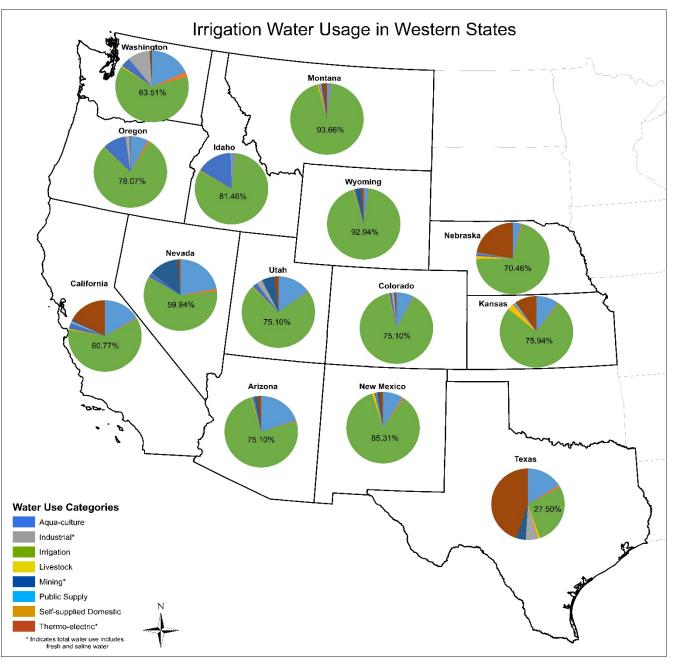
Institutional Water Use

Presentation to the Executive Water Finance Board Governor's Office of Management and Budget State of Utah By Warren Peterson David Wright Roy McDaniel



Irrigation Water Use in Agriculture, 2010

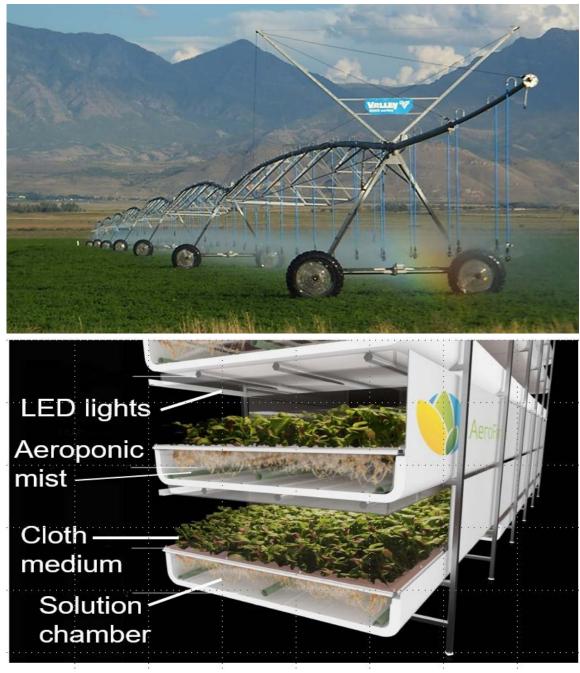
Utah – 75.10% Idaho – 81.46% California – 60.77%

Data from USGS, Estimated Use of Water in the United States in 2010, https://pubs.usgs.gov/circ/1405/pdf/circ1405.pdf

Envision Utah study: 98% of Utahns want to increase food selfsufficiency

- July 30, 2015 Utah Dept. of Ag and Food news release





Water Conservation Efforts Local Leaders and Members

	THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS THE OUORUM OF THE YWELVE APOSTLES
	47 EAST SOUTH TENPLE STREET SALT LAKE CITY, UTAN 84180-1200
	June 25, 2002
To:	General Authorities and the following leaders in the United States and Canada Area Authority Seventies; Stake, Mission, and District Presidents; Bishops and Branch Presidents
Dea	r Brethren:
	Stake Building Specialists for Water Conservation
assi	In an effort to implement water conservation measures, we ask each stake sidency to call a specialist for each meetinghouse and recreational property to st the local facilities management (FM) group in the watering of lawns, trees, and ubs. This could be an opportunity for the participation of prospective elders, less we members, and responsible Aaronic Priesthood youth.
The	Under the direction of the stake physical facilities representative, the specialis uld perform the responsibilities which are printed on the reverse side of this letter specialist should be assigned to monitor the lawn at each meetinghouse and adjus irrigation system based on current weather conditions and watering needs.
	Sincerely,
	Boyde Packer

Water Conservation Efforts

"The Church seeks to follow environmentally friendly practices in landscaping and water conservation."

<u>https://www.mormonnewsroom.org/article/environmental-</u> <u>conservation-stewardship-efforts</u>



Indoor Water Usage

- The Church operates some small Public Water Systems
- Water Meter Readings in Cities with Secondary Systems
 - Use approximately 0.1 acre-feet of water per year
 - 800 gallons per week
 - Amount varies based on age of facility
- Resource Advisor Monitors Utility Usage, including water







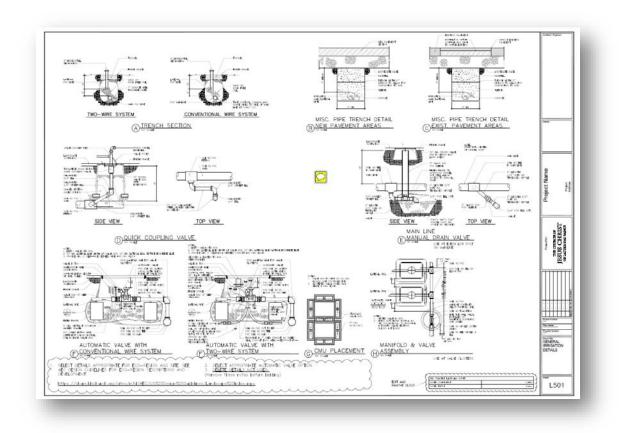
Church Headquarters Facilities



- Smart controller technology
- 32 smart controllers at various headquarter facilities
- Estimated 30% water savings
- Use of recycled water in fountains before it is returned to the stream

Current Landscape Designs

- Reduced the size of lawns
 - 1 acre of landscaped area
 - 35%-45% lawn
 - 55%-65% shrub/planter
- Encourage the use of:
 - Smart controllers,
 - Hydrometers,
 - Rain sensors,
 - Drip irrigation
 - Head-to-head coverage



Water Conservation Guidelines: A Guide for Facilities Managers, June 17, 2015

Water Conservation Guidelines: A Guide for Facili Managers

Introduction

As the demand rises for limited water supplies, it is critical to efficiently manage this reso document provides actions that will conserve water and reduce utility costs.

Remember, regardless of the recommended actions listed below; follow all local jurisdict restrictions.

Table of Contents

- Quick reference essential irrigation operation
- Emergency water condition strategies
- Landscape considerations
- Who should be part of water conservation efforts?
- Stake building specialists for water conservation letter June 25, 2002
- Recommended water conservation actions
- Water audit techniques
- Irrigation controller run times

Adaptation of Eco-Regions

- Based on North American Commission for Environmental Cooperation
- Recommended landscape plans
- Recommended use of smart controllers, hydrometers, rain sensors, drip irrigation, etc.

Ecoregion 10.1: Northern Cold Desert

The tables below provide the recommended irrigation run times measured in minutes per week. This is a useful reference but does not account for system specific precipitation rates, distribution uniformity, or soil types. Evapotranspiration averages and the following sprinkler precipitation rates determined the run times below:

> Spray: 1.6 inches/hour Rotor: 0.7 inches/hour Rotary Nozzle: 0.5 inches/hour

Weather, climatic conditions, and local restrictions supersede the recommendations provided in the tables. Adjust run times as required to respond to these additional variables.

