Command Reference: ReadDiversionRightsFromHydroBase()

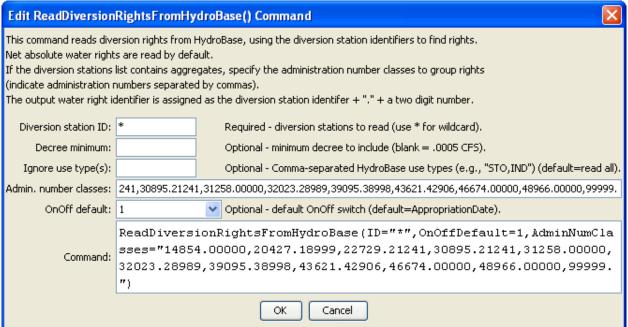
Read diversion right data from HydroBase

StateCU and StateMod Command

Version 3.09.07, 2010-01-26

The ReadDiversionRightsFromHydroBase () command reads diversion net amount water rights from HydroBase, for each diversion station that is defined. The diversion rights can then be manipulated and output with other commands. Within a diversion station, rights are sorted by administration number and order number. In some cases, multiple rights for the diversion station may be listed, each with the same administration number. This is because the order number is different; however, the order number is not listed in the StateMod output. In such cases, the individual rights are retained to allow comparison with HydroBase.

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



ReadDiversionRightsFromHydroBase

ReadDiversionRightsFromHydroBase() Command Editor

If aggregating rights, the following steps occur (diversion systems use steps 1-2 and are then explicitly added):

- 1. Water rights for each part of the aggregate are read from HydroBase, reporting errors as necessary.
- 2. The rights are added to a list and are sorted by administration number. This ensures that the cumulative list of rights is listed in order of administration number (in particular, this step is important for diversion systems).

- 3. Water rights are defined for each class (see the AdminNumClasses parameter description below), initializing the decree to zero.
- 4. For each class, the following sums are calculated: sum(decree*AdminNum) and sum(decree), where the administration number is determined from the appropriation date derived from the original HydroBase administration number (it will not have a remainder).
- 5. The final administration number for the class is determined (it will not have a remainder): int(sum(decree*AdminNum)/sum(decree))

Water rights that are less than the decree minimum are ignored.

The command syntax is as follows:

ReadDiversionRightsFromHydroBase(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
ID	A single diversion station identifier to match or	None – must be specified.
	a pattern using wildcards (e.g., 20*).	
DecreeMin	The minimum decree to accept as a valid right.	0.0 – read all rights.
IgnoreUseType	A comma-separated list of HydroBase water	Include all right types.
	right use types to ignore (e.g., STO, IND),	
	needed to prevent double counting of some	
	rights.	
AdminNumClasses	A list of administration numbers, separated by	If not specified, diversion
	spaces or commas, to define the breaks for	aggregates will be treated
	aggregate water rights, for diversion aggregates.	as diversion systems, with
	For example, if the class breaks are 10000.000,	all water rights explicitly
	20000.00000, and 99999.9999, the first group will contain water rights with administration	included in output.
	numbers <= 10000.00000, the second will	
	contain water rights with administration number	
	> 10000.00000 and <= 20000.00000, and the	
	third will contain water rights with	
	administration number > 20000.00000 and <=	
	99999.99999.	
OnOffDefault	Indicates how to set the on/off switch for all	Appropriation
	water rights that are processed. A value of 1	Date
	indicates that the right is on for the whole	
	period. If the value is AppropriationDate,	
	the switch is set to the year corresponding to the	
	appropriation date, indicating that the right will	
	be turned on starting in the year. Use set	
	commands to reset the switch to other values.	