
Command Reference: SetIrrigationPracticeTSFromList()

Set irrigation practice time series data from information in a delimited file

StateCU Command

Version 3.09.01, 2010-02-17

The `SetIrrigationPracticeTSFromList()` command sets irrigation practice data for existing CU Locations by reading information from a delimited file. New locations are not added. The command can be used to set values over a period of 1+ years as follows:

1. If the `SetStart` and `SetEnd` parameters are specified and the year column is not specified, then repeat the values from the file for each year in the set period. For example, this can be used to repeat efficiency values through the period. Or, it can be used to provide acreage data not in HydroBase, for a specific year (set `SetStart` and `SetEnd` to the same value).
2. If the year column is provided, use the year in the file to specify the year for the set. In this case, `SetStart` and `SetEnd` control the period of data that will be processed from the file.

HydroBase may not contain all irrigated lands data. For example, additional lands may have been identified after HydroBase was populated or acreage must be set for a model identifier that is not a structure WDID in HydroBase (e.g., out of state lands). In this case, the command can be used to provide additional data to supplement HydroBase.

It is typical that separate `SetIrrigationPracticeTSFromList()` commands are used for different columns of data in the irrigation practice file. For example, efficiencies may be set with one command and acreage with another command.

The information-only surface water total and groundwater total values will be updated to agree with the acreage parts. However, no cascading adjustments will occur (as performed by `FillIrrigationPracticeInterpolate()` and other commands).

The following dialog is used to edit the command and illustrates the syntax of the command for repeating values over the specified period, with the values being set as the command is processed (omitting the year would repeat the values in all years):

Edit SetIrrigationPracticeTSFromList() Command
✕

This command sets irrigation practice time series data from a delimited list file, using the CU Location ID to look up the location. Resets will be enforced as the command is processed and can only apply to main locations, not aggregate/system parts. Use the ReadIrrigationPracticeTSFromList() command to read data that are not in HydroBase (e.g., parts of aggregates/systems). A comma-delimited list file is used to supply data, with values being set one of the following ways:

- 1) If the set start and end years are specified and a year column is not specified, the file data values are applied to each year in the set period.
- 2) If a year column is specified, year and corresponding values are read from the list file (the set period then controls how many years are processed).

The previous irrigation practice data will be reset to new values.
 Blanks in column fields will result in no change to the data.
 It is recommended that the location of the file be specified using a path relative to the working directory.
 The working directory is: C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\UserManualRef\ReadIrrigationPracticeTSFromHydroBase

List file: Browse

CU Location ID: Required - CU Location(s) to fill (use * for wildcard).

Set start (year): Optional - starting year to set data.

Set end (year): Optional - ending year to set data.

Year column: Optional - column in file for year.

CU location ID column: Optional - column in file for CU location ID.

Surface delivery maximum efficiency column: Optional - column in file for surface delivery maximum efficiency (fraction).

Flood application efficiency maximum column: Optional - column in file for flood irrigation maximum efficiency (fraction).

Sprinkler application efficiency maximum column: Optional - column in file for sprinkler maximum efficiency (fraction).

Acres irrigated by surface water only, flood column: Optional - column in file for acres irrigated by surface water only, flood.

Acres irrigated by surface water only, sprinkler column: Optional - column in file for acres irrigated by surface water only, sprinkler.

Acres irrigated by groundwater, flood column: Optional - column in file for acres irrigated by groundwater, flood.

Acres irrigated by groundwater, sprinkler column: Optional - column in file for acres irrigated by groundwater, sprinkler.

Total irrigated acres column: Optional - column in file for total irrigated acres.

Pumping maximum column: Optional - column in file for maximum monthly pumping (ACFT).

Groundwater mode column: Optional - column in file for groundwater mode (see StateCU documentation).

Command:

```
SetIrrigationPracticeTSFromList (ListFile="Sp2008L_Eff.csv", ID="*", SetStart=1950, SetEnd=2006, IDCol="1", SurfaceDelEffMaxCol="3")
```

Add Working Directory
Cancel
OK

SetIrrigationPracticeTSFromList

SetIrrigationPracticeTSFromList() Command Editor – Repeat Values

The following dialog is used to edit the command and illustrates the syntax of the command for providing acreage data that are not in HydroBase, for a single year of data.

Edit SetIrrigationPracticeTSFromList() Command
✕

This command sets irrigation practice time series data from a delimited list file, using the CU Location ID to look up the location. Resets will be enforced as the command is processed and can only apply to main locations, not aggregate/system parts. Use the ReadIrrigationPracticeTSFromList() command to read data that are not in HydroBase (e.g., parts of aggregates/systems). A comma-delimited list file is used to supply data, with values being set one of the following ways:

- 1) If the set start and end years are specified and a year column is not specified, the file data values are applied to each year in the set period.
- 2) If a year column is specified, year and corresponding values are read from the list file (the set period then controls how many years are processed).

The previous irrigation practice data will be reset to new values.
 Blanks in column fields will result in no change to the data.
 It is recommended that the location of the file be specified using a path relative to the working directory.
 The working directory is: C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\UserManualRef\ReadIrrigationPracticeTSFromHydroBase

List file:	<input type="text" value="NoGIS_1998.csv"/>	<input type="button" value="Browse"/>
CU Location ID:	<input type="text" value="*"/>	Required - CU Location(s) to fill (use * for wildcard).
Set start (year):	<input type="text" value="1998"/>	Optional - starting year to set data.
Set end (year):	<input type="text" value="1998"/>	Optional - ending year to set data.
Year column:	<input type="button" value="v"/>	Optional - column in file for year.
CU location ID column:	<input type="button" value="1 v"/>	Optional - column in file for CU location ID.
Surface delivery maximum efficiency column:	<input type="button" value="v"/>	Optional - column in file for surface delivery maximum efficiency (fraction).
Flood application efficiency maximum column:	<input type="button" value="v"/>	Optional - column in file for flood irrigation maximum efficiency (fraction).
Sprinkler application efficiency maximum column:	<input type="button" value="v"/>	Optional - column in file for sprinkler maximum efficiency (fraction).
Acres irrigated by surface water only, flood column:	<input type="button" value="v"/>	Optional - column in file for acres irrigated by surface water only, flood.
Acres irrigated by surface water only, sprinkler column:	<input type="button" value="v"/>	Optional - column in file for acres irrigated by surface water only, sprinkler.
Acres irrigated by groundwater, flood column:	<input type="button" value="v"/>	Optional - column in file for acres irrigated by groundwater, flood.
Acres irrigated by groundwater, sprinkler column:	<input type="button" value="v"/>	Optional - column in file for acres irrigated by groundwater, sprinkler.
Total irrigated acres column:	<input type="button" value="3 v"/>	Optional - column in file for total irrigated acres.
Pumping maximum column:	<input type="button" value="v"/>	Optional - column in file for maximum monthly pumping (ACFT).
Groundwater mode column:	<input type="button" value="v"/>	Optional - column in file for groundwater mode (see StateCU documentation).

Command:

```
SetIrrigationPracticeTSFromList (ListFile="NoGIS_1998.csv"
, ID="*", SetStart=1998, SetEnd=1998, IDCol="1", AcresTotalCol
="3 ")
```

SetIrrigationPracticeTSFromList2

SetIrrigationPracticeTSFromList() Command Editor – Provide Parcel Data not in HydroBase

The command syntax is as follows:

```
SetIrrigationPracticeTSFromList (Parameter=Value,...)
```

Command Parameters

Parameter	Description	Default
ListFile	Path to the delimited list file to read.	None – must be specified.
ID	A single CU location identifier to match or a pattern using wildcards (e.g., 20*).	None – must be specified.
SetStart	The first year to set data values.	If not specified, data are set for the full output period.
SetEnd	The last year to set data values.	If not specified, data are set for the full output period.
YearCol	The column number (1+) containing the year for data.	The file values are applied to each year in the data set.
IDCol	The column number (1+) containing the CU Location identifiers. These values are matched against CU Location identifiers in the existing irrigation practice data.	None – must be specified.
SurfaceDel EffMaxCol	The column number (1+) containing the surface water delivery efficiency maximum.	If not specified, the previous data values will remain.
FloodApp EffMaxCol	The column number (1+) containing the flood application efficiency maximum.	If not specified, the previous data values will remain.
SprinklerApp EffMaxCol	The column number (1+) containing the sprinkler application efficiency maximum.	If not specified, the previous data values will remain.
AcresSWFloodCol	The column number (1+) containing the surface water flood acres.	If not specified, the previous data values will remain.
AcresSWSprinkler Col	The column number (1+) containing the surface water sprinkler acres.	If not specified, the previous data values will remain.
AcresGWFloodCol	The column number (1+) containing the groundwater flood acres.	If not specified, the previous data values will remain.
AcresGWSprinkler Col	The column number (1+) containing the groundwater sprinkler acres.	If not specified, the previous data values will remain.
AcresTotalCol	The column number (1+) containing the total acres.	If not specified, the previous data values will remain.
PumpingMaxCol	The column number (1+) containing the monthly maximum pumping rate.	If not specified, the previous data values will remain.
GWModeCol	The column number (1+) containing the groundwater mode value.	If not specified, the previous data values will remain.

Data file lines starting with the # character are treated as comments. If the first line's values are surrounded by double quotes, the line is assumed to indicate column headings. An example list file for setting efficiencies is shown below (the year would be provided as a parameter and values would apply to all years):

```
200505,0.70,0.7,0.8
200511,0.82,0.7,0.8
200512,0.71,0.7,0.8
200513,0.73,0.7,0.8
20MS01,0.80,0.7,0.8
200517,0.71,0.7,0.8
200518,0.88,0.7,0.8
200528,0.71,0.7,0.8
... etc. ...
```

An example list file for specifying acreage data (not in HydroBase) is shown below (the year column would be specified as a parameter and values would apply to the year in the list file). Currently, supplemental acreage data can have only a single irrigation method and supply type.

```
# The following data provide acreage for structures that did not have GIS data
# and consequently no data in HydroBase. The data are specific to 1998 and are
# used to set the CDS and IPY acres. The crop is used to provide CDS data. The
# irrigation method and source are used to provide IPY data.
"ID","Crop","Acres","IrrigationMethod","SupplySource"
200500,GRASS_PASTURE,0,Flood,Surface
200506,GRASS_PASTURE,100,Flood,Surface
200507,GRASS_PASTURE,50,Flood,Surface
200508,GRASS_PASTURE,40,Flood,Surface
200522,GRASS_PASTURE,40,Flood,Surface
200523,GRASS_PASTURE,50,Flood,Surface
200526,GRASS_PASTURE,40,Flood,Surface
200529,GRASS_PASTURE,5,Flood,Surface
200530,GRASS_PASTURE,42,Flood,Surface
200532,GRASS_PASTURE,25,Flood,Surface
200533,GRASS_PASTURE,40,Flood,Surface
... etc...
```

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