



Internet of Water

Partnerships for progress



VISION

The Internet of Water envisions a world engaged in sustainable water resources management and stewardship enabled by open, shared, and integrated water data.

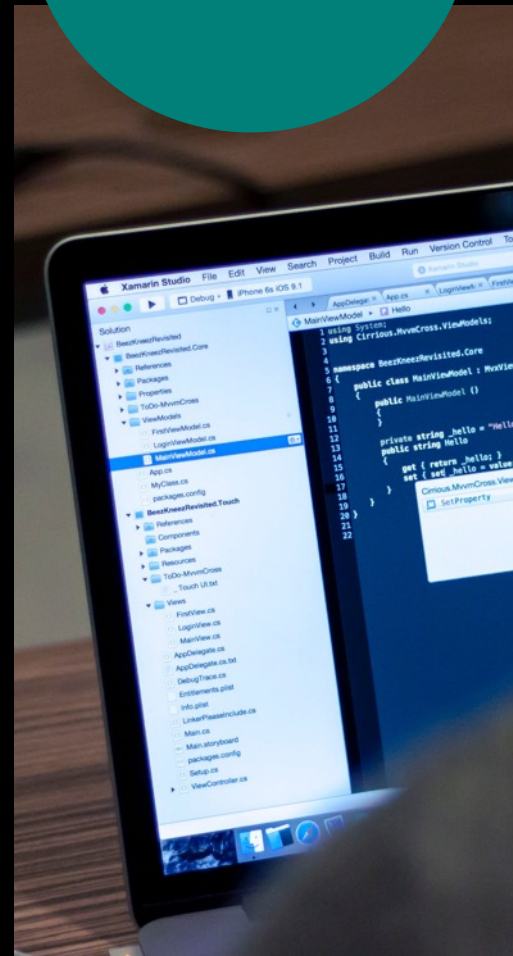
Rationale



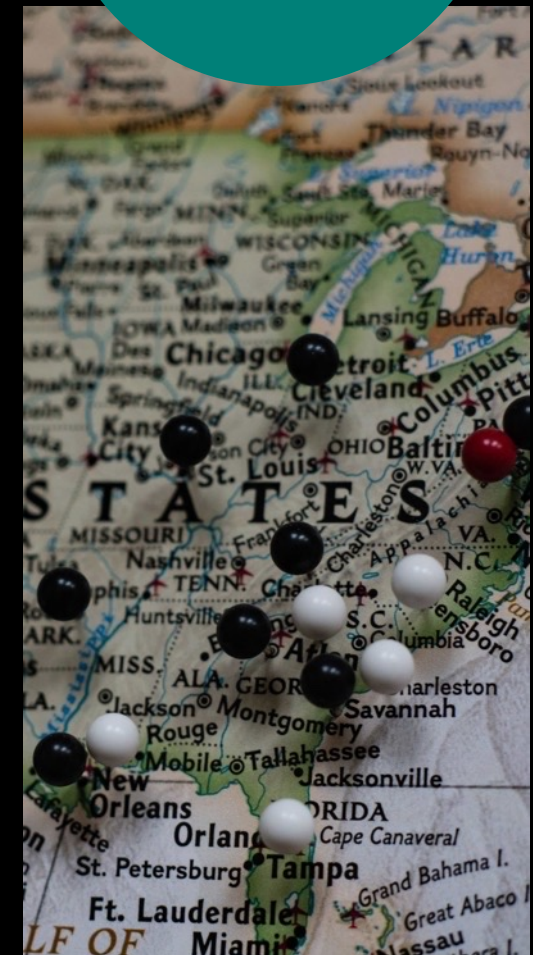
Open Data
Resources



Technical
Framework



Outreach &
Engagement



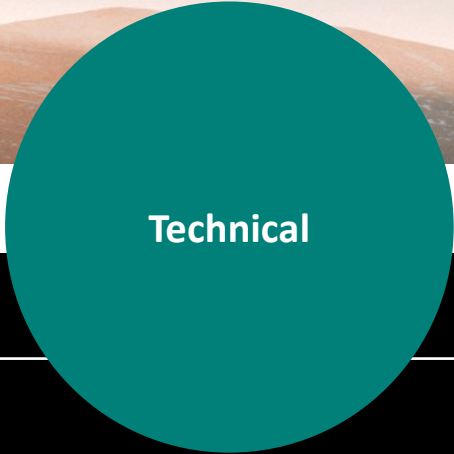


Integrated management requires

integrated data

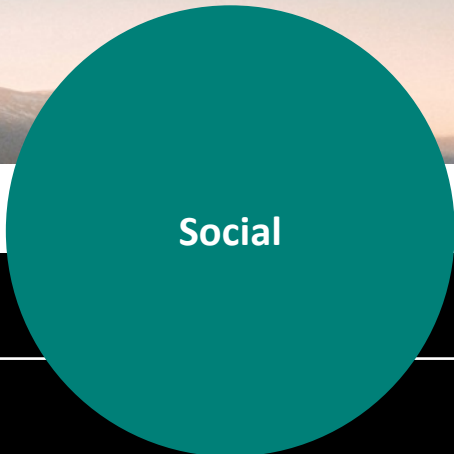


Solutions



Technical

What tools and infrastructure are needed to help data flow?



Social

How do we create community and behavior change around data sharing?

How do we foster willingness to invest resources in water data?



Capacity & Equity

How do we resource those who want to participate?

RESOURCES

Coming to
Terms: Water
Terminology
Collection

Water Budget
(Use Model)
Navigator

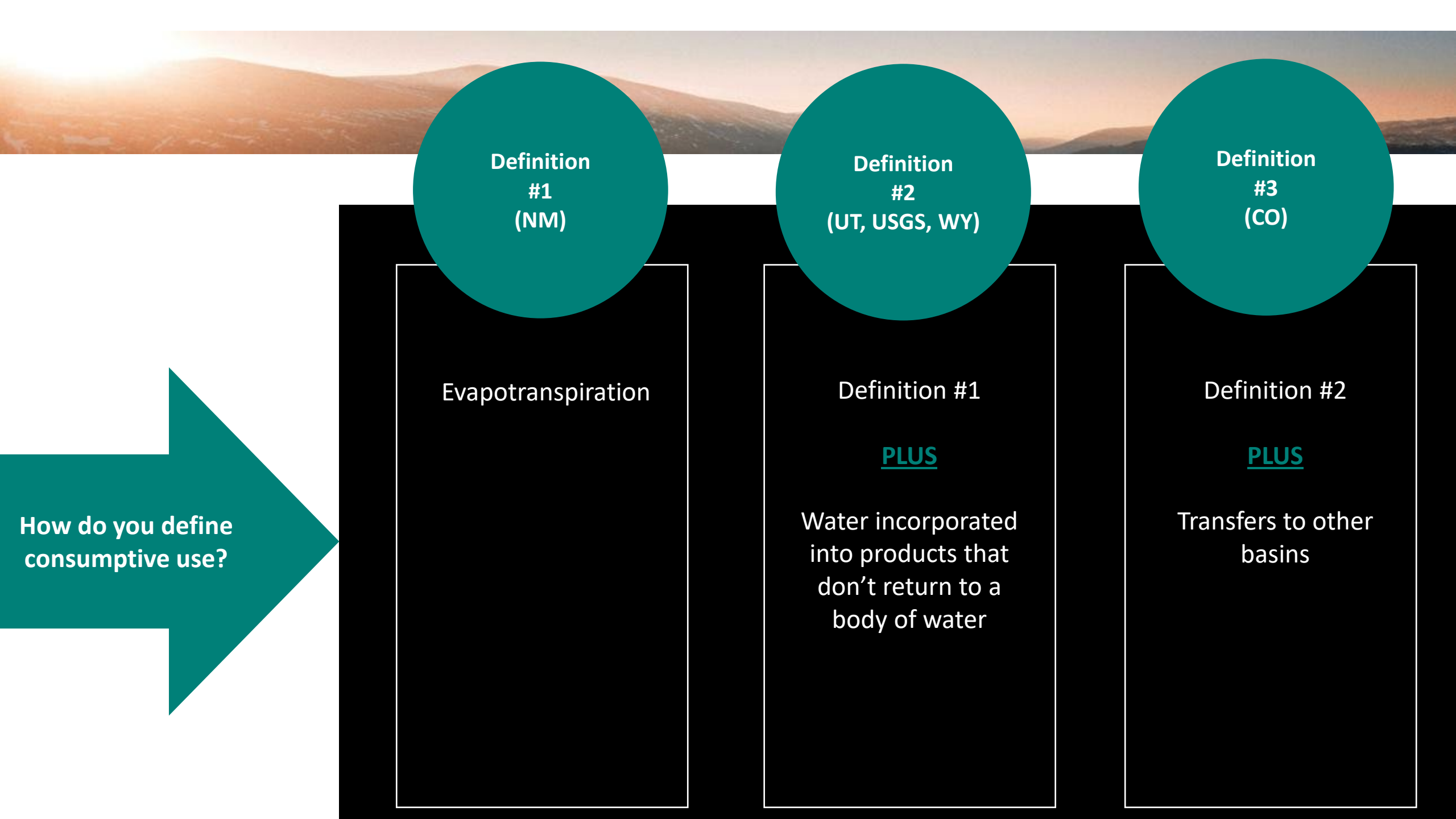
Project
Geoconnex
(Linked Data
Infrastructure)





Integrated data requires

shared vocabulary



How do you define consumptive use?

Definition
#1
(NM)

Evapotranspiration

Definition
#2
(UT, USGS, WY)

Definition #1

PLUS

Water incorporated
into products that
don't return to a
body of water

Definition
#3
(CO)

Definition #2

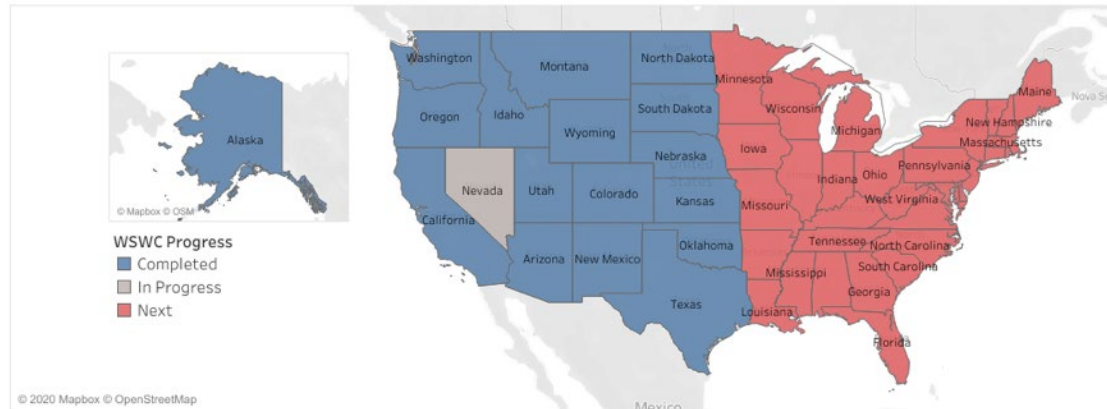
PLUS

Transfers to other
basins

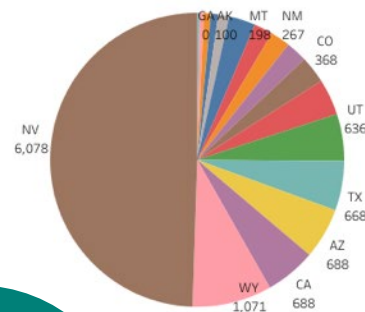
Coming to Terms Water

Terminology Collection

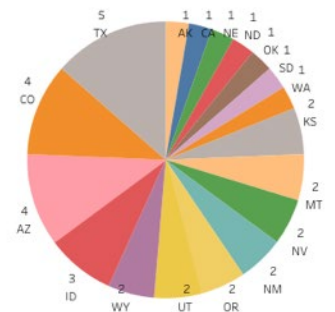
Vocabulary Fetch Progress Map



Number of Vocabulary Per State



Number of Agencies with Vocabulary



Resources



Tracks definitions, synonyms, and homonyms of water-related terms



Open Source Tool



Access to vocabularies used by Federal, State, Tribal, Local, and private entities engaged in water management, science, and use

Welcome

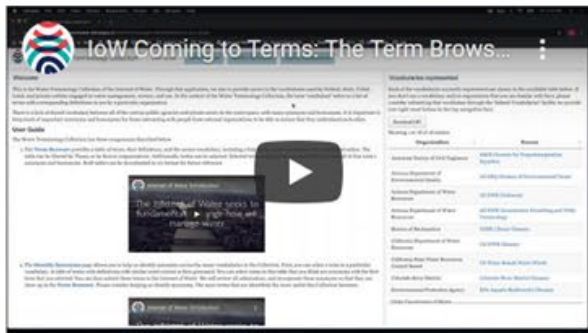
This is the Water Terminology Collection of the Internet of Water. Through this application, we aim to provide access to the vocabularies used by Federal, State, Tribal, Local, and private entities engaged in water management, science, and use. In the context of the Water Terminology Collection, the term ‘vocabulary’ refers to a list of terms with corresponding definitions in use by a particular organization.

There is a lack of shared vocabulary between all of the various public agencies and private actors in the water space, with many synonyms and homonyms. It is important to keep track of important synonyms and homonyms for those interacting with people from external organizations to be able to ensure that they understand each other.

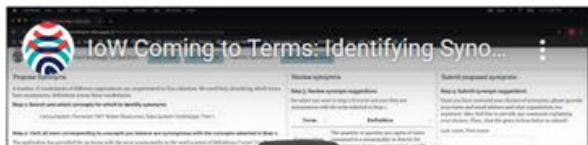
User Guide

The Water Terminology Collection has three components described below.

1. The **Term Browser** provides a table of terms, their definitions, and the source vocabulary, including a link to the source vocabulary if it is published online. The table can be filtered by Theme or by Source (organization). Additionally, terms can be selected. Selected terms will generate a second table showing all of that term’s synonyms and homonyms. Both tables can be downloaded in csv format for future reference



2. The **Identify Synonyms** page allows you to help us identify synonyms across the many vocabularies in the Collection. First, you can select a term in a particular vocabulary. A table of terms with definitions with similar word content is then generated. You can select terms in this table that you think are synonyms with the first term that you selected. You can then submit these terms to the Internet of Water. We will review all submissions, and incorporate these synonyms so that they can show up in the **Term Browser**. Please consider helping us identify synonyms. The more terms that are identified, the more useful this Collection becomes.



Vocabularies represented

Each of the vocabularies currently represented are shown in the scrollable table below. If you don’t see a vocabulary and/or organization that you are familiar with here, please consider submitting that vocabulary through the ‘Submit Vocabularies’ facility we provide (see right-most button in the top navigation bar).

Download CSV

Search:

Showing 1 to 24 of 24 entries

Organization	Source
American Society of Civil Engineers	ASCE Glossary for Evapotranspiration Equation
Arizona Department of Environmental Quality	AZ DEQ Glossary of Environmental Terms
Arizona Department of Water Resources	AZ DWR Demand Supply Business Terms
Arizona Department of Water Resources	AZ DWR Dictionary
Arizona Department of Water Resources	AZ DWR Groundwater Permitting and Wells Terminology
Bureau of Reclamation	USBR Library Glossary
California Department of Water Resources	CA-DWR Glossary
California State Water Resources Control Board	CA Water Boards Water Words
Colorado River District	Colorado River District Glossary
Environmental Protection Agency	EPA Aquatic Biodiversity Glossary



Internet of Water

Water Terminology Collection

User Guide

Term Browser

Identify Synonyms

Submit Vocabularies

Main Table of Terms

Filter by Theme and/or Source. Click rows to view synonyms (terms with equivalent definitions) on the right.

Select Theme(s)

Select Source(s)

Download Current Table as CSV

Show 1,000 entries

Term	Source
All	All
Comprehensive Environmental Response, Compensation and Liability Act US Code, 42 USC 9602 et seq	American Society of Civil Engineers
Comprehensive Environmental Response, Compensation and Liability Information System EPA's Superfund web page	Arizona Department of Environmental Quality
Oil Spill Prevention & Response Act of 1991 EXIT to Texas Natural Resource Code, 30 TNRC 40	Arizona Department of Water Resources
§303(d)	Bureau of Reclamation
§305(b)	California Department of Water Resources
	California State Water Resources Control Board
	Colorado River District
	Environmental Protection Agency
	Idaho Department of Environmental Quality
	Idaho Department of Water Resources
	Montana Department of Natural Resources and Conservation
	New Mexico Water Rights Division
	Oklahoma Water Resources Board
	South Dakota Department of Environment and Natural Resources
	Texas Commission on Environmental Quality
	Texas Parks and Wildlife Department
	United States Geological Survey
	Utah Division of Water Quality
	Utah Division of Water Rights
	Wyoming Water Resources Data System

Showing 1 to 1,000 of 7,491 entries

Related Terms

Here you will find all closely related terms of the selected term, as well as all synonyms of those terms. This displays the extent to which similar terms are used similarly by different organizations. Terms with the same "Definition Group" are synonyms. Terms without "Definition Groups" have not been assigned any synonyms yet. Please consider helping us improve this Terminology Collection by going to the [Identify Synonyms](#) page.

Download Related Terms as CSV

Term	Source	Definition Group
No data available in table		



Internet of Water

Water Terminology Collection

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Term Browser

Identify Synonyms

Submit Vocabularies

Main Table of Terms

Filter by Theme and/or Source. Click rows to view synonyms (terms with equivalent definitions) on the right.

Select Theme(s)

Select All

Deselect All

Data

Environment and Ecology

Hydrology

Infrastructure

Legal and Regulatory

Utilities

Water Quality

Water Use

Other

Select Source(s)

Download Current Terms

All

Comprehensive Environmental Response, Compensation and Liability Act US Code, et seq

Definition

Source

Comprehensive Environmental Response, Compensation and Liability Information System EPA's Superfund web page

Oil Spill Prevention & Response Act of 1991 EXIT to Texas Natural Resource Code, 30 TNRC 40

§303(d)

§305(b)

a comprehensive database and management system maintained by EPA that inventories and tracks sites addressed, or needing to be addressed by the Superfund program.

A Texas statute relating to the prevention of, and the damage, cleanup, costs and liability for, oil spills in coastal waters of the state.

Refers to section 303 subsection "d" of the Clean Water Act, which requires states to develop a list of water bodies that do not meet water quality standards (a "§303(d) list"). This section also requires TMDLs be prepared for listed waters. Both the list and the TMDLs are subject to EPA approval.

Refers to section 305 subsection "b" of the Clean Water Act, which requires that each state prepare a report every two years that describes the quality of that state's surface water (referred to as a "§305(b) report") and submit that report to EPA. Also see Integrated Report.

TCEQ Superfund terms

TCEQ Superfund terms

ID-DEQ Glossary of Environmental Terms

ID-DEQ Glossary of Environmental Terms

Related Terms

Here you will find all closely related terms of the selected term, as well as all synonyms of those terms. This displays the extent to which similar terms are used similarly by different organizations. Terms with the same "Definition Group" are synonyms. Terms without "Definition Groups" have not been assigned any synonyms yet. Please consider helping us improve this Terminology Collection by going to the [Identify Synonyms](#) page.

Download Related Terms as CSV

Term

Source

Definition Group

No data available in table

Showing 1 to 1,000 of 7,491 entries

Previous

1

2

3

4

5

...

8

Next

Search for Terms

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Internet of Water

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Main Table of Terms

Filter by Theme and/or Source. Click rows to view synonyms (terms with equivalent definitions) on the right.

Select Theme(s)

Select Source(s)

Download Current Table as CSV

Show

1,000

 entries

Term	Definition	Source
Consumptive Use Consumptive U		All
Consumptive Use Consumptive use (1) The quantity of water absorbed by crops and transpired or used directly in the building of plant tissue, together with that evaporated from the cropped area* (2) The quantity of water transpired and evaporated from a cropped area, or the normal loss of water from the soil by evaporation and plant transpiration. (3) All activities where the use of water results in a loss in the original water supplied, such as industrial or municipal consumption.	WY Water Resources Data System Hydrologic Terms	
Consumptive use Consumptive use a use of water that diverts it from a water supply.	OK-WRB Glossary	
consumptive use consumptive use the part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise not available for immediate use. Water returned to a different watershed than the point of withdrawal (interbasin transfer) is not considered a consumptive use. Also referred to as water consumed. 1960-1995: Consumptive use reported by water-use category 2000-2010: Consumptive use not estimated nationally 2015: Consumptive use reported for irrigation and thermoelectric power categories	USGS Water Use Terminology	
consumptive use consumptive use Consumptive use is the amount of water that does not return to its source after it has been diverted and put to beneficial use. Not all water is physically consumed when it is diverted. Unconsumed water that returns to a water supply through a municipal or industrial wastewater system or an irrigation system's tailwater is called return flow. Return flows are then available for other downstream water users.	Colorado River District Glossary	
Consumptive Use Consumptive Use See Idaho Code § 42-202B.	ID DWR Terminology	
Consumptive Use Consumptive Use The part of the water demand that becomes unavailable for future use because it is evaporated or consumed by the use. Consumptive use also refers to diversions from the mainstream of the Colorado River minus the returns.	AZ DWR Dictionary	

Showing 1 to 19 of 19 entries (filtered from 7,491 total entries)

Previous

1

Next

Related Terms

Here you will find all closely related terms of the selected term, as well as all synonyms of those terms. This displays the extent to which similar terms are used similarly by different organizations. Terms with the same "Definition Group" are synonyms. Terms without "Definition Groups" have not been assigned any synonyms yet. Please consider helping us improve this Terminology Collection by going to the [Identify Synonyms](#) page.

Download Related Terms as CSV

Term	Source	Definition Group
No data available in table		

Identify Related Terms

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 Internet of Water Water Terminology Collection

User Guide

Term Browser

Identify Synonyms

Submit Vocabularies

Main Table of Terms

Filter by Theme and/or Source. Click rows to view synonyms (terms with equivalent definitions) on the right.

Select Theme(s)

Select Source(s)

Download Current Table as CSV

Show 1,000 entries

Term	Definition	Source
Consumptive Use	(1) The quantity of water absorbed by crops and transpired or used directly in the building of plant tissue, together with that evaporated from the cropped area* (2) The quantity of water transpired and evaporated from a cropped area, or the normal loss of water from the soil by evaporation and plant transpiration. (3) All activities where the use of water results in a loss in the original water supplied, such as industrial or municipal consumption.	WY Water Resources Data System Hydrologic Terms
Consumptive use	a use of water that diverts it from a water supply.	OK-WRB Glossary
consumptive use	the part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise not available for immediate use. Water returned to a different watershed than the point of withdrawal (interbasin transfer) is not considered a consumptive use. Also referred to as water consumed. 1960-1995: Consumptive use reported by water-use category 2000-2010: Consumptive use not estimated nationally 2015: Consumptive use reported for irrigation and thermoelectric power categories	USGS Water Use Terminology
consumptive use	Consumptive use is the amount of water that does not return to its source after it has been diverted and put to beneficial use. Not all water is physically consumed when it is diverted. Unconsumed water that returns to a water supply through a municipal or industrial wastewater system or an irrigation system's tailwater is called return flow. Return flows are then available for other downstream water users.	Colorado River District Glossary
Consumptive Use	See Idaho Code § 42-202B.	ID DWR Terminology
Consumptive Use	The part of the water demand that becomes unavailable for future use because it is evaporated or consumed by the use. Consumptive use also refers to diversions from the mainstream of the Colorado River minus the returns.	AZ DWR Dictionary

Showing 1 to 19 of 19 entries (filtered from 7,491 total entries)

Previous1Next

Related Terms

Here you will find all closely related terms of the selected term, as well as all synonyms of those terms. This displays the extent to which similar terms are used similarly by different organizations. Terms with the same "Definition Group" are synonyms. Terms without "Definition Groups" have not been assigned any synonyms yet. Please consider helping us improve this Terminology Collection by going to the [Identify Synonyms](#) page.

Download Related Terms as CSV

Term	Source	Definition Group
Consumptive Use	NM Water Rights Allocation Program Glossary	26
Evapotranspiration	WY Water Resources Data System Hydrologic Terms	26
Evapotranspiration	UT Division of Water Rights Glossary	26
evapotranspiration	CA-DWR Glossary	26
Evapotranspiration	USBR Library Glossary	26
Evapotranspiration	CA Water Boards Water Words	26
Consumptive use	OK-WRB Glossary	51
consumptive use	USGS Water Use Terminology	51
consumptive use	Colorado River District Glossary	51
Consumptive Use	AZ DWR Dictionary	51
Consumptive Use	CA Water Boards Water Words	51
Consumptive Use	USBR Library Glossary	51

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[illegible]

File	Home	Insert	Page Layout	Formulas	Data	Review	View	Help	Acrobat
A1									
1	uri	Term	Definition	Source	voclink				
2	http://purl.org/iow/terms/c_c18201ad	Consumptive Use	The quantity of water used in a given area in transpiration, building of, plant tissue, and evaporated from adjacent soil, water surface, snow or intercepted, precipitation in a specific period of time.	NM Water Rights Allocation Program Glossary	https://www.osi				
3	http://purl.org/iow/terms/c_2b397738	Evapotranspiration	The volume of water evaporated and transpired from soil and plant surfaces per unit land area (essentially the same as "consumptive use" except that it does not include the water retained within the plant tissue).						
4	http://purl.org/iow/terms/c_30816e18	Evapotranspiration	Evaporation of liquid or sublimination of solid water plus transpiration from plants.						
5	http://purl.org/iow/terms/c_6de5d520	evapotranspiration	The amount of water transpired by plants, retained in plan tissues, and evaporated from plant tissues and surrounding surfaces. See also green water.						
6	http://purl.org/iow/terms/c_cbd7db19	Evapotranspiration	The quantity of water transpired by plants or evaporated fi adjacent soil surfaces in a specific time period.						
7	http://purl.org/iow/terms/c_ef46f9ff	Evapotranspiration	The loss of water from the soil by evaporation and by trans from the plants growing in the soil.						
8	http://purl.org/iow/terms/c_213c1d5d	Consumptive use	a use of water that diverts it from a water supply. the part of water withdrawn that is evaporated, transpired incorporated into products or crops, consumed by humans livestock, or otherwise not available for immediate use. V returned to a different watershed than the point of withdr (interbasin transfer) is not considered a consumptive use.. referred to as water consumed. 1960-1995: Consumptive reported by water-use category 2000-2010: Consumptive estimated nationally 2015: Consumptive use reported fo irrigation and thermoelectric power categories						
9	http://purl.org/iow/terms/c_2adcbfc1	consumptive use	Consumptive use is the amount of water that does not ret						

JSONRaw DataHeaders

SaveCopyCollapse AllExpand AllFilter JSON

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_lang:"en"

semanticRelation:[-]

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topConceptOf:{-}

type:[-]

type:[-]

SSVoc

Powered by ELDA

IoW Svc

Consumptive Use

http://purl.org/iow/terms/c_c18201ad

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ET / Evapotranspiration [original]

close matchc_c18201ad [original]

exact matchc_c18201ad [original]

mapping relationc_c18201ad [original]

semantic relationc_c18201ad [original]

ET / evapotranspiration [original]

close matchc_c18201ad [original]

exact matchc_c18201ad [original]

mapping relationc_c18201ad [original]

semantic relationc_c18201ad [original]

Evapotranspiration [original]

close matchc_c18201ad [original]

exact matchc_c18201ad [original]

mapping relationc_c18201ad [original]

semantic relationc_c18201ad [original]

Find Concepts

Exact labelFind

Text within labelFind

View

> all > basic > description

pref label

label

close match > label

close match > close match

close match > exact match

close match > mapping relation

close match > semantic relation

exact match

mapping relation

note

semantic relation

skos_definition

type > label

type > sub class of

type > type

Persistent Identifiers redirecting to landing pages and JSON representations

File Home Insert Page Layout Formulas Data Review View Help Acrobat

A1

	A	B	C	D	
1	uri	Term	Definition	Source	voclink
2	http://purl.org/iow/terms/c_18201ad	Consumptive Use	The quantity of water used in a given area in transpiration, building of, plant tissue, and evaporated from adjacent soil, water surface, snow or intercepted, precipitation in a specific period of time.	NM Water Rights Allocation Program Glossary	https://www.os
3	http://purl.org/iow/terms/c_2b397738	Evapotranspiration	The volume of water evaporated and transpired from soil and plant surfaces per unit land area (essentially the same as "consumptive use" except that it does not include the water retained within the plant tissue).		
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7	http://purl.org/iow/terms/c_ef46f9ff	Evapotranspiration	The loss of water from the soil by evaporation and by transpiration from the plants growing in the soil.		
8	http://purl.org/iow/terms/c_213c1d5d	Consumptive use	a use of water that diverts it from a water supply. the part of water withdrawn that is evaporated, transpired incorporated into products or crops, consumed by humans livestock, or otherwise not available for immediate use. Water returned to a different watershed than the point of withdrawal (interbasin transfer) is not considered a consumptive use. referred to as water consumed. 1960-1995: Consumptive reported by water-use category 2000-2010: Consumptive estimated nationally 2015: Consumptive use reported for irrigation and thermoelectric power categories		
9	http://purl.org/iow/terms/c_2adcbfc1	consumptive use			

JSONRaw DataHeaders

SaveCopyCollapse AllExpand AllFilter JSON

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inScheme:[-]

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label:

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_lang:"en"

mappingRelation:[-]

JSON	Raw Data	Headers
Save	Copy	Collapse All Expand All Filter JSON
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version:	"0.2"	
result:		
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definition:	"http://terms.internetofwater.app/sissvoc/default/resource.json?uri=http:%2F%2Fpurl.org%2F%2Fterms/c_18201ad"	
extendedMetadataVersion:	"http://terms.internetofwater.app/sissvoc/default/resource.json?metadata=all&uri=http:%2F%2Fpurl.org%2F%2Fterms/c_18201ad"	
primaryTopic:		
_about:	"http://purl.org/iow/terms/c_18201ad"	
closeMatch:	[-]	
exactMatch:	[-]	
inScheme:	{-}	
isPrimaryTopicOf:	"http://terms.internetofwater.app/sissvoc/default/resource.json?uri=http:%2F%2Fpurl.org%2F%2Fterms/c_18201ad"	
label:		
_value:	"Consumptive Use"	
_lang:	"en"	
mappingRelation:	[-]	
note:	"The quantity of water used in a given area in transpiration, building of, plant tissue, and evaporated from adjacent soil, water surface, snow or intercepted, precipitation in a specific period of time."	
prefLabel:		
_value:	"Consumptive Use"	
_lang:	"en"	
semanticRelation:	[-]	
skos_definition:	"The quantity of water used in a given area in transpiration, building of, plant tissue, and evaporated from adjacent soil, water surface, snow or intercepted, precipitation in a specific period of time."	
topConceptOf:	{-}	
type:	[-]	
type:	[-]	

Consumptive Use

http://purl.org/iow/terms/c_18201ad

label	Consumptive Use
close match	c_c18201ad [original]
ET / Evapotranspiration [original]	
close match	c_c18201ad [original]
exact match	c_c18201ad [original]
mapping relation	c_c18201ad [original]
semantic relation	c_c18201ad [original]
ET / evapotranspiration [original]	
close match	c_c18201ad [original]
exact match	c_c18201ad [original]
mapping relation	c_c18201ad [original]
semantic relation	c_c18201ad [original]
Evapotranspiration [original]	
close match	c_c18201ad [original]
exact match	c_c18201ad [original]
mapping relation	c_c18201ad [original]
semantic relation	c_c18201ad [original]

Find Concepts

Exact label Find

Text within label Find

View

> all > basic > description

- ★ pref label
- ★ label
- ★ close match > label
- ★ close match > close match
- ★ close match > exact match
- ★ close match > mapping relation
- ★ close match > semantic relation
- ★ exact match
- ★ mapping relation
- ★ note
- ★ semantic relation
- ★ skos_definition
- ★ type > label
- ★ type > sub class of
- ★ type > type



Internet of Water

Water Terminology Collection

User Guide

Term Browser

Identify Synonyms

Submit Vocabularies

Propose Synonyms

A number of vocabularies of different organizations are rerepresented in this collection. We need help identifying which terms have synonymous definitions across these vocabularies.

Step 1: Search and select concepts for which to identify synonyms

Consumptive Use (UT Division of Water Rights Glossary)

Step 2. Click all rows corresponding to concepts you believe are synonymous with the concepts selected in Step 1.

The application has provided the 50 terms with the most commonality in the word content of definitions ("score") to the selected concept, as well as all other concepts in the collection associated with the same term (i.e. homonyms). Synonyms that have already been identified and approved are not shown.

Term	Definition	score
Consumptive Use (UT Division of Water Rights Glossary)	Portion of water withdrawn from a surface or groundwater source that is consumed by particular use(s) and does not return to a natural water source or another body of water.	1
Consumptive Use (NM Water Rights Allocation Program Glossary)	The quantity of water used in a given area in transpiration, building of, plant tissue, and evaporated from adjacent soil, water surface, snow or intercepted, precipitation in a specific period of time.	1
Consumptive Use (WY Water Resources Data System Hydrologic Terms)	(1) The quantity of water absorbed by crops and transpired or used directly in the building of plant tissue, together with that evaporated from the cropped area* (2) The quantity of water transpired and evaporated from a cropped area, or the normal loss of water from the soil by evaporation and plant transpiration. (3) All activities where the use of water results in a loss in the original water supplied, such as industrial or municipal consumption.	1
consumptive use (CA-DWR Glossary)	The amount of applied water used and not available for reuse as a source of supply. It includes water that evaporates, transpires, or is incorporated into products, plant tissue, or animal tissue.	1

Review synoynms

Step 3. Review synonym suggestions

De-select any rows in step 2 if you're not sure they are synonymous with the term selected in Step 1.

Term	Definition
Consumptive Use (UT Division of Water Rights Glossary)	Portion of water withdrawn from a surface or groundwater source that is consumed by particular use(s) and does not return to a natural water source or another body of water.

Submit proposed synoynms

Step 4. Submit synonym suggestions

Once you have reviewed your choices of synonyms, please provide your name and email address and what organization you represent. Also, feel free to provide any comments explaining your choices. Then, click the green button below to submit!

Last name, First name

E-mail address

Organization

Comments

Submit Proposed Synonyms



Propose Synonyms

A number of vocabularies of different organizations are represented in this collection. We need help identifying which terms have synonymous definitions across these vocabularies.

Step 1: Search and select concepts for which to identify synonyms

Consumptive Use (UT Division of Water Rights Glossary)

Step 2. Click all rows corresponding to concepts you believe are synonymous with the concepts selected in Step 1.

The application has provided the 50 terms with the most commonality in the word content of definitions ("score") to the selected concept, as well as all other concepts in the collection associated with the same term (i.e. homonyms). Synonyms that have already been identified and approved are not shown.

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consumptive use (CA-DWR Glossary)	The amount of applied water used and not available for reuse as a source of supply. It includes water that evaporates, transpires, or is incorporated into products, plant tissue, or animal tissue.	1
Consumptive Use (ID DWR Terminology)	See Idaho Code § 42-202B.	1

Review synonymns

Step 3. Review synonym suggestions

De-select any rows in step 2 if you're not sure they are synonymous with the term selected in Step 1.

Term	Definition
Consumptive Use (UT Division of Water Rights Glossary)	Portion of water withdrawn from a surface or groundwater source that is consumed by particular use(s) and does not return to a natural water source or another body of water.
Consumptive Use (WY Water Resources Data System Hydrologic Terms)	(1) The quantity of water absorbed by crops and transpired or used directly in the building of plant tissue, together with that evaporated from the cropped area* (2) The quantity of water transpired and evaporated from a cropped area, or the normal loss of water from the soil by evaporation and plant transpiration. (3) All activities where the use of water results in a loss in the original water supplied, such as industrial or municipal consumption.
Consumptive Use (ID DWR Terminology)	See Idaho Code § 42-202B.

Submit proposed synonymns

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Once you have reviewed your choices of synonyms, please provide your name and email address and what organization you represent. Also, feel free to provide any comments explaining your choices. Then, click the green button below to submit!

Last name, First name

E-mail address

Organization

Comments

[Submit Proposed Synonyms](#)



Internet
of Water

Water Terminology Collection

User Guide

Term Browser

Identify Synonyms

Submit Vocabularies

We can ingest an existing html/ word/ excel/ pdf vocabulary

We can assist in setting up your own vocabulary service with

- persistent identifiers
- landing pages
- linked data

Water Budget – Use Model Navigator

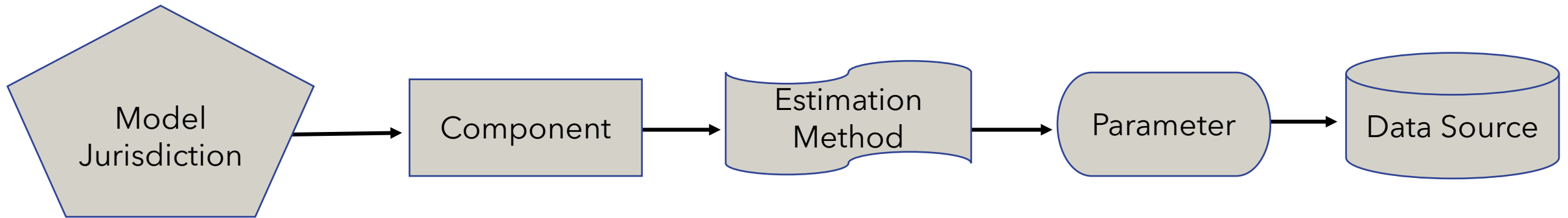
Resources

Water Budget Model Components

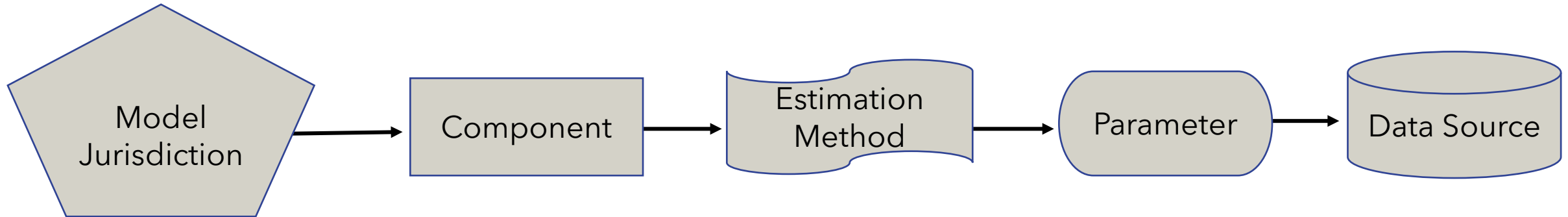
💧 Diverse semantics

💧 Operationalization

Which states use which air temperature datasets for their consumptive use calculations?

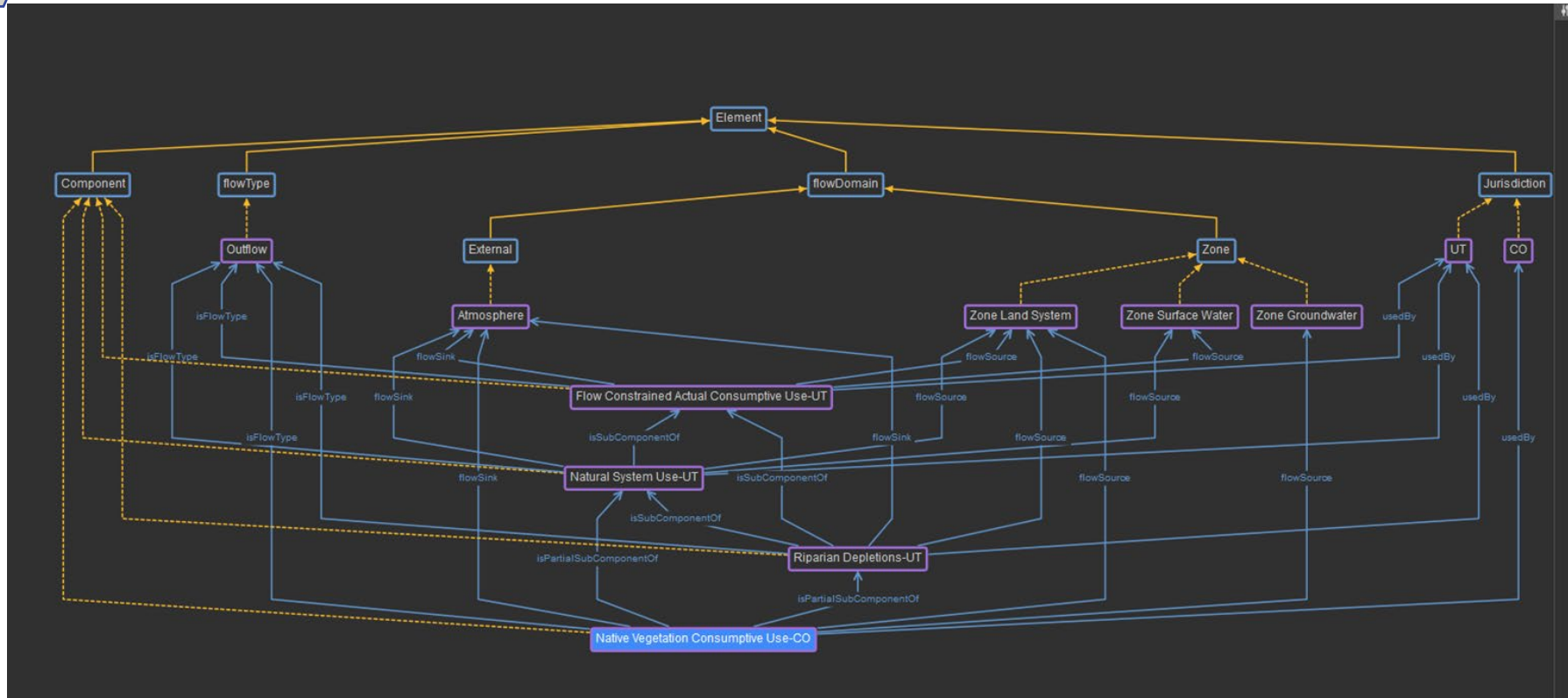
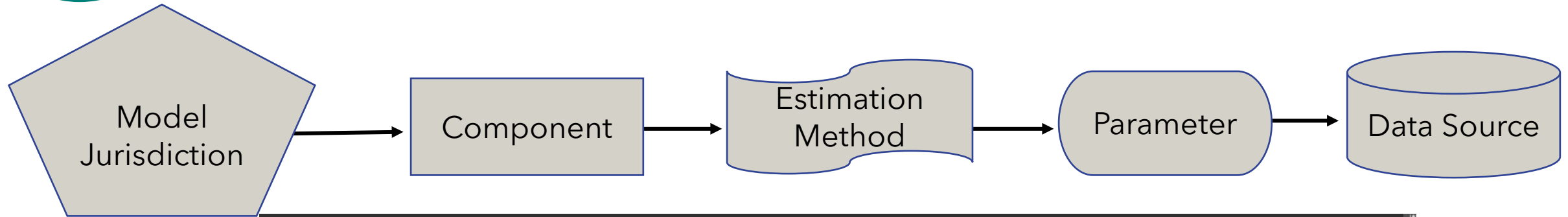


Which states use which air temperature datasets for their consumptive use calculations?

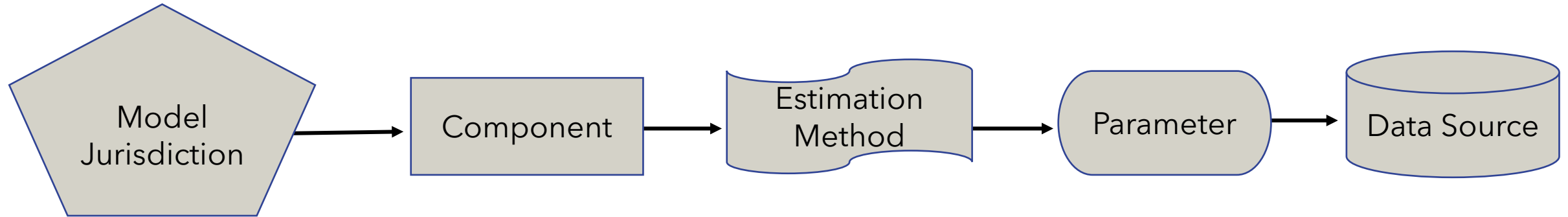


- An ontology/ database tracking all of these model elements across the Colorado River Basin states and Federal Agencies
- A graphical user interface to navigate these elements within, and compare across, models

Which states use which air temperature datasets for their consumptive use calculations?

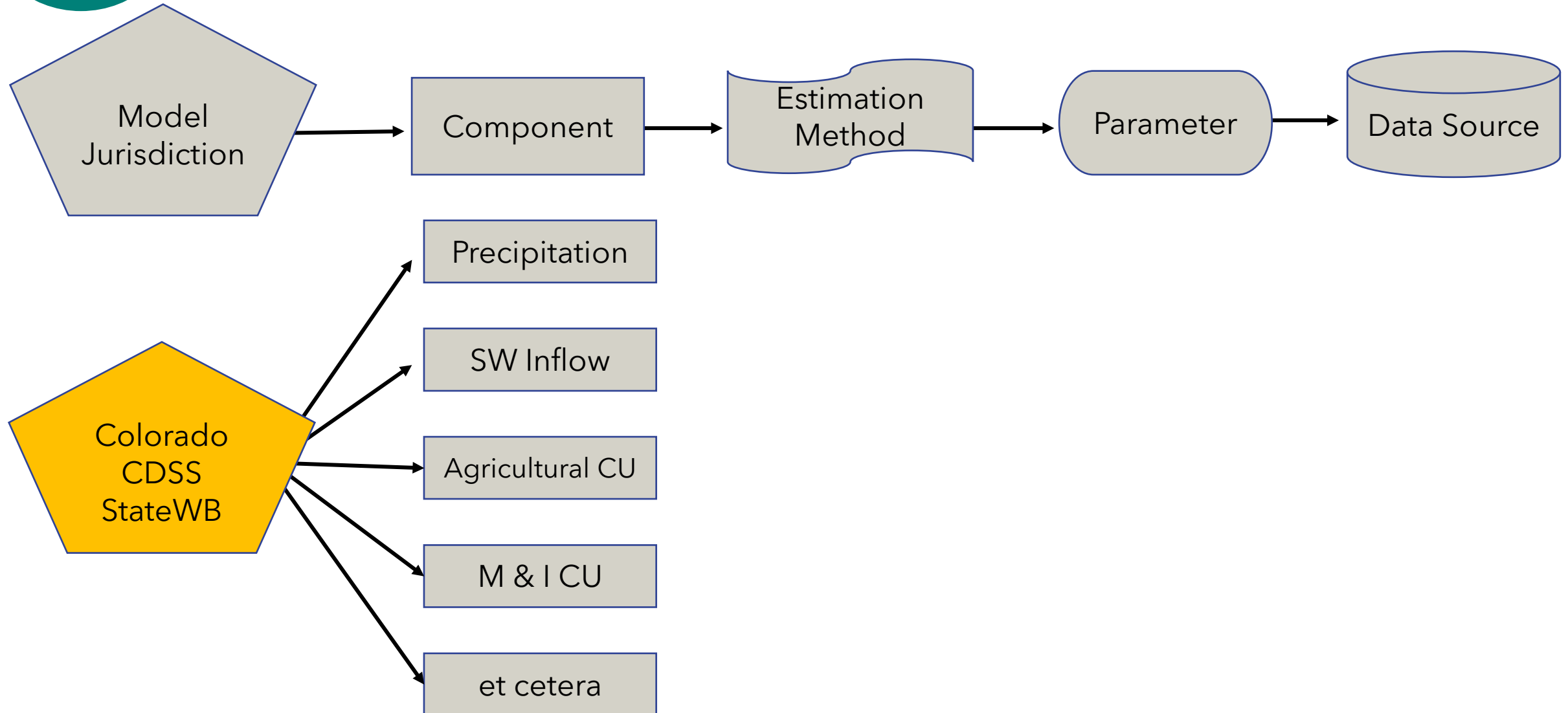


Which states use which air temperature datasets for their consumptive use calculations?

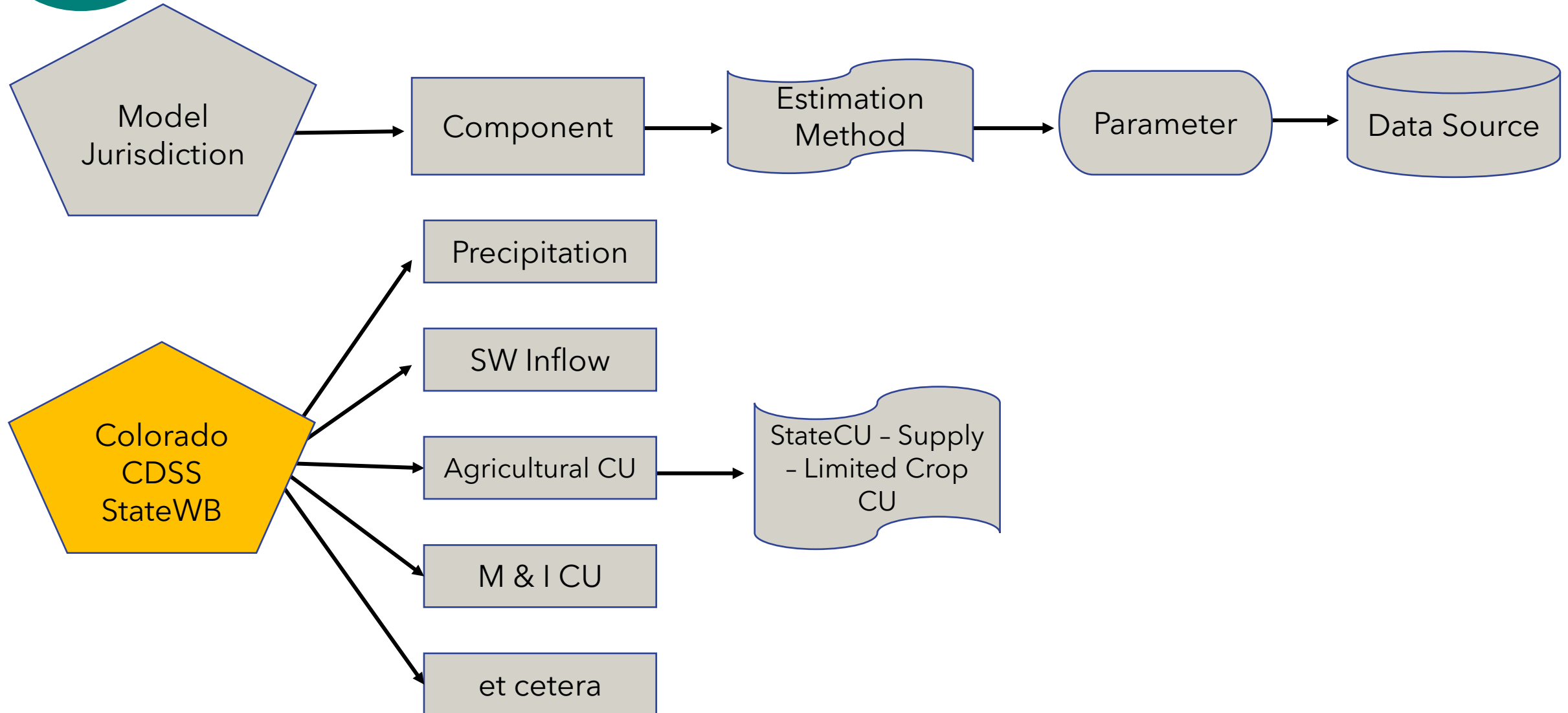


- An ontology/ database tracking all of these model elements across the Colorado River Basin states and Federal Agencies
- A graphical user interface to navigate these elements within, and compare across, models

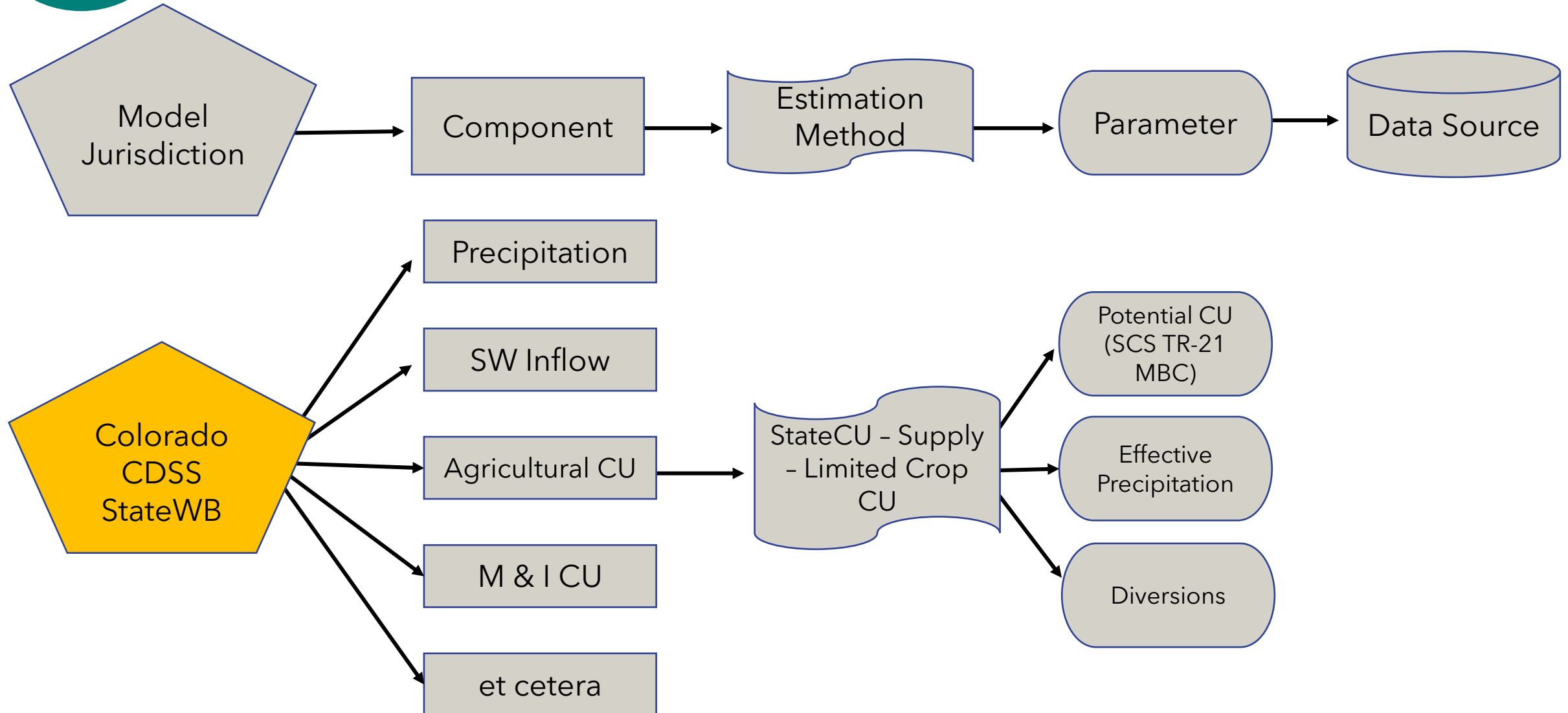
Which states use which air temperature datasets for their consumptive use calculations?



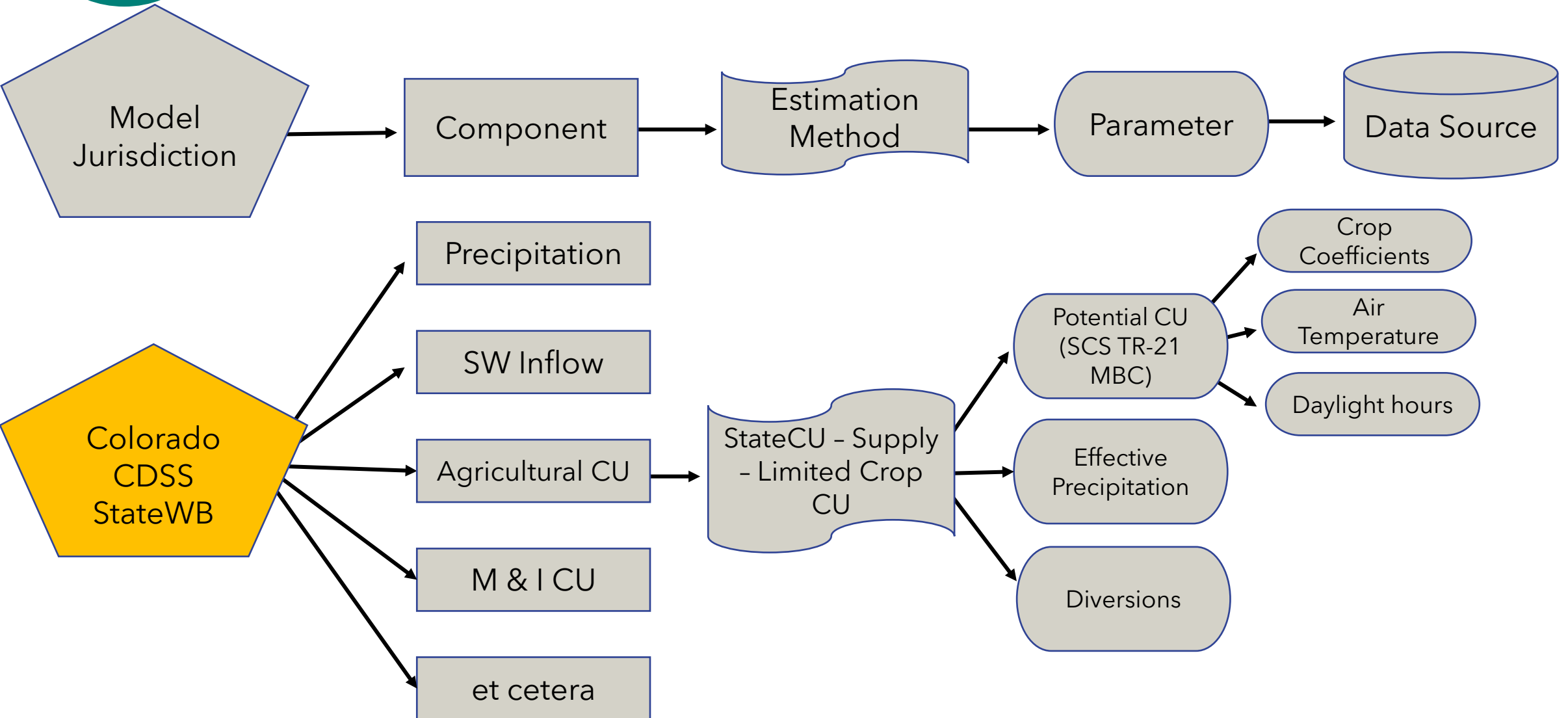
Which states use which air temperature datasets for their consumptive use calculations?



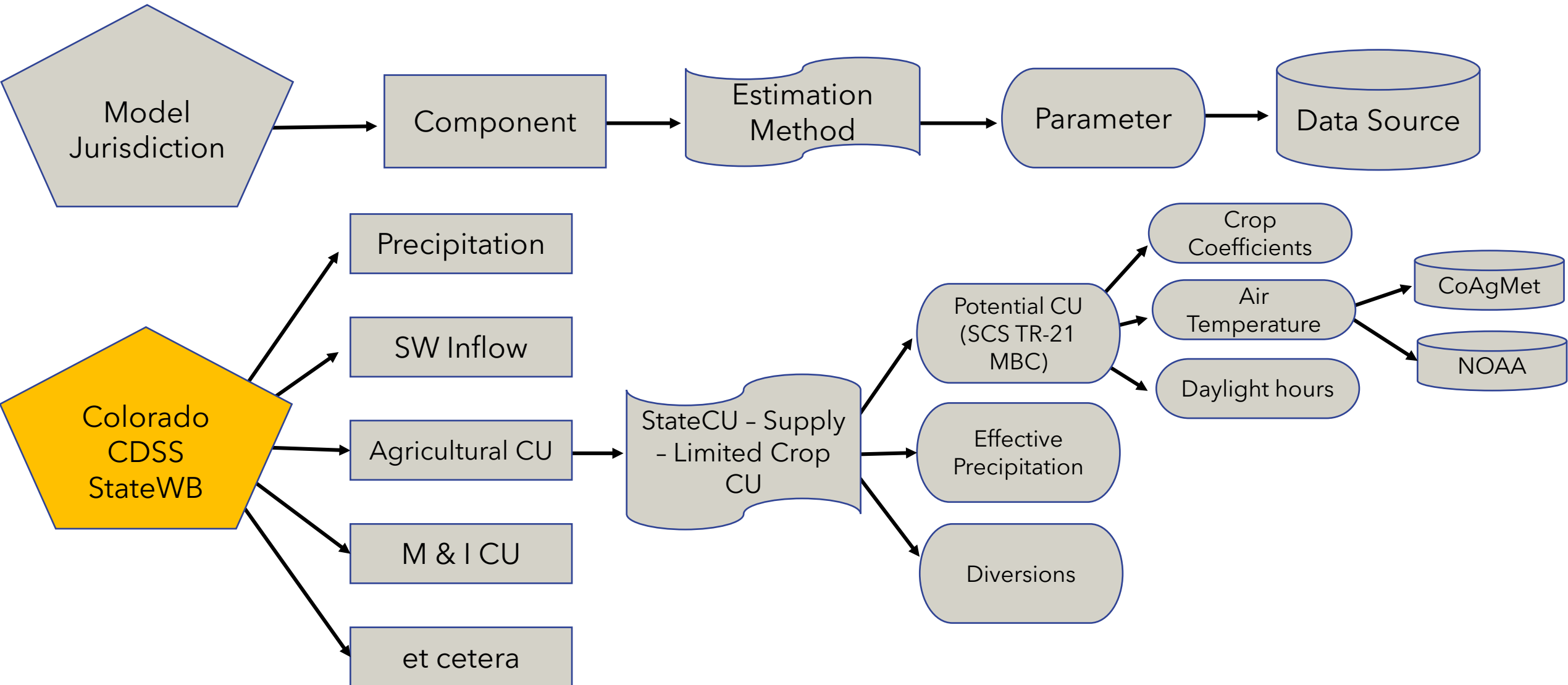
Which states use which air temperature datasets for their consumptive use calculations?



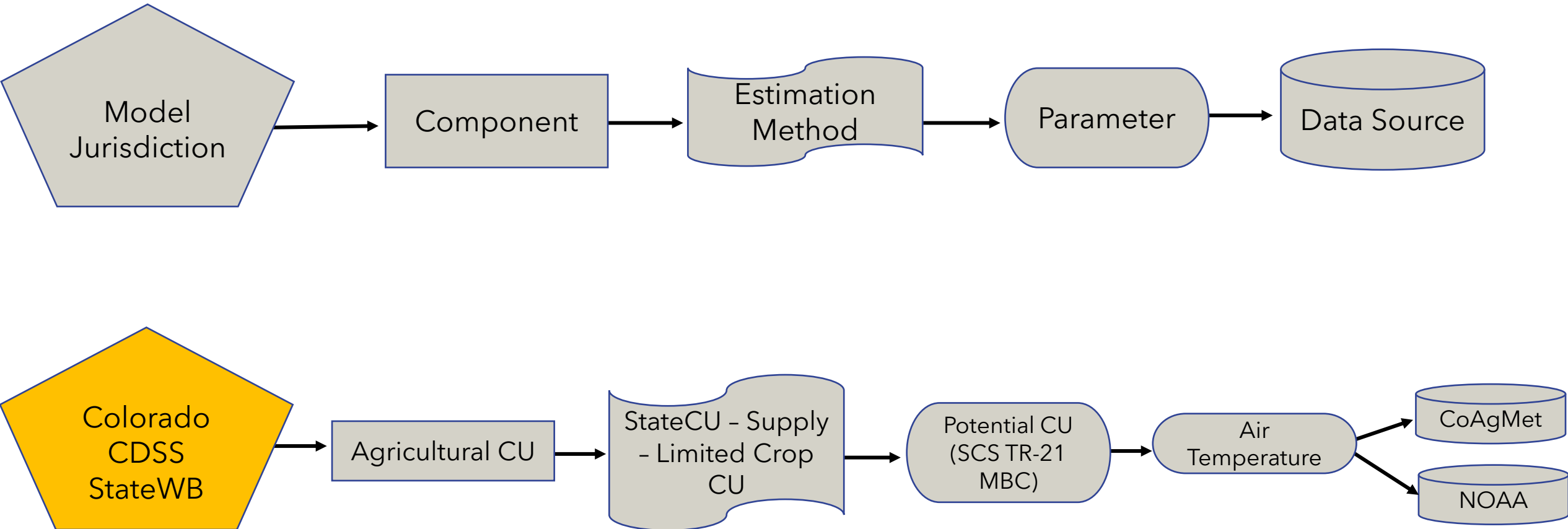
Which states use which air temperature datasets for their consumptive use calculations?



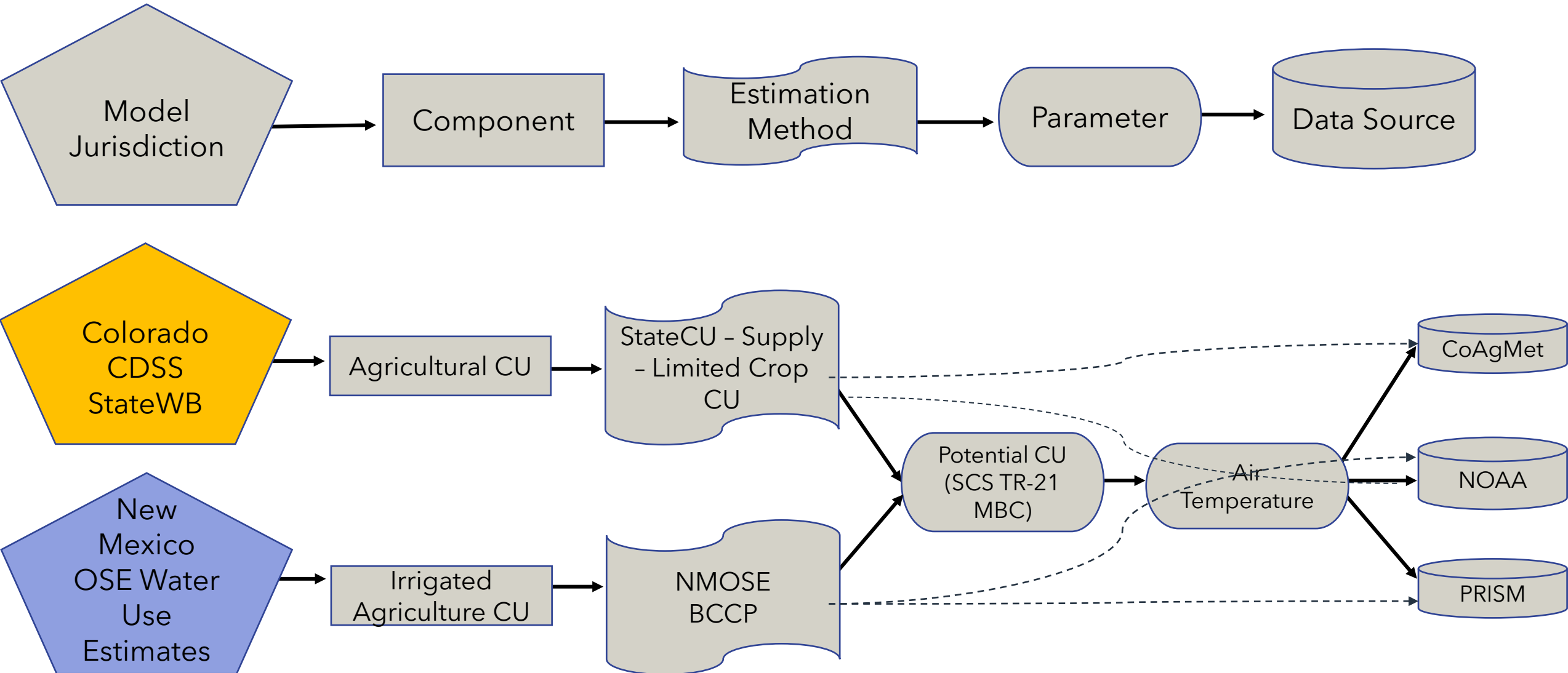
Which states use which air temperature datasets for their consumptive use calculations?



Which states use which air temperature datasets for their consumptive use calculations?



Which states use which air temperature datasets for their consumptive use calculations?



Project Geoconnex.us

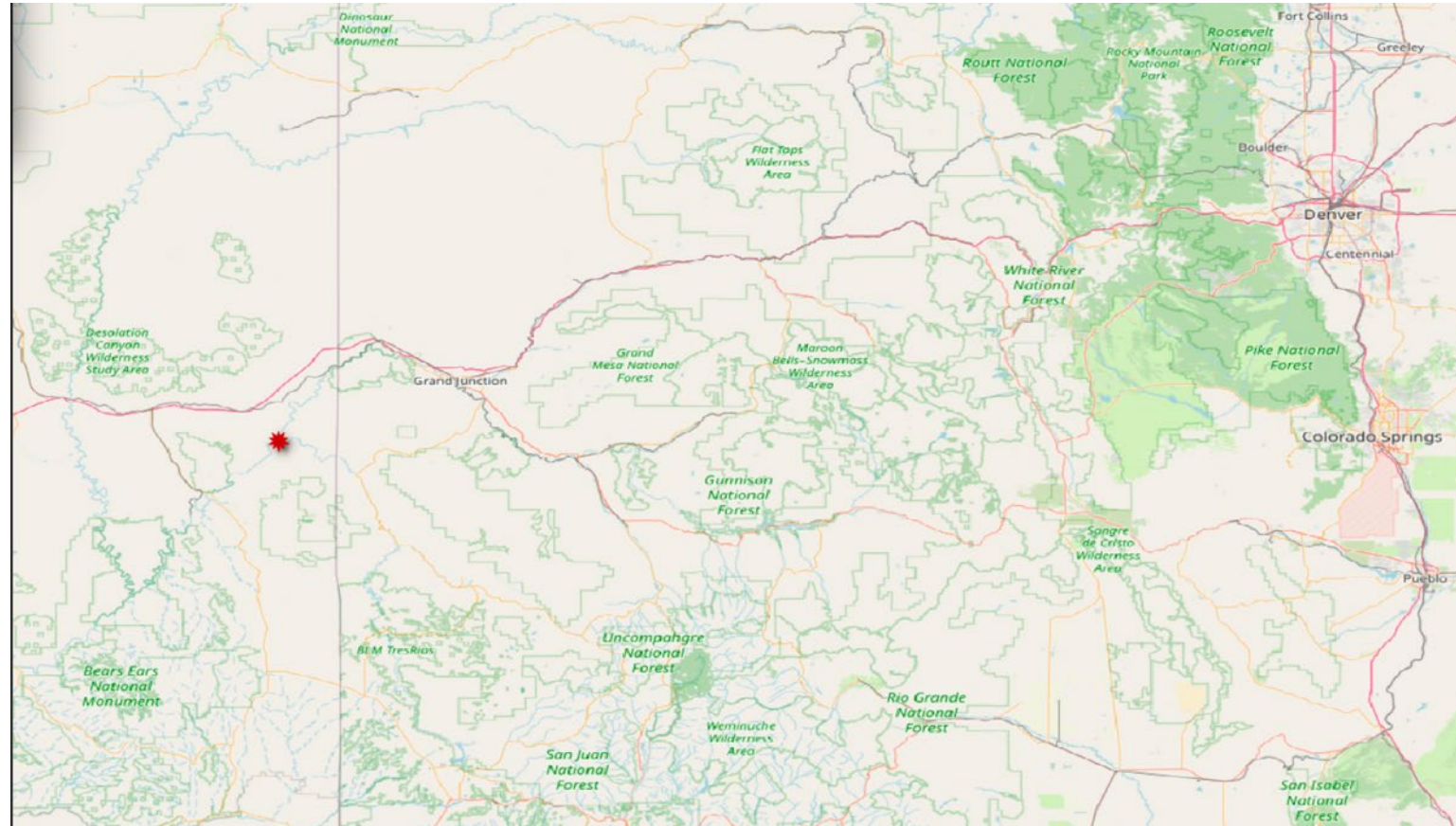
Geoconnex.internetofwater.dev

Resources

Linked hydrologic data

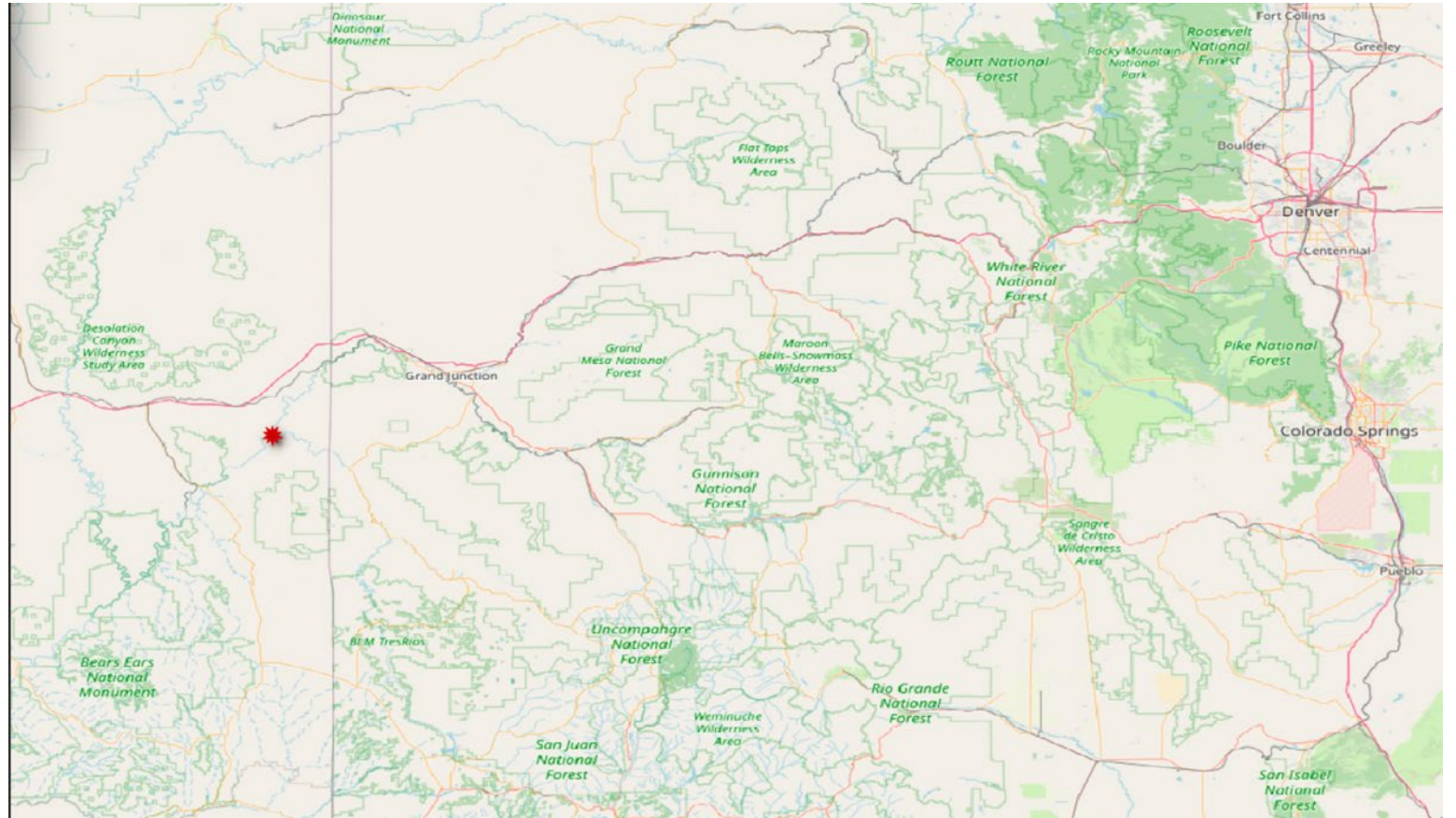
- 💧 Infrastructure
- 💧 Community-Building
- 💧 Discovery Tools

“I would like a list pointing me to all data about water supply and water rights upstream of this diversion”



“I would like a list pointing me to all data about water supply and water rights upstream of this diversion”

Leveraging
Project Geoconnex.us and
the USGS
[Network-Linked Data Index](#)

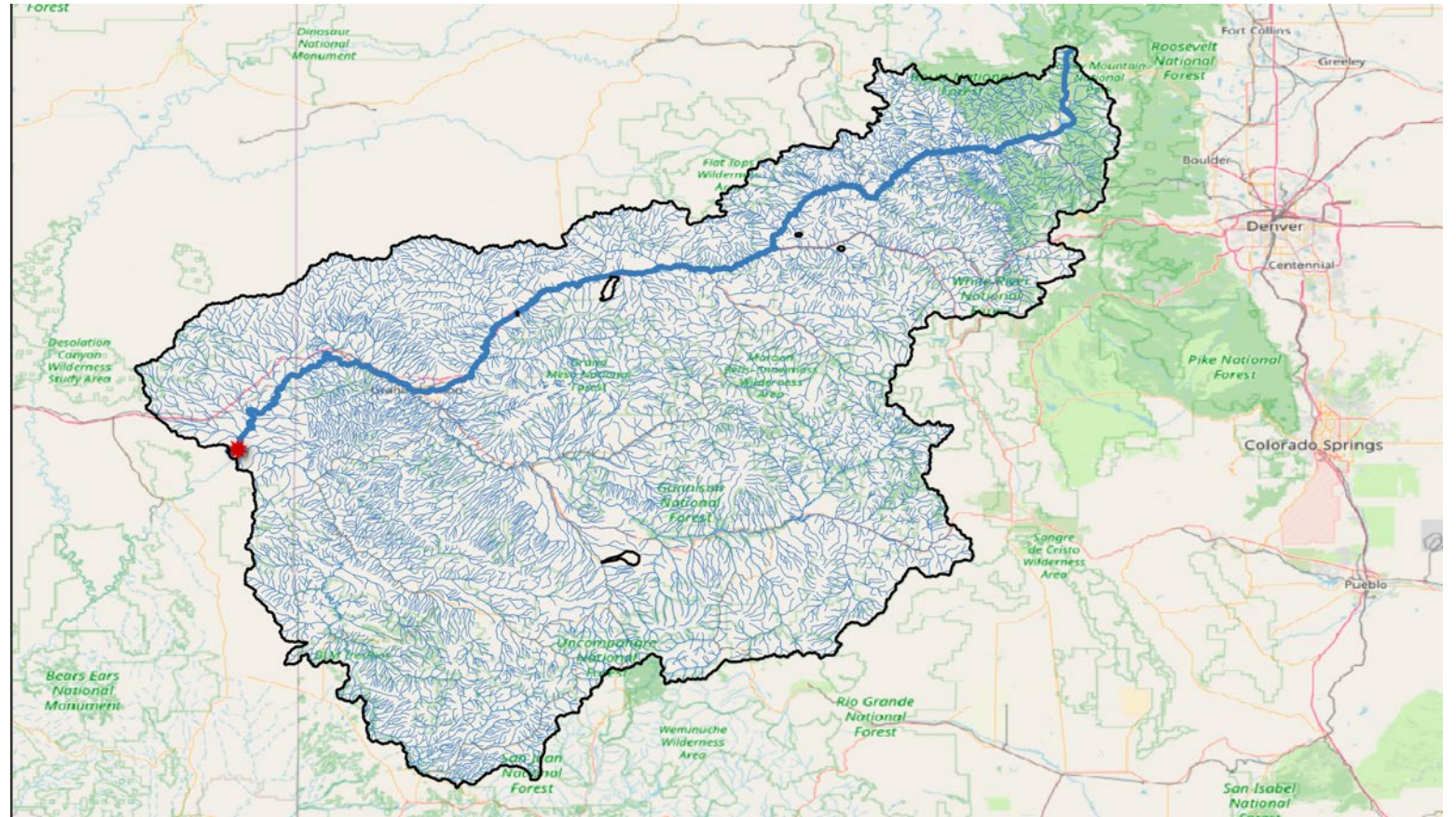


“I would like a list pointing me to all data about water supply and water rights upstream of this diversion”

Leveraging
Project Geoconnex.us and
the USGS
[Network-Linked Data Index](#)

Identify upstream, each with 1 API call:

- main stem
- tributaries
- basin



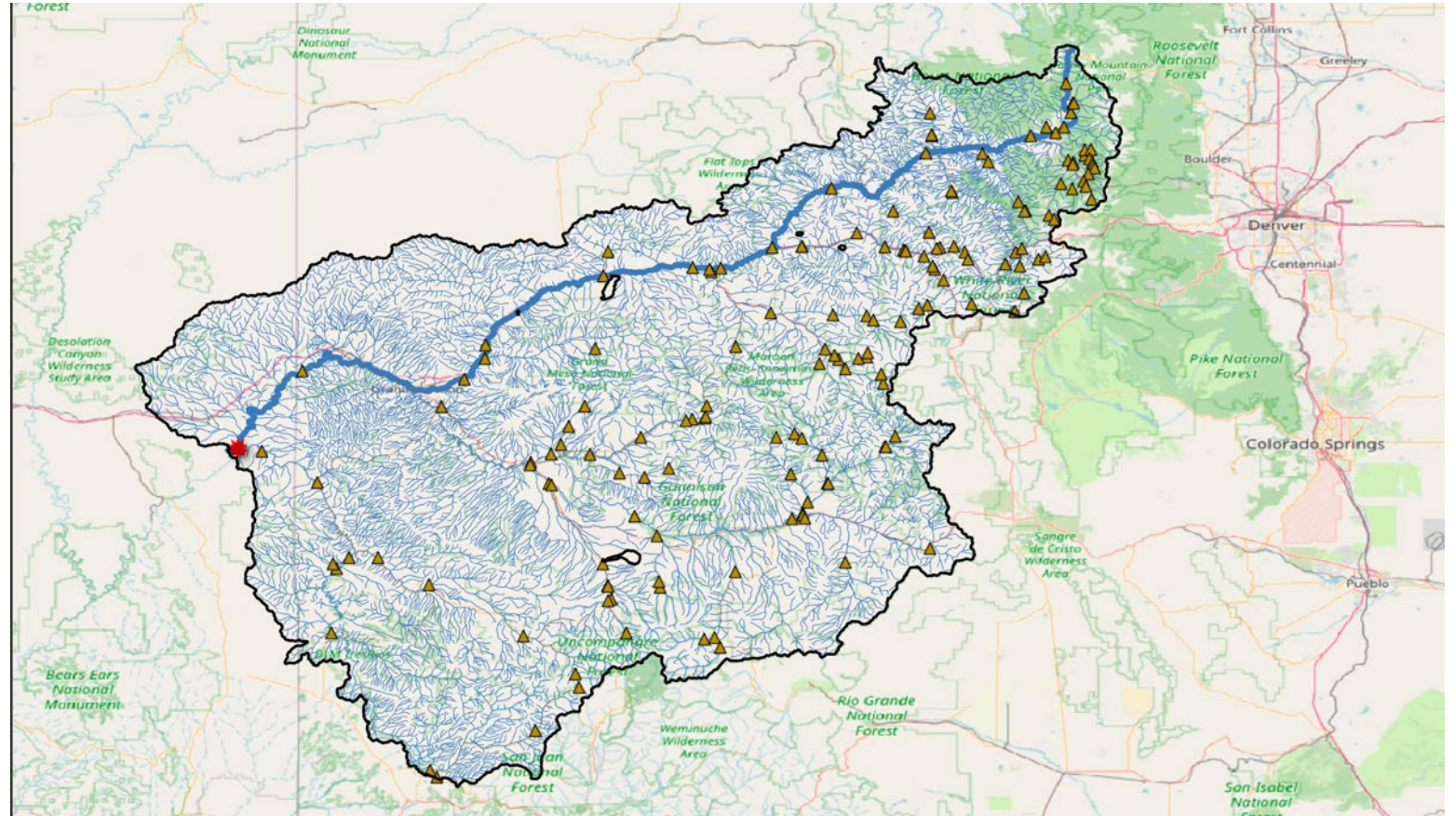
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- Basin

Identify all upstream USGS NWIS Sites with
1 API Call



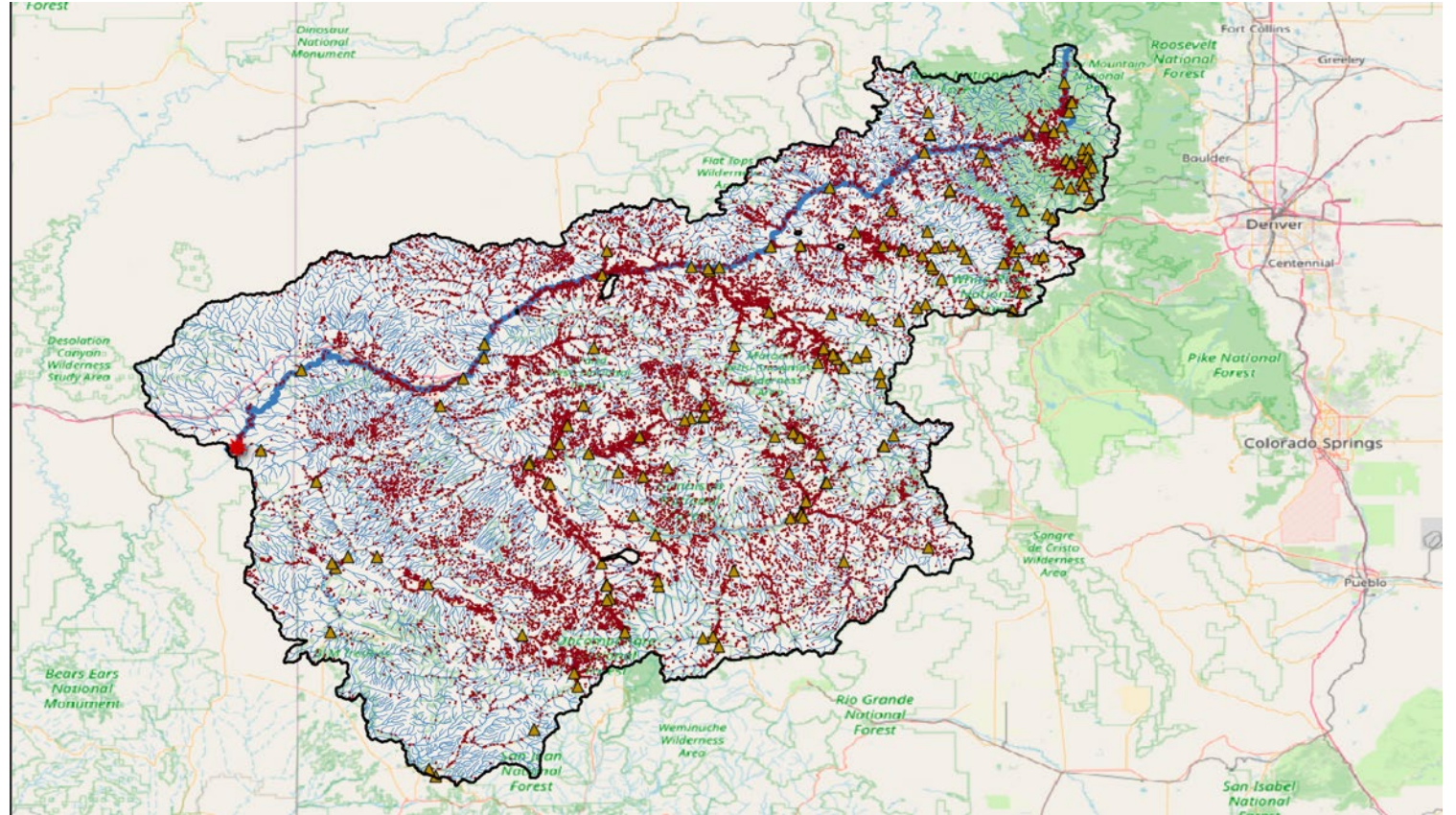
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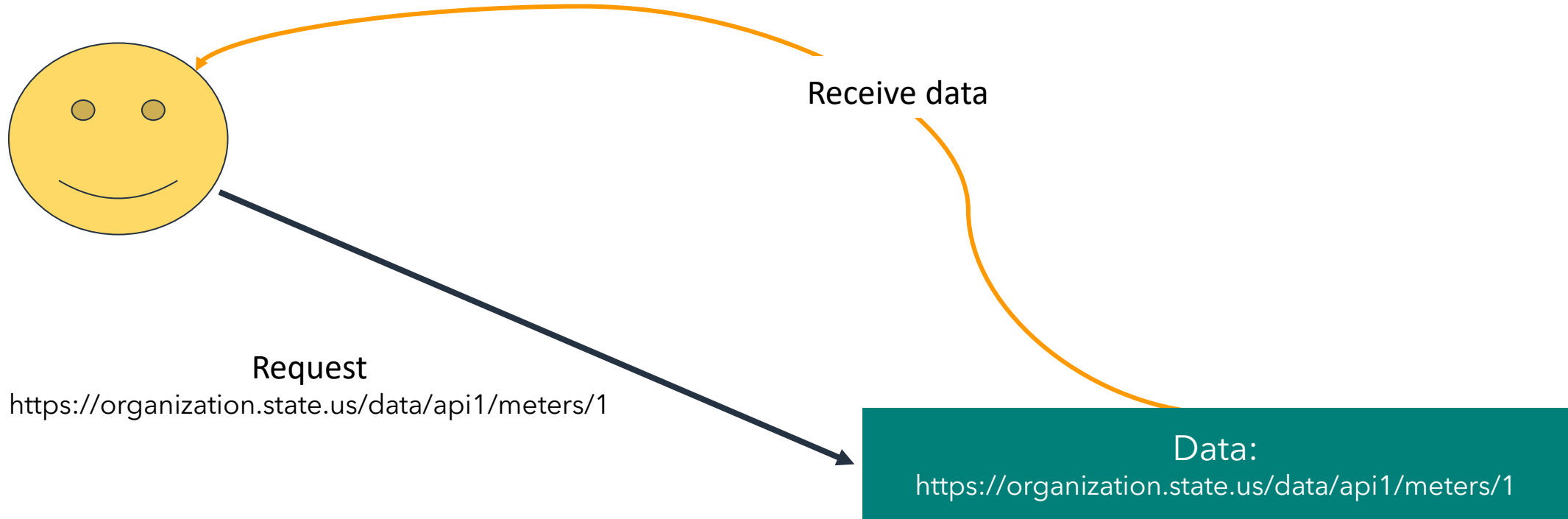


How to make this happen in the real world?

Building a **community of practice** to enable the **discovery** of water data by **linking** that data to **persistently identified** environmental features

How to make this happen in the real world?

**Maintain persistent identifiers for your information resources with
geoconnex.us!**

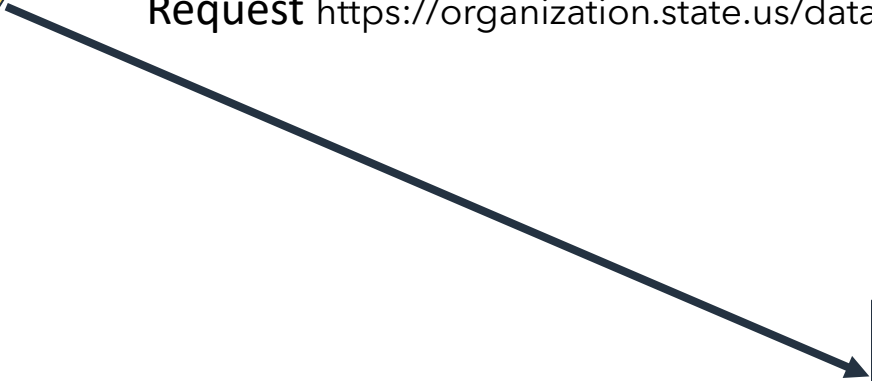


How to make this happen in the real world?

**Maintain persistent identifiers for your information resources with
geoconnex.us!**



Request <https://organization.state.us/data/api1/meters/1>



Data:

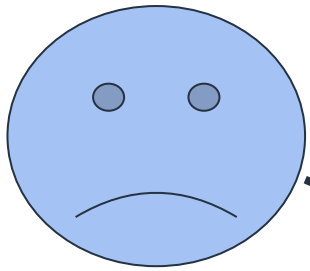
<https://organization.state.us/data/api1/meters/1>

Data:

<https://organization.state.us/new-api2/meters/1>

How to make this happen in the real world?

**Maintain persistent identifiers for your information resources with
geoconnex.us!**



Request `https://organization.state.us/data/api1/meters/1`

**Error 404
Not found**

Data:

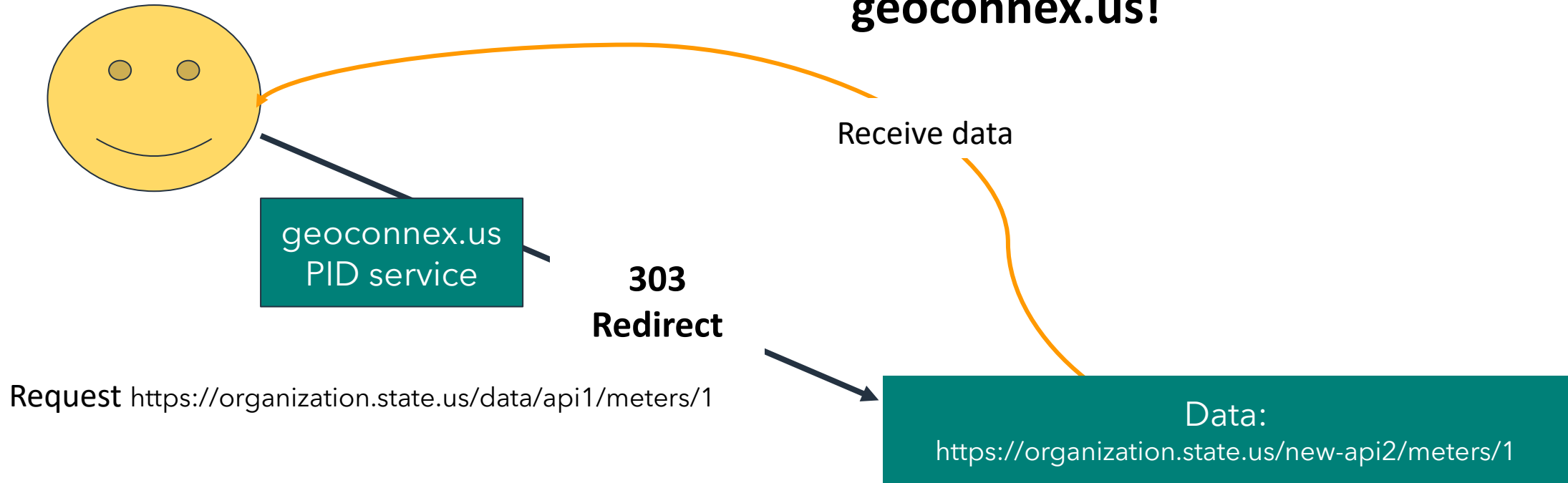
`https://organization.state.us/data/api1/meters/1`

Data:

`https://organization.state.us/new-api2/meters/1`

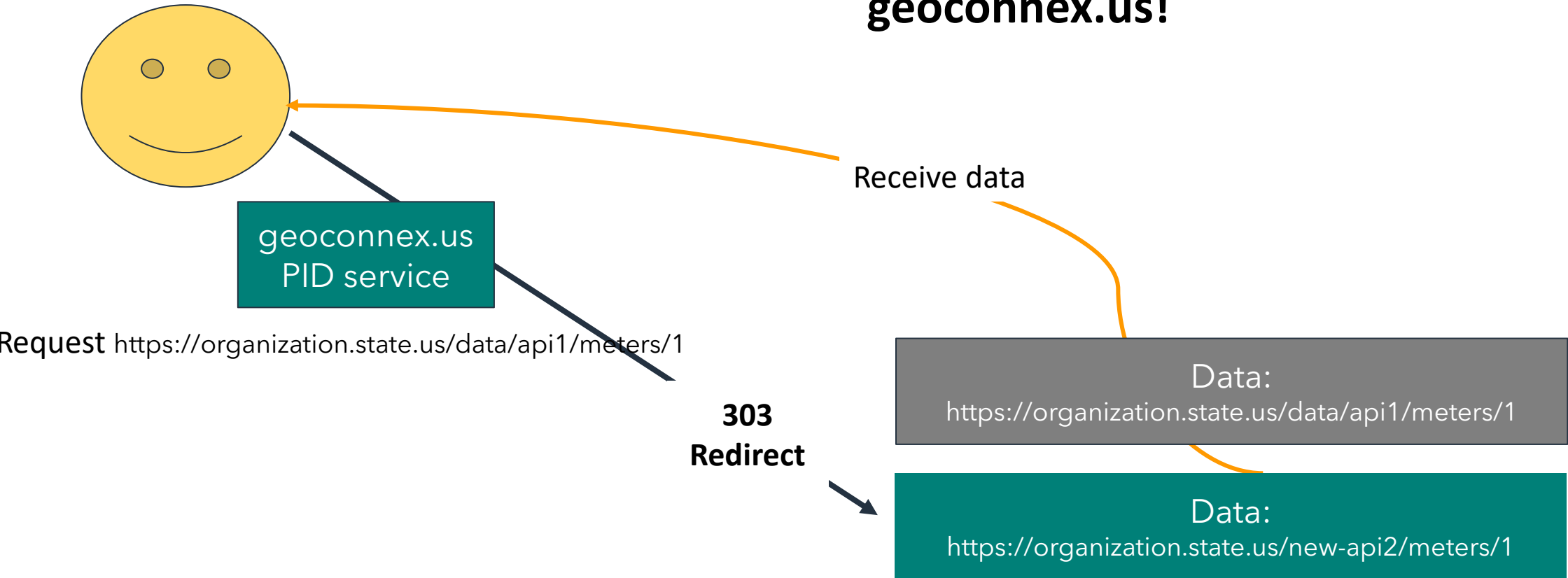
How to make this happen in the real world?

**Maintain persistent identifiers for your information resources with
geoconnex.us!**



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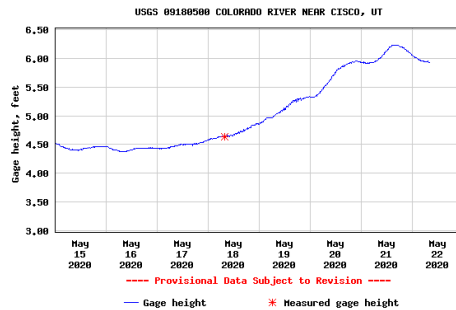
- See <https://github.com/internetofwater/geoconnex.us> for minting or changing identifiers
- See the Wiki at <https://github.com/internetofwater/geoconnex.us/wiki> for information on our multi-organization “barn raising” this June!

A system of persistently iden linked web resources about real-world objects

Organizational
Monitoring Location (e.g.
USGS Gage, USACE
Dam, State EPA WQP
site)

Gage height, feet

Most recent instantaneous value: 5.93 05-22-2020 08:00 MDT



Hosted by each
organization providing
data

A system of persistently iden linked web resources about real-world objects

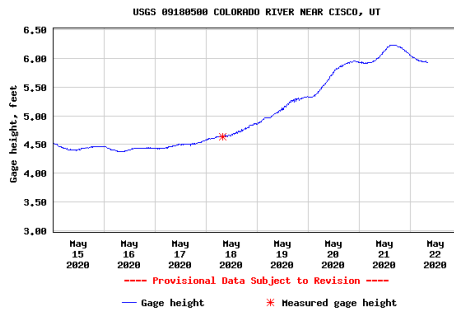
Organizational
Monitoring Location (e.g.
USGS Gage, USACE
Dam, State EPA WQP
site)

Located
at

Community reference
locations. (e.g., the
catchment outlet at which
there might be a dam, a
gage, and a water quality
station)

Hosted by Project
Geoconnex

Gage height, feet
Most recent instantaneous value: 5.93 05-22-2020 08:00 MDT



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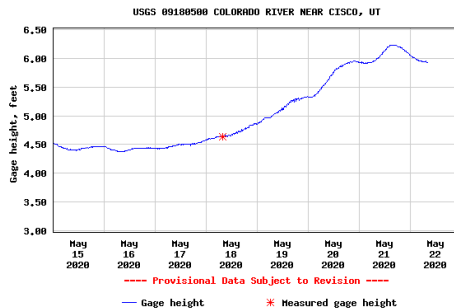
Hosted by Project
Geoconnex

About

Environmental feature of
interest. (e.g. a stream
reach, local aquifer)

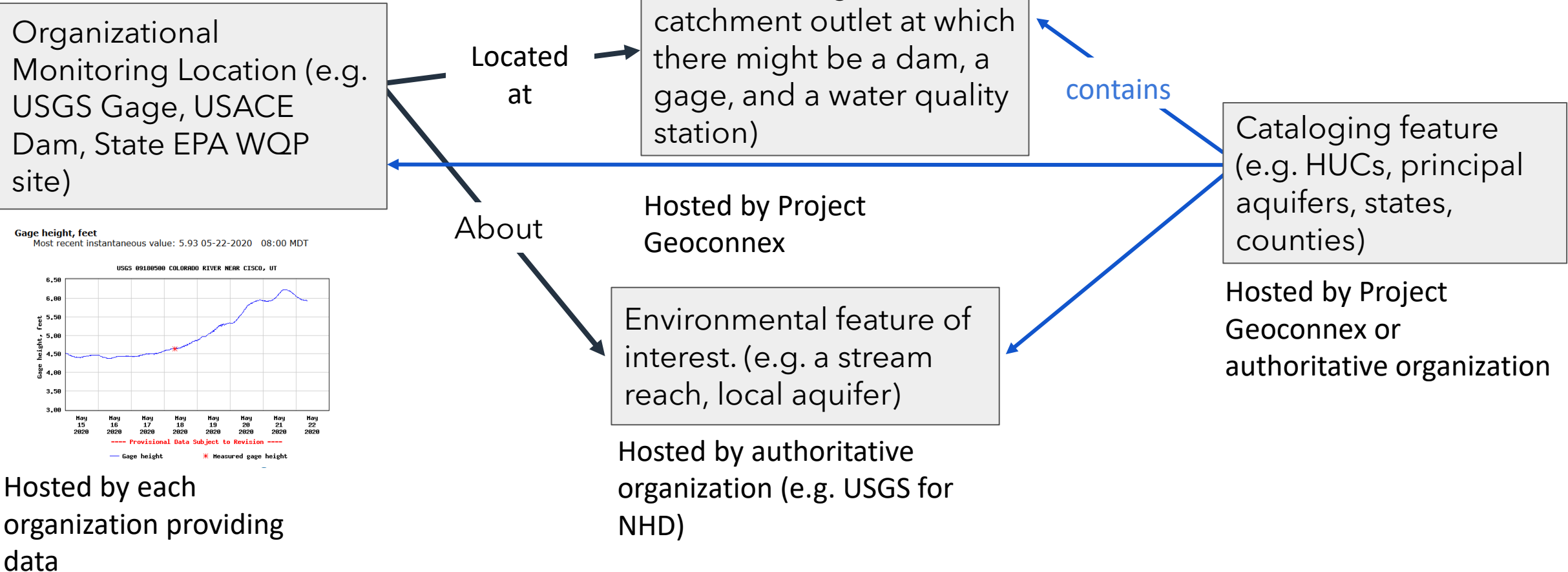
Hosted by authoritative
organization (e.g. USGS for
NHD)

Gage height, feet
Most recent instantaneous value: 5.93 05-22-2020 08:00 MDT

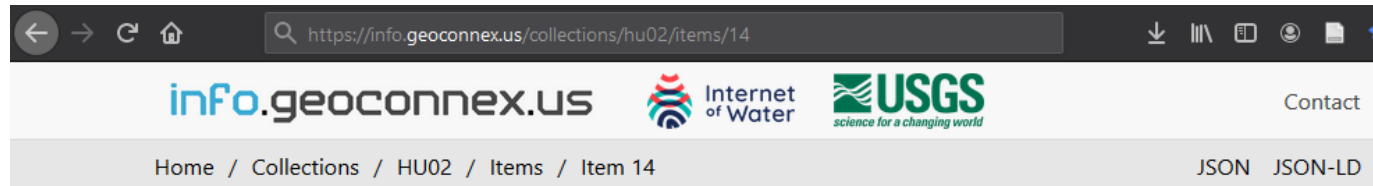


Hosted by each
organization providing
data

A system of persistently iden linked web resources about real-world objects



Project Geoconnex facilitates the hosting of web resources that:



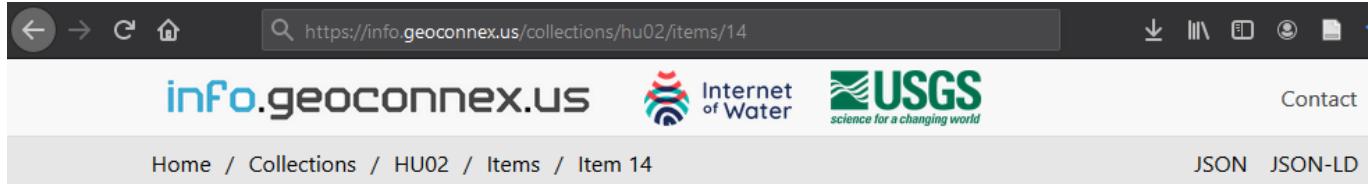
Item 14



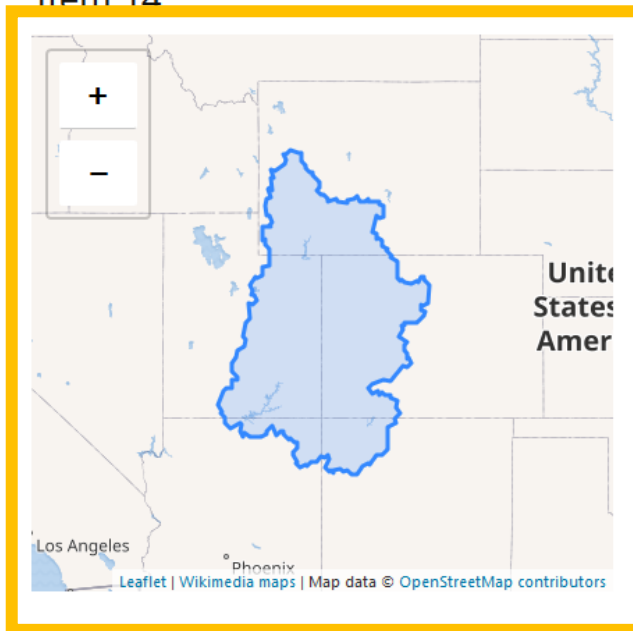
Property	Value
id	14
uri	https://geoconnex.us/ref/hu02/14
NAME	Upper Colorado Region
gnis_url	https://geonames.usgs.../apex/f?p=gnispq:3:::N...
GNIS_ID	2730145
HUC2	14
LOADDATE	2017/09/19 17:56:32+00

Project Geoconnex facilitates the hosting of web resources that:

1. Are about a single feature



Item 14



Property	Value
id	14
uri	https://geoconnex.us/ref/hu02/14
NAME	Upper Colorado Region
gnis_url	https://geonames.usgs.../apex/f?p=gnispq:3:::N...
GNIS_ID	2730145
HUC2	14
LOADDATE	2017/09/19 17:56:32+00

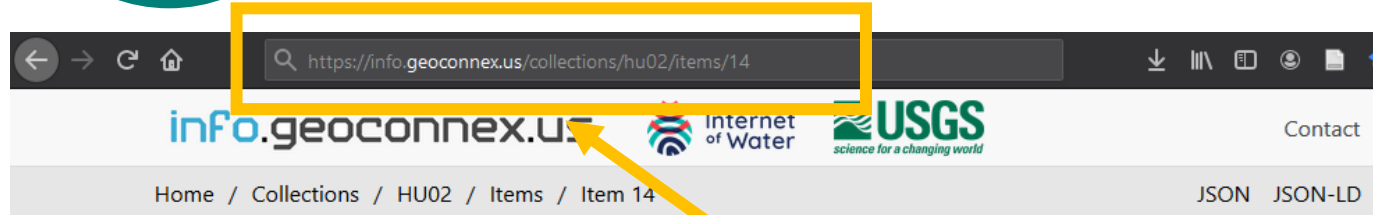
Project Geoconnex facilitates the hosting of web resources that:

1. Are about a single feature
2. Contain structured links that can be crawled by machine

The screenshot displays the Project Geoconnex.us web interface. The browser address bar shows the URL `https://info.geoconnex.us/collections/hu02/items/14`. The page header includes the `info.geoconnex.us` logo, the Internet of Water logo, and the USGS logo. The breadcrumb navigation path is `Home / Collections / HU02 / Items / Item 14`. A `Contact` link is visible in the top right corner. The main content area is titled `Item 14` and features a map on the left and a JSON-LD data viewer on the right. The map shows a region in the southwestern United States, with labels for `Los Angeles` and `Phoenix`. The JSON-LD data viewer displays the following structure:

```
{
  "@context": {
    "0": "https://geojson.org/geojson-Ld/geojson-context.jsonLd",
    "1": {
      "NAME": "https://schema.org/name"
    },
    "2": {
      "gnis_url": "https://schema.org/subjectOf"
    },
    "3": {
      "uri": "@id",
      "type": "Feature"
    },
    "properties": {
      "uri": "https://geoconnex.us/ref/hu02/14",
      "NAME": "Upper Colorado Region",
      "gnis_url": "https://geonames.usgs.gov/apex/f?p=gnispq:3:::NO::P3_FID:2730145",
      "GNIS_ID": 2730145,
      "HUC2": "14",
      "LOADDATE": "2017/09/19 17:56:32+00",
      "id": "https://geoconnex.us/ref/hu02/14"
    },
    "links": {
      "0": {
        "rel": "alternate"
      }
    }
  }
}
```

Project Geoconnex facilitates the hosting of web resources that:



Item 14



Property	Value
id	14
uri	https://geoconnex.us/ref/hu02/14
NAME	Upper Colorado Region
gnis_url	https://geonames.usgs.gov/apex/f?p=gnispq:3::N...
GNIS_ID	2730145
HUC2	14
LOADDATE	2017/09/19 17:56:32+00

1. Are about a single feature
2. Contain structured links that can be crawled by machine
3. Have persistent identifiers (PIDs)

A scenic landscape featuring a winding river flowing through a valley. The surrounding mountains are covered in patches of snow, and the sky is a mix of soft orange and blue, suggesting a sunset or sunrise. The overall mood is serene and majestic.

Engagement

IoW Partners



Engagement





Internet
of WaterTM

Lessons learned

- 💧 Effective engagement
- 💧 Capacity limitations
- 💧 Resource & tool refinement



Internet
of WaterTM