sharing information for water sharing arrangements

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What are water sharing arrangements?
Information/data is needed

 Where?
 What type?
 Who?

Progress

What’s next?

questions
Farmer to farmer
Farmer to municipality
Municipality to industry
Farmer to environment

*what* are “*water sharing*” arrangements?
where . . .?
Boundaries in the Colorado River Basin

- Political (Source: National Atlas)
  - Countries, States, Tribes, Counties
- Hydrologic (Source: USGS)
- Ag Water Supply Organizations (Source: ?)
  - Water conservancy districts, irrigation districts, etc.

Irrigated/ Agricultural lands

- by County (source: USDA)
- by State
- Remote Sensing (source: USGS)

what type?
Who is collecting the data?
Who is it about?
Who is the intended audience?
Who wants to “share” data?

who...?
Challenges
Data collection to date
Database development
Examples
CRWUA meeting and discussion

progress
Public vs. private
Availability
Accessibility
Compatibility
Aggregation/compilation

*data* challenges?
Relational geodatabase
Overlaying governance boundaries and ag lands data

database development
Grand Valley Irrigators, CO

http://www.irrigationprovidersgv.org/irrigation_entities.php
Agricultural Water Governance in Grand Valley
Mesa County, Colorado

Legend
- Grand Valley Project - WCAO
- Colorado River & Major Tributaries
- Ute Water Conservancy District - CRD
- Irrigated Land - 2005
- Redlands Water & Power Company - WCAO
- Orchard Mesa Irrigation District - WCAO
- Palisade Irrigation District
- Mesa County Irrigation District - WCAO
- Grand Valley Water Users Association - WCAO
- Grand Valley Irrigation Company - WCAO

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Sources: Bureau of Reclamation, Colorado River District, Colorado Decision Support System
Bureau Ag Water Contracts
Yuma County

Legend
- LCRO Yuma County Water Contracts
- Ag Water Districts - LCRO Contracts
  - Beattie Farms Southwest
  - Cocopah Indian Reservation
  - Gila Monster Farms
  - North Gila Valley Irrigation District
  - Salt River Gila Valley Water Users Association
  - Unit B Irrigation and Drainage District
  - Wellton Mohawk Irrigation & Drainage District
  - Wellton-Mohawk Irrigation & Drainage District
  - Yuma County Water Users Association
  - Yuma Irrigation District
  - Yuma Mesa Fruit Growers Association
  - Yuma Mesa Grapefruit Company
  - Yuma Mesa Irrigation and Drainage District

CA
AZ

California
Arizona

0 2.5 5 Miles

0 5 10 Miles
Add Ag Water and Lands in Yuma County map
What is “water sharing” and who is involved?
Who is the information for?
Why collect this information?
What arrangements and where?
Senior/ Junior Ag water rights holders
Upper/Lower Basin Ag water users
Federal/ State/ Private projects
Local climatic variability

findings?
Collect Ag water data for Mexico
Consider Water Rights data for Ag water supply organizations
Interviews with ag water users
Serve it up

what’s next?
Thank you!