IX.3.0C-SYSTEM-HDATAS	Common Block HDATAS	04/19/2005
IX.3.0C-SYSTEM-HDFLTS	Common Block HDFLTS	04/19/2005
IX.3.0C-SYSTEM-HGARGM	Common Block HGARGM	04/19/2005
IX.3.0C-SYSTEM-HGTECH	Common Block HGTECH	04/19/2005
IX.3.0C-SYSTEM-HINDX	Common Block HINDX	04/19/2005
IX.3.0C-SYSTEM-HPRFLG	Common Block HPRFLG	04/19/2005
IX.3.0C-SYSTEM-HPROCC	Common Block HPROCC	04/19/2005
IX.3.0C-SYSTEM-HPTRAY	Common Block HPTRAY	04/19/2005
IX.3.0C-SYSTEM-HSEG1	Common Block HSEG1	04/19/2005
IX.3.0C-SYSTEM-HSVCRD	Common Block HSVCRD	04/19/2005
IX.3.0C-SYSTEM-HTECHN	Common Block HTECHN	04/19/2005
IX.3.0C-SYSTEM-HUNITS	Common Block HUNITS	04/19/2005
IX.3.0C-SYSTEM-HUPRM2	Common Block HUPRM2	04/19/2005
IX.3.0C-SYSTEM-HWORDS	Common Block HWORDS	04/19/2005
IX.3.0C-SYSTEM-HWORD2	Common Block HWORD2	04/19/2005
IX.3.0C-SYSTEM-HWORD3	Common Block HWORD3	04/19/2005
IX.3.0C-SYSTEM-IONUM	Common Block IONUM	04/19/2005
IX.3.0C-SYSTEM-UCMDBX	Common Block UCMDBX	04/19/2005
IX.3.0C-SYSTEM-UDATAS	Common Block UDATAS	04/19/2005
IX.3.0C-SYSTEM-UDEBUG	Common Block UDEBUG	04/19/2005
IX.3.0C-SYSTEM-UDTYPC	Common Block UDTYPC	04/19/2005
IX.3.0C-SYSTEM-UDUNTX	Common Block UDUNTX	04/19/2005
IX.3.0C-SYSTEM-UERORX	Common Block UERORX	04/19/2005
IX.3.0C-SYSTEM-UFIELX	Common Block UFIELX	04/19/2005
IX.3.0C-SYSTEM-UFILES	Common Block UFILES	04/19/2005
IX.3.0C-SYSTEM-UFREEI	Common Block UFREEI	04/19/2005
IX.3.0C-SYSTEM-UFSTCD	Common Block UFSTCD	04/19/2005
IX.3.0C-SYSTEM-UIO	Common Block UIO	04/19/2005
IX.3.0C-SYSTEM-UIOX	Common Block UIOX	04/19/2005
IX.3.0C-SYSTEM-UPAGEX	Common Block UPAGEX	04/19/2005
IX.3.0C-SYSTEM-UPVRSX	Common Block UPVRSX	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.0C-SYSTEM-UTIMRX	Common Block UTIMRX	04/19/2005
IX.3.0C-SYSTEM-UUNITS	Common Block UUNITS	04/19/2005
IX.3.0C-SYSTEM-WHERE	Common Block WHERE	04/19/2005
IX.3.1-SYSTEM	Forecast System Data Entry Modules	04/19/2005
IX.3.1-SYSTEM-DFBLOCK	BLOCK DATA DFBLOCK	04/19/2005
IX.3.1-SYSTEM-DGBLOCK	BLOCK DATA DGBLOCK	04/19/2005
IX.3.1-SYSTEM-DGPRT	SUBROUTINE DGPRT	04/19/2005
IX.3.1-SYSTEM-DSBLOCK	BLOCK DATA DSBLOCK	04/19/2005
IX.3.1-SYSTEM-DSPRT	SUBROUTINE DSPRT	04/19/2005
IX.3.1-SYSTEM-WDGCH	SUBROUTINE WDGCH	04/19/2005
IX.3.1-SYSTEM-WDGCRC	SUBROUTINE WDGCRC	04/19/2005
IX.3.1-SYSTEM-WDGD	SUBROUTINE WDGD	04/19/2005
IX.3.1-SYSTEM-WDSCH	SUBROUTINE WDSCH	04/19/2005
IX.3.1-SYSTEM-WDSCR	SUBROUTINE WDSCR	04/19/2005
IX.3.1-SYSTEM-WDSD	SUBROUTINE WDSD	04/19/2005
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.3.2B-SYSTEM	Forecast System Program PPINIT and Program FCST Preprocessor Functions Subroutine Descriptions	01/05/2005
IX.3.2B-SYSTEM-FUN001	SUBROUTINE FUN001	09/08/2004
IX.3.2B-SYSTEM-FUN002	SUBROUTINE FUN002	09/08/2004
IX.3.2B-SYSTEM-FUN003	SUBROUTINE FUN003	09/08/2004
IX.3.2B-SYSTEM-FUN004	SUBROUTINE FUN004	09/08/2004
IX.3.2B-SYSTEM-FUN005	SUBROUTINE FUN005	09/08/2004
IX.3.2B-SYSTEM-FUN006	SUBROUTINE FUN006	09/08/2004
IX.3.2B-SYSTEM-FUN007	SUBROUTINE FUN007	09/08/2004
IX.3.2B-SYSTEM-FUN008	SUBROUTINE FUN008	09/08/2004
IX.3.2B-SYSTEM-FUN009	SUBROUTINE FUN009	09/08/2004
IX.3.2B-SYSTEM-FUN010	SUBROUTINE FUN010	09/08/2004
IX.3.2B-SYSTEM-FUN011	SUBROUTINE FUN011	09/08/2004
IX.3.2B-SYSTEM-FUN012	SUBROUTINE FUN012	09/08/2004
IX.3.2B-SYSTEM-FUN013	SUBROUTINE FUN013	09/08/2004
IX.3.2B-SYSTEM-FUN014	SUBROUTINE FUN014	09/08/2004
IX.3.2B-SYSTEM-FUN015	SUBROUTINE FUN015	09/08/2004
IX.3.2B-SYSTEM-IPBUG	FUNCTION IPBUG	01/05/2005
IX.3.2B-SYSTEM-QDISPL	SUBROUTINE QDISPL	01/05/2005
IX.3.2B-SYSTEM-QDNORM	SUBROUTINE QDNORM	01/05/2005
IX.3.2B-SYSTEM-QDSPLY	SUBROUTINE QDSPLY	01/05/2005
IX.3.2B-SYSTEM-QDTYPE	SUBROUTINE QDTYPE	01/05/2005
IX.3.2B-SYSTEM-QEXTRP	SUBROUTINE QEXTRP	01/05/2005
IX.3.2B-SYSTEM-QINPUT	SUBROUTINE QINPUT	01/05/2005
IX.3.2B-SYSTEM-QINSTM	SUBROUTINE QINSTM	01/05/2005
IX.3.2B-SYSTEM-QINSTN	SUBROUTINE QINSTN	01/05/2005
IX.3.2B-SYSTEM-QISTFT	SUBROUTINE QISTFT	01/05/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.2B-SYSTEM-QMEAN	SUBROUTINE QMEAN	01/05/2005
IX.3.2B-SYSTEM-QMEANM	SUBROUTINE QMEANM	01/05/2005
IX.3.2B-SYSTEM-QOBSDA	SUBROUTINE QOBSDA	01/05/2005
IX.3.2B-SYSTEM-QOVLAP	SUBROUTINE QOVLAP	01/05/2005
IX.3.2B-SYSTEM-QPRNT	SUBROUTINE QPRNT	01/05/2005
IX.3.2B-SYSTEM-QPRTTS	SUBROUTINE QPRTTS	01/05/2005
IX.3.2B-SYSTEM-QSETMG	SUBROUTINE QSETMG	01/05/2005
IX.3.2B-SYSTEM-QSPRRS	SUBROUTINE QSPRRS	01/05/2005
IX.3.2B-SYSTEM-QSRPRD	SUBROUTINE QSRPRD	01/05/2005
IX.3.2B-SYSTEM-QSWPRD	SUBROUTINE QSWPRD	01/05/2005
IX.3.2B-SYSTEM-QWRITS	SUBROUTINE QWRITS	01/05/2005
IX.3.2B-SYSTEM-QXWPRD	SUBROUTINE QXWPRD	01/05/2005
IX.3.2B-SYSTEM-SBAREA	SUBROUTINE SBAREA	06/22/1999
IX.3.2B-SYSTEM-SBBXCK	SUBROUTINE SBBXCK	06/22/1999
IX.3.2B-SYSTEM-SBCNTD	SUBROUTINE SBCNTD	06/22/1999
IX.3.2B-SYSTEM-SBCNTR	SUBROUTINE SBCNTR	06/22/1999
IX.3.2B-SYSTEM-SBFCTR	SUBROUTINE SBFCTR	06/22/1999
IX.3.2B-SYSTEM-SBFMAX	SUBROUTINE SBFMAX	06/22/1999
IX.3.2B-SYSTEM-SBFMIN	SUBROUTINE SBFMIN	06/22/1999
IX.3.2B-SYSTEM-SBGRDF	SUBROUTINE SBGRDF	06/22/1999
IX.3.2B-SYSTEM-SBGRDL	SUBROUTINE SBGRDL	06/22/1999
IX.3.2B-SYSTEM-SBIMAX	SUBROUTINE SBIMAX	06/22/1999
IX.3.2B-SYSTEM-SBIMIN	SUBROUTINE SBIMIN	06/22/1999
IX.3.2B-SYSTEM-SBLETR	SUBROUTINE SBLETR	06/22/1999
IX.3.2B-SYSTEM-SBLLGD	SUBROUTINE SBLLGD	06/22/1999
IX.3.2B-SYSTEM-SBLOCK	BLOCK DATA SBLOCK	05/22/2002
IX.3.2B-SYSTEM-SBMDRS	SUBROUTINE SBMDRS	06/22/1999
IX.3.2B-SYSTEM-SBMDRV	SUBROUTINE SBMDRV	06/22/1999
IX.3.2B-SYSTEM-SBMDRW	SUBROUTINE SBMDRW	06/22/1999
IX.3.2B-SYSTEM-SBMNUM	SUBROUTINE SBMNUM	06/22/1999
IX.3.2B-SYSTEM-SBNUMM	SUBROUTINE SBNUMM	06/22/1999
IX.3.2B-SYSTEM-SBPAIR	SUBROUTINE SBPAIR	06/22/1999
IX.3.2B-SYSTEM-SBPLOT	SUBROUTINE SBPLOT	06/22/1999
IX.3.2B-SYSTEM-SBPTCK	SUBROUTINE SBPTCK	06/22/1999
IX.3.2B-SYSTEM-SBRTAT	SUBROUTINE SBRTAT	06/22/1999
IX.3.2B-SYSTEM-SBSORT	SUBROUTINE SBSORT	06/22/1999
IX.3.2B-SYSTEM-SBTABL	SUBROUTINE SBTABL	06/22/1999
IX.3.2B-SYSTEM-SBYNEG	SUBROUTINE SBYNEG	06/22/1999
IX.3.2B-SYSTEM-SBYPOS	SUBROUTINE SBYPOS	06/22/1999
IX.3.2B-SYSTEM-SFADRV	SUBROUTINE SFADRV	06/22/1999
IX.3.2B-SYSTEM-SFBASN	SUBROUTINE SFBASN	06/22/1999
IX.3.2B-SYSTEM-SFBDRV	SUBROUTINE SFBDRV	06/22/1999
IX.3.2B-SYSTEM-SFPOWR	SUBROUTINE SFPOWR	06/22/1999
IX.3.2B-SYSTEM-SFQUAD	SUBROUTINE SFQUAD	06/22/1999
IX.3.2B-SYSTEM-SFRADI	SUBROUTINE SFRADI	06/22/1999
IX.3.2B-SYSTEM-SFWGHT	SUBROUTINE SFWGHT	06/22/1999
IX.3.2B-SYSTEM-SPBASN	SUBROUTINE SPBASN	06/22/1999
IX.3.2B-SYSTEM-SRBASN	SUBROUTINE SRBASN	06/22/1999
IX.3.2B-SYSTEM-SWBASN	SUBROUTINE SWBASN	06/22/1999
IX.3.2B-SYSTEM-TCORR	SUBROUTINE TCORR	03/12/1998
IX.3.2B-SYSTEM-TDSP1	SUBROUTINE TDSP1	03/12/1998
IX.3.2B-SYSTEM-TDSPM	SUBROUTINE TDSPM	03/13/1998
IX.3.2B-SYSTEM-TEMP	SUBROUTINE TEMP	03/13/1998
IX.3.2B-SYSTEM-TEST1	SUBROUTINE TEST1	03/13/1998
IX.3.2B-SYSTEM-TESTM	SUBROUTINE TESTM	03/13/1998
IX.3.2B-SYSTEM-TESTP	SUBROUTINE TESTP	03/13/1998

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.2B-SYSTEM-TFUTUR	SUBROUTINE TFUTUR	03/13/1998
IX.3.2B-SYSTEM-TILUVO	SUBROUTINE TILUVO	03/13/1998
IX.3.2B-SYSTEM-TMEANI	SUBROUTINE TMEANI	03/13/1998
IX.3.2B-SYSTEM-TMAT	SUBROUTINE TMAT	07/24/1998
IX.3.2B-SYSTEM-TMEANM	SUBROUTINE TMEANM	03/13/1998
IX.3.2B-SYSTEM-TPART	SUBROUTINE TPART	03/13/1998
IX.3.2B-SYSTEM-TUPDAT	SUBROUTINE TUPDAT	03/13/1998
IX.3.2B-SYSTEM-XFMAPC	SUBROUTINE XFMAPC	09/16/1994
IX.3.2B-SYSTEM-XFMAPD	SUBROUTINE XFMAPD	09/16/1994
IX.3.2B-SYSTEM-XFMAPP	SUBROUTINE XFMAPP	09/16/1994
IX.3.2B-SYSTEM-XFMAPS	SUBROUTINE XFMAPS	09/16/1994
IX.3.2B-SYSTEM-XFMAPT	SUBROUTINE XFMAPT	09/16/1994
IX.3.2B-SYSTEM-XFMAPW	SUBROUTINE XFMAPW	09/16/1994
IX.3.2B-SYSTEM-XFMAP6	SUBROUTINE XFMAP6	09/16/1994
IX.3.2B-SYSTEM-XMDRAL	SUBROUTINE XMDRAL	09/16/1994
IX.3.2B-SYSTEM-XMDRCV	SUBROUTINE XMDRCV	09/16/1994
IX.3.2B-SYSTEM-XMDRPL	SUBROUTINE XMDRPL	09/16/1994
IX.3.2B-SYSTEM-XMDRPR	SUBROUTINE XMDRPR	09/16/1994
IX.3.2B-SYSTEM-XMDRRF	SUBROUTINE XMDRRF	09/16/1994
IX.3.2C	Forecast System Program PPINIT and Program FCST Preprocessor Functions Common Block Descriptions	04/21/2005
IX.3.2C-SYSTEM	Forecast System Program PPINIT and Program FCST Preprocessor Functions Common Block Descriptions	02/22/2005
IX.3.2C-SYSTEM-PUDBUG	Common Block PUDBUG	05/17/1999
IX.3.2C-SYSTEM-SGBOXX	Common Block SGBOXX	05/01/1995
IX.3.2C-SYSTEM-SNTWFX	Common Block SNTWFX	05/01/1995
IX.3.2C-SYSTEM-SNTWKX	Common Block SNTWKX	12/18/2001
IX.3.2C-SYSTEM-SUDBGX	Common Block SUDBGX	05/02/1995
IX.3.2C-SYSTEM-SUDDSX	Common Block SUDDSX	06/03/1999
IX.3.2C-SYSTEM-SUDTRX	Common Block SUDTRX	05/02/1995
IX.3.2C-SYSTEM-SUERRX	Common Block SUERRX	05/02/1995
IX.3.2C-SYSTEM-SUFREX	Common Block SUFREX	05/02/1995
IX.3.2C-SYSTEM-SUGNLX	Common Block SUGNLX	05/02/1995
IX.3.2C-SYSTEM-SUOPTX	Common Block SUOPTX	01/05/2005
IX.3.2C-SYSTEM-SUPAGX	Common Block SUPAGX	12/18/2001
IX.3.2C-SYSTEM-SUPRTX	Common Block SUPRTX	05/03/1995
IX.3.2C-SYSTEM-SUTMRX	Common Block SUTMRX	05/03/1995
IX.3.2C-SYSTEM-SWORKX	Common Block SWORKX	05/03/1995
IX.3.2C-SYSTEM-SWRK2X	Common Block SWRK2X	05/03/1995
IX.3.2C-SYSTEM-TARY	Common Block TARY	02/23/1998
IX.3.2C-SYSTEM-TLOC	Common Block TLOC	02/23/1998
IX.3.2C-SYSTEM-TOUT	Common Block TOUT	02/23/1998
IX.3.2C-SYSTEM-TSCRAT	Common Block TSCRAT	02/23/1998
IX.3.2C-SYSTEM-TUSER	Common Block TUSER	02/23/1998
IX.3.2C-SYSTEM-X	Common Block X	08/21/1996
IX.3.2C-SYSTEM-XALPHA	Common Block XALPHA	09/16/1994
IX.3.2C-SYSTEM-XDISPL	Common Block XDISPL	09/16/1994
IX.3.2C-SYSTEM-XFDATE	Common Block XFDATE	09/16/1994
IX.3.2C-SYSTEM-XMDAY	Common Block XMDAY	09/16/1994
IX.3.2C-SYSTEM-XMDR	Common Block XMDR	09/16/1994
IX.3.2C-SYSTEM-XOPT	Common Block XOPT	09/16/1994
IX.3.2C-SYSTEM-XOPT2	Common Block XOPT2	09/16/1994

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.2C-SYSTEM-XSIZE	Common Block XSIZE	09/16/1994
IX.3.2C-SYSTEM-XTIME	Common Block XTIME	09/16/1994
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.3.3B-SYSTEM	Forecast System Program FCINIT and Program FCST Forecast Functions System Subroutine Descriptions	04/19/2005
IX.3.3B-SYSTEM-CALBIO	SUBROUTINE CALBIO	04/19/2005
IX.3.3B-SYSTEM-CDINPT	SUBROUTINE CDINPT	04/19/2005
IX.3.3B-SYSTEM-CGDEF	SUBROUTINE CGDEF	04/19/2005
IX.3.3B-SYSTEM-CGDEL	SUBROUTINE CGDEL	04/19/2005
IX.3.3B-SYSTEM-CGDELA	SUBROUTINE CGDELA	04/19/2005
IX.3.3B-SYSTEM-CGDELB	SUBROUTINE CGDELB	04/19/2005
IX.3.3B-SYSTEM-CGDELC	SUBROUTINE CGDELC	04/19/2005
IX.3.3B-SYSTEM-CGDSEG	SUBROUTINE CGDSEG	04/19/2005
IX.3.3B-SYSTEM-CHECKC	SUBROUTINE CHECKC	04/19/2005
IX.3.3B-SYSTEM-CHECKP	SUBROUTINE CHECKP	04/19/2005
IX.3.3B-SYSTEM-CHECKT	SUBROUTINE CHECKT	04/19/2005
IX.3.3B-SYSTEM-CHEKRC	SUBROUTINE CHEKRC	04/19/2005
IX.3.3B-SYSTEM-CHEKTS	SUBROUTINE CHEKTS	04/19/2005
IX.3.3B-SYSTEM-CKINPT	SUBROUTINE CKINPT	04/19/2005
IX.3.3B-SYSTEM-COXDRV	SUBROUTINE COXDRV	04/19/2005
IX.3.3B-SYSTEM-COXDR1	SUBROUTINE COXDR1	04/19/2005
IX.3.3B-SYSTEM-COXDR2	SUBROUTINE COXDR2	04/19/2005
IX.3.3B-SYSTEM-COXDR3	SUBROUTINE COXDR3	04/19/2005
IX.3.3B-SYSTEM-CSRSET,CSAVE,CRETRV	SUBROUTINES CSRSET, CSAVE AND CRETRV	04/19/2005
IX.3.3B-SYSTEM-DEFWY	SUBROUTINE DEFWY	04/19/2005
IX.3.3B-SYSTEM-DELSEG	SUBROUTINE DELSEG	04/19/2005
IX.3.3B-SYSTEM-FAJMDQ	SUBROUTINE FAJMDQ	04/19/2005
IX.3.3B-SYSTEM-FARGCK	SUBROUTINE FARGCK	04/19/2005
IX.3.3B-SYSTEM-FAZE0	SUBROUTINE FAZE0	04/19/2005
IX.3.3B-SYSTEM-FAZE1	SUBROUTINE FAZE1	04/19/2005
IX.3.3B-SYSTEM-FAZE2	SUBROUTINE FAZE2	04/19/2005
IX.3.3B-SYSTEM-FAZE3	SUBROUTINE FAZE3	04/19/2005
IX.3.3B-SYSTEM-FBLEND	SUBROUTINE FBLEND	04/19/2005
IX.3.3B-SYSTEM-FCARGS	SUBROUTINE FCARGS	04/19/2005
IX.3.3B-SYSTEM-FCBFCK	SUBROUTINE FCBFCK	04/19/2005
IX.3.3B-SYSTEM-FCDATE	SUBROUTINE FCDATE	04/19/2005
IX.3.3B-SYSTEM-FCDELT	SUBROUTINE FCDELT	04/19/2005
IX.3.3B-SYSTEM-FCDMP1	SUBROUTINE FCDMP1	04/19/2005
IX.3.3B-SYSTEM-FCDMP2	SUBROUTINE FCDMP2	04/19/2005
IX.3.3B-SYSTEM-FCDMP3	SUBROUTINE FCDMP3	04/19/2005
IX.3.3B-SYSTEM-FCEXCT	SUBROUTINE FCEXCT	04/19/2005
IX.3.3B-SYSTEM-FCEXEC	SUBROUTINE FCEXEC	04/19/2005
IX.3.3B-SYSTEM-FCHKCO	SUBROUTINE FCHKCO	04/19/2005
IX.3.3B-SYSTEM-FCIDCK	SUBROUTINE FCIDCK	04/19/2005
IX.3.3B-SYSTEM-FCINIT	SUBROUTINE FCINIT	04/19/2005
IX.3.3B-SYSTEM-FCKTSX	SUBROUTINE FCKTSX	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.3B-SYSTEM-FCLCD	SUBROUTINE FCLCD	04/19/2005
IX.3.3B-SYSTEM-FCOBBL	SUBROUTINE FCOBBL	04/19/2005
IX.3.3B-SYSTEM-FCONVT	SUBROUTINE FCONVT	04/19/2005
IX.3.3B-SYSTEM-FCORDR	SUBROUTINE FCORDR	04/19/2005
IX.3.3B-SYSTEM-FCOSEG	SUBROUTINE FCOSEG	04/19/2005
IX.3.3B-SYSTEM-FCPPTS	SUBROUTINE FCPPTS	04/19/2005
IX.3.3B-SYSTEM-FCRDCE	SUBROUTINE FCRDCE	04/19/2005
IX.3.3B-SYSTEM-FCRDPE	SUBROUTINE FCRDPE	04/19/2005
IX.3.3B-SYSTEM-FCRDRC	SUBROUTINE FCRDRC	04/19/2005
IX.3.3B-SYSTEM-FCSORT	SUBROUTINE FCSORT	04/19/2005
IX.3.3B-SYSTEM-FCTSRD	SUBROUTINE FCTSRD	04/19/2005
IX.3.3B-SYSTEM-FCTSWT	SUBROUTINE FCTSWT	05/02/2005
IX.3.3B-SYSTEM-FCTZC, FCITZC	SUBROUTINES FCTZC AND FCITZC	04/19/2005
IX.3.3B-SYSTEM-FCWTCE	SUBROUTINE FCWTCE	04/19/2005
IX.3.3B-SYSTEM-FCWTCK	SUBROUTINE FCWTCK	04/19/2005
IX.3.3B-SYSTEM-FCWTCO	SUBROUTINE FCWTCO	04/19/2005
IX.3.3B-SYSTEM-FCWTPE	SUBROUTINE FCWTPE	04/19/2005
IX.3.3B-SYSTEM-FCWTRC	SUBROUTINE FCWTRC	04/19/2005
IX.3.3B-SYSTEM-FDATCK	SUBROUTINE FDATCK	04/19/2005
IX.3.3B-SYSTEM-FDCODE	SUBROUTINE FDCODE	04/19/2005
IX.3.3B-SYSTEM-FDEFRC	SUBROUTINE FDEFRC	04/19/2005
IX.3.3B-SYSTEM-FDELRC	SUBROUTINE FDELRC	04/19/2005
IX.3.3B-SYSTEM-FDMPA	SUBROUTINE FDMPA	04/19/2005
IX.3.3B-SYSTEM-FDMPCB	SUBROUTINE FDMPCB	04/19/2005
IX.3.3B-SYSTEM-FDRIVE	SUBROUTINE FDRIVE	04/19/2005
IX.3.3B-SYSTEM-FDRIV1	SUBROUTINE FDRIV1	04/19/2005
IX.3.3B-SYSTEM-FDRIV2	SUBROUTINE FDRIV2	04/19/2005
IX.3.3B-SYSTEM-FDRIV3	SUBROUTINE FDRIV3	04/19/2005
IX.3.3B-SYSTEM-FDRVWY	SUBROUTINE FDRVWY	04/19/2005
IX.3.3B-SYSTEM-FFPUIN	SUBROUTINE FFPUIN	04/19/2005
IX.3.3B-SYSTEM-FFPURL	SUBROUTINE FFPURL	04/19/2005
IX.3.3B-SYSTEM-FFRDIN	SUBROUTINE FFRDIN	04/19/2005
IX.3.3B-SYSTEM-FFRDRL	SUBROUTINE FFRDRL	04/19/2005
IX.3.3B-SYSTEM-FGDEF	SUBROUTINE FGDEF	04/19/2005
IX.3.3B-SYSTEM-FGDEL	SUBROUTINE FGDEL	04/19/2005
IX.3.3B-SYSTEM-FGGET	SUBROUTINE FGGET	04/19/2005
IX.3.3B-SYSTEM-FGSGLS	SUBROUTINE FGSGLS	04/19/2005
IX.3.3B-SYSTEM-FHYDEX	SUBROUTINE FH YDEX	04/19/2005
IX.3.3B-SYSTEM-FILSGO	SUBROUTINE FILSGO	04/19/2005
IX.3.3B-SYSTEM-FILUVO	SUBROUTINE FILUVO	04/19/2005
IX.3.3B-SYSTEM-FINDRC	SUBROUTINE FINDRC	04/19/2005
IX.3.3B-SYSTEM-FINDTS	SUBROUTINE FINDTS	04/19/2005
IX.3.3B-SYSTEM-FINICO	SUBROUTINE FINICO	04/19/2005
IX.3.3B-SYSTEM-FLCMPL	SUBROUTINE FLCMPL	04/19/2005
IX.3.3B-SYSTEM-FLOCSG	SUBROUTINE FLOCSG	04/19/2005
IX.3.3B-SYSTEM-FLOOPR	SUBROUTINE FLOOPR	04/19/2005
IX.3.3B-SYSTEM-FMCOPS	SUBROUTINE FMCOPS	04/19/2005
IX.3.3B-SYSTEM-FMVTSL	SUBROUTINE FMVTSL	04/19/2005
IX.3.3B-SYSTEM-FNOCSV	SUBROUTINE FNOCSV	04/19/2005
IX.3.3B-SYSTEM-FOBSSG	SUBROUTINE FOBSSG	04/19/2005
IX.3.3B-SYSTEM-FOPCDE, FOPCDX	SUBROUTINES FOPCDE AND FOPCDX	04/19/2005
IX.3.3B-SYSTEM-FPDBIO	SUBROUTINE FPDBIO	04/19/2005
IX.3.3B-SYSTEM-FPHPWN	SUBROUTINE FPHPWN	04/19/2005
IX.3.3B-SYSTEM-FPPPRM	SUBROUTINE FPPPRM	04/19/2005
IX.3.3B-SYSTEM-FPPSEG	SUBROUTINE FPPSEG	04/19/2005
IX.3.3B-SYSTEM-FPRBUG	SUBROUTINE FPRBUG	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.3B-SYSTEM-FPRCBA	SUBROUTINE FPRCBA	04/19/2005
IX.3.3B-SYSTEM-FPRCBB	SUBROUTINE FPRCBB	04/19/2005
IX.3.3B-SYSTEM-FPRCBC	SUBROUTINE FPRCBC	04/19/2005
IX.3.3B-SYSTEM-FPRCBD	SUBROUTINE FPRCBD	04/19/2005
IX.3.3B-SYSTEM-FPRCBE	SUBROUTINE FPRCBE	04/19/2005
IX.3.3B-SYSTEM-FPRCBF	SUBROUTINE FPRCBF	04/19/2005
IX.3.3B-SYSTEM-FPROPS	SUBROUTINE FPROPS	04/19/2005
IX.3.3B-SYSTEM-FPRRC	SUBROUTINE FPRRC	04/19/2005
IX.3.3B-SYSTEM-FPRTCB	SUBROUTINE FPRTCB	04/19/2005
IX.3.3B-SYSTEM-FPRTOP	SUBROUTINE FPRTOP	04/19/2005
IX.3.3B-SYSTEM-FPRTRC	SUBROUTINE FPRTRC	04/19/2005
IX.3.3B-SYSTEM-FPTCRY	SUBROUTINE FPTCRY	04/19/2005
IX.3.3B-SYSTEM-FPTPRM	SUBROUTINE FPTPRM	04/19/2005
IX.3.3B-SYSTEM-FRCERR	SUBROUTINE FRCERR	04/19/2005
IX.3.3B-SYSTEM-FRCFQ	SUBROUTINE FRCFQ	04/19/2005
IX.3.3B-SYSTEM-FRCID	SUBROUTINE FRCID	04/19/2005
IX.3.3B-SYSTEM-FRCLEX	SUBROUTINE FRCLEX	04/19/2005
IX.3.3B-SYSTEM-FRCOPT	SUBROUTINE FRCOPT	04/19/2005
IX.3.3B-SYSTEM-FRCRDC	SUBROUTINE FRCRDC	04/19/2005
IX.3.3B-SYSTEM-FRCSHF	SUBROUTINE FRCSHF	04/19/2005
IX.3.3B-SYSTEM-FRCUN	SUBROUTINE FRCUN	04/19/2005
IX.3.3B-SYSTEM-FRCUPD	SUBROUTINE FRCUPD	04/19/2005
IX.3.3B-SYSTEM-FRDCAL	SUBROUTINE FRDCAL	04/19/2005
IX.3.3B-SYSTEM-FRDCAR	SUBROUTINE FRDCAR	04/19/2005
IX.3.3B-SYSTEM-FRDPDB	SUBROUTINE FRDPDB	04/19/2005
IX.3.3B-SYSTEM-FRESTR	SUBROUTINE FRESTR	04/19/2005
IX.3.3B-SYSTEM-FRPLAC	SUBROUTINE FRPLAC	04/19/2005
IX.3.3B-SYSTEM-FSERCH	SUBROUTINE FSERCH	04/19/2005
IX.3.3B-SYSTEM-FSETBG	SUBROUTINE FSETBG	04/19/2005
IX.3.3B-SYSTEM-FSETNW	SUBROUTINE FSETNW	04/19/2005
IX.3.3B-SYSTEM-FSGDAT	SUBROUTINE FSGDAT	04/19/2005
IX.3.3B-SYSTEM-FSGDEF	SUBROUTINE FSGDEF	04/19/2005
IX.3.3B-SYSTEM-FSIGFG	SUBROUTINE FSIGFG	04/19/2005
IX.3.3B-SYSTEM-FSNWTR	SUBROUTINE FSNWTR	04/19/2005
IX.3.3B-SYSTEM-FSPOOL	SUBROUTINE FSPOOL	04/19/2005
IX.3.3B-SYSTEM-FSTACG	SUBROUTINE FSTACG	04/19/2005
IX.3.3B-SYSTEM-FSTAFG	SUBROUTINE FSTAFG	04/19/2005
IX.3.3B-SYSTEM-FSTAHD	SUBROUTINE FSTAHD	04/19/2005
IX.3.3B-SYSTEM-FSTASG	SUBROUTINE FSTASG	04/19/2005
IX.3.3B-SYSTEM-FSTAT1	SUBROUTINE FSTAT1	04/19/2005
IX.3.3B-SYSTEM-FSTATS	SUBROUTINE FSTATS	04/19/2005
IX.3.3B-SYSTEM-FSTGQ	SUBROUTINE FSTGQ	04/19/2005
IX.3.3B-SYSTEM-FSTITM	SUBROUTINE FSTITM	04/19/2005
IX.3.3B-SYSTEM-FSTQCO	SUBROUTINE FSTQCO	04/19/2005
IX.3.3B-SYSTEM-FTEKCK	SUBROUTINE FTEKCK	04/19/2005
IX.3.3B-SYSTEM-FTERPL	SUBROUTINE FTERPL	04/19/2005
IX.3.3B-SYSTEM-FTMCHK	SUBROUTINE FTMCHK	04/19/2005
IX.3.3B-SYSTEM-FUPDCO	SUBROUTINE FUPDCO	04/19/2005
IX.3.3B-SYSTEM-FWCLEX	SUBROUTINE FWCLEX	04/19/2005
IX.3.3B-SYSTEM-FWTCAL	SUBROUTINE FWTCAL	04/19/2005
IX.3.3B-SYSTEM-FWTCAR	SUBROUTINE FWTCAR	04/19/2005
IX.3.3B-SYSTEM-FWTPDB	SUBROUTINE FWTPDB	04/19/2005
IX.3.3B-SYSTEM-FXTRPL	SUBROUTINE FXTRPL	04/19/2005
IX.3.3B-SYSTEM-IFBUG	FUNCTION IFBUG	04/19/2005
IX.3.3B-SYSTEM-IFMSNG	SUBROUTINE IFMSNG	04/19/2005
IX.3.3B-SYSTEM-IFRUN	FUNCTION IFRUN	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.3B-SYSTEM-KILLFN	SUBROUTINE KILLFN	04/19/2005
IX.3.3B-SYSTEM-KILLPM	SUBROUTINE KILLPM	04/19/2005
IX.3.3B-SYSTEM-PROPTB	SUBROUTINE PROPTB	04/19/2005
IX.3.3B-SYSTEM-PROPT1	SUBROUTINE PROPT1	04/19/2005
IX.3.3B-SYSTEM-PROPT2	SUBROUTINE PROPT2	04/19/2005
IX.3.3B-SYSTEM-PROPT3	SUBROUTINE PROPT3	04/19/2005
IX.3.3B-SYSTEM-PUOPTB	SUBROUTINE PUOPTB	04/19/2005
IX.3.3B-SYSTEM-PUOPT1	SUBROUTINE PUOPT1	04/19/2005
IX.3.3B-SYSTEM-PUOPT2	SUBROUTINE PUOPT2	04/19/2005
IX.3.3B-SYSTEM-PUOPT3	SUBROUTINE PUOPT3	04/19/2005
IX.3.3B-SYSTEM-RDLIST	SUBROUTINE RDLIST	04/19/2005
IX.3.3B-SYSTEM-SETUP	SUBROUTINE SETUP	05/02/2005
IX.3.3B-SYSTEM-SETUP1	SUBROUTINE SETUP1	04/19/2005
IX.3.3B-SYSTEM-SETUP2	SUBROUTINE SETUP2	04/19/2005
IX.3.3B-SYSTEM-SETUP3	SUBROUTINE SETUP3	04/19/2005
IX.3.3B-SYSTEM-STOP	SUBROUTINE STOP	04/19/2005
IX.3.3B-SYSTEM-STOPFN	SUBROUTINE STOPFN	04/19/2005
IX.3.3B-SYSTEM-STOPIN	SUBROUTINE STOPIN	04/19/2005
IX.3.3B-SYSTEM-TSDEF	SUBROUTINE TSDEF	04/19/2005
IX.3.3C-SYSTEM	Forecast System Program FCINIT and Program FCST Forecast Functions System Common Block Descriptions	04/19/2005
IX.3.3C-SYSTEM-ERRDAT	Common Block ERRDAT	04/19/2005
IX.3.3C-SYSTEM-FAPICO	Common Block FAPICO	04/19/2005
IX.3.3C-SYSTEM-FC	Common Block FC	04/19/2005
IX.3.3C-SYSTEM-FCARY	Common Block FCARY	04/19/2005
IX.3.3C-SYSTEM-FCASSM	Common Block FCASSM	04/19/2005
IX.3.3C-SYSTEM-FCCGD1	Common Block FCCGD1	04/19/2005
IX.3.3C-SYSTEM-FCCGD2	Common Block FCCGD2	04/19/2005
IX.3.3C-SYSTEM-FCCVP	Common Block FCCVP	04/19/2005
IX.3.3C-SYSTEM-FCDFLT	Common Block FCDFLT	04/19/2005
IX.3.3C-SYSTEM-FCFGS	Common Block FCFGS	04/19/2005
IX.3.3C-SYSTEM-FCFGS2	Common Block FCFGS2	04/19/2005
IX.3.3C-SYSTEM-FCFUTP	Common Block FCFUTP	04/19/2005
IX.3.3C-SYSTEM-FCHGRS	Common Block FCHGRS	04/19/2005
IX.3.3C-SYSTEM-FCIO	Common Block FCIO	04/19/2005
IX.3.3C-SYSTEM-FCIOBF	Common Block FCIOBF	04/19/2005
IX.3.3C-SYSTEM-FCOAPI	Common Block FCOAPI	04/19/2005
IX.3.3C-SYSTEM-FCONIT	Common Block FCONIT	04/19/2005
IX.3.3C-SYSTEM-FCOPPT	Common Block FCOPPT	04/19/2005
IX.3.3C-SYSTEM-FCOSAC	Common Block FCOSAC	04/19/2005
IX.3.3C-SYSTEM-FCRFC	Common Block FCRFC	04/19/2005
IX.3.3C-SYSTEM-FCRUNC	Common Block FCRUNC	04/19/2005
IX.3.3C-SYSTEM-FCSEGC	Common Block FCSEGC	04/19/2005
IX.3.3C-SYSTEM-FCSEGP	Common Block FCSEGP	04/19/2005
IX.3.3C-SYSTEM-FCSGC1	Common Block FCSGC1	04/19/2005
IX.3.3C-SYSTEM-FCSGP2	Common Block FCSGP2	04/19/2005
IX.3.3C-SYSTEM-FCTIM2	Common Block FCTIM2	04/19/2005
IX.3.3C-SYSTEM-FCUNIT	Common Block FCUNIT	04/19/2005
IX.3.3C-SYSTEM-FD	Common Block FD	04/19/2005
IX.3.3C-SYSTEM-FDBUG	Common Block FDBUG	04/19/2005
IX.3.3C-SYSTEM-FDISPL	Common Block FDISPL	04/19/2005
IX.3.3C-SYSTEM-FDISPS	Common Block FDISPS	04/19/2005
IX.3.3C-SYSTEM-FFGCTL	Common Block FFGCTL	04/19/2005
IX.3.3C-SYSTEM-FIGNOR	Common Block FIGNOR	04/19/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.3C-SYSTEM-FLARYS	Common Block FLARYS	04/19/2005
IX.3.3C-SYSTEM-FMODFT	Common Block FMODFT	04/19/2005
IX.3.3C-SYSTEM-FNOPR	Common Block FNOPR	04/19/2005
IX.3.3C-SYSTEM-FP	Common Block FP	04/19/2005
IX.3.3C-SYSTEM-FPLOTG	Common Block FPLOTG	04/19/2005
IX.3.3C-SYSTEM-FPLTAB	Common Block FPLTAB	04/19/2005
IX.3.3C-SYSTEM-FPROG	Common Block FPROG	04/19/2005
IX.3.3C-SYSTEM-FPXTYP	Common Block FPXTYP	04/19/2005
IX.3.3C-SYSTEM-FRARSW	Common Block FRARSW	04/19/2005
IX.3.3C-SYSTEM-FRCERS	Common Block FRCERS	04/19/2005
IX.3.3C-SYSTEM-FRCPTR	Common Block FRCPTR	04/19/2005
IX.3.3C-SYSTEM-FSACCO	Common Block FSACCO	04/19/2005
IX.3.3C-SYSTEM-FSACPR	Common Block FSACPR	04/19/2005
IX.3.3C-SYSTEM-FSDATA	Common Block FSDATA	04/19/2005
IX.3.3C-SYSTEM-FSGLST	Common Block FSGLST	04/19/2005
IX.3.3C-SYSTEM-FSKDATA	Common Block FSKDATA	04/19/2005
IX.3.3C-SYSTEM-FSNW	Common Block FSNW	04/19/2005
IX.3.3C-SYSTEM-FSNWUP	Common Block FSNWUP	04/19/2005
IX.3.3C-SYSTEM-FT	Common Block FT	04/19/2005
IX.3.3C-SYSTEM-FTS	Common Block FTS	04/19/2005
IX.3.3C-SYSTEM-FWYDS	Common Block FWYDS	04/19/2005
IX.3.3C-SYSTEM-FWYDAT	Common Block FWYDAT	04/19/2005
IX.3.3C-SYSTEM-KILLCD	Common Block KILLCD	04/19/2005
IX.3.3C-SYSTEM-MOD102	Common Block MOD102	04/19/2005
IX.3.3C-SYSTEM-MOD119	Common Block MOD119	04/19/2005
IX.3.3C-SYSTEM-MOD126	Common Block MOD126	04/19/2005
IX.3.3C-SYSTEM-MOD127	Common Block MOD127	04/19/2005
IX.3.3C-SYSTEM-MOD129	Common Block MOD129	04/19/2005
IX.3.3C-SYSTEM-MOD130	Common Block MOD130	05/02/2005
IX.3.3C-SYSTEM-MOD135	Common Block MOD135	04/19/2005
IX.3.3C-SYSTEM-MOD136	Common Block MOD136	04/19/2005
IX.3.3C-SYSTEM-MOD138	Common Block MOD138	04/19/2005
IX.3.3C-SYSTEM-MOD151	Common Block MOD151	04/19/2005
IX.3.3C-SYSTEM-MODRCS	Common Block MODRCS	04/19/2005
IX.3.3C-SYSTEM-MODUHG	Common Block MODUHG	04/19/2005
IX.3.3C-SYSTEM-OLDC	Common Block OLDC	04/19/2005
IX.3.3C-SYSTEM-OLDP	Common Block OLDP	04/19/2005
IX.3.3C-SYSTEM-OLDT	Common Block OLDT	04/19/2005
IX.3.3C-SYSTEM-OLDTS	Common Block OLDTS	04/19/2005
IX.3.3C-SYSTEM-OPLIST	Common Block OPLIST	04/19/2005
IX.3.3C-SYSTEM-PUDFLT	Common Block PUDFLT	04/19/2005
IX.3.3C-SYSTEM-RESETC	Common Block RESETC	04/19/2005
IX.3.3C-SYSTEM-SNCO19	Common Block SNCO19	04/19/2005
IX.3.3C-SYSTEM-SYSBUG	Common Block SYSBUG	04/19/2005
IX.3.3C-SYSTEM-TOTERZ	Common Block TOTERZ	04/19/2005
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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
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.3.4B-SYSTEM	Preprocessor Data Base Read/Write Subroutine Descriptions	01/05/2005
IX.3.4B-SYSTEM-IPDCKD	FUNCTION IPDCKD	01/05/2005
IX.3.4B-SYSTEM-IPDCKR	FUNCTION IPDCKR	01/05/2005
IX.3.4B-SYSTEM-IPDFDT	FUNCTION IPDFDT	01/05/2005
IX.3.4B-SYSTEM-PDBBLOCK	BLOCK DATA PDBBLOCK	01/05/2005
IX.3.4B-SYSTEM-PDFNDI	SUBROUTINE PDFNDI	01/05/2005
IX.3.4B-SYSTEM-PDFNDR	SUBROUTINE PDFNDR	01/05/2005
IX.3.4B-SYSTEM-PDHASH	SUBROUTINE PDHASH	04/19/2005
IX.3.4B-SYSTEM-PDPUTR	SUBROUTINE PDPUTR	01/05/2005
IX.3.4B-SYSTEM-RPDCKD	SUBROUTINE RPDCKD	01/05/2005
IX.3.4B-SYSTEM-RPDCKR	SUBROUTINE RPDCKR	01/05/2005
IX.3.4B-SYSTEM-RPDGRD	SUBROUTINE RPDGRD	01/05/2005
IX.3.4B-SYSTEM-RPDMDR	SUBROUTINE RPDMDR	01/05/2005
IX.3.4B-SYSTEM-WPDC	SUBROUTINE WPDC	01/05/2005
IX.3.4B-SYSTEM-WPDCR	SUBROUTINE WPDCR	01/05/2005
IX.3.4B-SYSTEM-WPDD	SUBROUTINE WPDD	01/05/2005
IX.3.4B-SYSTEM-WPDDLY	SUBROUTINE WPDDLY	01/05/2005
IX.3.4B-SYSTEM-WPDHSH	SUBROUTINE WPDHSH	01/05/2005
IX.3.4B-SYSTEM-WPDMDR	SUBROUTINE WPDMDR	01/05/2005
IX.3.4B-SYSTEM-WPDPCN	SUBROUTINE WPDPCN	01/05/2005
IX.3.4B-SYSTEM-WPDSS	SUBROUTINE WPDSS	01/05/2005
IX.3.4B-SYSTEM-WPD24P	SUBROUTINE WPD24P	01/05/2005
IX.3.4C-SYSTEM	Preprocessor Data Base Read/Write Common Block Descriptions	01/05/2005
IX.3.4C-SYSTEM-PDDDFC	Common Block PDDDFC	01/05/2005
IX.3.4C-SYSTEM-PDDTDR	Common Block PDDTDR	01/05/2005
IX.3.4C-SYSTEM-PDHSHC	Common Block PDHSHC	01/05/2005
IX.3.4C-SYSTEM-PDHSHI	Common Block PDHSHI	01/05/2005
IX.3.4C-SYSTEM-PDSIFC	Common Block PDSIFC	01/05/2005
IX.3.4C-SYSTEM-PDRRSC	Common Block PDRRSC	01/05/2005
IX.3.4C-SYSTEM-PDUNTS	Common Block PDUNTS	01/05/2005
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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.3.5B-SYSTEM	Processed Data Base Read/Write System Subroutine Descriptions	01/18/2005
IX.3.5B-SYSTEM-PCICRM	SUBROUTINE PCICRM	01/05/2005
IX.3.5B-SYSTEM-PCKDLT	SUBROUTINE PCKDLT	01/18/2005
IX.3.5B-SYSTEM-PCKDTC	SUBROUTINE PCKDTC	01/05/2005
IX.3.5B-SYSTEM-PCMPBT	SUBROUTINE PCMPBT	01/05/2005
IX.3.5B-SYSTEM-PEXPBT	SUBROUTINE PEXPBT	01/05/2005
IX.3.5B-SYSTEM-PFDFID	SUBROUTINE PFDFID	01/05/2005
IX.3.5B-SYSTEM-PFD TIC	SUBROUTINE PFD TIC	01/05/2005
IX.3.5B-SYSTEM-PFD TYP	SUBROUTINE PFD TYP	01/18/2005
IX.3.5B-SYSTEM-PFFTYP	SUBROUTINE PFFTYP	01/05/2005
IX.3.5B-SYSTEM-PGETLU	SUBROUTINE PGETLU	01/05/2005
IX.3.5B-SYSTEM-PGETTS	SUBROUTINE PGETTS	01/05/2005
IX.3.5B-SYSTEM-PGTSIL	SUBROUTINE PGTSIL	01/05/2005
IX.3.5B-SYSTEM-PIXACC	SUBROUTINE PIXACC	01/05/2005
IX.3.5B-SYSTEM-PMOVTS	SUBROUTINE PMOVTS	01/05/2005
IX.3.5B-SYSTEM-PPIKOF	SUBROUTINE PPIKOF	01/05/2005
IX.3.5B-SYSTEM-PPTSIC	SUBROUTINE PPTSIC	01/05/2005
IX.3.5B-SYSTEM-PPUTTS	SUBROUTINE PPUTTS	01/05/2005
IX.3.5B-SYSTEM-PRDBLOCK	BLOCK DATA PRDBLOCK	01/05/2005
IX.3.5B-SYSTEM-PSE RCH	SUBROUTINE PSE RCH	01/05/2005
IX.3.5B-SYSTEM-RTSRCD	SUBROUTINE RTSRCD	01/05/2005
IX.3.5B-SYSTEM-WPDBCO	SUBROUTINE WPDBCO	01/05/2005
IX.3.5B-SYSTEM-WPRDC,WPRDCF	SUBROUTINES WPRDC and WPRDCF	01/05/2005
IX.3.5B-SYSTEM-WPRDEL	SUBROUTINE WPRDEL	01/05/2005
IX.3.5B-SYSTEM-WPRDH,WPRDFH	SUBROUTINES WPRDH and WPRDFH	01/05/2005
IX.3.5B-SYSTEM-WTSRCD	SUBROUTINE WTSRCD	01/05/2005
IX.3.5C-SYSTEM	Processed Data Base Read/Write Common Block Descriptions	01/05/2005
IX.3.5C-SYSTEM-PDATAS	Common Block PDATAS	01/05/2005
IX.3.5C-SYSTEM-PDFTBL	Common Block PDFTBL	01/05/2005
IX.3.5C-SYSTEM-PICDMG	Common Block PICDMG	01/05/2005
IX.3.5C-SYSTEM-PICPTR	Common Block PICPTR	01/05/2005
IX.3.5C-SYSTEM-PMAXDM	Common Block PMAXDM	01/05/2005
IX.3.5C-SYSTEM-PRDQPF	COMMON BLOCK PRDQPF	01/05/2005
IX.3.5C-SYSTEM-PREADS	Common Block PREADS	01/05/2005
IX.3.5C-SYSTEM-PTSCTL	Common Block PTSCTL	01/05/2005
IX.3.5C-SYSTEM-PTSICB	Common Block PTSICB	01/05/2005
IX.3.5C-SYSTEM-PUNITS	Common Block PUNITS	01/05/2005
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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.3.6B-SYSTEM	Preprocessor Parametric Data Base Read/Write System Subroutine Descriptions	01/18/2005
IX.3.6B-SYSTEM-IPCKDT	FUNCTION IPCKDT	01/05/2005
IX.3.6B-SYSTEM-PPFNDR	SUBROUTINE PPFNDR	01/18/2005
IX.3.6B-SYSTEM-PPPBLOCK	BLOCK DATA PPPBLOCK	01/05/2005
IX.3.6B-SYSTEM-PPPUTR	SUBROUTINE PPPUTR	01/05/2005
IX.3.6B-SYSTEM-WPPCOF	SUBROUTINE WPPCOF	01/05/2005
IX.3.6B-SYSTEM-WPPDCH	SUBROUTINE WPPDCH	01/05/2005
IX.3.6B-SYSTEM-WPPDEL	SUBROUTINE WPPDEL	01/05/2005
IX.3.6B-SYSTEM-WPPDMT	SUBROUTINE WPPDMT	01/05/2005
IX.3.6B-SYSTEM-WPPPCO	SUBROUTINE WPPPCO	01/05/2005
IX.3.6B-SYSTEM-WPPREC	SUBROUTINE WPPREC	01/05/2005
IX.3.6B-SYSTEM-WPP1CH	SUBROUTINE WPP1CH	01/05/2005
IX.3.6B-SYSTEM-WPP1MT	SUBROUTINE WPP1MT	01/05/2005
IX.3.6C-SYSTEM	Preprocessor Parametric Data Base Read/Write Common Block Descriptions	01/05/2005
IX.3.6C-SYSTEM-PPDTR	Common Block PPDTR	01/05/2005
IX.3.6C-SYSTEM-PPMCTL	Common Block PPMCTL	01/05/2005
IX.3.6C-SYSTEM-PPPDTA	Common Block PPPDTA	01/05/2005
IX.3.6C-SYSTEM-PPUNTS	Common Block PPUNTS	01/05/2005
IX.3.6C-SYSTEM-PPXCTL	Common Block PPXCTL	01/05/2005
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.3.7B-SYSTEM	Forecast Component Data Base Read/Write System Subroutine Descriptions	04/19/2005
IX.3.7B-SYSTEM-FCBLOCK	BLOCK DATA FCBLOCK	05/22/2002
IX.3.7B-SYSTEM-FCBLOCKA	BLOCK DATA FCBLOCKA	05/22/2002
IX.3.7B-SYSTEM-FCBLOCKO	BLOCK DATA FCBLOCKO	05/22/2002
IX.3.7B-SYSTEM-FPUTCO	SUBROUTINE FPUTCO	12/18/2001
IX.3.7B-SYSTEM-FPUTSG	SUBROUTINE FPUTSG	12/18/2001
IX.3.7C-SYSTEM	Forecast System Forecast Component Data Base Read/Write Common Block Descriptions	04/19/2005
IX.3.7C-SYSTEM-FCCGD	Common Block FCCGD	01/11/2002
IX.3.7C-SYSTEM-FCSEGN	Common Block FCSEGN	01/09/2002
IX.3.7C-SYSTEM-FCSGNN	Common Block FCSGNN	01/09/2002

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.3.7C-SYSTEM-FRATNG	Common Block FRATNG	12/21/2001
IX.4	Forecast Systems Data File and Data Base Descriptions	04/21/2005
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.4A-SYSTEM	Operational Forecast System Data Base Locks	01/18/2005
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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
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 PPPARMn	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	07/22/2004

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.4.3C-USER	Parameters Preprocessor Parametric Data Base Parameter Array USER: User General Parameters	07/22/2004
IX.4.3C-XGRD	Preprocessor Parametric Data Base Parameter Array XGRD: MAPX Grid Point Definition Parameters	07/22/2004
IX.4.3C-SYSTEM	Preprocessor Parametric Data Base System Parameter Array Contents	09/22/2004
IX.4.3C-SYSTEM-GBOX	Preprocessor Parametric Data Base Parameter Array GBOX: WGRFC Grid System Degree Box Parameters	09/08/2004
IX.4.3C-SYSTEM-GMDR	Preprocessor Parametric Data Base Parameter Array GMDR: WGRFC Grid System Grid Point MDR Box Parameters	09/08/2004
IX.4.3C-SYSTEM-GP24	Preprocessor Parametric Data Base Parameter Array GP24: WGRFC Grid System Station Grid Point Location Parameters	09/08/2004
IX.4.3C-SYSTEM-MARO	Preprocessor Parametric Data Base Parameter Array MARO: WGRFC Grid System Mean Areal Runoff (MARO) Area Parameters	09/08/2004
IX.4.3C-SYSTEM-OG24	Preprocessor Parametric Data Base Parameter Array OG24: WGRFC Grid System Grid Point Station Alphabetical Order Parameters	09/08/2004
IX.4.3C-SYSTEM-RFRO	Preprocessor Parametric Data Base Parameter Array RFRO: WGRFC Grid System Rainfall-Runoff Relation Constant Parameters	09/08/2004
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

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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.4.5C-SYSTEM	Forecast Component Data Base File Interactions	04/19/2005
IX.4.5C-SYSTEM-CGDEF	Program FCINIT Command CGDEF	04/19/2005
IX.4.5C-SYSTEM-DEF-RC	Program FCINIT Command DEF-RC	04/19/2005
IX.4.5C-SYSTEM-DELETE	Program FCINIT Command DELETE	04/19/2005
IX.4.5C-SYSTEM-FGDEF	Program FCINIT Commands FGDEF and SPECIALFG	04/19/2005
IX.4.5C-SYSTEM-RESEGDEF	Program FCINIT Command RESEGDEF	04/19/2005
IX.4.5C-SYSTEM-SEGDATE	Program FCINIT Command SEGDATE	04/19/2005
IX.4.5C-SYSTEM-SEGDEF	Program FCINIT Command SEGDEF	04/19/2005
IX.4.4.6	Extended Streamflow Prediction System Data File Description	07/22/2004
IX.4.4.6B	Extended Streamflow Prediction System Data File Descriptions	04/21/2005
IX.4.4.6B-ESPPARM	Extended Streamflow Prediction System File ESPPARM	04/21/2005
IX.4.4.7	Flash Flood Guidance (FFG) System File Descriptions	04/21/2005
IX.4.4.7A	Flash Flood Guidance (FFG) System File Descriptions	04/21/2005
IX.4.4.7A-AFFG	FFGS File /affg/[id]	04/21/2005
IX.4.4.7A-CARY	FFGS File /cary/[id]	04/21/2005
IX.4.4.7A-GDPM	FFGS File /gdpm/id	04/21/2005
IX.4.4.7A-GRIDX	FFGS Files /grff/xhr[d] and /grro/xhr[d]	04/21/2005
IX.4.4.7A-GRPP	FFGS File /grpp/[id]	04/21/2005
IX.4.4.7A-HFFG	FFGS File /hffg/[id]	04/21/2005
IX.4.4.7A-INDEX	FFGS File /[dir]/index	04/21/2005
IX.4.4.7A-PROD	FFGS File /prod/[id]	04/21/2005
IX.4.4.7A-TEXT	FFGS File /text/[id]	04/21/2005
IX.4.4.7A-USER	FFGS File /user/usrinfo	04/21/2005
IX.4.4.7A-WSUP	FFGS File /wsup/[id]	04/21/2005
IX.4.4.7B	Contents of Flash Flood Guidance (FFG) System Parameter Arrays	04/21/2005
IX.4.4.7B-AFFG	FFG Parameter Type AFFG	04/21/2005
IX.4.4.7B-CARY	FFG Parameter Type CARY	04/21/2005
IX.4.4.7B-GDPM	FFG Parameter Type GDPM	04/21/2005
IX.4.4.7B-GRID	FFG Parameter Types GRRO AND GRFF	04/21/2005
IX.4.4.7B-GRIDX	FFG Parameter Types GRRO and GRFF	04/21/2005
IX.4.4.7B-GRPP	FFG Parameter Type GRPP	04/21/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
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
IX.6.1-SYSTEM	Extended Streamflow Prediction (ESP) Internal System Arrays	04/19/2005
IX.6.1-SYSTEM-A	Extended Streamflow Prediction Internal Array A	04/19/2005
IX.6.2-SYSTEM	Extended Streamflow Prediction (ESP) System Subroutine Descriptions	04/19/2005
IX.6.2-SYSTEM-EACDRV	SUBROUTINE EACDRV	02/22/2005
IX.6.2-SYSTEM-EACTIM	SUBROUTINE EACTIM	02/22/2005
IX.6.2-SYSTEM-EADJ	SUBROUTINE EADJ	02/22/2005
IX.6.2-SYSTEM-EANLYZ	SUBROUTINE EANLYZ	02/22/2005
IX.6.2-SYSTEM-EBLNPP	SUBROUTINE EBLNPP	02/22/2005
IX.6.2-SYSTEM-ECALBF	SUBROUTINE ECALBF	02/22/2005
IX.6.2-SYSTEM-ECARDF	SUBROUTINE ECARDF	02/22/2005
IX.6.2-SYSTEM-ECDFNI	FUNCTION ECDFNI	02/22/2005
IX.6.2-SYSTEM-ECHKTS	SUBROUTINE ECHKTS	02/22/2005
IX.6.2-SYSTEM-ECNV	SUBROUTINE ECVN	02/22/2005
IX.6.2-SYSTEM-ECOBCK	SUBROUTINE ECOBCK	02/22/2005
IX.6.2-SYSTEM-ECONVT	SUBROUTINE ECONVT	02/22/2005
IX.6.2-SYSTEM-EDEFSG	SUBROUTINE EDEFSG	02/22/2005
IX.6.2-SYSTEM-EDELSG	SUBROUTINE EDELSG	02/22/2005
IX.6.2-SYSTEM-EDEX01	SUBROUTINE EDEX01	03/02/2005
IX.6.2-SYSTEM-EDEX02	SUBROUTINE EDEX02	03/02/2005
IX.6.2-SYSTEM-EDFLTI	FUNCTION EDFLTI	02/22/2005
IX.6.2-SYSTEM-EDIN01	SUBROUTINE EDIN01	02/22/2005
IX.6.2-SYSTEM-EDIN02	SUBROUTINE EDIN02	02/22/2005
IX.6.2-SYSTEM-EDIS	SUBROUTINE EDIS	02/22/2005
IX.6.2-SYSTEM-EDSDRV	SUBROUTINE EDSDRV	02/22/2005
IX.6.2-SYSTEM-EDSPA	SUBROUTINE EDSPA	02/22/2005
IX.6.2-SYSTEM-EDSUNT	SUBROUTINE EDSUNT	02/22/2005

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.6.2-SYSTEM-EEBLOCKU	BLOCK DATA EEBLOCKU	02/22/2005
IX.6.2-SYSTEM-EEBLOCKX	BLOCK DATA EEBLOCKX	02/22/2005
IX.6.2-SYSTEM-EFAZE0	SUBROUTINE EFAZE0	02/22/2005
IX.6.2-SYSTEM-EFAZE1	SUBROUTINE EFAZE1	02/22/2005
IX.6.2-SYSTEM-EFAZE2	SUBROUTINE EFAZE2	02/22/2005
IX.6.2-SYSTEM-EFCLST	SUBROUTINE EFCLST	02/22/2005
IX.6.2-SYSTEM-EFINTS	SUBROUTINE EFINTS	02/22/2005
IX.6.2-SYSTEM-EFNDSG	SUBROUTINE EFNDSG	02/22/2005
IX.6.2-SYSTEM-EFNORE	SUBROUTINE EFNORE	02/22/2005
IX.6.2-SYSTEM-EFREQ	SUBROUTINE EFREQ	02/22/2005
IX.6.2-SYSTEM-EGEX01	SUBROUTINE EGEX01	02/22/2005
IX.6.2-SYSTEM-EGEX02	SUBROUTINE EGEX02	02/22/2005
IX.6.2-SYSTEM-EGIN01	SUBROUTINE EGIN01	02/22/2005
IX.6.2-SYSTEM-EGIN02	SUBROUTINE EGIN02	02/22/2005
IX.6.2-SYSTEM-EGOPLT	SUBROUTINE EGOPLT	02/22/2005
IX.6.2-SYSTEM-EHEAD	SUBROUTINE EHEAD	02/22/2005
IX.6.2-SYSTEM-EHEAD1	SUBROUTINE EHEAD1	02/22/2005
IX.6.2-SYSTEM-EHEAD2	SUBROUTINE EHEAD2	02/22/2005
IX.6.2-SYSTEM-EILSGO	SUBROUTINE EILSGO	02/22/2005
IX.6.2-SYSTEM-EILUVO	SUBROUTINE EILUVO	02/22/2005
IX.6.2-SYSTEM-EIPOS	SUBROUTINE EIPOS	02/22/2005
IX.6.2-SYSTEM-ELTFIT	SUBROUTINE ELTFIT	02/22/2005
IX.6.2-SYSTEM-EMINMX	SUBROUTINE EMINMX	02/22/2005
IX.6.2-SYSTEM-EMNX	SUBROUTINE EMNX	02/22/2005
IX.6.2-SYSTEM-EMOM2	SUBROUTINE EMOM2	02/22/2005
IX.6.2-SYSTEM-EMOM3	SUBROUTINE EMOM3	02/22/2005
IX.6.2-SYSTEM-EMPFIT	SUBROUTINE EMPFIT	02/22/2005
IX.6.2-SYSTEM-ENFIT	SUBROUTINE ENFIT	02/22/2005
IX.6.2-SYSTEM-EPG	SUBROUTINE EPG	02/22/2005
IX.6.2-SYSTEM-EPLOT	SUBROUTINE EPLOT	02/22/2005
IX.6.2-SYSTEM-EPP	SUBROUTINE EPP	02/22/2005
IX.6.2-SYSTEM-EPPG	SUBROUTINE EPPG	02/22/2005
IX.6.2-SYSTEM-EPRD01	SUBROUTINE EPRD01	02/22/2005
IX.6.2-SYSTEM-EPRD02	SUBROUTINE EPRD02	02/22/2005
IX.6.2-SYSTEM-EPRG01	SUBROUTINE EPRG01	02/22/2005
IX.6.2-SYSTEM-EPRG02	SUBROUTINE EPRG02	02/22/2005
IX.6.2-SYSTEM-EPRHD	SUBROUTINE EPRHD	02/22/2005
IX.6.2-SYSTEM-EPRINT	SUBROUTINE EPRINT	02/22/2005
IX.6.2-SYSTEM-EPRP	SUBROUTINE EPRP	02/22/2005
IX.6.2-SYSTEM-EPRSEG	SUBROUTINE EPRSEG	02/22/2005
IX.6.2-SYSTEM-EPRTS	SUBROUTINE EPRTS	02/22/2005
IX.6.2-SYSTEM-EPUNCH	SUBROUTINE EPUNCH	02/22/2005
IX.6.2-SYSTEM-ERDAN	SUBROUTINE ERDAN	02/22/2005
IX.6.2-SYSTEM-ERDCMD	SUBROUTINE ERDCMD	02/22/2005
IX.6.2-SYSTEM-ERDDFL	SUBROUTINE ERDDFL	02/22/2005
IX.6.2-SYSTEM-ERDHST	SUBROUTINE ERDHST	02/22/2005
IX.6.2-SYSTEM-EREAD	SUBROUTINE EREAD	02/22/2005
IX.6.2-SYSTEM-ERNCHK	SUBROUTINE ERNCHK	02/22/2005
IX.6.2-SYSTEM-ESETA	SUBROUTINE ESETA	02/22/2005
IX.6.2-SYSTEM-ESETFT	SUBROUTINE ESETFT	02/22/2005
IX.6.2-SYSTEM-ESETSM	SUBROUTINE ESETSM	02/22/2005
IX.6.2-SYSTEM-ESGCHK	SUBROUTINE ESGCHK	02/22/2005
IX.6.2-SYSTEM-ESGINF	SUBROUTINE ESGINF	02/22/2005
IX.6.2-SYSTEM-ESHFT	SUBROUTINE ESHFT	02/22/2005
IX.6.2-SYSTEM-ESINCR	SUBROUTINE ESINCR	02/22/2005
IX.6.2-SYSTEM-ESPEX	SUBROUTINE ESPEX	02/22/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.6.2-SYSTEM-ESPRDF	SUBROUTINE ESPRDF	02/22/2005
IX.6.2-SYSTEM-ESPTS	SUBROUTINE ESPTS	02/22/2005
IX.6.2-SYSTEM-ESPWTF	SUBROUTINE ESPWTF	02/22/2005
IX.6.2-SYSTEM-ESTABL	SUBROUTINE ESTABL	02/22/2005
IX.6.2-SYSTEM-ESTRT	SUBROUTINE ESTRT	02/22/2005
IX.6.2-SYSTEM-ESTS	SUBROUTINE ESTS	02/22/2005
IX.6.2-SYSTEM-ESYMB	SUBROUTINE ESYMB	02/22/2005
IX.6.2-SYSTEM-ETITLE	SUBROUTINE ETITLE	02/22/2005
IX.6.2-SYSTEM-ETMCHK	SUBROUTINE ETMCHK	02/22/2005
IX.6.2-SYSTEM-ETMEX	SUBROUTINE ETMEX	02/22/2005
IX.6.2-SYSTEM-ETRAN	SUBROUTINE ETRAN	02/22/2005
IX.6.2-SYSTEM-ETRANI	SUBROUTINE ETRANI	02/22/2005
IX.6.2-SYSTEM-ETSDEF	SUBROUTINE ETSDEF	02/22/2005
IX.6.2-SYSTEM-ETSRD	SUBROUTINE ETSRD	02/22/2005
IX.6.2-SYSTEM-ETSWT	SUBROUTINE ETSWT	02/22/2005
IX.6.2-SYSTEM-EUPDAT	SUBROUTINE EUPDAT	02/22/2005
IX.6.2-SYSTEM-EVAC01	SUBROUTINE EVAC01	02/22/2005
IX.6.2-SYSTEM-EVAC02	SUBROUTINE EVAC02	02/22/2005
IX.6.2-SYSTEM-EVAC03	SUBROUTINE EVAC03	02/22/2005
IX.6.2-SYSTEM-EVAC04	SUBROUTINE EVAC04	02/22/2005
IX.6.2-SYSTEM-EVAC05	SUBROUTINE EVAC05	02/22/2005
IX.6.2-SYSTEM-EVAC06	SUBROUTINE EVAC06	02/22/2005
IX.6.2-SYSTEM-EVAC07	SUBROUTINE EVAC07	02/22/2005
IX.6.2-SYSTEM-EVAC08	SUBROUTINE EVAC08	02/22/2005
IX.6.2-SYSTEM-EWRIT	SUBROUTINE EWRIT	02/22/2005
IX.6.2-SYSTEM-EWTDFL	SUBROUTINE EWTDFL	02/22/2005
IX.6.2-SYSTEM-EWTINF	SUBROUTINE EWTINF	02/22/2005
IX.6.2-SYSTEM-FUN004	SUBROUTINE FUN004	02/22/2005
IX.6.3-SYSTEM	Extended Streamflow Prediction (ESP) System Common Block Descriptions	04/19/2005
IX.6.3-SYSTEM-EA	Common Block EA	02/22/2005
IX.6.3-SYSTEM-EACC	Common Block EACC	02/22/2005
IX.6.3-SYSTEM-EBLEND	Common Block EBLEND	02/22/2005
IX.6.3-SYSTEM-EDATA	Common Block EDATA	02/22/2005
IX.6.3-SYSTEM-EFDATE	Common Block EFDATE	02/22/2005
IX.6.3-SYSTEM-EFUTP	Common Block EFUTP	02/22/2005
IX.6.3-SYSTEM-ELIMIT	Common Block ELIMIT	02/22/2005
IX.6.3-SYSTEM-EMOD	Common Block EMOD	02/22/2005
IX.6.3-SYSTEM-EOUTPT	Common Block EOUTPT	02/22/2005
IX.6.3-SYSTEM-EP	Common Block EP	02/22/2005
IX.6.3-SYSTEM-EPARM	Common Block EPARM	02/22/2005
IX.6.3-SYSTEM-EPERM	Common Block EPERM	02/22/2005
IX.6.3-SYSTEM-ESCRAT	Common Block ESCRAT	02/22/2005
IX.6.3-SYSTEM-ESP	Common Block ESP	02/22/2005
IX.6.3-SYSTEM-ESPFLE	Common Block ESPFLE	02/22/2005
IX.6.3-SYSTEM-ESPREC	Common Block ESPREC	02/22/2005
IX.6.3-SYSTEM-ESPRUN	Common Block ESPRUN	02/22/2005
IX.6.3-SYSTEM-ESPSEG	Common Block ESPSEG	02/22/2005
IX.6.3-SYSTEM-ESWTCH	Common Block ESWTCH	02/22/2005
IX.6.3-SYSTEM-ETIME	Common Block ETIME	02/22/2005
IX.6.3-SYSTEM-ETS	Common Block ETS	02/22/2005
IX.6.3-SYSTEM-ETSDAT	Common Block ETSDAT	02/22/2005
IX.6.3-SYSTEM-EUNIT	Common Block EUNIT	02/22/2005
IX.6.3-SYSTEM-EVAR	Common Block EVAR	02/22/2005
IX.6.3-SYSTEM-EYRWT	Common Block EYRWT	02/22/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.7-SYSTEM	Flash Flood Guidance (FFG) System Modules	05/02/2005
IX.7.1-SYSTEM	Flash Flood Guidance System (FFG) Program FFGUID Modules	05/02/2005
IX.7.1A-SYSTEM	Introduction to the Flash Flood Guidance System (FFG) Program FFGUID Source Code Description	05/02/2005
IX.7.1B-SYSTEM	Flash Flood Guidance System (FFG) Program FFGUID Subroutine Descriptions	05/02/2005
IX.7.1B-SYSTEM-CALCP	SUBROUTINE CALCP	05/02/2005
IX.7.1B-SYSTEM-CALCRO	SUBROUTINE CALCRO	05/02/2005
IX.7.1B-SYSTEM-CKAREA	SUBROUTINE CKAREA	05/02/2005
IX.7.1B-SYSTEM-CPAREA	SUBROUTINE CPAREA	05/02/2005
IX.7.1B-SYSTEM-CPCARY	SUBROUTINE CPCARY	05/02/2005
IX.7.1B-SYSTEM-CPGRID	SUBROUTINE CPGRID	05/02/2005
IX.7.1B-SYSTEM-CPHED	SUBROUTINE CPHED	05/02/2005
IX.7.1B-SYSTEM-CPSUP	SUBROUTINE CPSUP	05/02/2005
IX.7.1B-SYSTEM-DUAREA	SUBROUTINE DUAREA	05/02/2005
IX.7.1B-SYSTEM-DUFFPM	SUBROUTINE DUFFPM	05/02/2005
IX.7.1B-SYSTEM-DUGDPM	SUBROUTINE DUGDPM	05/02/2005
IX.7.1B-SYSTEM-DUHED	SUBROUTINE DUHED	05/02/2005
IX.7.1B-SYSTEM-DUSUP	SUBROUTINE DUSUP	05/02/2005
IX.7.1B-SYSTEM-EDAREA	SUBROUTINE EDAREA	05/02/2005
IX.7.1B-SYSTEM-EDGDPM	SUBROUTINE EDGDPM	05/02/2005
IX.7.1B-SYSTEM-EDGRID	SUBROUTINE EDGRID	05/02/2005
IX.7.1B-SYSTEM-EDHED	SUBROUTINE EDHED	05/02/2005
IX.7.1B-SYSTEM-EDSUP	SUBROUTINE EDSUP	05/02/2005
IX.7.1B-SYSTEM-LININT	SUBROUTINE LININT	05/02/2005
IX.7.1B-SYSTEM-MBBLs	SUBROUTINE MBBLs	05/02/2005
IX.7.1B-SYSTEM-MFFPRM	SUBROUTINE MFFPRM	05/02/2005
IX.7.1B-SYSTEM-MGRID	SUBROUTINE MGRID	05/02/2005
IX.7.1B-SYSTEM-PINARE	SUBROUTINE PINARE	05/02/2005
IX.7.1B-SYSTEM-PINGPM	SUBROUTINE PINGPM	05/02/2005
IX.7.1B-SYSTEM-PINGRO	SUBROUTINE PINGRO	05/02/2005
IX.7.1B-SYSTEM-PINHED	SUBROUTINE PINHED	05/02/2005
IX.7.1B-SYSTEM-PINSUP	SUBROUTINE PINSUP	05/02/2005
IX.7.1B-SYSTEM-PUTARE	SUBROUTINE PUTARE	05/02/2005
IX.7.1B-SYSTEM-PUTGPM	SUBROUTINE PUTGPM	05/02/2005
IX.7.1B-SYSTEM-PUTGRO	SUBROUTINE PUTGRO	05/02/2005
IX.7.1B-SYSTEM-PUTHED	SUBROUTINE PUTHED	05/02/2005
IX.7.1B-SYSTEM-PUTSUP	SUBROUTINE PUTSUP	05/02/2005
IX.7.1B-SYSTEM-RCCI	SUBROUTINE RCCI	05/02/2005
IX.7.1B-SYSTEM-TRCARY	SUBROUTINE TRCARY	05/02/2005
IX.7.1C-SYSTEM	Flash Flood Guidance (FFG) System Common Block Descriptions	05/02/2005
IX.7.1C-SYSTEM-ARPARM	FFGS Common Block ARPARM	05/02/2005
IX.7.1C-SYSTEM-BSNSIZ	FFGS Common Block BSNSIZ	05/02/2005
IX.7.1C-SYSTEM-COUNT	FFGS Common Block COUNT	05/02/2005
IX.7.1C-SYSTEM-FFGRID	FFGS Common Block FFGRID	05/02/2005
IX.7.1C-SYSTEM-GBX	FFGS Common Block GBX	05/02/2005
IX.7.1C-SYSTEM-GDEBUG	FFGS Common Block GDEBUG	05/02/2005
IX.7.1C-SYSTEM-GFX	FFGS Common Block GFX	05/02/2005
IX.7.1C-SYSTEM-GHFLD	FFGS Common Block GHFLD	05/02/2005
IX.7.1C-SYSTEM-GIDX	FFGS Common Block GIDX	05/02/2005
IX.7.1C-SYSTEM-GPO	FFGS Common Block GPO	05/02/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.7.1C-SYSTEM-GRIDPM	FFGS Common Block GRIDPM	05/02/2005
IX.7.1C-SYSTEM-GRIDSZ	FFGS Common Block GRIDSZ	05/02/2005
IX.7.1C-SYSTEM-HWPARM	FFGS Common Block HWPARM	05/02/2005
IX.7.1C-SYSTEM-IGPARM	FFGS Common Block IGPARM	05/02/2005
IX.7.1C-SYSTEM-IODEV	FFGS Common Block IODEV	05/02/2005
IX.7.1C-SYSTEM-IODNO	FFGS Common Block IODNO	05/02/2005
IX.7.1C-SYSTEM-IUWS	FFGS Common Block IUWS	05/02/2005
IX.7.1C-SYSTEM-LINSEG	FFGS Common Block LINSEG	05/02/2005
IX.7.1C-SYSTEM-PATHS	FFGS Common Block PATHS	05/02/2005
IX.7.1C-SYSTEM-POPTNS	FFGS Common Block POPTNS	05/02/2005
IX.7.1C-SYSTEM-PROGRM	FFGS Common Block PROGRM	05/02/2005
IX.7.1C-SYSTEM-ROGRID	FFGS Common Block ROGRID	05/02/2005
IX.7.1C-SYSTEM-TIMEZ	FFGS Common Block TIMEZ	05/02/2005
IX.7.1C-SYSTEM-UINFO	FFGS Common Block UINFO	05/02/2005
IX.7.1C-SYSTEM-WSPARM	FFGS Common Block WSPARM	05/02/2005
IX.7.1C-SYSTEM-XGPO	FFGS Common Block XGPO	05/02/2005
IX.7.2-SYSTEM	Flash Flood Guidance System (FFG) Program PRODGEN Modules	05/02/2005
IX.7.2A-SYSTEM	Introduction to the Flash Flood Guidance System (FFG) Program PRODGEN Source Code Description	05/02/2005
IX.7.2B-SYSTEM	Flash Flood Guidance System (FFG) Program PRODGEN Subroutine Descriptions	05/02/2005
IX.7.2B-SYSTEM-DUGRPP	SUBROUTINE DUGRPP	05/02/2005
IX.7.2B-SYSTEM-DUPROD	SUBROUTINE DUPROD	05/02/2005
IX.7.2B-SYSTEM-DUTEXT	SUBROUTINE DUTEXT	05/02/2005
IX.7.2B-SYSTEM-EDGRPP	SUBROUTINE EDGRPP	05/02/2005
IX.7.2B-SYSTEM-EDPROD	SUBROUTINE EDPROD	05/02/2005
IX.7.2B-SYSTEM-EDTEXT	SUBROUTINE EDTEXT	05/02/2005
IX.7.2B-SYSTEM-GETDUT	SUBROUTINE GETDUT	05/02/2005
IX.7.2B-SYSTEM-GETGRP	SUBROUTINE GETGRP	05/02/2005
IX.7.2B-SYSTEM-GETPRD	SUBROUTINE GETPRD	05/02/2005
IX.7.2B-SYSTEM-GETTXT	SUBROUTINE GETTXT	05/02/2005
IX.7.2B-SYSTEM-GPAREA	SUBROUTINE GPAREA	05/02/2005
IX.7.2B-SYSTEM-GPCARY	SUBROUTINE GPCARY	05/02/2005
IX.7.2B-SYSTEM-GPCOMM	SUBROUTINE GPCOMM	05/02/2005
IX.7.2B-SYSTEM-GPDOTB	SUBROUTINE GPDOTB	05/02/2005
IX.7.2B-SYSTEM-GPGFFG	SUBROUTINE GPGFFG	05/02/2005
IX.7.2B-SYSTEM-GPGRPP	SUBROUTINE GPGRPP	05/02/2005
IX.7.2B-SYSTEM-GPHED	SUBROUTINE GPHED	05/02/2005
IX.7.2B-SYSTEM-GPISSU	SUBROUTINE GPISSU	05/02/2005
IX.7.2B-SYSTEM-GLABL	SUBROUTINE GLABL	05/02/2005
IX.7.2B-SYSTEM-GPPROD	SUBROUTINE GPPROD	05/02/2005
IX.7.2B-SYSTEM-GPSUP	SUBROUTINE GPSUP	05/02/2005
IX.7.2B-SYSTEM-GPTXT	SUBROUTINE GPTXT	05/02/2005
IX.7.2B-SYSTEM-GPUGC	SUBROUTINE GPUGC	05/02/2005
IX.7.2B-SYSTEM-LISTID	SUBROUTINE LISTID	05/02/2005
IX.7.2B-SYSTEM-MPGPRM	SUBROUTINE MPGPRM	05/02/2005
IX.7.2B-SYSTEM-PINGRP	SUBROUTINE PINGRP	05/02/2005
IX.7.2B-SYSTEM-PINPRD	SUBROUTINE PINPRD	05/02/2005
IX.7.2B-SYSTEM-PINTXT	SUBROUTINE PINTXT	05/02/2005
IX.7.2B-SYSTEM-PROCID	SUBROUTINE PROCID	05/02/2005
IX.7.2B-SYSTEM-PUTGRP	SUBROUTINE PUTGRP	05/02/2005
IX.7.2B-SYSTEM-PUTPRD	SUBROUTINE PUTPRD	05/02/2005
IX.7.2B-SYSTEM-PUTTXT	SUBROUTINE PUTTXT	05/02/2005

NWSRFS USER MANUAL ALL AND SELECTED USER OUTLINE

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
IX.7.2B-SYSTEM-SHEFPE	SUBROUTINE SHEFPE	05/02/2005
IX.7.2B-SYSTEM-WRDOTA	SUBROUTINE WRDOTA	05/02/2005
IX.7.2B-SYSTEM-WRDOTB	SUBROUTINE WRDOTB	05/02/2005
IX.7.2C-SYSTEM	Flash Flood Guidance (FFG) System Program PRODGEN Common Block Descriptions	05/02/2005
IX.7.2C-SYSTEM-GRPPAR	FFGS Common Block GRPPAR	05/02/2005
IX.7.2C-SYSTEM-PFPARM	FFGS Common Block PFPARM	05/02/2005
IX.7.2C-SYSTEM-PROPAR	FFGS Common Block PROPAR	05/02/2005
IX.7.2C-SYSTEM-TXTPAR	FFGS Common Block TXTPAR	05/02/2005
IX.7.3-SYSTEM	Flash Flood Guidance (FFG) System Shared Source Code	05/02/2005
IX.7.3A-SYSTEM	Introduction to the Flash Flood Guidance (FFG) System Shared Source Code Description	05/02/2005
IX.7.3B-SYSTEM	Flash Flood Guidance (FFG) System Shared Subroutine Descriptions	05/02/2005
IX.7.3B-SYSTEM-ADDIDX	SUBROUTINE ADDIDX	05/02/2005
IX.7.3B-SYSTEM-ADELIM	SUBROUTINE ADELIM	05/02/2005
IX.7.3B-SYSTEM-BTYPE	SUBROUTINE BTYPE	05/02/2005
IX.7.3B-SYSTEM-CKCPD	SUBROUTINE CKCPD	05/02/2005
IX.7.3B-SYSTEM-CVLLGD	SUBROUTINE CVLLGD	05/02/2005
IX.7.3B-SYSTEM-DATIMI	SUBROUTINE DATIMI	05/02/2005
IX.7.3B-SYSTEM-DATIMZ	SUBROUTINE DATIMZ	05/02/2005
IX.7.3B-SYSTEM-DISPID	SUBROUTINE DISPID	05/02/2005
IX.7.3B-SYSTEM-DSPBB	SUBROUTINE DSPBB	05/02/2005
IX.7.3B-SYSTEM-DSPGRD	SUBROUTINE DSPGRD	05/02/2005
IX.7.3B-SYSTEM-GETAR	SUBROUTINE GETAR	05/02/2005
IX.7.3B-SYSTEM-GETBB	SUBROUTINE GETBB	05/02/2005
IX.7.3B-SYSTEM-GETGPM	SUBROUTINE GETGPM	05/02/2005
IX.7.3B-SYSTEM-GETGRD	SUBROUTINE GETGRD	05/02/2005
IX.7.3B-SYSTEM-GETHED	SUBROUTINE GETHED	05/02/2005
IX.7.3B-SYSTEM-GETHIQ	SUBROUTINE GETHIQ	05/02/2005
IX.7.3B-SYSTEM-GETIDX	SUBROUTINE GETIDX	05/02/2005
IX.7.3B-SYSTEM-GETINF	SUBROUTINE GETINF	05/02/2005
IX.7.3B-SYSTEM-GETSUP	SUBROUTINE GETSUP	05/02/2005
IX.7.3B-SYSTEM-INFXDT	SUBROUTINE INFXDT	05/02/2005
IX.7.3B-SYSTEM-INT2XT	SUBROUTINE INT2XT	05/02/2005
IX.7.3B-SYSTEM-OPNLOG	SUBROUTINE OPNLOG	05/02/2005
IX.7.3B-SYSTEM-PRBUG	SUBROUTINE PRBUG	05/02/2005
IX.7.3B-SYSTEM-PRNAMV	SUBROUTINE PRNAMV	05/02/2005
IX.7.3B-SYSTEM-PSTCOD	SUBROUTINE PSTCOD	05/02/2005
IX.7.3B-SYSTEM-STRGRD	SUBROUTINE STRGRD	05/02/2005
IX.7.3B-SYSTEM-STRIDX	SUBROUTINE STRIDX	05/02/2005
IX.7.3B-SYSTEM-STRINF	SUBROUTINE STRINF	05/02/2005
IX.7.3B-SYSTEM-SUBIDX	SUBROUTINE SUBIDX	05/02/2005
IX.7.3B-SYSTEM-TYPENT	SUBROUTINE TYPENT	05/02/2005
IX.7.3B-SYSTEM-TZCNUM	SUBROUTINE TZCNUM	05/02/2005
IX.7.3B-SYSTEM-USRINF	SUBROUTINE USRINF	05/02/2005
IX.7.4-SYSTEM	Flash Flood Guidance (FFG) System Utility Subroutines	05/02/2005
IX.7.4A-SYSTEM	Introduction to the Flash Flood Guidance (FFG) System Utility Source Code Descriptions	05/02/2005
IX.7.4B-SYSTEM	Flash Flood Guidance (FFG)	05/02/2005

PART IX - System Documentation - Forecasting

<u>Document Identifier</u>	<u>Document Title</u>	<u>Document Date</u>
	System Utility Subroutine Descriptions	
IX.7.4B-SYSTEM-DEGCON	SUBROUTINE DEGCON	05/02/2005
IX.7.4B-SYSTEM-EDVCA	SUBROUTINE EDVCA	05/02/2005
IX.7.4B-SYSTEM-EDVCAG	SUBROUTINE EDVCAG	05/02/2005
IX.7.4B-SYSTEM-EDVI	SUBROUTINE EDVI	05/02/2005
IX.7.4B-SYSTEM-EDVIAG	SUBROUTINE EDVIAG	05/02/2005
IX.7.4B-SYSTEM-EDVID	SUBROUTINE EDVID	05/02/2005
IX.7.4B-SYSTEM-EDVRA	SUBROUTINE EDVRA	05/02/2005
IX.7.4B-SYSTEM-EDVRAG	SUBROUTINE EDVRAG	05/02/2005
IX.7.4B-SYSTEM-EDWTID	SUBROUTINE EDWTID	05/02/2005
IX.7.4B-SYSTEM-UC2IR	SUBROUTINE UC2IR	05/02/2005
IX.7.4B-SYSTEM-UCW2C1	SUBROUTINE UCW2C1	05/02/2005
IX.7.4B-SYSTEM-UCW2C4	SUBROUTINE UCW2C4	05/02/2005
IX.7.4B-SYSTEM-UFFCH	SUBROUTINE UFFCH	05/02/2005
IX.7.4B-SYSTEM-UFFIR	SUBROUTINE UFFIR	05/02/2005
IX.7.4B-SYSTEM-UI2C4	SUBROUTINE UI2C4	05/02/2005
IX.7.5-SYSTEM	Flash Flood Guidance System (FFG) Data Base Access Subroutines	05/02/2005
IX.7.5A-SYSTEM	Introduction to the Flash Flood Guidance (FFG) System Data Base Access Source Code Description	05/02/2005
IX.7.5B-SYSTEM	Flash Flood Guidance System (FFG) Data Base Access Subroutine Descriptions	05/02/2005
IX.7.5B-SYSTEM-DEVNUM	SUBROUTINE DEVNUM	05/02/2005
IX.7.5B-SYSTEM-DRNAME	SUBROUTINE DRNAME	05/02/2005
IX.7.5B-SYSTEM-ENVFIX	SUBROUTINE ENVFIX	05/02/2005
IX.7.5B-SYSTEM-FIXFIL	SUBROUTINE FIXFIL	05/02/2005
IX.7.5B-SYSTEM-FIXOPN	SUBROUTINE FIXOPN	05/02/2005
IX.7.5B-SYSTEM-MKFNAM	SUBROUTINE MKFNAM	05/02/2005
IX.7.5B-SYSTEM-RDXMRG	SUBROUTINE RDXMRG	05/02/2005
IX.7.5B-SYSTEM-RPPFIL	SUBROUTINE RPPFIL	05/02/2005
IX.7.5B-SYSTEM-WPPFIL	SUBROUTINE WPPFIL	05/02/2005
IX.7.5B-SYSTEM-WRXMRG	SUBROUTINE WRXMRG	05/02/2005
IX.7.6-SYSTEM	GRIBIT Program GRIB Encoder Modules	05/02/2005
IX.7.6A-SYSTEM	Introduction to the FFGS GRIBIT Module Source Code Descriptions	05/02/2005
IX.7.6B-SYSTEM	GRIBIT (GRIB Encoder) Subroutine Description	05/02/2005

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