

RIVER MODEL ACRONYMS

The following are some of the acronyms used in river modeling. If you have a suggestion for another listing, please contact Teresa Murphy at teresa.murphy@noaa.gov or 816.994.3022.

Acronym	Definition	Category
ADIMC	Additional Impervious Area	SAC-SMA STATE MODIFIERS
ADIMF	Additional Impervious Area Fraction	SAC-SMA STATES FRACTIONS
ADIMM	Additional Impervious Area Max	SAC-SMA STATE MODIFIERS
AEIS	Antecedent Evaporation Index	EVAPORATION
AESC	Areal extent of Snow Cover	SNOW17 MODIFIERS FRACTIONAL
AESCCHNG	Areal extent of Snow Cover Change	SNOW17 MODIFIERS FRACTIONAL
AQME	River Discharge Adjusted Mean	DISCHARGE MEAN
AQME	River Discharge Observed Mean	DISCHARGE MEAN
BFC	Recession Coefficient Baseflow	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
CSTO	Reservoir Storage Change	RESERVOIR STORAGE
CVX	Coefficient of Variation Instantaneous	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
DFAC	Dimensionless Factor Simulated Instantaneous	DIMENSIONLESS REAL
DIR_RO	Direct Runoff	RUNOFF
DQIE	Diversion Flow Observed+Projected Instantaneous	DISCHARGE
DQIN	Diversion Flow Observed+Projected Instantaneous	DISCHARGE
DQME	Diversion Flow Observed+Projected Mean	DISCHARGE MEAN
DQMP	Diversion Flow Observed+Projected Mean	DISCHARGE MEAN
EPAN	Evaporation Pan	EVAPORATION
EPL	Evaporation Lake	EVAPORATION

Acronym	Definition	Category
FBEL	Reservoir Forebay Elevation (Observed)	LEVEL
FEIX	Frost Efficiency Index Simulated	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
FFG	Gridded Flash Flood Guidance	FLASH FLOOD GUIDANCE
FFH	Headwater Guidance	HEADWATER GUIDANCE
FGDP	Frost Depth Observed	FROST DEPTH
FGINDEX	Frozen Ground Index	TEMPERATURE (DEGF)
FGIX	Frost Index Simulated Instantaneous	FROZEN GROUND INDEX
FLE	Freezing Level Estimate	ELEVATION MEAN
FLF	Freezing Level Forecast	ELEVATION MEAN
FMAP	Precipitation Areal Mean (Forecast)	PRECIPITATION
FMAPE	Forecasted Evapotranspiration Potential Areal Mean	EVAPOTRANSPIRATION
FMAPX	Gridded Precipitation Areal Mean Forecast	PRECIPITATION
FMAT	Air Temperature Areal Mean (Forecast)	MEAN TEMPERATURE
FMATX	Gridded Air Temperature (Forecast)	MEAN TEMPERATURE
FRZD	Frost Depth	FROST DEPTH
GATE	Gate Openings Observed+Projected	GATE
GCS	Gate Control Switch	DIMENSIONLESS INSTANTANEOUS
GOUT	Glacier Outflow Melt	RUNOFF
GTCS	Gate Control Switch	DIMENSIONLESS INSTANTANEOUS
GWRO	Groundwater (baseflow)	RUNOFF
HDAT	Hours to Date of an Observation	TIME
ICET	Ice Thickness Observed	FROST DEPTH
IMP_RO	Impervious Runoff	RUNOFF
INFW	Runoff Inflow to Channel	RUNOFF
INT_RO	Intermediate Runoff	RUNOFF

Acronym	Definition	Category
KP	Assimilator Precipitation Multiplier	DIMENSIONLESS REAL MEAN
LAKH	Tailwater Stage Spillway Observed	LEVEL
LELV	Lake Height Observed	LEVEL
LIQW	Liquid Water in Snowpack	PRECIPITATION
LZFPC	Lower Zone Free Primary Content	SAC-SMA STATE MODIFIERS
LZFPF	Lower Zone Free Primary Fraction	SAC-SMA STATES FRACTIONS
LZFPM	Lower Zone Free Primary Max	SAC-SMA STATE MODIFIERS
LZFSC	Lower Zone Free Supplemental Content	SAC-SMA STATE MODIFIERS
LZFSF	Lower Zone Free Supplemental Fraction	SAC-SMA STATES FRACTIONS
LZFSM	Lower Zone Free Supplemental Max	SAC-SMA STATE MODIFIERS
LZP	Lower Zone Water Percentage	SAC-SMA STATE MODIFIERS
LZTDEF	Lower Zone Tension Water Deficit	SAC-SMA STATE MODIFIERS
LZTWC	Lower Zone Tension Water Content	SAC-SMA STATE MODIFIERS
LZTWD	Lower Zone Tension Water Deficit	SAC-SMA STATE MODIFIERS
LZTWF	Lower Zone Tension Water Fraction	SAC-SMA STATES FRACTIONS
LZTWM	Lower Zone Tension Water Max	SAC-SMA STATE MODIFIERS
MAP	Precipitation Areal Mean	PRECIPITATION
MAPE	Evapotranspiration Potential Areal Mean	EVAPOTRANSPIRATION
MAPG	Grid Precipitation Areal Mean	PRECIPITATION
MAPI	API Areal Mean	API
MAPX	Gridded Precipitation Areal Mean Estimated	PRECIPITATION
MARO	Runoff Areal Mean	RUNOFF
MAT	Air Temperature Areal Mean	MEAN TEMPERATURE
MATX	Gridded Temperature Areal Mean	MEAN TEMPERATURE
MAWE	Snow Cover Water Equivalent Areal Mean	SNOW COVER DEPTH

Acronym	Definition	Category
MFC	Melt factor coefficient	SNOW17 MODIFIERS REAL
MOPE	Evapotranspiration Potential from Monthly Mean	EVAPOTRANSPIRATION
NEGHS	Negative Heat Storage	ENERGY
NFBD	Flash Boards Down Number Observed+Projected	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
OPKS	Peak within Fixed Window Observed	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
PCFD	Diverted Flow from Channel Percent	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
PELE	Reservoir Pool Elevation (Simulated)	LEVEL
PELV	Reservoir Pool Elevation (Observed)	LEVEL
PLDS	Simulated Value at Fixed Lead	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
PP24	Observed precipitation (24 hour)	PRECIPITATION
PPVR	Observed precipitation (less than 24 hour)	PRECIPITATION
PQNET	Net Energy Flux	ENERGY
PRAIN	Precipitation as Rain	PRECIPITATION
PRI_RO	Primary Runoff	RUNOFF
PSFALL	Precipitation as Snow	PRECIPITATION
PSRO	Runoff Surface Percent	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
PTPE	Evapotranspiration Potential Point	EVAPOTRANSPIRATION
PTPP	Precipitation Point Missing not allowed	PRECIPITATION
PTPS	Precipitation Snowfall (Fraction)	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
PTPX	Precipitation Point Missing allowed	PRECIPITATION
QIN	River Discharge Observed	DISCHARGE

Acronym	Definition	Category
	Instantaneous	
QINE	River Discharge Adjusted Instantaneous	DISCHARGE
QINH	River Discharge Computed Instantaneous	DISCHARGE
QME	Discharge Mean	DISCHARGE
QPE	Precipitation Observed Gridded	PRECIPITATION
QPF	Precipitation Forecast Gridded	PRECIPITATION
QTE	Quantitative Temperature Estimate (Gridded)	TEMPERATURE (DEGF)
QTF	Quantitative Temperature Forecast (Gridded)	TEMPERATURE (DEGF)
RAIM	Precipitation Rain + Melt	PRECIPITATION
RAINSNOW	Rain/Snow switch	SNOW17 MODIFIERS INSTANTANEOUS
ROCL	Runoff Components (SAC)	RUNOFF
RQGM	Power Generation Observed Mean	DISCHARGE MEAN
RQIE	Reservoir Outflow (Observed and Projected)	DISCHARGE
RQIM	Reservoir Inflow Observed Mean	DISCHARGE MEAN
RQIN	Reservoir Inflow (Observed)	DISCHARGE
RQME	Reservoir Outflow (Observed and Projected) Mean	DISCHARGE MEAN
RQMP	Reservoir Outflow (Observed and Projected) Mean	DISCHARGE MEAN
RQOT	Reservoir Outflow (Observed and Projected)	DISCHARGE
RQSW	Reservoir Spillway Observed	DISCHARGE
RSEL	Rain-Snow Elevation	ELEVATION MEAN
RSTE	Reservoir Storage (Adjusted)	RESERVOIR STORAGE

Acronym	Definition	Category
RSTO	Reservoir Storage (Observed)	RESERVOIR STORAGE
SACBASEF	Baseflow Correction Coefficient	SACSMA MODIFIERS - REAL NUMBERS
SASC	Snow Cover Areal Extent (Simulated)	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
SDQI	Diversion Flow Simulated Instantaneous	DISCHARGE
SDQM	Diversion Flow Simulated Mean	DISCHARGE MEAN
SETQMEAN	Mean Outflow	RESSNGL MODIFIERS
SFGD	Frost Index Simulated Instantaneous	FROST DEPTH
SLSM	Temperature	TEMPERATURE (DEGF)
SMZC	Soil Moisture Storage (SAC)	SAC-SMA STATE MODIFIERS
SNOF	Snowfall Depth Observed	PRECIPITATION
SNOG	Snow Cover Depth (Observed)	SNOW COVER DEPTH
SNSG	Snow Cover Depth (Simulated)	SNOW COVER DEPTH
SNTMP	Simulated Snow Temperature	TEMPERATURE (DEGF)
SNWE	Snow Cover Water Equivalent (Observed)	SNOW COVER DEPTH
SPEL	Reservoir Pool Stage (Simulated)	LEVEL
SPKS	Peak within Fixed Window Simulated	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE
SQIB	River Discharge Sim (inst begin)	DISCHARGE
SQIE	River Discharge Sim (inst end)	DISCHARGE
SQIN	River Discharge Simulated Instantaneous	DISCHARGE
SQME	River Discharge Simulated Mean	DISCHARGE MEAN
SRSO	Reservoir Storage (Simulated)	RESERVOIR STORAGE
SST	Simulated Snow Temperature	TEMPERATURE (DEGF)
SSTG	River Stage Simulated	LEVEL
STG	River Stage Observed	LEVEL

Acronym	Definition	Category
STGE	River Stage Adjusted	LEVEL
STGH	River Stage Computed Instantaneous	LEVEL
STID	Simulated Tide NOS-Generated Instantaneous	LEVEL
STW	Tail Water Stage (Simulated)	LEVEL
SUP_RO	Supplementary Runoff	RUNOFF
SUR_RO	Surface Runoff	RUNOFF
SURO	Runoff Storm	RUNOFF
SVIN	River Velocity Simulated Mean	VELOCITY
SWE	Snow Cover Water Equivalent (Simulated)	SNOW COVER DEPTH
TAIN	Air Temperature Point Instantaneous	TEMPERATURE (DEGF)
TAMN	Observed Air Temperature (24 hour Minimum)	TEMPERATURE (DEGF)
TAMX	Observed Air Temperature (24 hour Maximum)	TEMPERATURE (DEGF)
TAVG	Air Temperature Point Mean	MEAN TEMPERATURE
TAVR	Observed Air Temperature (Instantaneous)	TEMPERATURE (DEGF)
TCI	Total Channel Info	RUNOFF
TFMN	Forecast Air Temperature (24 hour Minimum)	TEMPERATURE (DEGF)
TFMX	Forecast Air Temperature (24 hour Maximum)	TEMPERATURE (DEGF)
TID	Observed Tide Instantaneous	LEVEL
TIDE	Adjusted Tide Observed+Projected Instantaneous	LEVEL
TWEL	Tail Water Stage Observed	LEVEL
TWSW	Tailwater Stage Spillway Observed	LEVEL
UADJ	Average wind function adjustment	SNOW17 MODIFIERS REAL

Acronym	Definition	Category
UZFWC	Upper Zone Free Water Content	SAC-SMA STATE MODIFIERS
UZFWF	Upper Zone Free Water Fraction	SAC-SMA STATES FRACTIONS
UZFWM	Upper Zone Free Water Max	SAC-SMA STATE MODIFIERS
UZP	Upper Zone Water Percentage	SAC-SMA STATE MODIFIERS
UZTDEF	Upper Zone Tension Water Deficit	SAC-SMA STATE MODIFIERS
UZTWC	Upper Zone Tension Water Content	SAC-SMA STATE MODIFIERS
UZTWD	Upper Zone Tension Water Deficit	SAC-SMA STATE MODIFIERS
UZTWF	Upper Zone Tension Water Fraction	SAC-SMA STATES FRACTIONS
UZTWM	Upper Zone Tension Water Max	SAC-SMA STATE MODIFIERS
VSQI	Standard Error Discharge Simulated Instantaneous	DISCHARGE
VSQM	Standard Error Discharge Simulated Mean	DISCHARGE MEAN
WE	Water Equivalent	SNOW17 MODIFIERS
WEADD	Water Equivalent Addition	SNOW17 MODIFIERS
WECHNG	Water Equivalent Change	SNOW17 MODIFIERS
ZELF	Freezing Level (Projected)	ELEVATION MEAN
ZELV	Freezing Level (Observed)	ELEVATION MEAN
ZRX	Zero Rain Fraction Instantaneous	DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE