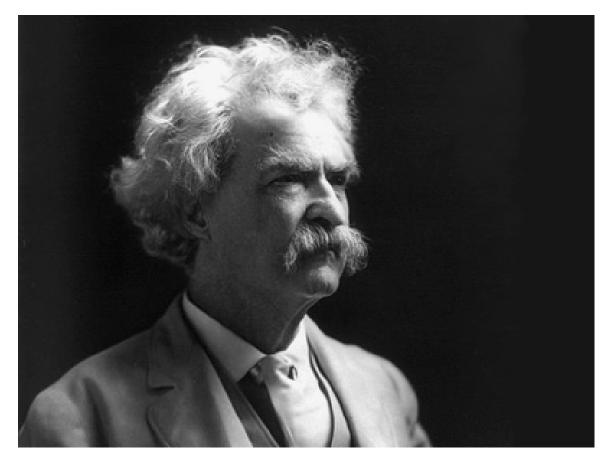
This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



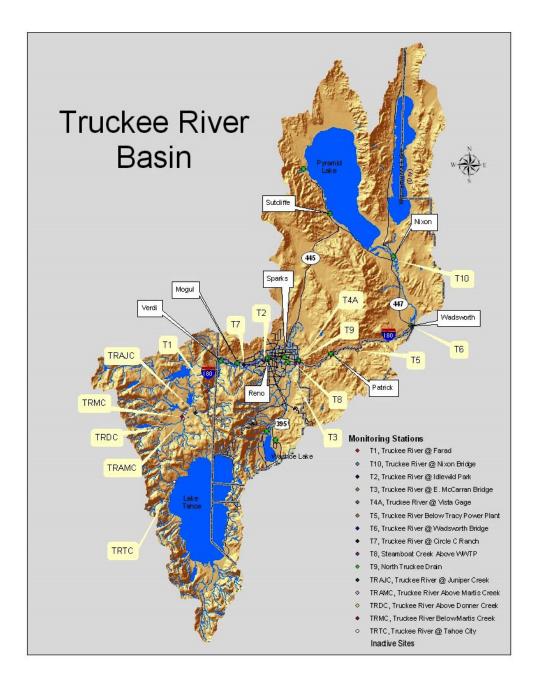
Water Efficient Landscaping: A View from Northern Nevada Ellis L. Antuñez, F.A.S.L.A., R.L.A.

> Ted Petersen, R.L.A. <u>Principals of Antuñez</u> & Associates



The sage of Virginia City, NV.

"Out here...Whiskey is for drinking; water is for fighting over." This quote has been attributed to Mark Twain, but until the attribution can be verified, the quote should not be regarded as authentic – TwainQuotes.com





Water Usage

Total Withdrawals

County/Water Purveyor	Population Served	(mgd)	(gpcd)	Residential Deliveries (gpcd)
Westpac	191,000	56.366	295	180
Litilition				

Utilities 1992 Nevada Water Facts, Division of Water Resources

2005-2025 Maximum Day Demand Projections*

Year	WRP MDD (MGD)	WFP MDD (MGD)	Percent Difference
2005	153.1	152.1	(0.3)
2010	159.6	161.0	0.9
2015	171.0	177.1	3.6
2020	180.5	189.7	5.1
2025	189.5	201.0	6.1

*Truckee Meadows Water Authority

Landscape Ordinances

- Sparks creates
 "Resource Efficient
 Landscape" Ordinance
- Date: 1992
- Summary: establishing regulations for the installation and maintenance of landscaping according to recognized resource-efficient principles
- Reno creates
 "Landscape
 Development
 Ordinance"
- Date: 2000
- Summary: Enhance the aesthetics of the community, including the visual appearance of city streets in all areas of the city; Promote the use of xeriscape design principles

Ordinances

• Sparks Title 20

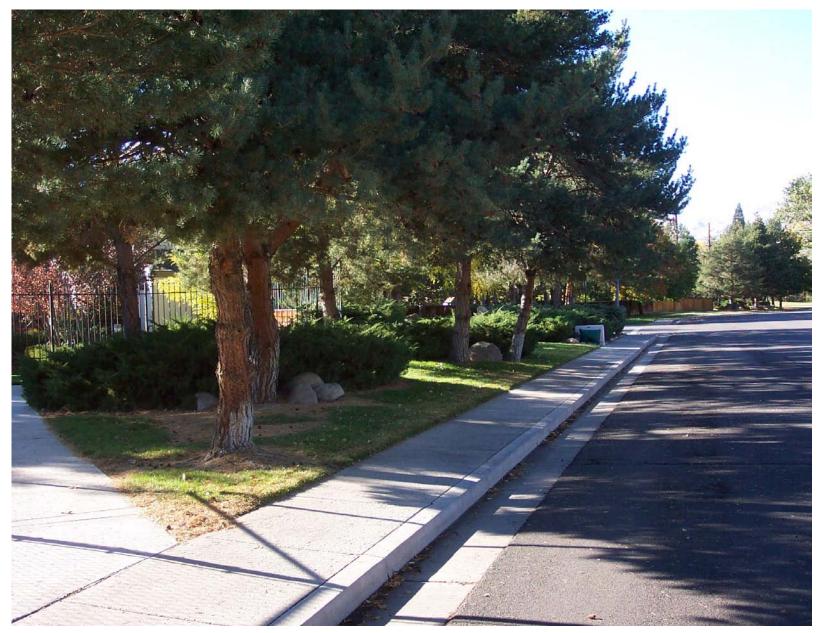
- The purpose of this chapter is to promote the public health, safety and general welfare of the people of the city by establishing regulations for the installation and maintenance of landscaping according to recognized resource-efficient principles, and to provide for the protection of existing vegetation, where appropriate. The regulations are intended to accomplish the following:
- A. Enhance the aesthetics of the community;
- B. Conserve water and other natural and energy resources by requiring the use of resource-efficient guidelines and principles;
- C. Provide environmental controls such as, but not limited to, the reduction of noise, dust and erosion;
- D. Reduce air pollution by encouraging the use of vegetation for air filtration, absorption of carbon dioxide and production of oxygen;
- E. Assist in ground water recharge;
- F. Reduce visual pollution which might otherwise occur within an urbanized area;
- G. Establish a greater sense of privacy from visual and physical intrusion; and
- H. Encourage a balanced landscape approach with a variety of landscape materials.

• Reno Title 18

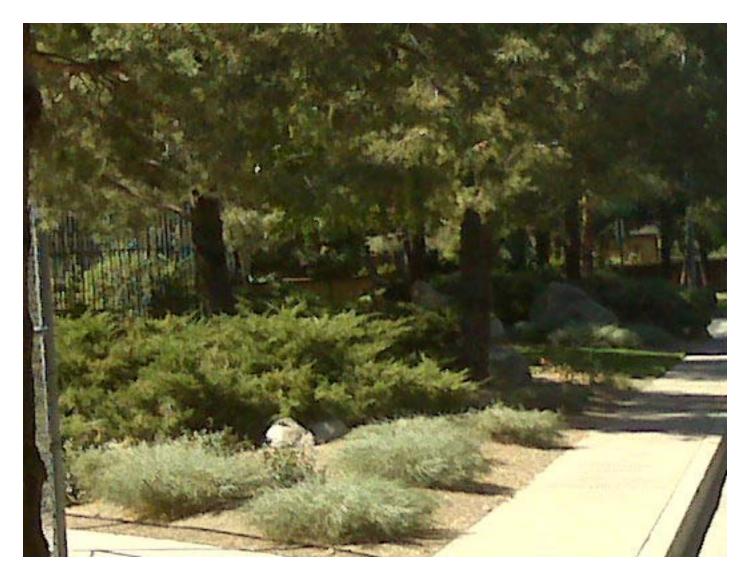
- The purpose of this section is to establish requirements and standards for landscape and screening to:
- (a)Enhance the aesthetics of the community, including the visual appearance of city streets in all areas of the city;
- (b)Promote the use of xeriscape design principles utilizing drought-tolerant or native plants and the efficient use of water;
- ©Provide for the health and comfort of the public by using landscaping to aid in reducing dust and erosion, promote psychological benefits and natural diversify in the environment, and reduce the effects of heat and cold on buildings, public areas and parking lots;
- (d)Reduce visual pollution which might otherwise occur within an urbanized area;
- (e)Encourage groundwater recharge, wetland preservation, and associated environmental benefits from open spaces;
- (f)Integrate significant natural features of the city into a landscape that fosters their preservation and enjoyment;
- (g)Promote screening of surface parking lots from public view; and
- (h)Encourage landscaped parkways on all streets.



So Much Turf to Water



Incompatible Plantings



Renovated Landscape

Reno/Sparks Census Info.

Reno is a city located in <u>Washoe County, Nevada</u>, <u>United States</u>. As of the 2000 census, the city had a total population of 180,480 and total housing units of 79,453. 2006 Estimated: 210,255 in Reno.

The official website of Reno is <u>http://www.ci.reno.nv.us/</u>.

Sparks: Total population is 66,346 according to the 2000 census 2006 Estimate: 83,959 in Sparks.

1980 Census: Reno 100,756 Sparks 40,780 1980: Bureau of the Census

Irrigating the Truckee Meadows

- 1988 2 day a week watering was instituted.
 - Assigned days according to address
 - No watering on Mondays
 - Most existing residents were unmetered
 - New construction and commercial/industrial metered
 - 2008 Truckee River Operating Agreement (TROA)
 Signed

Today watering is 3 days per week



Compatible Mix of Landscape with Zoned Irrigation matched to the Landscape Type

Barrensee Burn















Thank You for Participating!