Appendix: ColoradoIPP Input Type

2010-05-20

Overview

The ColoradoIPP input type corresponds to the Identified Projects and Processes (IPP) database used by the Colorado Water Conservation Board (CWCB) to evaluate long-term water supply conditions in the State of Colorado. The database stores several primary object types (referred to as subject types), which have metadata and related time series. Subject types include:

- Basin (river basins, pending new database development)
- County
- Provider (entities that provide water to users)
- Project (water projects associated with providers)
- State (pending new database development)

ColoradoIPP and Standard Time Series Properties

The standard time series identifier for ColoradoIPP time series is of the form:

```
Location.DataSource.DataType.Interval.Scenario~ColoradoIPP
```

More specifically, the identifier follows the convention:

```
SubjectType:SubjectID.DataSource.DataType-Subtype-Method-Submethod.Year.Scenario~ColoradoIPP
```

where identifier parts are described as follows:

- `SubjectType` is `County`, `Project`, or `Provider`.
- `SubjectID` is the identifier for a `SubjectType` object, for example the county name (**currently Provider and Project identifiers are numbers; however, the database will be updated to use a unique, human-readable string**).
- `DataSource` is the data source for the time series (**currently this is a verbose string; however, the database will be updated to use a unique, human-readable string**).
- `DataType` is the time series data type (e.g., `demand`).
- `Subtype` is a sub-type for the time series (e.g., `percapita`).
- `Method` is the method by which the data were determined (e.g., `estimated` or `observed`).
- `Submethod` is a modifier for the method (e.g., if different approaches are used to estimate data).
- `Year` is always the 4-digit year for the data (only annual time series are currently saved in the database).
- `Scenario` is often blank but may indicate the scenario for data (e.g., `low`, `middle`, `high`).

Limitations

ColoradoIPP data are often sparse. Software such as TSTool can be used to fill or extend data. The database is under development and will evolve slightly as design changes are implemented and data are loaded.

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