Command Reference: SetStreamEstimateCoefficientsPFGage()

Set stream estimate coefficients to use a specific gage for proration factor calculations

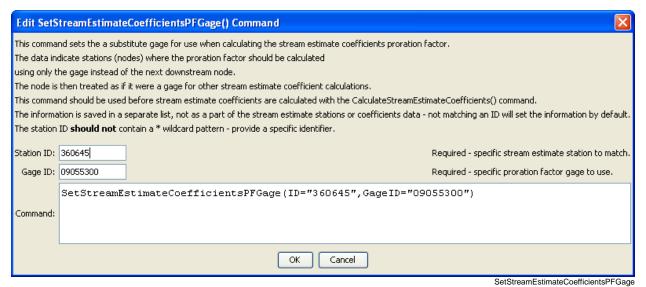
StateMod Command

Version 3.09.01, 2010-02-01

The SetStreamEstimateCoefficientsPFGage() command indicates that the proration factor for a specified station/node should be calculated using only the area*precipitation value for the specified stream gage, rather than the next downstream node. The station/node is then treated as if it were a stream gage node for other natural flow calculations (as carried out by the

CalculateStreamEstimateCoefficients() command). These commands should be specified before the CalculateStreamEstimateCoefficients() command.

The following dialog is used to edit the command and illustrates the syntax of the command.



SetStreamEstimateCoefficientsPFGage() Command Editor

The command syntax is as follows:

SetStreamEstimateCoefficientsPFGage(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
ID	A single stream estimate station	None – must be specified.
	identifier to match.	_
GageID	A stream gage station identifier to use,	None – must be specified.
	instead of the downstream gage.	

The following command file illustrates how a StateMod stream estimate coefficients file can be created:

```
StartLog(LogFile="rib.commands.StateDMI.log")
# rib.commands.StateDMI
# Creates the Stream Estimate Station Coefficient Data file
  Step 1 - read river nodes from the network file and create file framework
ReadStreamEstimateStationsFromNetwork(InputFile="..\Network\cm2005.net")
  Step 2 - set preferred gages for "neighboring" gage approach
#
            this baseflow nodes are generally on smaller non-gaged tribs and have
            different flow characteristics than next downstream gages
#
SetStreamEstimateCoefficientsPFGage(ID="360645", GageID="09055300")
SetStreamEstimateCoefficientsPFGage(ID="360801", GageID="09055300")
SetStreamEstimateCoefficientsPFGage(ID="362002", GageID="09054000")
SetStreamEstimateCoefficientsPFGage(ID="360829", GageID="09047500")
..similar commands omitted...
# Step 3 - calculate stream coefficients
CalculateStreamEstimateCoefficients()
  Step 4 - set proration factors directly
SetStreamEstimateCoefficients(ID="364512", ProrationFactor=1.000, IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="374641",ProrationFactor=0.200,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="374648",ProrationFactor=0.350,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="380880",ProrationFactor=1.000,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="381594", ProrationFactor=0.800, IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="384617",ProrationFactor=0.700,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="510639", ProrationFactor=1.000, IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="514603",ProrationFactor=0.800,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="514620",ProrationFactor=1.000,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="510728",ProrationFactor=1.000,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="530555",ProrationFactor=0.180,IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="530678", ProrationFactor=0.230, IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="531082", ProrationFactor=1.000, IfNotFound=Warn)
SetStreamEstimateCoefficients(ID="954683", ProrationFactor=0.400, IfNotFound=Warn)
  Step 5 - create streamflow estimate coefficient file
WriteStreamEstimateCoefficientsToStateMod(OutputFile="..\StateMOD\cm2005.rib")
# Check the results
CheckStreamEstimateCoefficients(ID="*")
WriteCheckFile(OutputFile="rib.commands.StateDMI.check.html")
```