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Wyoming Water Development Office

AGENCY DIRECTOR 4 DIVISIONS:

- ADMINISTRATION
- PLANNING
 - PROJECT PLANNING
 - RIVER BASIN PLANNING
- CONSTRUCTION
- DAMS & RESERVOIRS





Wyoming Water Development Commission (WWDC)

Wyoming Water Development Commission

Water Division 1 2 Members

Water Division 2 2 Members Water Division 3 2 Members Water Division 4 2 Members

At Large 1 Member Tribal

1 Member

Select Water Committee (SWC):

- Provides final approval for water development projects
- Statute requires that SWC monitor the program, review project contracts, and prepare legislation
- SWC submits two annual omnibus bills for the Legislature's consideration: planning and construction
- These bills are considered outside of the administrative budget requests and appropriations of the Office
- Legislature must appropriate and approve any expenditures of funds from the accounts

Program Funding

Severance tax distribution account

Three accounts:

WDA I — New Development — 12.45% not to exceed \$19,297,500/yr WDA II — Rehabilitation — 2.1% not to exceed \$3,255,000/yr WDA III — Dams and Reservoirs — 0.5% not to exceed \$755,000/yr

- Each WDA maintained independently of the other to fund the different categories of projects
- Planning, groundwater exploration and the agency's operating budget are funded out of WDA I
- Funding for River Basin planning projects comes from WDA I



How Planning Projects Come to WWDC

- Sponsors come to the WWDC with an application for a study
 - Level I Reconnaissance studies
 - Level II Feasibility studies
- RBP team can come to the WWDC with a specific study/project
 - Statewide



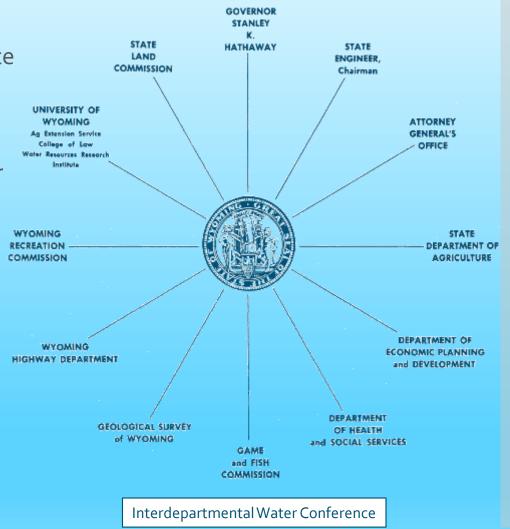
What Guides Wyoming River Basin Planning?

• 1967 Legislature authorized the State Engineer's Office to initiate a State Water Planning Program.

• 1973 First State Water Plan is written and the Interdepartmental Water Conference is formed

1997 Legislature authorizes
 feasibility study that launches
 River Basin Planning
 Program

• 2015 Governor's Water Strategy is released





What Guides Wyoming River Basin Planning?

Statutes:

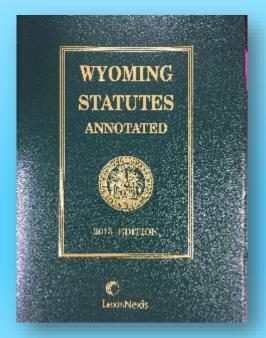
• 41-1-106	Water and related land reso	urces pl	lanning
	commission's responsibility		

• 41-2-107	Water resources p	lans; review; su	bmission to
	commission		

• 41-2-108 Water resources plans; powers of commission

• 41-2-109 Water resources plans; contents

• 41-2-110 Water resources plans; duties of commission





Planning Statutes

41-2-109. Water resources plans; contents.

- (a) The water resources plans shall, to the extent deemed practical:
- (i) Identify, describe and inventory the **occurrence**, **amounts**, **availability and quality** of water resources....
- (ii) Identify and describe **prospective needs and demands** for water and opportunities for water development...
- (iii) Identify and specify for each plan appropriate **state**, **regional and local goals and objectives** for management of water resources...
- (iv) Evaluate and compare prospective and anticipated uses and projects...



Wyoming River Basin Planning

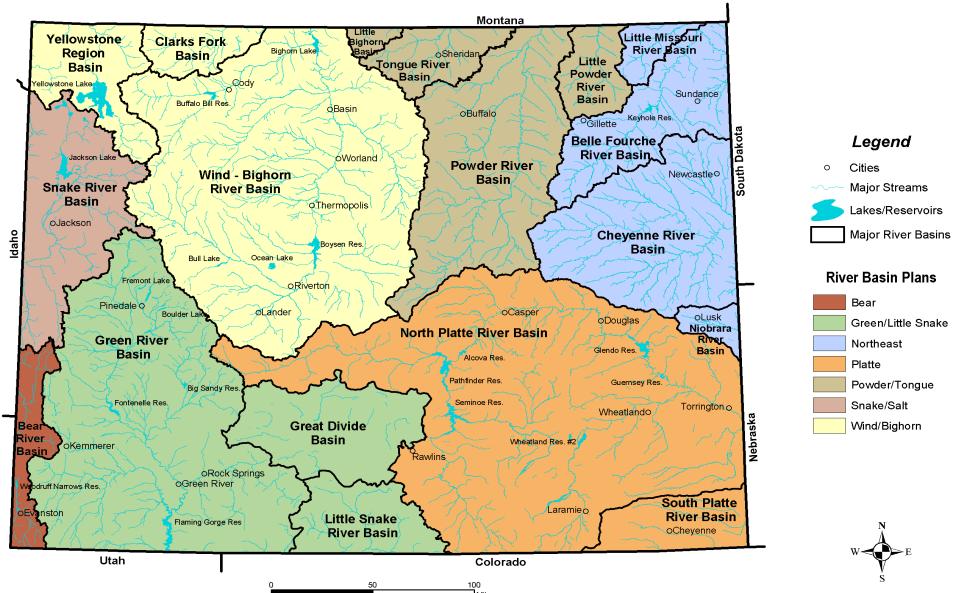
 The River Basin Planning (RBP) section is responsible for water resource planning which includes watershed plans and river basin plans for the state

 The RBP section consists of three employees with assistance from the Water Resources Data System (WRDS) and the State Engineer's Office (Water Planning Coordinator/Liaison)



Wyoming River Basin Plan Areas





Why all the Planning?

Basin Planning Mission Statement: Develop essential information concerning the <u>current status</u> and <u>future availability</u> of water resources in Wyoming

- Inform state water policy and project development
- Provide a proactive stance in the legal arena
- Provide an opportunity for local input on water policy and projects





Why all the Planning?

- The State has gone through two cycles of planning.
- First round took place between 2001 2006
- Second round took place between 2010 2018
- Resulted in lots of valuable information

AND.....



Why all the Planning?





What does the Future Hold?

Modernize:

new data products, improved presentation & access

Decision Support:

consistent and credible information

Adaptive:

to local needs

Lower cost:

Basin
Planning &
Level 1
projects



What Does the Future Hold?

- What are the questions we need to be able to answer?
- What tools can help answer those questions?



What Are the Questions We Need To Be Able to Answer?

Questions such as:

- What areas are most affected on low water years?
 Is there a mitigation plan in place?
- How has water use changed in the last 20-30 years?
 What will it look like 20 years from now?
- How can state resources be invested strategically?
 How do we reduce costs?
- Is there enough physical water to support a project?
- How does water move across the landscape and what are the conditions of the infrastructure?

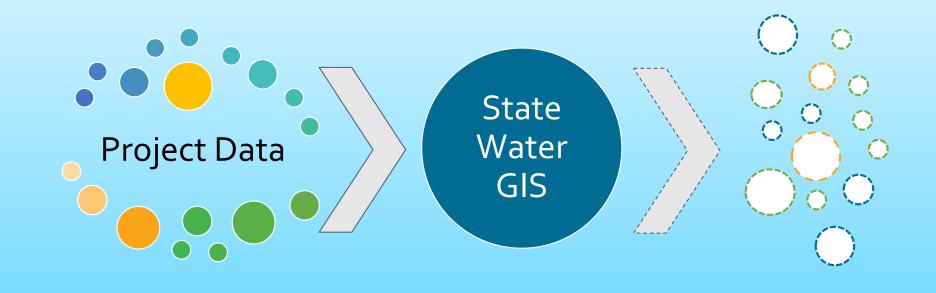


Tools To Help Answer Those Questions

- GIS Data Model Implementation Study
- Water Infrastructure Mapping
- Supplemental Water Supply Analysis
- Water Availability Index
- StreamStats



GIS Data Model Study



Current

Future



Water
Systems
Infrastructure
Mapping

Hydrology

Water Systems

Conditions Assessment WWDC Projects



Supplemental Water Supply Analysis Statewide look into water shortages

Local Assessment of Goals & Opportunities

New Supplies Developed



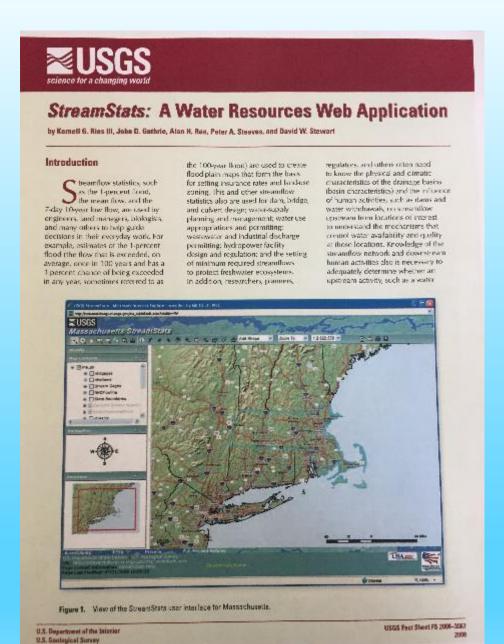
Water Availability Index

- Review of water supply and use intended to identify trends.
- Statewide index provides an active understanding of water supplies, and highlights areas of change within Wyoming.
- Done in-house this would take the place of RBPs in order to minimize cost and provide current, credible information to assess trends.





StreamStats





The Path Forward

- In 2018, the Legislature appropriated funding for:
 - GIS Data Model Implementation Study
 - Water Supply Index
 - NHDPlus HR and StreamStats Phases I and II
- In 2019, the Legislature appropriated funding to complete StreamStats Phases III and IV



New and Improved Website





www.waterplan.state.wy.us

1. Wyoming Statewide Water Supply Index

Wyoming StreamStats
 WWDC GIS Framework Plan

development.

this important resource.

The Future of Wyoming RBP

- New, more focused direction for RBP
- Opportunity to modernize and improve the information needed to guide development and decision-making and lower costs
- Direction that could lead to a basic Decision Support System (DSS) for Wyoming
- Information that is usable and up-to-date



