North Platte Basin Implementation Plan
The NPBIP in a Nutshell:

Members of the North Platte Basin Roundtable understood that the basic purpose of the Basin Implementation Plan was to identify projects and methods to meet basin-specific goals and to meet municipal, industrial, agricultural, environmental, and recreational needs.

The Basin Implementation Plan was to also inform and provide grassroots input to Colorado’s Water Plan.
<table>
<thead>
<tr>
<th>No.</th>
<th>Project</th>
<th>No.</th>
<th>Project</th>
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<tr>
<td>2</td>
<td>Evapotranspiration Project</td>
<td>9</td>
<td>Irrigated Acreage Assessment Protocol</td>
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<tr>
<td>3</td>
<td>Walden Reservoir</td>
<td>10</td>
<td>Proposed Willow Creek Reservoir</td>
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<td>4</td>
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<td>Dam Ditch Headgate Improvement</td>
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<td>5</td>
<td>Hanson and Wattenberg Ditch Acreage</td>
<td>12</td>
<td>Canal Maintenance and Improvements</td>
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<tr>
<td>6</td>
<td>Proposed Streamgage Installation</td>
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<td>Instream Diversion Structure Identification</td>
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<td>7</td>
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<tr>
<td>1</td>
<td>Bear Draw</td>
<td>Relocate trail out of wetland</td>
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<td>Monitor water quality/quantity</td>
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<td>3</td>
<td>Boettcher Lake Rehabilitation</td>
<td>Rehabilitate/replace irrigation infrastructure</td>
<td>Improve/increase irrigated meadows</td>
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<td>4</td>
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<td>Boreal Toad Studies</td>
<td>Species of concern</td>
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<td>Improve water quality and riparian habitat from improved grazing management through fencing</td>
<td>Water quality, riparian habitat</td>
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<td>Brownlee SWA river channel/riparian corridor habitat/water quality improvements</td>
<td>Improve fishery habitat, water quality, erosion control</td>
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<td>Remove fill &amp; culverts from wetland</td>
<td>Wetlands, water quality, aquatic passage, stream function</td>
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<td>8</td>
<td>Camp Creek</td>
<td>Replace double culverts</td>
<td>Stream function, aquatic passage</td>
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<td>9</td>
<td>Camp Creek Fence</td>
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<td>Water quality, riparian habitat</td>
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<td>10</td>
<td>Chandler Ranch (ANWR)</td>
<td>Rehabilitate/replace infrastructure to resume irrigation practice</td>
<td>Restore irrigated meadows</td>
</tr>
</tbody>
</table>
# North Platte Basin Goals

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.
# Project Effectiveness per Goals

<table>
<thead>
<tr>
<th>Project</th>
<th>Basin Goal</th>
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<td>Hanson and Wattenberg Ditch Acreage</td>
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</tbody>
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Goal 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.

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Goal 4. Maintain healthy rivers and wetlands through the strategic implementation of projects that meet prioritized nonconsumptive needs.

Goal 5. Describe and quantify the nonconsumptive benefits of agricultural use.
COLORADO WATER CONSERVATION BOARD
WATER SUPPLY RESERVE ACCOUNT
APPLICATION FORM

Today’s Date: June 2nd, 2015

MacFarlane Dam Rehabilitation

Name of Water Activity/Project

Ducks Unlimited, Inc. in partnership with Evans Land Company, the United States Fish and Wildlife Service, and the Bureau of Land Management

Name of Applicant

North Platte Basin

Amount from Statewide Account: $100,000

Amount from Basin Account(s): $500,000

Total WSRA Funds Requested: $600,000

Approving Basin Roundtable(s) (If multiple basins specify amounts in parentheses.)

FEIN: 13-5643799

Application Content

- Application Instructions page 2
- Part I – Description of the Applicant page 3
- Part II – Description of the Water Activity page 5
- Part III – Threshold and Evaluation Criteria page 7
- Part IV – Required Supporting Material
  - Water Rights, Availability, and Sustainability page 10
  - Related Studies page 10
  - Signature Page page 12

Required Exhibits

A. Statement of Work, Budget, and Schedule
B. Project Map
C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

1. Program Information
2. Insurance Requirements
3. WSRA Standard Contract Information (Required for Projects Over $100,000)
4. W-9 Form (Required for All Projects Prior to Contracting)
Map below shows how important this is beyond just local distribution of birds. This map presents the destination of almost 2,000 birds bred on and near MacFarlane Reservoir in North Park. It shows that nearly every important waterfowling area in Colorado, including the South Platte River, the Lower Arkansas Basin, the San Luis Valley and the Grand Valley, enjoys birds that ultimately came from the area irrigated by water from MacFarlane Reservoir.
Evapotranspiration Project Effectiveness per Goals

<table>
<thead>
<tr>
<th>Project</th>
<th>Basin Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evapotranspiration Project</td>
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</tbody>
</table>

Goal 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.
Name of Water Activity/Project

Colorado Climate Center

Name of Applicant

North Platte

Amount from Statewide Account: 96,047

Amount from Basin Account(s): 96,047

Total WSRA Funds Requested: 192,094

Today’s Date: 3 July 2014

FEIN:

Application Content

Application Instructions  page 2
Part I – Description of the Applicant  page 3
Part II – Description of the Water Activity  page 5
Part III – Threshold and Evaluation Criteria  page 7
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  Water Rights, Availability, and Sustainability  page 10
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Overview

Project to re-establish lysimeter measurements in the high altitude, hay meadow environment of North Park.

Data from prior historical lysimeter operations in the basin have been questionable due to site exposure, infrequent watering and a possible leak in one of the compensating lysimeters.

This project will utilize the three existing weather stations previously funded by WSRA grant funds approved by the North Platte Roundtable. Data from these weather stations will be used to calculate reference evapotranspiration (ET). Two lysimeters will be installed side by side for redundancy in case of failure. The system is near completely automated once fully installed. The conditions on the lysimeters will be treated to mimic operations in the hay meadows (same irrigation and cutting) in order to get at actual crop consumptive use in order to calculate crop coefficients.

The lysimeters are scheduled to be installed September 20-21, 2015.
EXISTING WEATHER STATIONS – EVAPOTRANSPIRATION PROJECT
### Basinwide Augmentation Plan Effectiveness per Goals

<table>
<thead>
<tr>
<th>Project</th>
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</table>

Goal 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.

Goal 2. Increase economic development and diversification through strategic water use and development.
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<table>
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<tr>
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<td>Part I – Description of the Applicant</td>
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<td>page 9</td>
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<tr>
<td>Related Studies</td>
<td>page 9</td>
</tr>
<tr>
<td>Signature Page</td>
<td>page 11</td>
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</tbody>
</table>

### Required Exhibits

A. Statement of Work, Budget, and Schedule
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### Appendices – Reference Material

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Overview

The scope of services set forth in the application details the necessary tasks to assist Jackson County Water Conservancy District (JCWCD) with the development of a basin-wide augmentation plan. Work tasks include:

Quantify augmentation needs;

Identify potential augmentation supplies;

Address potential concerns of water users in the basin;

Develop an accounting framework for Jackson County Water Conservancy District (JCWCD) and reporting to the Division of Water Resources;

Prepare various analyses and materials to assist with the application, finalization, and operation of an augmentation plan acceptable to the JCWCD Board.
## Work Tasks and Budget

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<thead>
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<th>Task No.</th>
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<tr>
<td>2</td>
<td>Identify and Quantify Augmentation Supplies</td>
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<td>Identify and Address Potential Water User Concerns</td>
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<td>Present Augmentation Plan Recommendations</td>
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<td>Develop Process to Determine Augmentation Depletions</td>
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<td>Augmentation Plan Accounting</td>
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<td>Contractual Obligations to Enter and Exit the Plan</td>
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<td>Prepare Engineering Report</td>
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<td>Ongoing Support for Plan Development and Finalization</td>
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<td>10</td>
<td>JCWCD Administration, Oversight, and Coordination</td>
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<td><strong>Project Total</strong></td>
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Canal Maintenance and Improvement Effectiveness per Goals

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Goal 5. Describe and quantify the nonconsumptive benefits of agricultural use.
North Platte River Basin

Water control Check Structures, Headgates & Diversions
North Platte River Basin

New Pioneer Ditch Diversion

$116,000 Basin Account Funds Allocated

Before

After
North Platte River Basin

Walden Reservoir Check Structure
$36,000 Basin Account Funds Allocated

Before  ➔  After
North Platte River Basin

Squibob Headgate Structure
$26,990 Basin Account Funds and $2,999 Landowner Funds

Before → After
North Platte River Basin

Staples Headgate Structure
$31,256 Basin Account Funds and $3,473 Landowner Funds

Before  →  After
North Platte River Basin

Bostwick Headgate Structure

$29,352 Basin Account Funds and $3,261 Landowner Funds

Before  →  After
Richmond Diversion Structure
$15,461 Basin Account Funds and $1,718 Landowner Funds
Seneca Ditch Headgate Structure

$57,540 Basin Account Funds Allocated

Before ➔ After
COLORADO WATER CONSERVATION BOARD
WATER SUPPLY RESERVE ACCOUNT
APPLICATION FORM

**Today’s Date:** 3/24/2015

**Mallon Extension Ditch Bypass Structure**

**Name of Water Activity/Project**

**Colorado Division of Parks and Wildlife**

**Name of Applicant**

<table>
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<th>North Platte</th>
<th>Amount from Statewide Account: (0)</th>
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| Amount from Basin Account(s): | Total WSRA Funds Requested: \(35,900\) |

**Approving Basin Roundtable(s)**

(If multiple basins specify amounts in parentheses.)

**FEIN:**

**Application Content**

- Application Instructions
- Part I – Description of the Applicant
- Part II – Description of the Water Activity
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  - Related Studies
  - Signature Page

**Required Exhibits**

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C. As Needed (i.e. letters of support, photos, maps, etc.)

**Appendices – Reference Material**

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Overview

Construction of a bypass structure and measuring device located on the Wolfer-Mallon Extension Ditch, which delivers water to the South and East Delaney Lakes within the Delaney Butte Lakes State Wildlife Area (SWA). The Delaney Butte Lakes are among the premier flat water fishing destinations in Colorado.

Water is also stored and released from the Delaney Lakes for the irrigation on the Double R Ranch.

Historically, prior to cutting hay on lands adjacent to the Wolfer Ditch, the ditch must be shut off in order to sufficiently dry out the those fields below the ditch. However, water may still be available to other users for direct flow irrigation or for diversion into the Delaney Lakes. In order to utilize available water, and accommodate the need to dry adjacent fields, water can be routed into Butte Creek, bypassing approximately 3 miles of the Wolfer Ditch. Delivering water to the Delaney Lakes via Butte Creek allows CPW to maximize its ability to fill the lakes (during the short window of opportunity between the end of the irrigation season and the onset of freezing conditions) without causing any disruption to agricultural operations on adjacent private lands.
Questions?