Urban & Water Planning Were integrated from the Beginning
Becoming a Great City
(Updating the 2060 Plan)

Urban & Water Planning are Still Integrated
Greeley’s Economy

- Weld County is in the top 10 Counties in agricultural production
- Approximately 10,000 people are employed in agriculture and related industries
- Many water providers including Greeley are buying farms for their water rights
- These water rights are seasonal and water must be stored to be available for year-round municipal use
Greeley is studying alternative approaches to providing raw water for new growth.
Potential Impact of a 20% Savings of Outdoor Water Use on Demand

Today’s Use

With no Additional Irrigation Water Conservation Growth Accommodated to 2035

With 20% Irrigation Water Conservation Growth Accommodated to 2040
Some of Greeley’s Plans
Land Use Guidance Map
### Water and the Comprehensive Plan

#### Parts of the Plan
- **VISION STATEMENT**
- **CORE VALUES**
- **GOALS**
- **OBJECTIVES**
- **ACTIONS**

#### Core Values
- Sustainable patterns of growth and development
- High-quality infrastructure and services
- Responsible stewardship of natural resources and the environment
- World-class water resources & management

#### Goals & Objectives

<table>
<thead>
<tr>
<th>Goal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR-1</td>
<td>Protect, conserve, maintain, and improve the quality and quantity of water available to Greeley.</td>
</tr>
</tbody>
</table>

| Objective NR-1.1 | Anticipate Future Needs |
| Objective NR-1.2 | Water Source Protection |
| Objective NR-1.3 | Water Conservation |
| Objective NR-1.4 | Non-Potable Water |
| Objective NR-1.5 | Ditches |
| Objective NR-1.6 | Regional Cooperation |
## Water and the Comprehensive Plan

### Parts of the Plan

1. **Vision Statement**
2. **Core Values**
3. **Goals**
4. **Objectives**
5. **Actions**

### Actions

#### Natural Resources & Open Lands (NR)

<table>
<thead>
<tr>
<th>IMPLEMENTATION ACTION</th>
<th>RESPONSIBILITY</th>
<th>TYPE</th>
<th>TIMEFRAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal NR-1: Protect, conserve, maintain, and improve the quality and quantity of water available to Greeley.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMP NR-1.1 Develop and maintain incentive programs for water conservation.</td>
<td>Water and Sewer</td>
<td>Policies and Programs</td>
<td>Ongoing</td>
</tr>
<tr>
<td>IMP NR-1.2 Develop and maintain a water rate incentives for efficient use of water.</td>
<td>Water and Sewer</td>
<td>Policies and Programs</td>
<td>Ongoing</td>
</tr>
<tr>
<td>IMP NR-1.3 Review development proposals, within the Cache la Poudre, Big Thompson, or Upper Colorado watersheds which may impact Greeley's water quality.</td>
<td>Community Development &amp; Water and Sewer</td>
<td>Policies and Programs</td>
<td>Ongoing</td>
</tr>
<tr>
<td>IMP NR-1.4 Audit water use of City facilities and convert to xeric landscapes</td>
<td>Water and Sewer &amp; Culture, Parks and Recreation</td>
<td>Policies and Programs</td>
<td>Near-Term</td>
</tr>
<tr>
<td>IMP NR-1.5 Develop incentives to encourage use of non-potable water where appropriate.</td>
<td>Water and Sewer &amp; Community Development</td>
<td>Policies and Programs</td>
<td>Near-Term</td>
</tr>
<tr>
<td>IMP NR-1.6 Implement and periodically update the City's Water Master Plan.</td>
<td>Water and Sewer</td>
<td>Plans</td>
<td>Near-Term</td>
</tr>
<tr>
<td>IMP NR-1.7 Update Development Code standards to require effective water and irrigation</td>
<td>Community Development</td>
<td>Regulatory Revisions</td>
<td>Long-Term</td>
</tr>
</tbody>
</table>
GREELEY: Becoming a Great City
(Updating the 2060 Plan)

Community Development

• Improving Conservation
  o Water Conservation Plan
  o Landscape Policy for Water Efficiency

• Strengthening Infrastructure

• Continuing Acquisition

• Expanding Storage
GREELEY: Becoming a Great City
(Updating the 2060 Plan)

WATER MASTER PLAN:
Decline in Per Capita Water Demand

<table>
<thead>
<tr>
<th>Changes in Demand</th>
<th>1997-2001 (Avg.)</th>
<th>2011-2013 (Avg.)</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metered Demand (AF)</td>
<td>25,658</td>
<td>25,139</td>
<td>-2.0%</td>
</tr>
<tr>
<td>Residential GPCD</td>
<td>156</td>
<td>121</td>
<td>-22.4%</td>
</tr>
<tr>
<td>Greeley Population</td>
<td>74,610</td>
<td>98,164</td>
<td>+31.5%</td>
</tr>
</tbody>
</table>
Implementation of the Landscape Policy for Water Efficiency

- Incentives
- Education
- Regulation
- Set and Example
Very low water use
Water Budget Describes the Irrigation Water Needed for each Home
HYDRO-ZONES

Juniperus virginiana
Hillside Juniper
[Read More]

Picea abies
Norway Spruce
Norway Spruce is a popular evergreen, often used for windbreaks. It grows at a rapid rate to 60 feet tall, sometimes much more. Comes up to 6 inches long are the largest of the Spruces. Form is pyramidal when trees are young, then branches become more horizontal and sometimes drop. ‘Pendula’ drooping branches shown in photos, has weeping branches that drops downward. Makes an exceptional specimen plant. Accepts sandy to heavy clay soils, and poor soils. Canopy coverage: 507 square feet.
[Read More]

Picea pungens 'Iseli Fastigate'
Iseli Fastigate Colorado Spruce
Similar to Colorado Spruce, this selection grows in a broad, pyramidal form that uplifts the specimen. Accepts sandy, to heavy clay soils, and poor soils. Canopy feet.
[Read More]
### Number of Plants that will Grow in each Hydro-Zone

<table>
<thead>
<tr>
<th>Water Use Zones</th>
<th>Coniferous Evergreen trees</th>
<th>Coniferous Deciduous trees</th>
<th>Broadleaf deciduous tree or shrubs</th>
<th>Coniferous evergreen shrubs</th>
<th>Deciduous shrubs</th>
<th>Perennials</th>
<th>Perennial ground covers</th>
<th>Perennial vines</th>
<th>perennial grasses</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Water Use</td>
<td>10</td>
<td>11</td>
<td>2</td>
<td>14</td>
<td>30</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderate Water Use</td>
<td>20</td>
<td>3</td>
<td>86</td>
<td>23</td>
<td>4</td>
<td>94</td>
<td>165</td>
<td>15</td>
<td>13</td>
</tr>
<tr>
<td>Low Water Use</td>
<td>11</td>
<td>18</td>
<td></td>
<td>140</td>
<td>246</td>
<td>37</td>
<td>4</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Very Low Water Use</td>
<td>5</td>
<td></td>
<td>5</td>
<td>16</td>
<td>27</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

High water use does not add that many more plants
Xeriscaped Parks