

# Wyoming Water Development Program



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# WYOMING WATER DEVELOPMENT PROGRAM - HISTORY

- 💧 PROGRAM CREATED IN 1975
- 💧 WATER DEVELOPMENT COMMISSION CREATED IN 1979
- 💧 WDA I NEW PROJECTS - CREATED IN 1989
- 💧 WDA II – REHABILITATION CREATED IN 1989
- 💧 WDA III – DAMS AND RESERVOIRS CREATED IN 2005
- 💧 PHILOSOPHY – TO UTILIZE A PORTION OF REVENUE DERIVED FROM NON-RENEWABLE RESOURCES AND INVEST THIS REVENUE IN RENEWABLE WATER DEVELOPMENT PROJECTS THAT WILL SERVE WYOMING CITIZENS INTO THE FUTURE



# Wyoming Water Development Program Management

## 💧 Wyoming Water Development Commission (WWDC) – 10 Members

- Two Members from each Water Division
- One At Large Member
- One Tribal Member
- Appointed by the Governor
- Four (4) year staggered terms
- Part Split – No more than 75% from the same political party

## 💧 Legislative Select Water Committee (SWC)

- Six Senators
- Six Representatives

## 💧 Advisors

- Wyoming State Engineer
- Wyoming Attorney General's representative
- Wyoming Business Council CEO
- University of Wyoming

# WYOMING WATER DEVELOPMENT PROGRAM - OPERATIONS

## 💧 Wyoming Water Development Office – 25 Employees

- Director Appointed by the Governor
- Administration
- Construction Division
- Dam and Reservoir Division
- Planning Division

## 💧 Project Sponsors

- Municipalities
- Irrigation Districts
- Special Districts



# Program Responsibilities

- ◆ NEW WATER PROJECT DEVELOPMENT
- ◆ WATER PROJECT REHABILITATION
- ◆ DAMS AND RESERVOIR DEVELOPMENT
- ◆ WYOMING'S WATER PLANNING AGENCY
- ◆ MANAGEMENT OF WYOMING'S WATER INVESTMENTS
- ◆ GROUNDWATER EXPLORATION GRANT PROGRAM
- ◆ INSTREAM FLOW WATER RIGHTS
- ◆ SMALL WATER PROJECT PROGRAM
- ◆ CO RIVER BASIN STATES SALINITY CONTROL PROGRAM
- ◆ UPPER COLORADO RIVER BASIN FUND MOA
- ◆ EMERGENCY WATER PROJECTS
- ◆ UNIV. OF WYOMING WATER RESEARCH PROGRAM



# PROGRAM FUNDING

WYOMING STATUTES PROVIDE A SEVERANCE TAX DISTRIBUTION ACCOUNT OF \$155M PER YEAR.

## WATER DEVELOPMENT ACCOUNT NO. I (WDA-I)

- ◆ FUNDS AGENCY BUDGET, NEW DEVELOPMENT PROJECTS, PLANNING EFFORTS, GWEP, SWPP, OTHER (non-project)
- ◆ RECEIVES 12.45% OF SEVERANCE TAX DISTRIBUTION ACCOUNT (\$19,297,500)

## WATER DEVELOPMENT ACCOUNT NO. II (WDA-II)

- ◆ FUNDS REHABILITATION PROJECTS, SWPP
- ◆ RECEIVES 2.1% OF SEVERANCE TAX DISTRIBUTION ACCOUNT (\$3,255,000)

## WATER DEVELOPMENT ACCOUNT NO. III (WDA III)

- ◆ FUNDS DAM AND RESERVOIR PROJECTS
- ◆ RECEIVES 0.5 % OF SEVERANCE TAX DISTRIBUTION ACCOUNT (\$775,000)

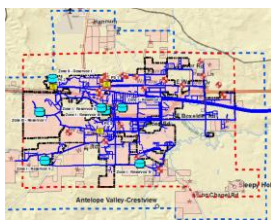
## EMERGENCY WATER PROJECTS ACCOUNT

- ◆ IRRIGATION INFRASTRUCTURE
- ◆ ESTABLISHED WITH \$5M
- ◆ 75%G:25%L

# Levels of Project Development

I

## Reconnaissance



## Master Plans

- System Inventory and Assessment
- Mapping/GIS
- Current Operations and Efficiency Analysis
- Identification of Water Rights
- Rehabilitation and Management Plan
- Reconnaissance Level Designs and Cost Estimates
- Economic Analysis and Project Financing

II

## Feasibility



## Site Specific

Examples:

- Exploratory Well Drilling
- Water Storage Tanks
- Transmission Lines
- Diversion Structure Rehabilitation
- Canal Linings
- Pipeline Replacement
- Pump Station Rehab
- Dam Rehabilitation
- Regional Connection Studies

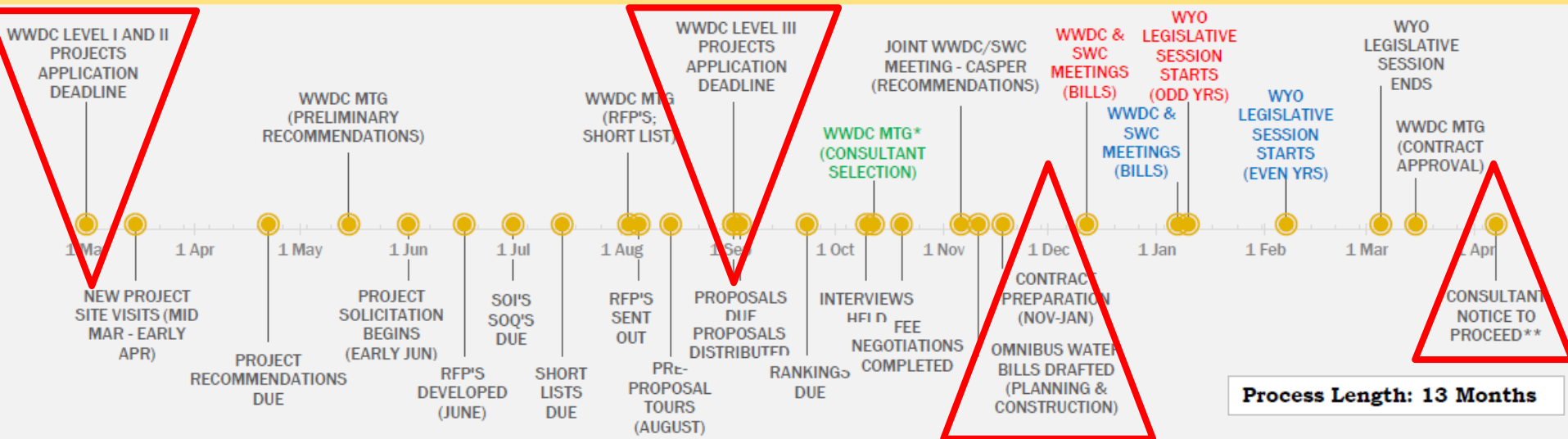
III

## Construction



# PROJECT FUNDING PROCESS

## WWDC PLANNING PROJECT FUNDING APPROVAL AND CONSULTANT SELECTION SCHEDULE





# TYPICAL PROJECT FINANCING

## 💧 Planning Studies – Level I and II

- WWDC Funds 100%
- Unbiased analyses

## 💧 Level III Design and Construction Projects

- Typically 67% Grant 33%
- Loans are offered at 4% interest for a term up to 50 years

## 💧 Storage Projects

- WWDC may fund 100% not to exceed the public benefit

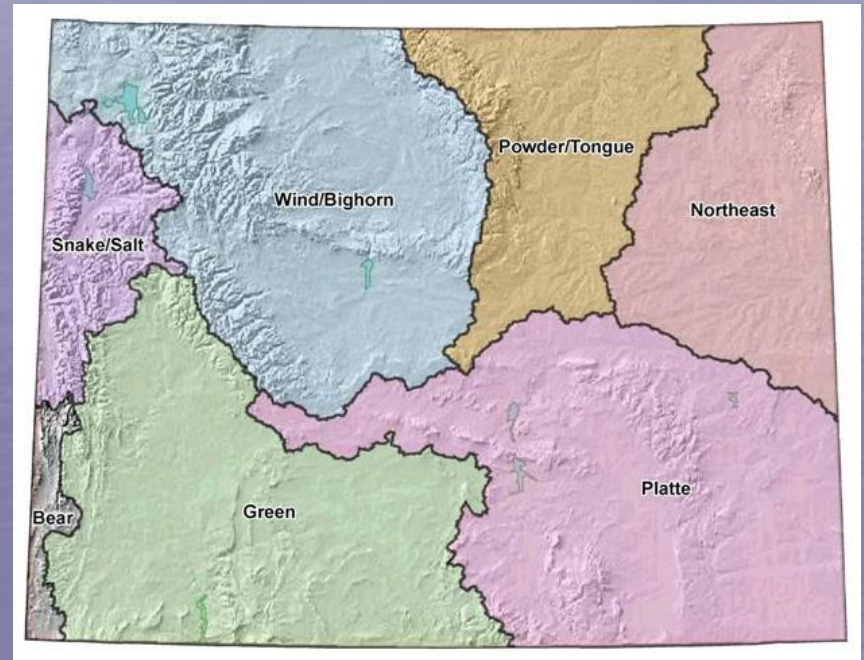
## 💧 Sponsor Participation

- Responsible for 33%
- Must provide the financial resources to operation and maintain the project

# WYOMING'S WATER PLANNING AGENCY

## RIVER BASIN PLANNING

- SURFACE WATER
- GROUNDWATER
- SEVEN (7) MAJOR DRAINAGE BASINS



# WYOMING'S WATER PLANNING AGENCY

- 💧 WATERSHED STUDIES
- 💧 WATER MASTER PLANS FOR MUNICIPALITIES  
AND IRRIGATION DISTRICTS
- 💧 INSTREAM FLOW FEASIBILITY STUDIES
- 💧 WATER RELATED RESEARCH - UW OFFICE OF  
WATER PROGRAMS
- 💧 WATER RESOURCES DATA SYSTEM -  
UNIVERSITY OF WYOMING



# WYOMING'S WATER INVESTMENTS

- 💧 BUFFALO BILL ENLARGEMENT - 190,000 ACRE FEET
- 💧 FONTENELLE RESERVOIR - 120,000 ACRE FEET
- 💧 HIGH SAVERY DAM AND RESERVOIR - 22,400 ACRE FEET
- 💧 PALISADES RESERVOIR - 33,000 ACRE FEET
- 💧 PATHFINDER MODIFICATION PROJECT - WYOMING  
ACCOUNT-20,000 ACRE FEET/YEAR
- 💧 GLENDON RESERVOIR - 10,600 ACRE FEET
- 💧 LAKE DeSMET AND HEALY RESERVOIR – 67,000 ACRE FEET
- 💧 MIDDLE PINEY RESERVOIR – 3,370 ACRE FEET
- 💧 WWDC HOLDS STATE OF WYOMING INSTREAM FLOW  
WATER RIGHT PERMITS

# GROUNDWATER EXPLORATION GRANT PROJECT

- 💧 SPONSORS - MUNICIPALITIES AND SPECIAL DISTRICTS
- 💧 PURPOSE - EXPLORATION FOR AND FEASIBILITY STUDIES OF THE USE OF UNDERGROUND WATER
- 💧 MAXIMUM FINANCIAL PARTICIPATION OF PROGRAM IS \$400,000 PER PROJECT
- 💧 SPONSORS MUST PROVIDE 25% OF PROJECT COSTS

# SMALL WATER PROJECT PROGRAM

- ◆ To provide grant funding for Small Water Development Projects that improve watershed condition and function and provide benefits for...
  - ◆ Livestock
  - ◆ Wildlife
  - ◆ Irrigation
  - ◆ Environmental
  - ◆ Recreational
- ◆ Funding – 50% grants up to \$35,000 are available for eligible projects that provide adequate public benefit, improve watershed health, and meet the program definitions as outlined in the criteria.



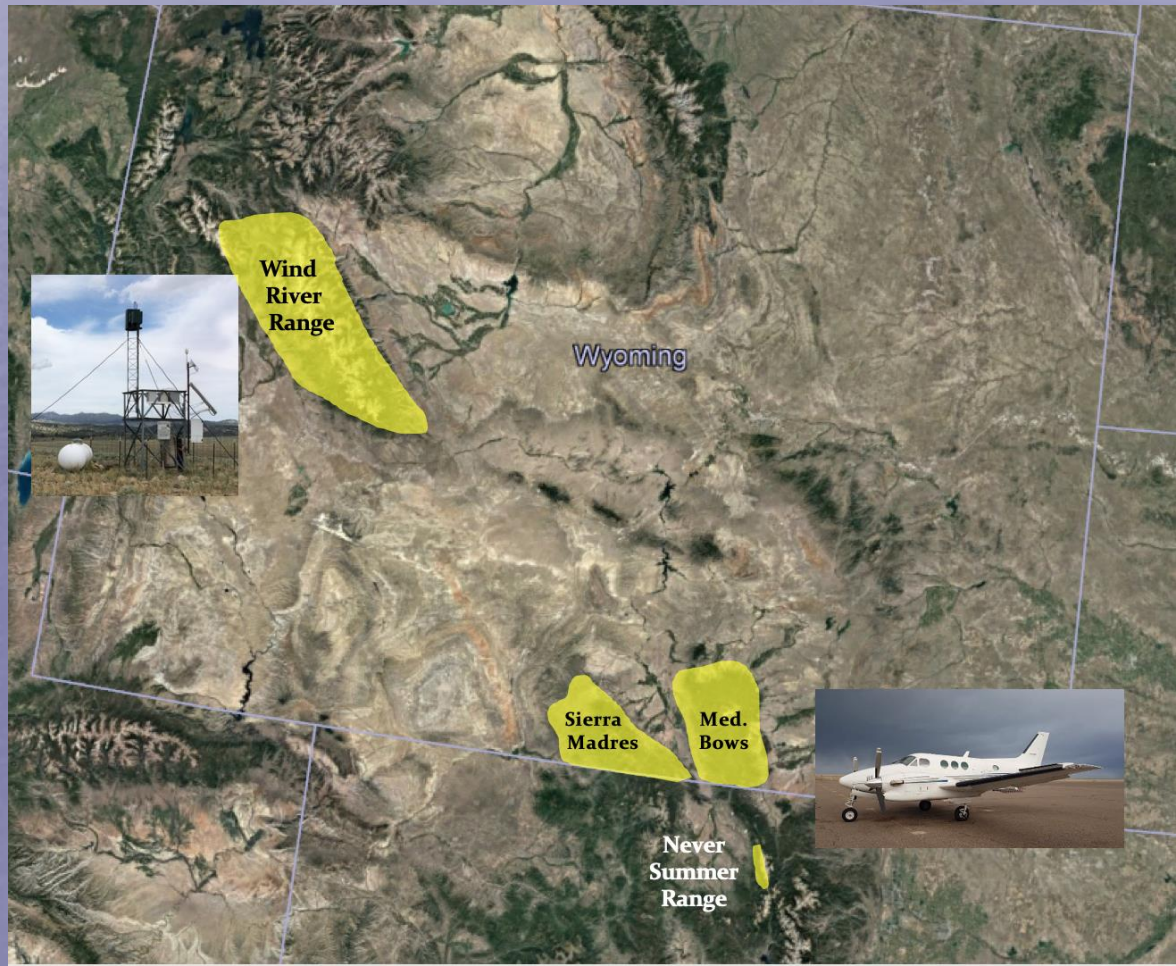
# WEATHER MODIFICATION PROGRAM

## Two Programs

- Ground based
- Aerial

## Funding

- Ground based
  - WY – 37%
  - Funding partners – 63%
- Aerial
  - State Program
  - Funding Partner – BOPU
  - Never Summer Range



# CURRENT PROJECT APPROPRIATIONS

## WATER DEVELOPMENT ACCOUNT NO. I (WDA-I)

- ◆ 30 Planning Projects - \$12,717,454
- ◆ 49 Construction Projects - \$98,203,130
- ◆ Total 79 Projects - \$110,920,584

## WATER DEVELOPMENT ACCOUNT NO. II (WDA-II)

- ◆ 5 Planning Projects - \$5,927,000
- ◆ 39 Construction Projects - \$53,467,896
- ◆ Total 44 Projects - \$59,394,896

## WATER DEVELOPMENT ACCOUNT NO. III (WDA III)

- ◆ 12 Projects - \$21,453,026
- ◆ 6 Construction - \$137,954,000
- ◆ Total 18 Projects - \$159,407,026

## Direct Appropriations

- ◆ Gillette Madison Pipeline (Regional System) \$190,120,000



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# ANTICIPATED CHALLENGES

- AGING INFRASTRUCTURE
- CONSTRUCTION COSTS
- DROUGHT
- REDUCED REVENUES/BUDGET REDUCTIONS



# Questions ?



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