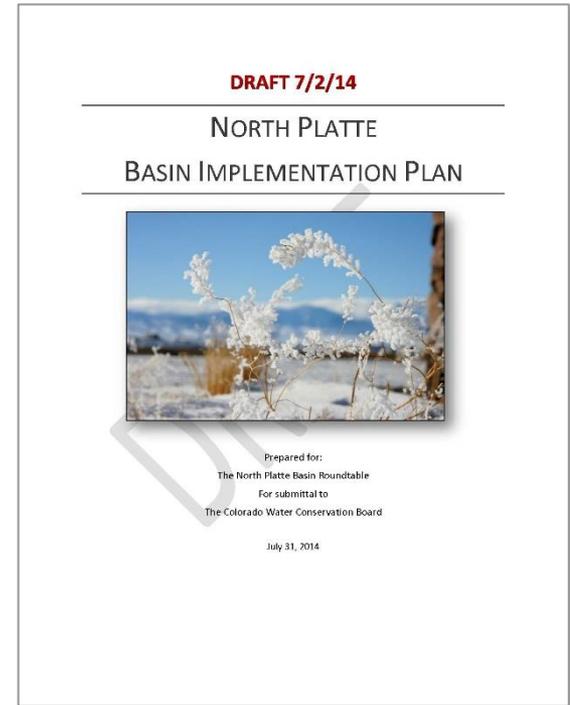


# North Platte Basin Implementation Plan



# The NPBIP in a Nutshell: Approach



- Guidance from full NPBRT
- Minor restructuring to address local issues and flow
- Targeted technical outreach – parcel-level analysis
- Public outreach with help of education liaison
- Avoid duplication of previous efforts



# Draft Plan Overview

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## Section 1 - Basin Goals

Defines Basin Priorities

## Section 2 - Basin Needs

Summarizes Previously Identified Water Supply Needs

## Section 3 - Basin Evaluations

Describes Options to Analyze Projects

## Section 4 - Basin Projects

Identifies Projects and Implementation Strategies

## Section 5 - Conclusions and Recommendations

Summarizes Project Effectiveness and Recommends Strategies



# Basin Goals

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1. Maintain and maximize the consumptive use of water permitted in the Equitable Apportionment Decree and the baseline depletion allowance of the Three State Agreement.
2. Increase economic development and diversification through strategic water use and development.
3. Continue to restore, maintain, and modernize critical water infrastructure to preserve current uses and increase efficiencies.
4. Maintain healthy rivers and wetlands through the strategic implementation of projects that meet prioritized nonconsumptive needs.
5. Describe and quantify the nonconsumptive benefits of agricultural use.
6. Promote water rights protection and management through improved streamflow gaging data.
7. Enhance forest health and management efforts for wildfire protection and beetle kill impacts.
8. Support equitable statewide application of municipal water conservation.

## Section 2: Environmental & Recreational Needs

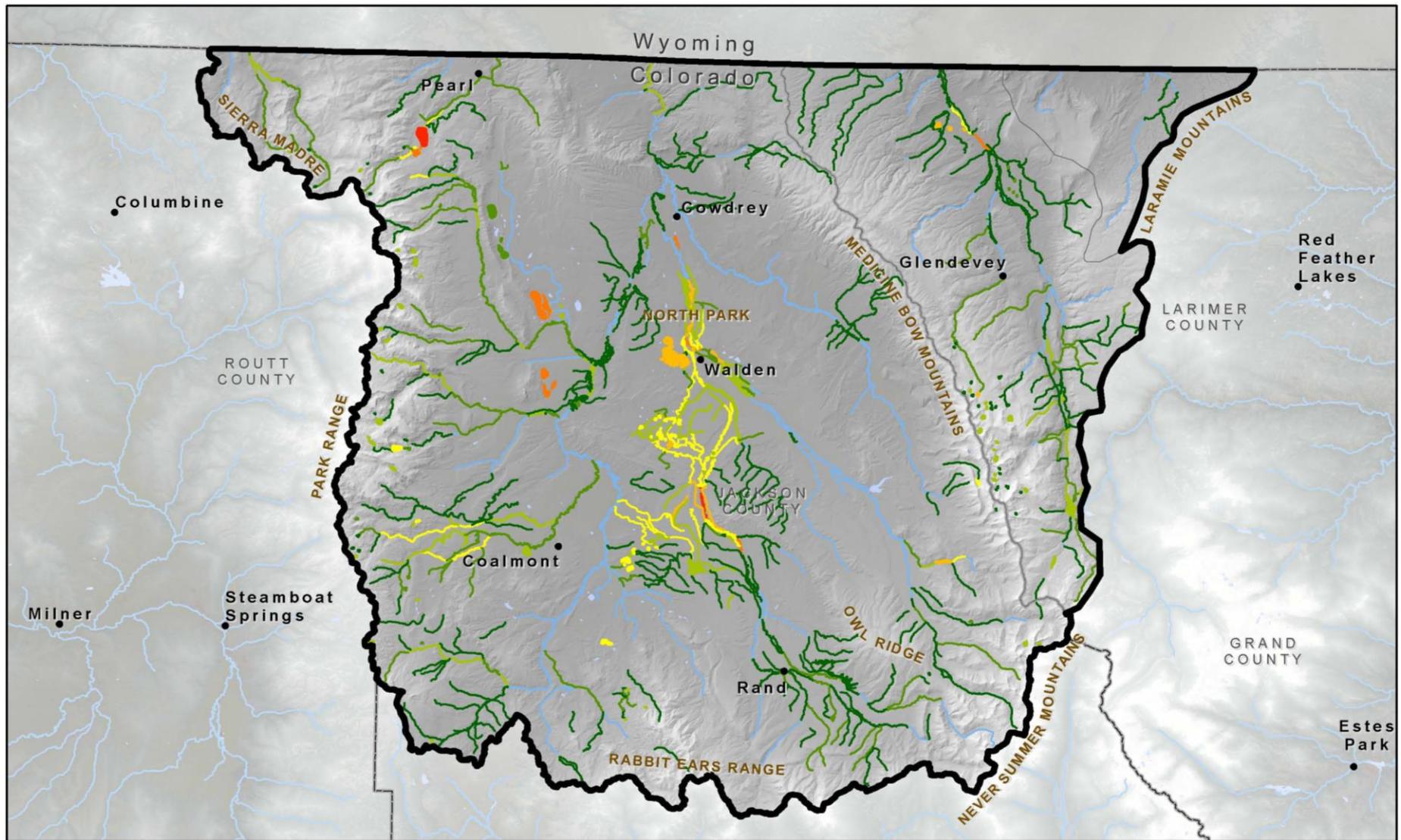
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The prioritized list of environmental & recreational attributes:

1. Important Stream Fishing
2. Important Lake Fishing
3. Waterfowl Hunting/Riparian and Wetland Wildlife Viewing
4. Waterfowl/Shorebird and Crane Habitat
5. Amphibians
6. Significant Wetland Plant Communities
7. Whitewater and Flatwater Boating
8. River Otter
9. Bald Eagle and Osprey
10. CWCB Minimum Instream Flows, Minimum Lake Levels
11. Class 1 Waters + Wild and Scenic Eligible
12. Lake Chub



# Section 2: Environmental & Recreational Needs



# Section 4 – Planned Project List

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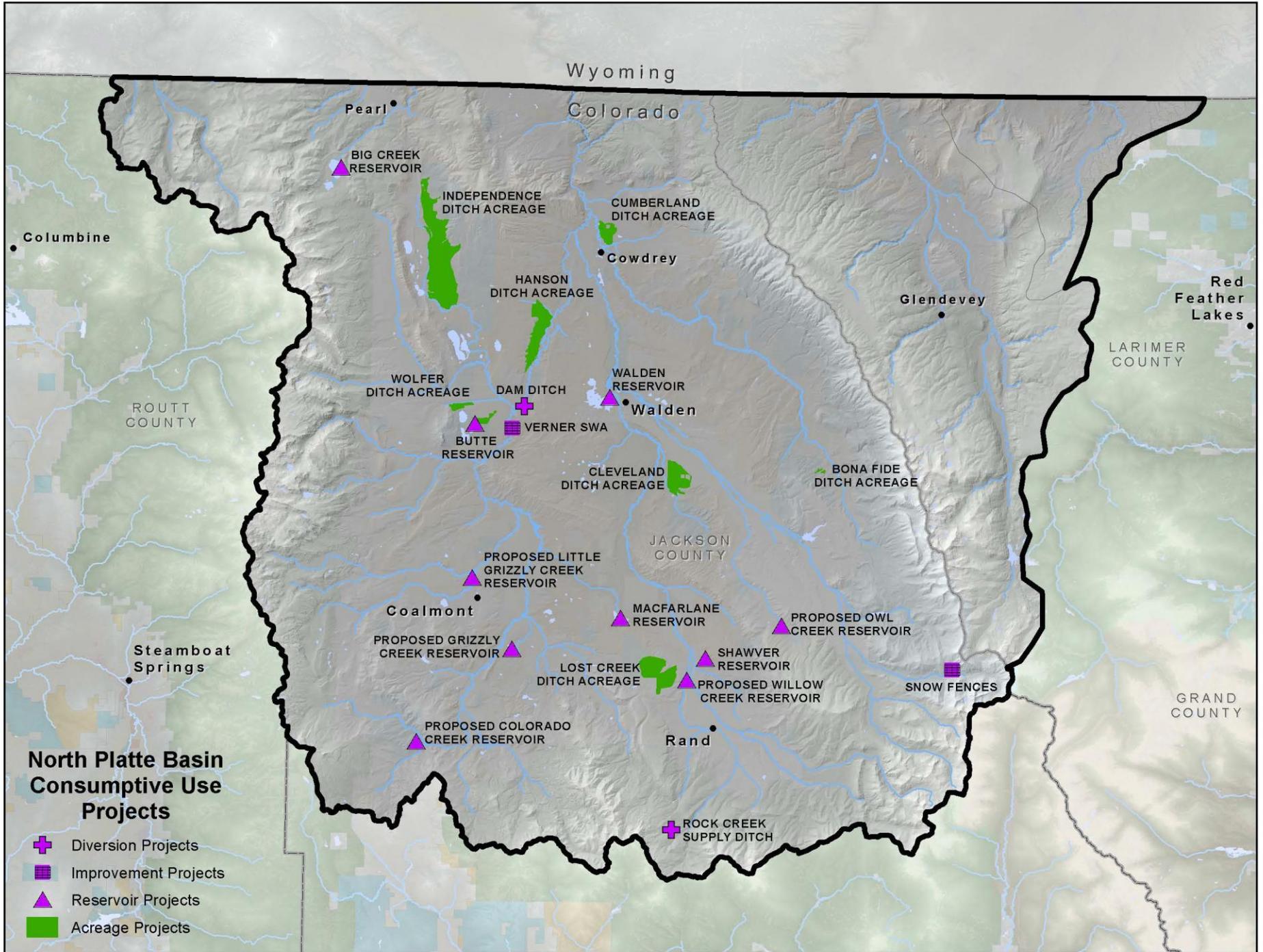
| No. | Project                             | No. | Project                                     |
|-----|-------------------------------------|-----|---|
| 1   | MacFarlane Reservoir                | 8   | Irrigation Season Protocol                  |
| 2   | Evapotranspiration Project          | 9   | Irrigated Acreage Assessment Protocol       |
| 3   | Walden Reservoir                    | 10  | Proposed Willow Creek Reservoir             |
| 4   | Basinwide Augmentation Plan         | 11  | Dam Ditch Headgate Improvement              |
| 5   | Hanson and Wattenberg Ditch Acreage | 12  | Canal Maintenance and Improvements          |
| 6   | Proposed Streamgage Installation    | 13  | Instream Diversion Structure Identification |
| 7   | Storage Protocol                    | 14  | Verner SWA, North Platte River Restoration  |

# Section 4 – Planned Project List

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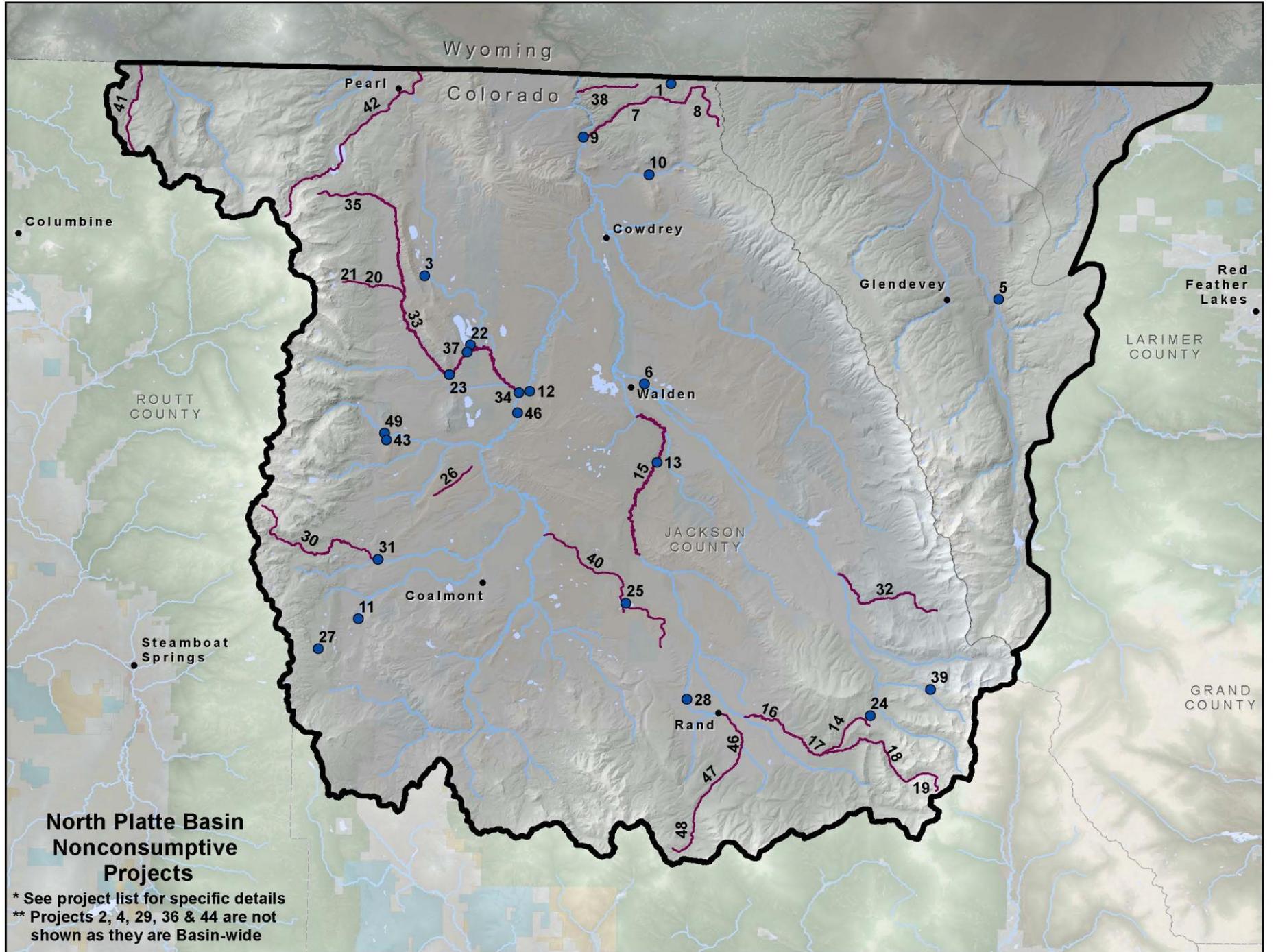
- Refinement of most recent SWSI list
- Projects assessed for: water availability, feasibility, and competition for same water
- Modeling analysis as requested
- Limited project data, new projects
- DWR Protocols (storage, season, and acreage)
- Proposed inventory project
  - Inventory, assessment, and prioritization
  - Address infrastructure needs





# Section 4 – Planned E&R Project List *(Example)*

| No. | Project or Segment   | Project or Method   | Primary Focus   | Benefits                                    | Contact           |
|-----|--|---|---|---|-------------------|
| 1   | Bear Draw  | Relocate trail out of wetland   | Wetlands  | Fishery, wetlands, amphibians               | USFS              |
| 2   | BLM Water quality/quantity:<br>Various reaches in North Platte Basin | Monitor water quality/quantity  | Water quality/quantity                                    | Fishery, wildlife, livestock, water quality | BLM               |
| 3   | Boettcher Lake Rehabilitation  | Rehabilitate/replace irrigation infrastructure  | Improve/increase irrigated meadows                        | Waterfowl habitat                           | DU, Private Owner |
| 4   | Boreal Toad Studies - Twisty Park/County Wide                        | Boreal Toad Studies   | Species of concern  | Amphibians                                  | CPW               |
| 5   | Brown Creek Fence  | Improve water quality and riparian habitat from improved grazing management through fencing | Water quality, riparian habitat                           | Fishery, wetlands, amphibians               | USFS              |
| 6   | Brownlee SWA- North Platte River                                     | Brownlee SWA river channel/riparian corridor habitat/water quality improvements             | Improve fishery habitat, water quality, erosion control   | Fishery, riparian plant community           | CPW               |
| 7   | Camp Creek   | Remove fill & culverts from wetland   | Wetlands, water quality, aquatic passage, stream function | Fishery, wetlands, amphibians               | USFS              |
| 8   | Camp Creek   | Replace double culverts   | Stream function, aquatic passage                          | Fishery                                     | USFS              |
| 9   | Camp Creek Fence   | Improve water quality and riparian habitat from improved grazing management through fencing | Water quality, riparian habitat                           | Fishery, wetlands, amphibians               | USFS              |
| 10  | Chandler Ranch (ANWR)  | Rehabilitate/replace infrastructure to resume irrigation practice                           | Restore irrigated meadows                                 | Waterfowl, amphibians                       | ANWR              |



**North Platte Basin  
Nonconsumptive  
Projects**

\* See project list for specific details

\*\* Projects 2, 4, 29, 36 & 44 are not shown as they are Basin-wide

# Project Effectiveness per Goals

| Project   | Basin Goal |   |   |   |   |   |   |   |
|---|------------|---|---|---|---|---|---|---|
|   | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| MacFarlane Reservoir  | x          |   | x | x | x |   |   |   |
| Evapotranspiration Project                                  | x          |   |   |   |   |   |   |   |
| Walden Reservoir  | x          | x | x |   |   |   |   |   |
| Basinwide Augmentation Plan                                 | x          | x |   |   |   |   |   |   |
| Hanson and Wattenberg Ditch Acreage                         | x          |   | x |   |   |   |   |   |
| Proposed Streamgauge Installation                           | x          |   |   |   |   | x |   |   |
| Storage Protocol  | x          |   |   |   |   |   |   |   |
| Irrigation Season Protocol                                  | x          |   |   |   |   |   |   |   |
| Irrigated Acreage Assessment Protocol                       | x          |   |   |   |   |   |   |   |
| Proposed Willow Creek Reservoir                             | x          |   | x |   |   |   |   |   |
| Dam Ditch Headgate Improvement                              | x          |   | x | x |   |   |   |   |
| Canal Maintenance and Improvements                          | x          |   | x | x | x |   |   |   |
| Instream Diversion Structure Identification                 | x          |   | x | x | x |   |   |   |
| Verner State Wildlife Area – North Platte River Restoration |            | x |   | x |   |   |   |   |

# Recommendations: Strategies Tied to Constraints

| Category            | Constraint         | Strategies   |
|---------------------|--------------------|--|
| Project Acceptance  | Conflict           | Partnerships<br>Cooperative Strategies                                 |
|                     | Perception         | Public Education and Outreach<br>Incentive-Based Programs              |
|                     | Regulations        | Cooperative Strategies<br>Regulatory Streamlining                      |
| Project Feasibility | Cost               | Creative Funding Mechanisms<br>Partnerships and Cooperative Strategies |
|                     | Water Availability | Water Availability Analyses<br>Water Administration Strategies         |
|                     | Constructability   | Feasibility Analyses<br>Engineering Design                             |



# NPBIP Status

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- **On schedule and on budget**
- **NPBRT review and approval: 2 meetings in June 2014**
- **Submittal to CWCB: 7/31/14**
- **No current plans for further funding**



# Questions?

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