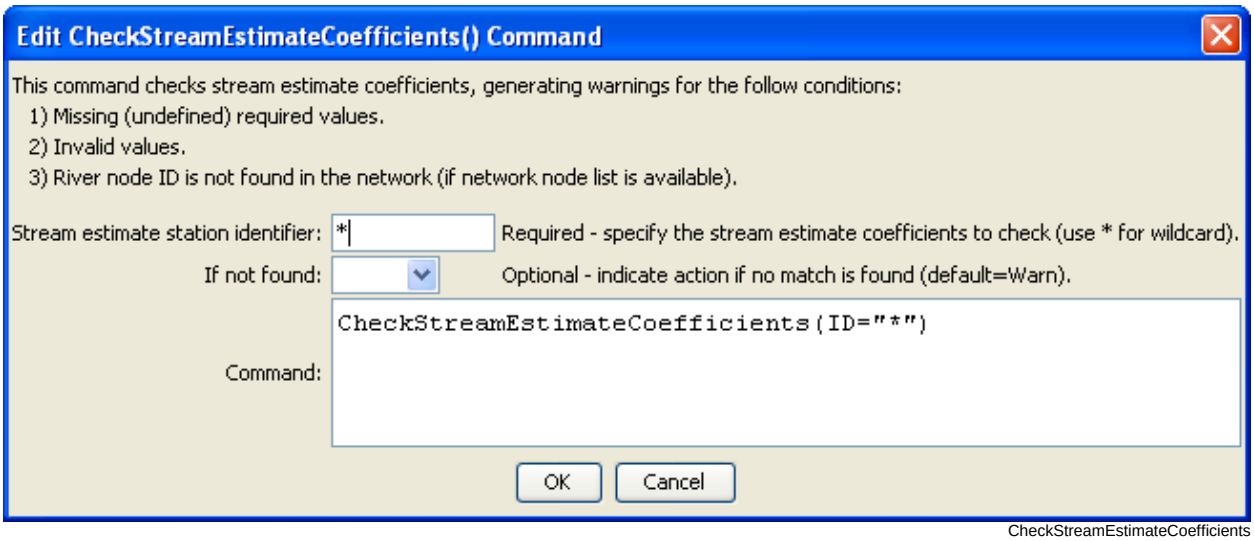
Command Reference: CheckStreamEstimateCoefficients()

Check stream estimate coefficients data for problems

StateMod Command
Version 3.09.01, 2010-02-01

The `CheckStreamEstimateCoefficients()` command checks stream estimate coefficients data for problems. The command should usually be used with a `WriteCheckFile()` command at the end of a command file.

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



CheckStreamEstimateCoefficients

CheckStreamEstimateCoefficients() Command Editor

The command syntax is as follows:

```
CheckStreamEstimateCoefficients(Parameter=Value,…)
```

Command Parameters

Parameter	Description	Default
`ID`	The identifier for the location(s) to check. Use `*` to match a pattern.	None – must be specified.
`IfNotFound`	One of the following: • `Fail` – generate a failure message if the location identifier is not matched • `Ignore` – ignore (don't generate a message) if the location identifier is not matched • `Warn` – generate a warning message if the location identifier is not matched	`Warn`

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")
```