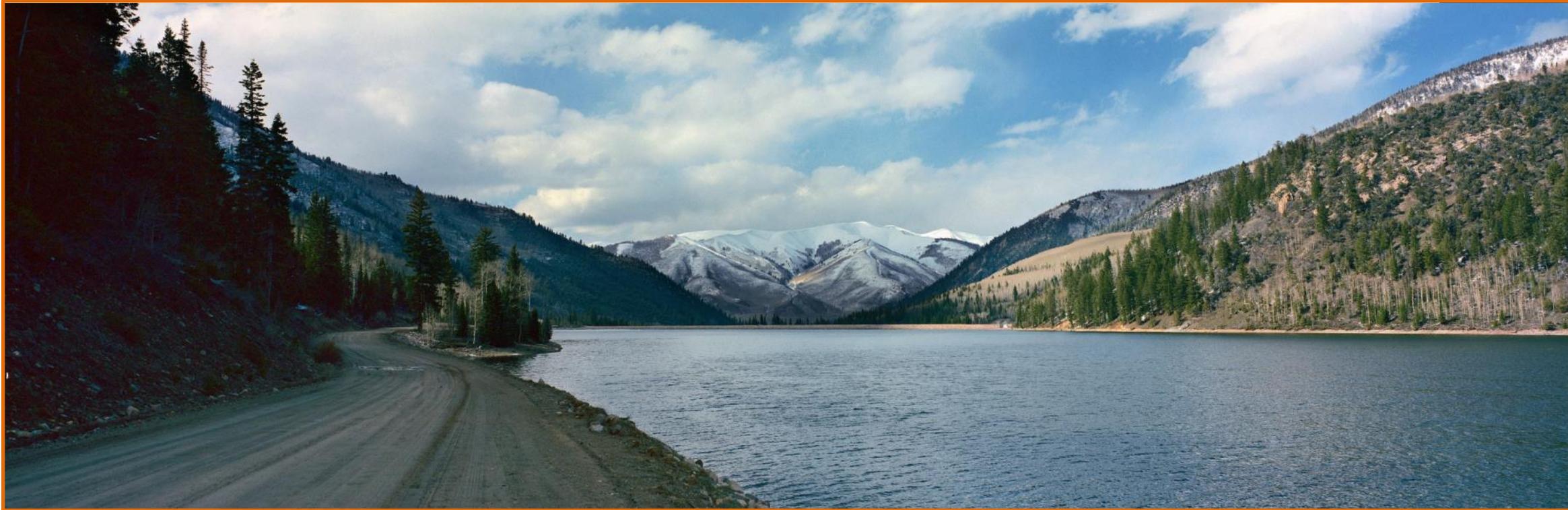
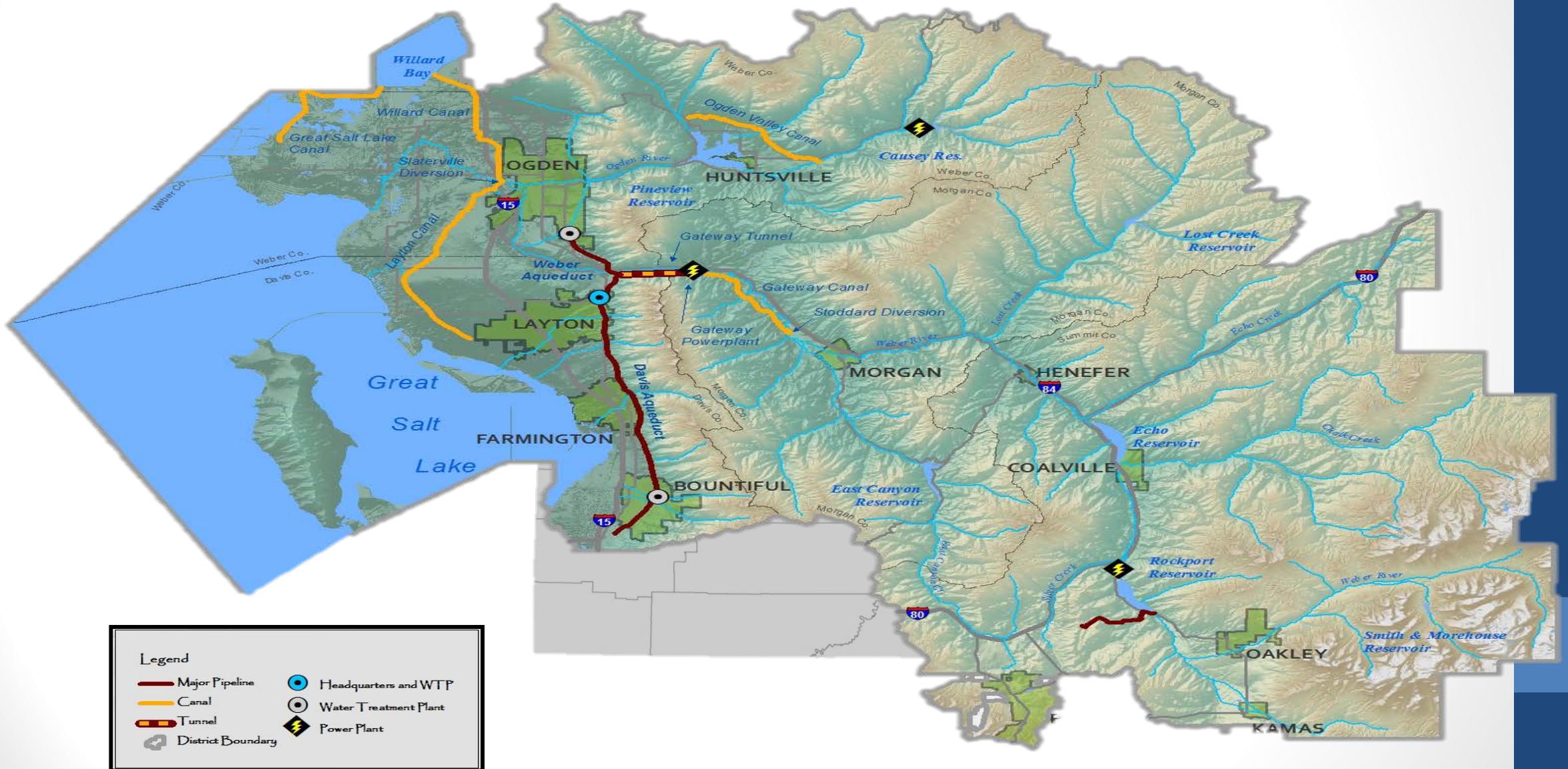


WATER ISSUES IN 2015



Scott Paxman, Assistant General Manager, Weber Basin Water Conservancy District

SERVICE AREA

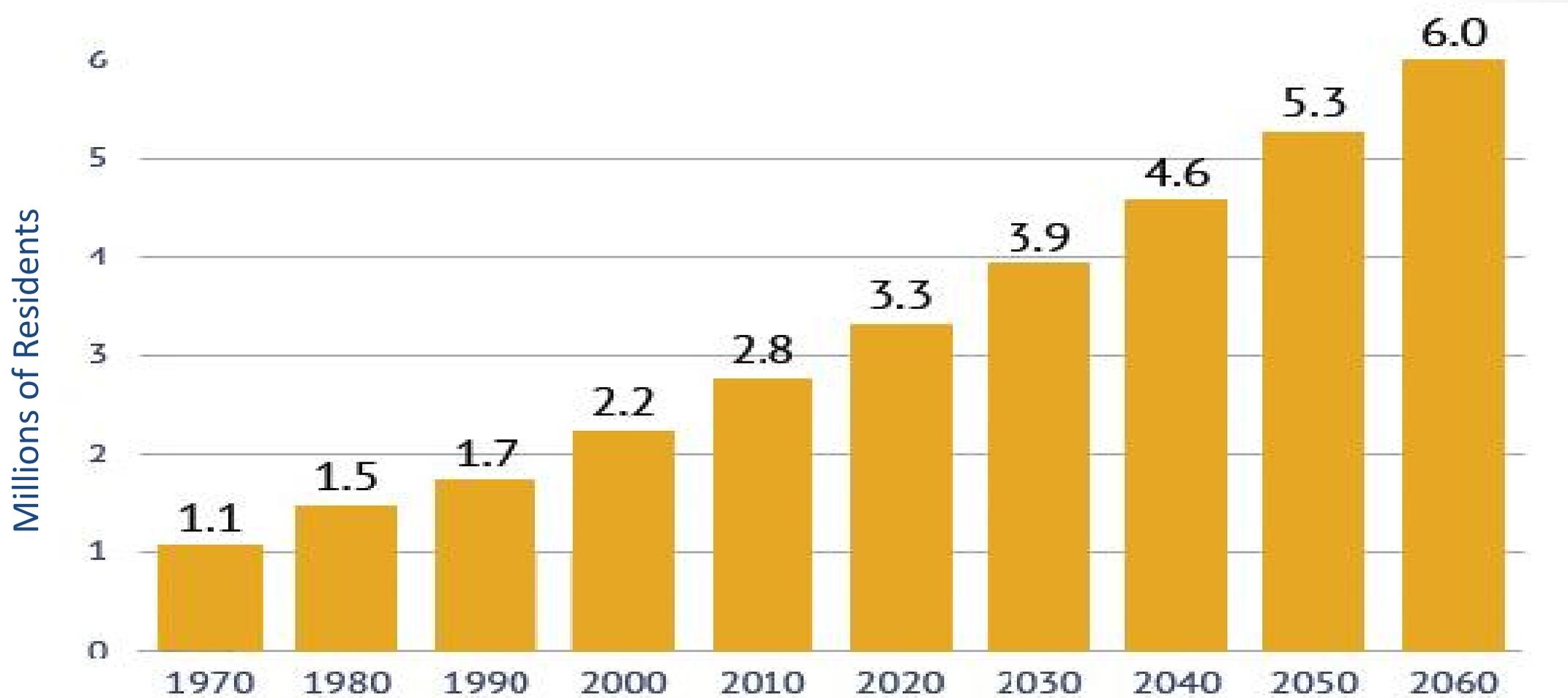


Water Supply from WBWCD

- Municipal – 60 Cities and Districts
- Industrial– Minerals, Refineries, Manufacturers
- Pressure Secondary– Wholesale & Retail
- Agricultural–Five Counties



Utah Population Projected to Double by 2060



U.S. Census Bureau and GOMB 2012 Projections

Meeting Future Demands

1) Conservation



Meeting Future Demands

1) Conservation

- Creates a block of deliverable water to next growth component
- Education



Meeting Future Demands

1) Conservation

- Creates a block of deliverable water to next growth component
- Education
- Secondary Metering
 - Largest contiguous system in United States
 - 100,000+ connections
 - Technology finally caught up

Meeting Future Demands

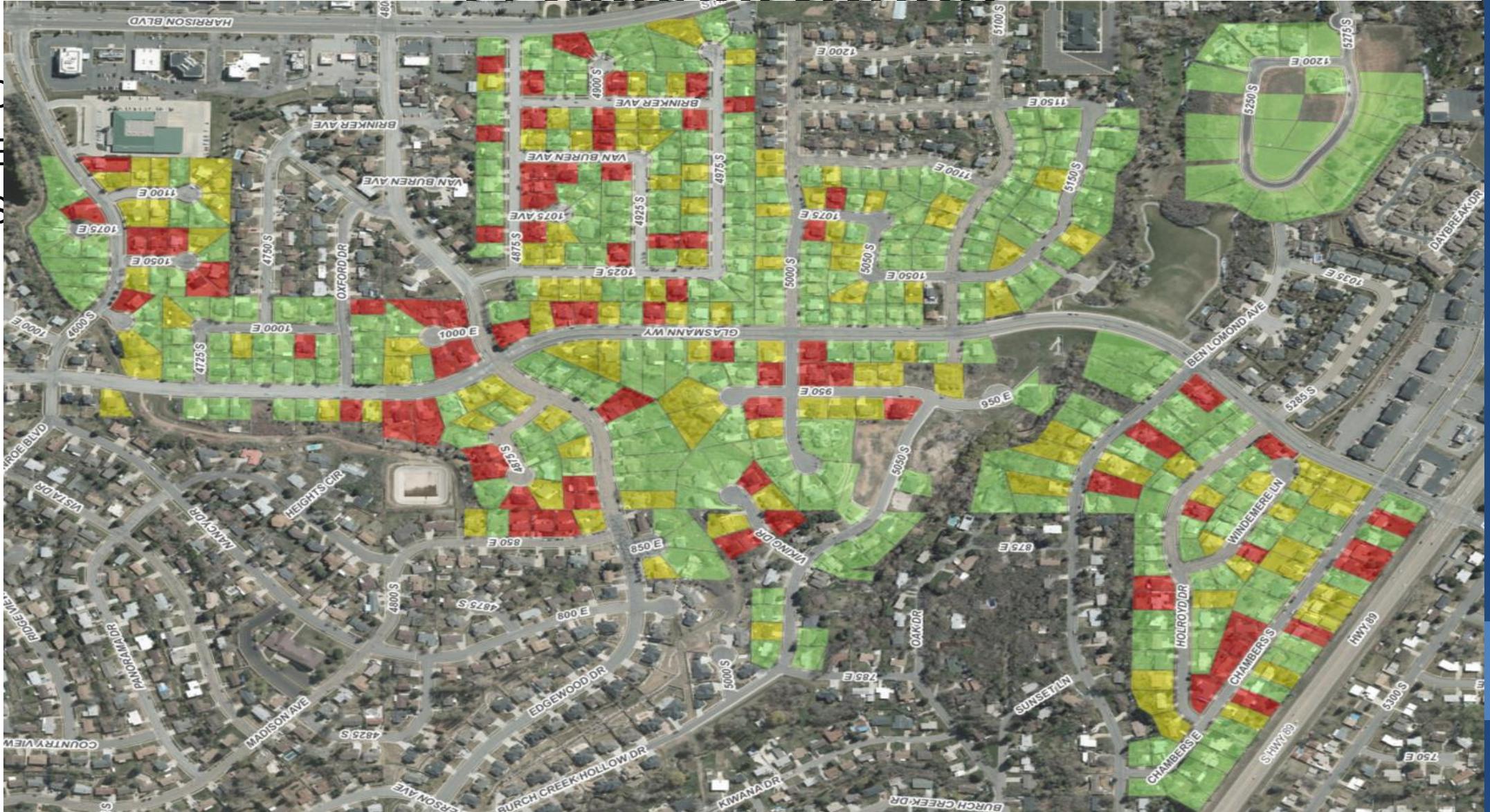
1) Conservation



Meeting Future Demands

1) Conservation

- C
- E
- S



Meeting Future Demands

1) Conservation

- Creates a block of deliverable water to next growth component
- Education
- Secondary Metering
 - Largest contiguous system in United States
 - 100,000+ connections
 - Technology finally caught up
 - Metered users actual use compared to allocation
 - 2012: 83% (136% of estimated need)
 - 2013: 64% (105% of estimated need)
 - 2014: 60% (98% of estimated need)

Meeting Future Demands

1) Conservation

- Creates a block of deliverable water to next growth component
- Education
- Secondary Metering
 - Largest contiguous system in United States
 - 100,000+ connections
 - Technology finally caught up
 - Metered users actual use compared to
 - 2012: 83% (136% of estimated need)
 - 2013: 64% (105% of estimated need)
 - 2014: 60% (98% of estimated need)
- Residential Landscapes
 - What will citizens accept for landscapes?



Meeting Future Demands

2) Optimization of water within our drainages

- Aquifer Storage Recharge
- Reuse
- Groundwater Development
- Raising of AV Watkins Dam
- Well Rehabilitation
- Cloud Seeding
- Ag Conversion

Conversion of Supply

- ↳ Convert agricultural supplies to urban supplies
- ↳ Only upon development
- ↳ Water stays with land

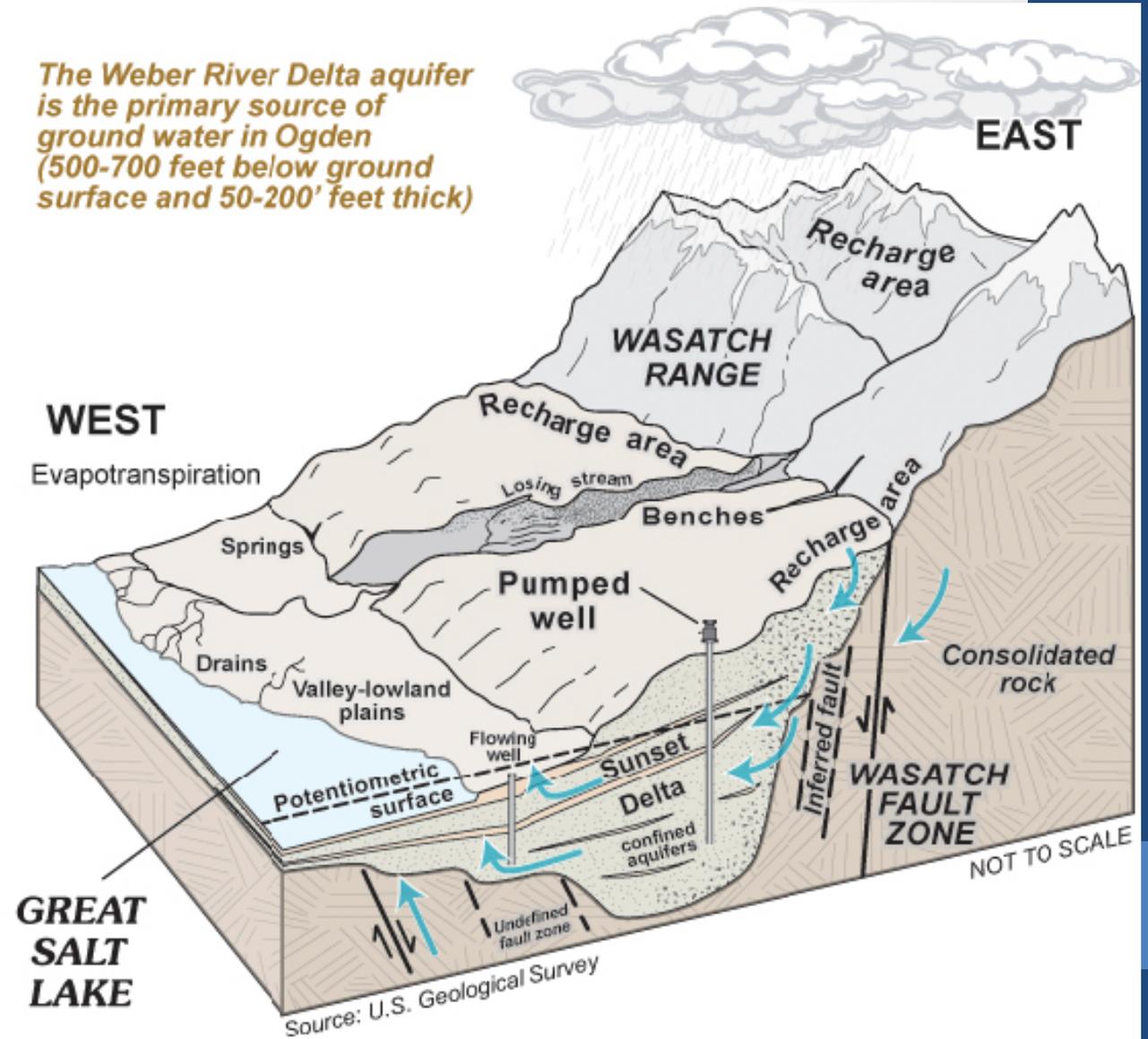


1993/2011

Aquifer Storage Recovery



The Weber River Delta aquifer is the primary source of ground water in Ogden (500-700 feet below ground surface and 50-200' feet thick)



Meeting Future Demands

3) Development

Bear River Development Project

Bear River Development Act -1991

“The Division shall develop the surface waters of the Bear River and its tributaries through the planning and construction of reservoirs and associated facilities as authorized and funded by the Legislature; own and operate the facilities constructed; and market the developed waters”

Meeting Future Demands

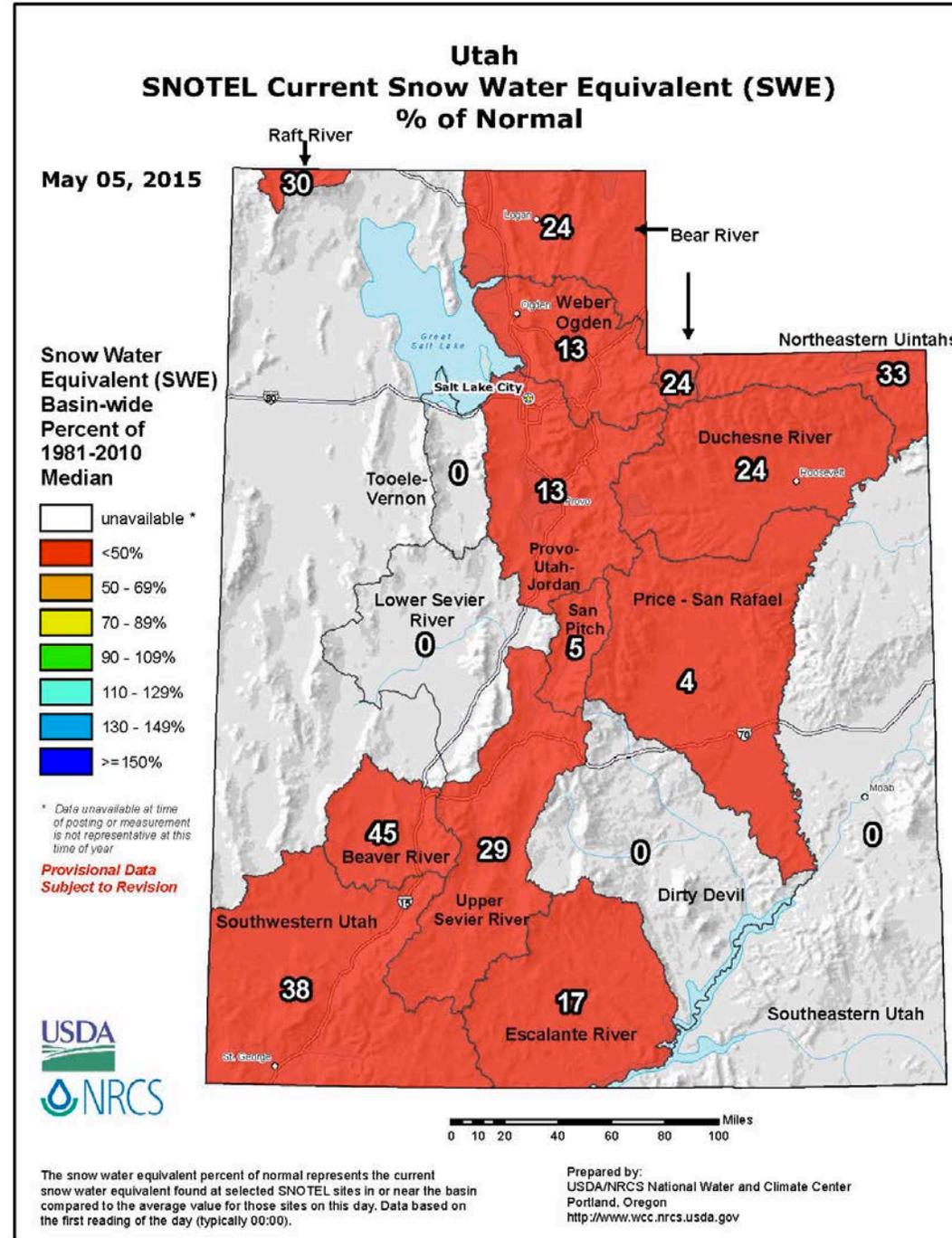
3) Development

Project Features

- Multiple dams and reservoirs
- Diversions from the Bear River
- Cache County delivery facilities
- Raw water pipelines to West Haven WTP
- Box Elder County delivery facilities
- Finished water pipeline/storage reservoir/pump stations to Weber, Davis, and Salt Lake Counties

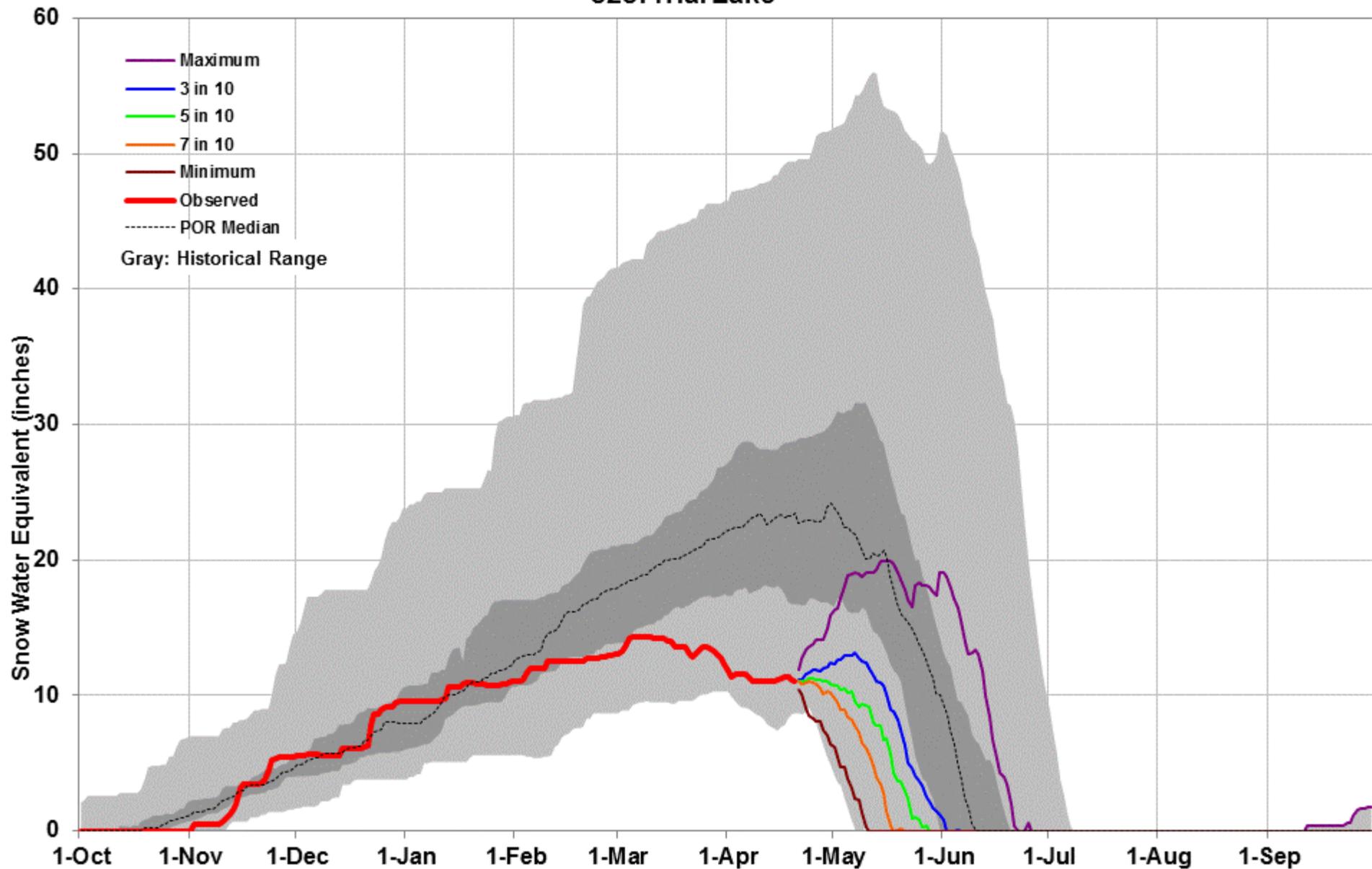


2015 Outlook



828: Trial Lake

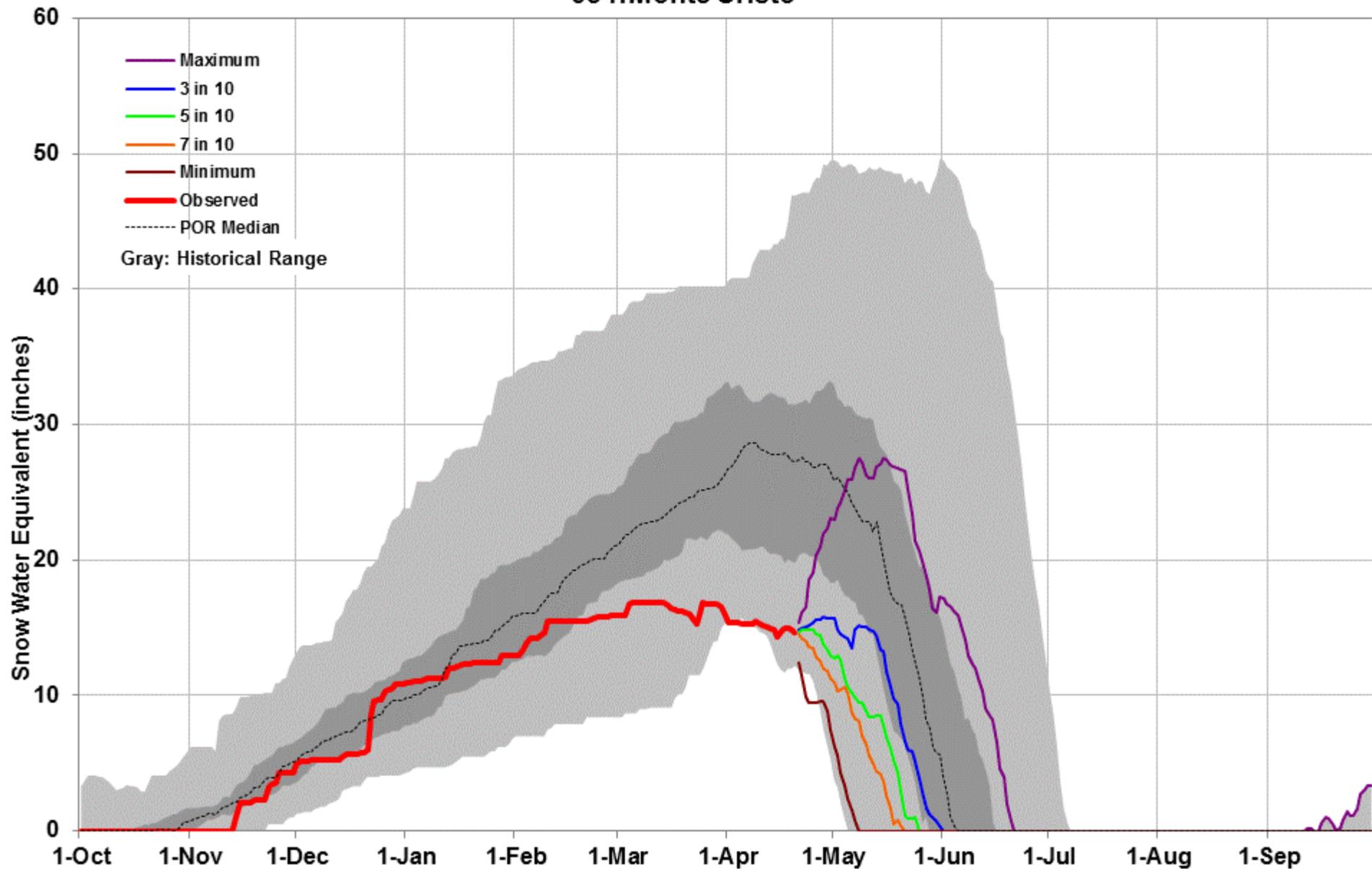
Created: 08:41 PM Apr 20, 2015



This is an automated product based on SNOTEL data, provisional data are subject to change. This product combines the historical period of record data (gray background) with the recent daily data (heavy red, left) to project into the future (colored lines, right). This product does not consider climate information such as El Nino or short range weather forecasts and therefore should only be used as a seasonal planning tool. Contact Jim.Marron@por.usda.gov 503 414 3047

634:Monte Cristo

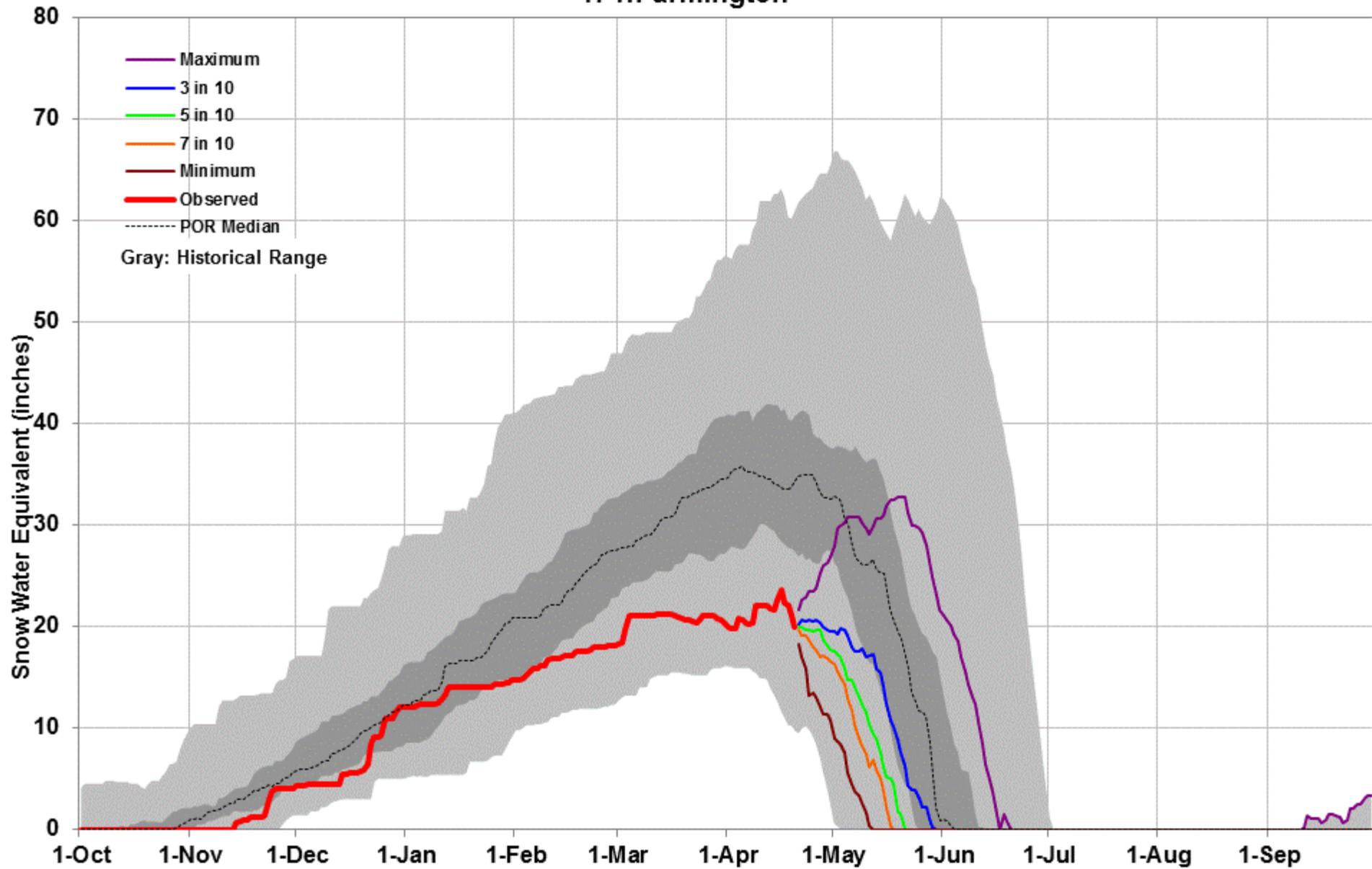
Created: 08:42 PM Apr 20, 2015



This is an automated product based on SNOTEL data, provisional data are subject to change. This product combines the historical period of record data (gray background) with the recent daily data (heavy red, left) to project into the future (colored lines, right). This product does not consider climate information such as El Nino or short range weather forecasts and therefore should only be used as a seasonal planning tool. Contact Jim.Marron@por.usda.gov 503 414 3047

474: Farmington

Created: 08:42 PM Apr 20, 2015



This is an automated product based on SNOTEL data, provisional data are subject to change. This product combines the historical period of record data (gray background) with the recent daily data (heavy red, left) to project into the future (colored lines, right). This product does not consider climate information such as El Nino or short range weather forecasts and therefore should only be used as a seasonal planning tool. Contact Jim.Marron@por.usda.gov 503 414 3047

2015 Drought Mitigation Plans

1. Increased visibility with daytime & wasteful watering patrols & enforcement.

- Leaving door hangers to help notify water users of the concerns.
- Enter address into elements system so that violations will be tracked and numbered.
- Potentially turn off irrigation water until users talk to a District employee and resolve the issue.

WATER VIOLATION
WEBER BASIN WATER
CONSERVANCY DISTRICT
2837 East Highway 193 • Layton, UT 84040
Phone (801) 771-1677 • www.weberbasin.com

Date: _____
Name: _____ Time: _____
Address: _____
City: _____

Our staff observed watering at this location during restricted hours (No watering between 10 AM - 6 PM). This is your _____ occurrence. Three times will result in loss of service.

Complaint call has been received reporting this location was watering during restricted hours. This is your _____ occurrence. Three times will result in loss of service.

Our staff observed excessive or wasteful watering. Complaint call has been received reporting excessive or wasteful watering. This is your _____ occurrence. Three times will result in loss of service.

Our staff observed disrepair of the irrigation water system at this location resulting in wasteful water. This is your _____ occurrence. Three times will result in loss of service.

Your service is scheduled to be shut off due to non-compliance. Please call our office.

Other: _____

OUR COOPERATION IN CONSERVING WATER IS APPRECIATED

WEBER BASIN WATER CONSERVANCY DISTRICT
2837 East Highway 193
Layton, UT 84040
Phone (801) 771-1677
www.weberbasin.com

Our Service Technician visited your property on _____ Date: _____ Time: _____
for the following reason(s):

Watering during restricted hours was observed (No watering between 10 AM - 6 PM). Please adjust your watering schedule.

Came as requested.

Will call again on _____ am pm

Please call our office _____

Service is now **ON OFF**

Found leak on _____

Repair must be done by **HOMEOWNER WEBWC**

Check and clean your filter

Took pressure reading of _____ psi

Water will be turned off for repairs on _____ From _____ to _____

Notes: _____

****YOUR COOPERATION IN CONSERVING WATER IS APPRECIATED**

2015 Drought Mitigation Plans

2. End seasonal irrigation and drain lines early with October 1st as target date.
3. More groundwater pumping from District wells to supplement surface water supplies and meet demands.

2015 Drought Mitigation Plans

4. Continued and increased education
 - a. Billboards on I-15 and Hwy. 89 and truck ads



b. Learning Garden Resource

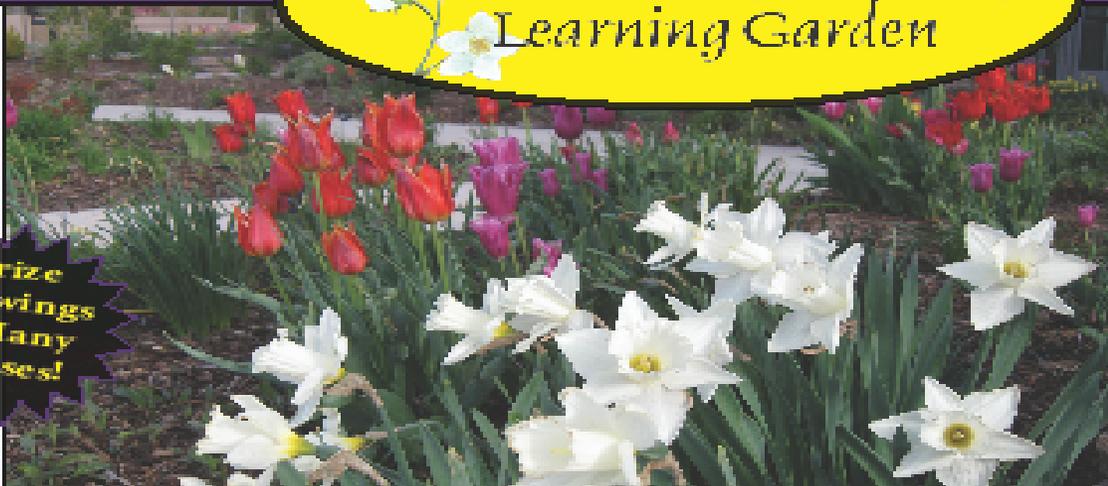
- Free Landscape Classes
- Free Garden Fairs
- Demonstrations on irrigation, soils, lawn types and plants suitable for lower water.



d. Local publication ads that target service area

2015 Free Classes and Events.

Don't miss out, sign up now!



April 8 Organic Vegetable Gardening (6 pm)
18 Thrillers, Fillers & Spillers: Container Planting (10 am)
25 Popular Perennials & What's New! (10 am)

May 6 Bee Happy: All About Bees (6 pm)
13 Common Irrigation Myths Debunked (6 pm)
23 A Rose for Every Garden (10 am)

June 6 **GARDEN FAIR (8 am-2 pm)** Food, activities, fun!
Experts, professionals, vendors and mini classes
10 Identify, Eliminate & Prevent Weeds (6 pm)
20 Kids Class: All About Herbs (10 am)
27 Growing a Cutting Garden (10 am)

July 15 Kids Class: Creepy Crawly Bugs (10 am)

Aug. 12 Rock Gardens & Succulents (6 pm)
22 Pavers, Patios & Fire Pits (10 am-12)
26 Incredible Edible Landscapes (6 pm)

Sept. 19 Bloomin' Bulbs (10 am)
26 **GARDEN FALL FESTIVAL (8 am-2 pm)**
Food, activities, fun! Experts, professionals, vendors and mini classes

Oct. 10 Autumn Arrangements (10 am)

Nov. 21 Landscape Winter Interest (10 am)

Prize Drawings at Many Classes!

- The Learning Garden is free to the public
- Learn what plants, soils and irrigation practices work best. See examples in the Garden
- Learn how to improve irrigation practices
- Tours and special group presentations available upon request

Call or Sign up Online!
www.weberbasin.com/conservation
2837 E. Highway 193 Layton, Utah 801-771-1677



We are seeking garden/landscape related vendors (no charge) to participate at our Garden Fair on June 6th. Call to inquire. We look forward to your participation.

Health Concerns with Secondary Irrigation

1. Cross-connections issues, especially if the secondary Water is shut off earlier than normal.
(should the Cities consider a “no outside watering” restriction after irrigation is shut off) or (require inspection of sprinkler system if observed running after irrigation is shut off)
2. Drinking from the secondary water hose.
3. Playing in the secondary water sprinklers.
4. Filling swimming pool with secondary water.



