

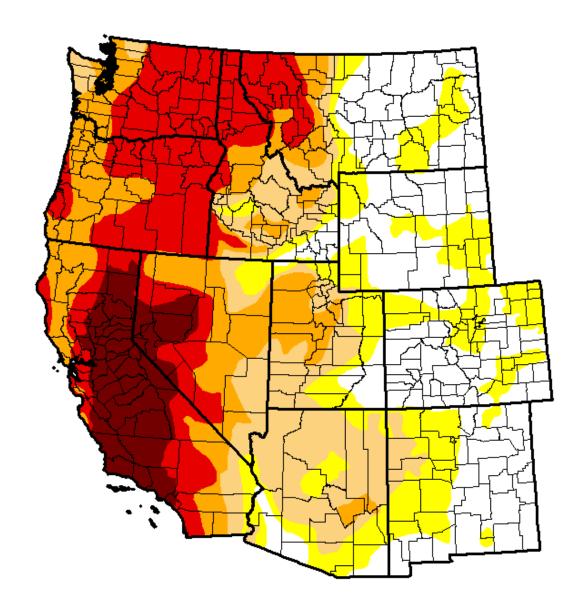
RESEARCH | STEWARDSHIP | SERVICE | EDUCATION | SERVICE







# U.S. Drought Monitor West



### **October 13, 2015**

(Released Thursday, Oct. 15, 2015) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

|   | None  | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4   |
|---|-------|-------|-------|-------|-------|------|
| Сиптепт                                   | 25.31 | 74.69 | 57.06 | 41.92 | 26.44 | 7.62 |
| Last Week<br>10/6/2015                    | 25.71 | 74.29 | 57.06 | 42.43 | 26.44 | 7.62 |
| 3 Months Ago<br>7/14/2015                 | 25.49 | 74.51 | 61.37 | 43.76 | 18.87 | 7.17 |
| Start of<br>Calendar Year<br>12/3/02/01/4 | 34.76 | 65.24 | 54.48 | 33.50 | 18.68 | 5.40 |
| Start of<br>Water Year<br>929/2015        | 22.77 | 77.23 | 57.81 | 42.42 | 26.50 | 7.62 |
| One Year Ago<br>10/1 4/2 01/4             | 31.95 | 68.05 | 55.56 | 35.07 | 19.75 | 8.90 |

#### Intensity:

D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought D4 Exceptional Drought

D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

#### Author:

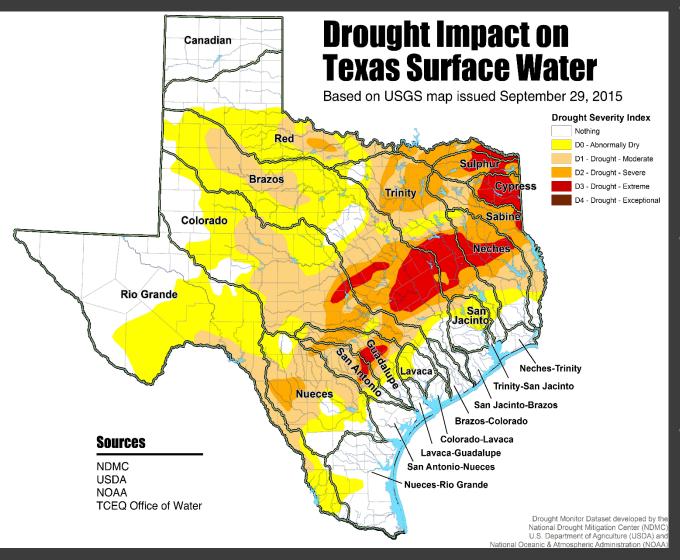
David Miskus NOAA/NWS/NCEP/CPC











- In 2015, the most severe drought conditions in Texas have receded.
- The combined storage of the LCRA reservoirs remain at 72% full
- Reservoir storage in Texas as a whole average 79% full





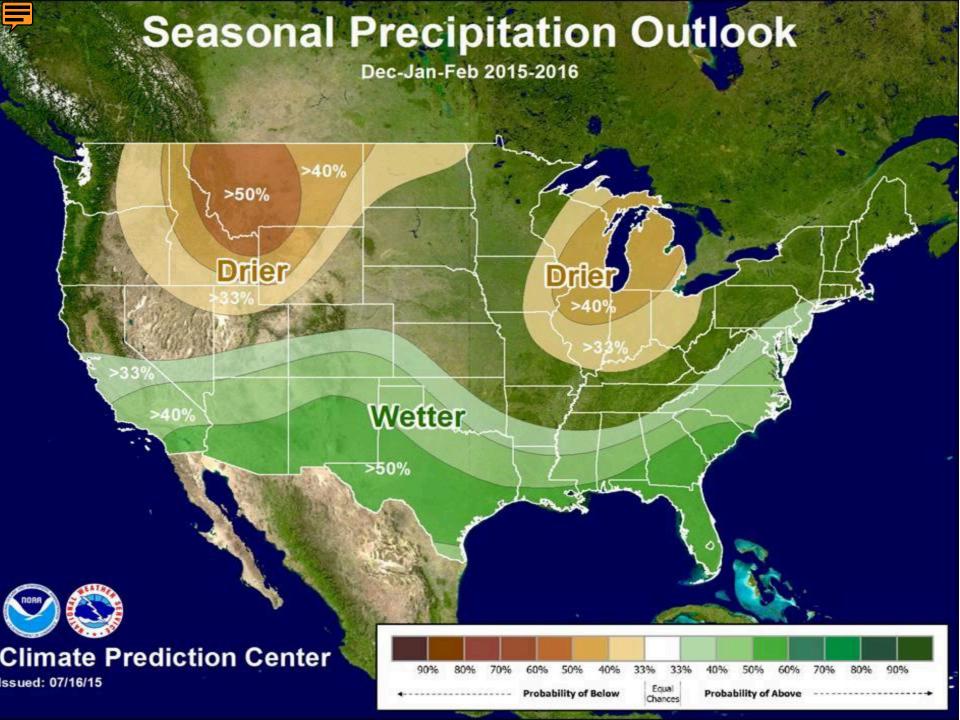
Wildfire Activity Map (Esri October 19, 2015)

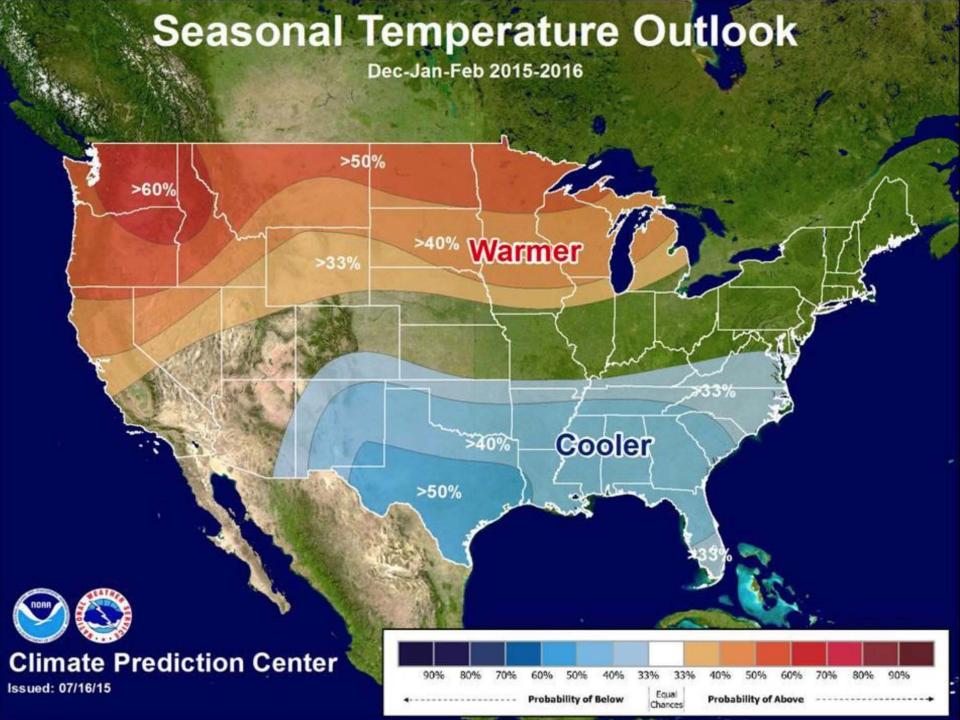




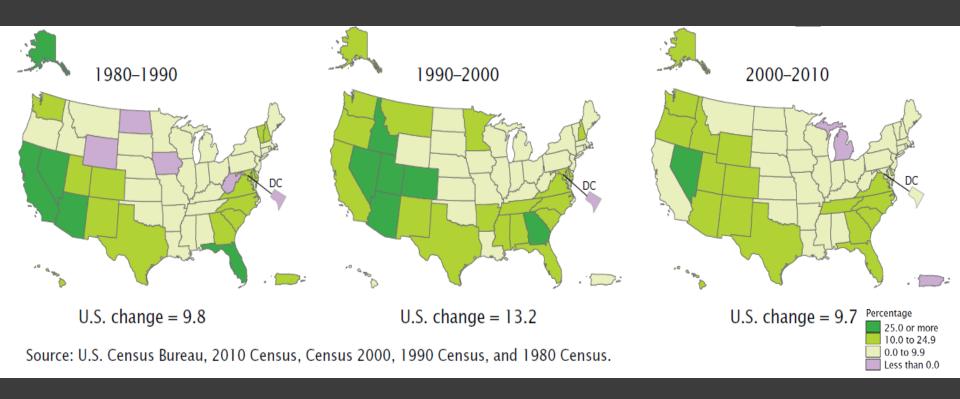


Historic Floods Cause Landslides in California October 15, 2015





## **US Population Growth**

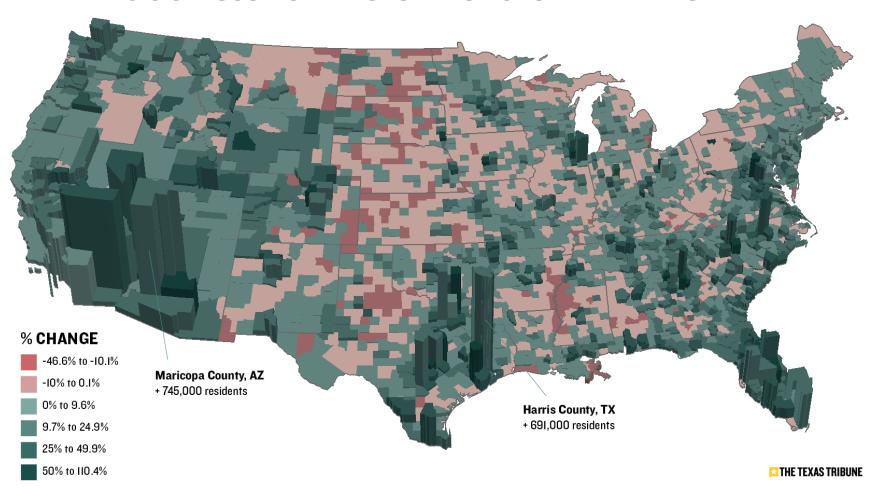


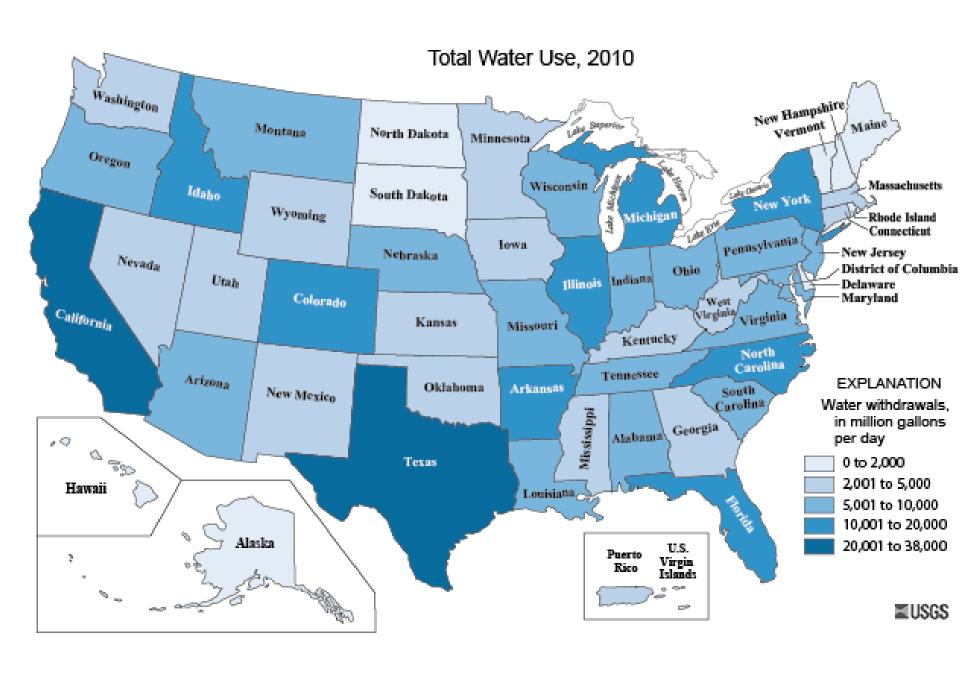
Nevada was the fastest-growing state between 2000 and 2010 (35.1%), followed by Arizona (24.6 %), Utah (23.8 %), Idaho (21.1 %),

and Texas (20.6 %)

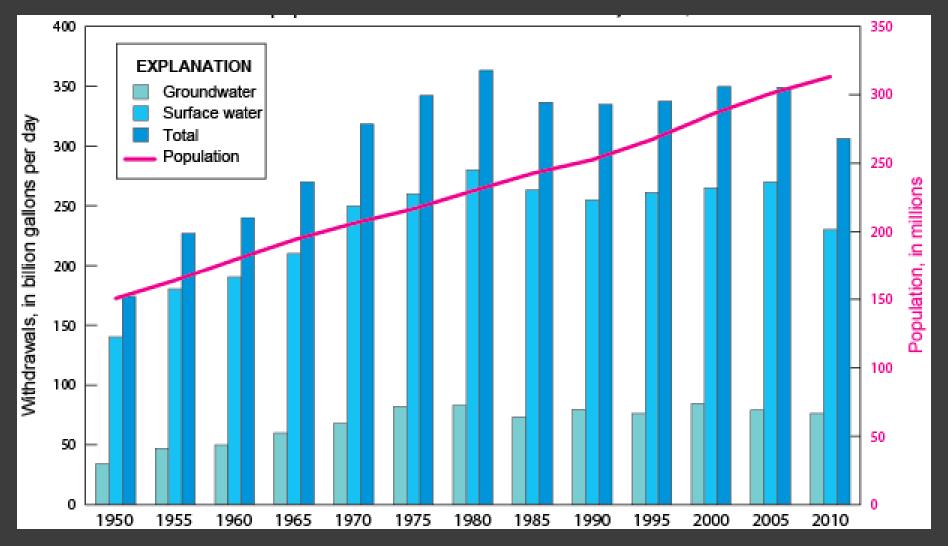


#### 2010 CENSUS: TOTAL POPULATION GROWTH: RAW VS. RATE



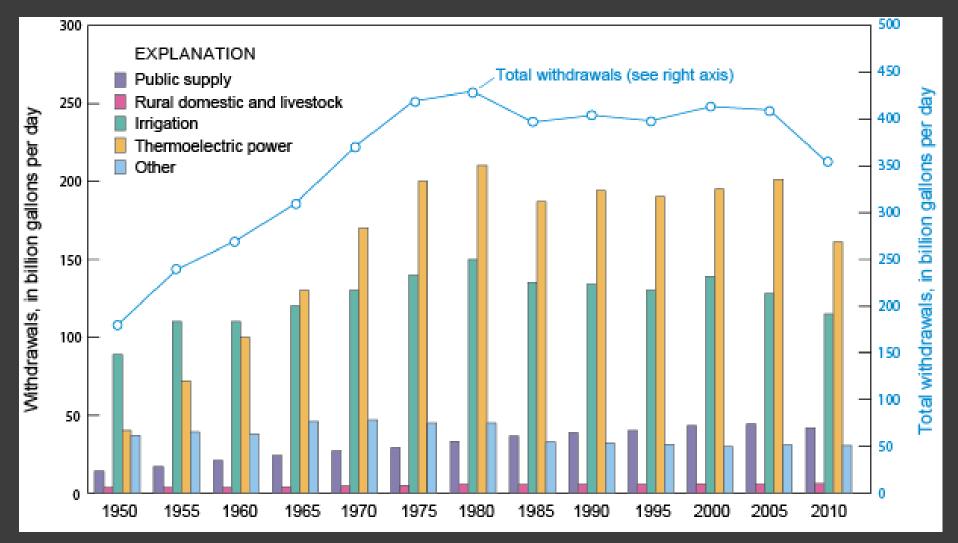






Trends in Population and Freshwater by Source 1950-2010 (USGS)



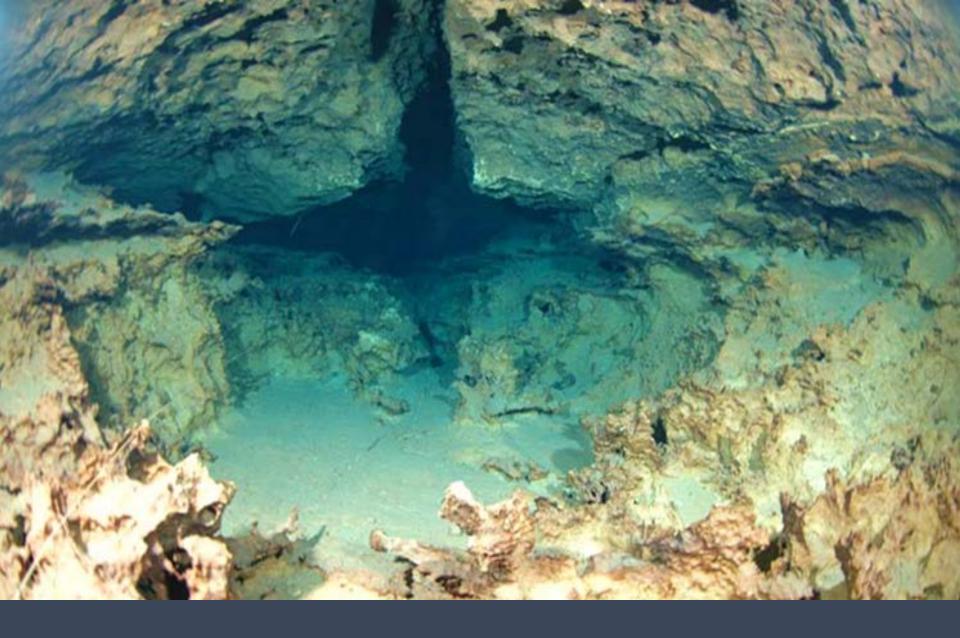


Trends in Total Water Withdrawals by Water-Use Category 1950-2010 (USGS)

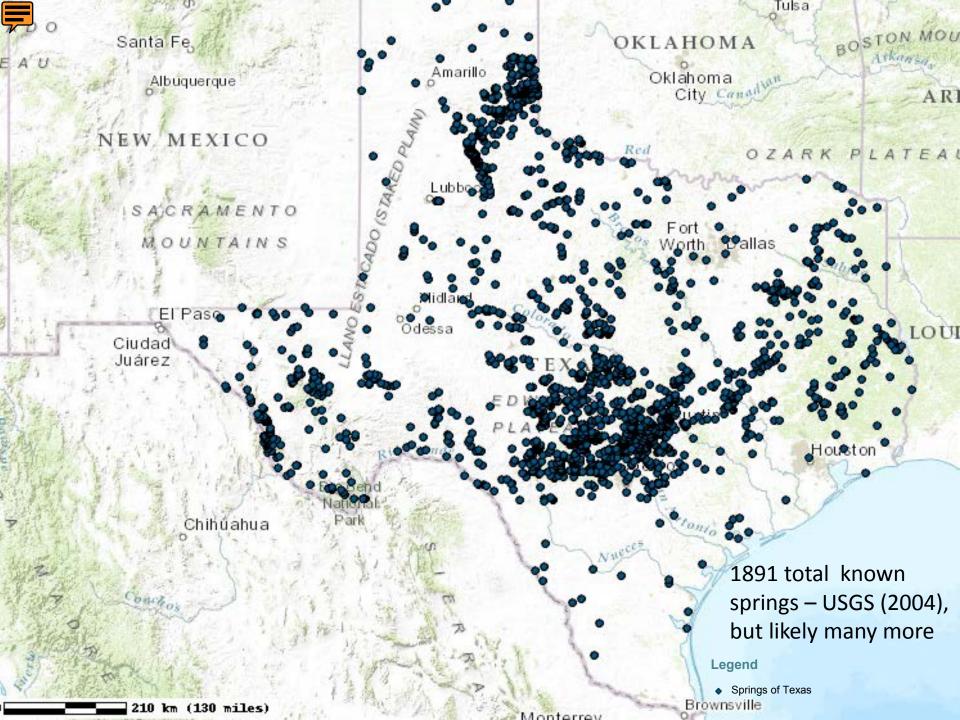


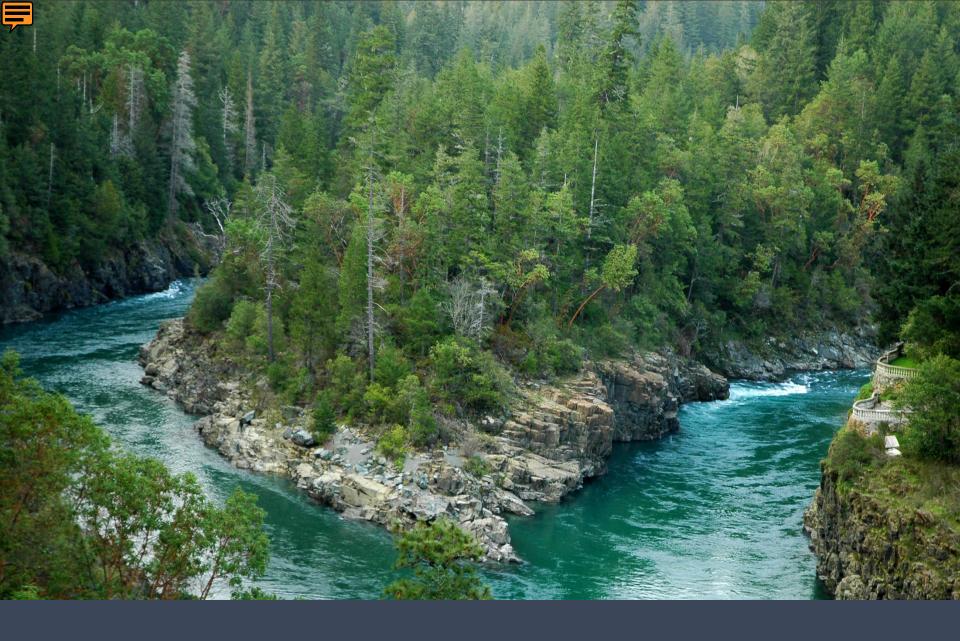


Surface Water

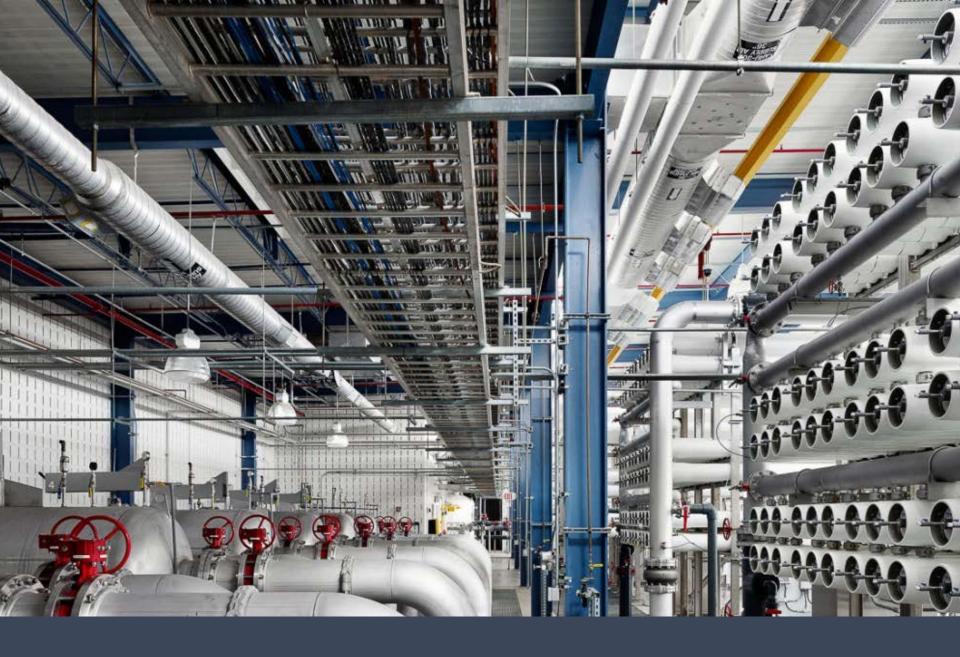


Groundwater





**Environmental Flows** 

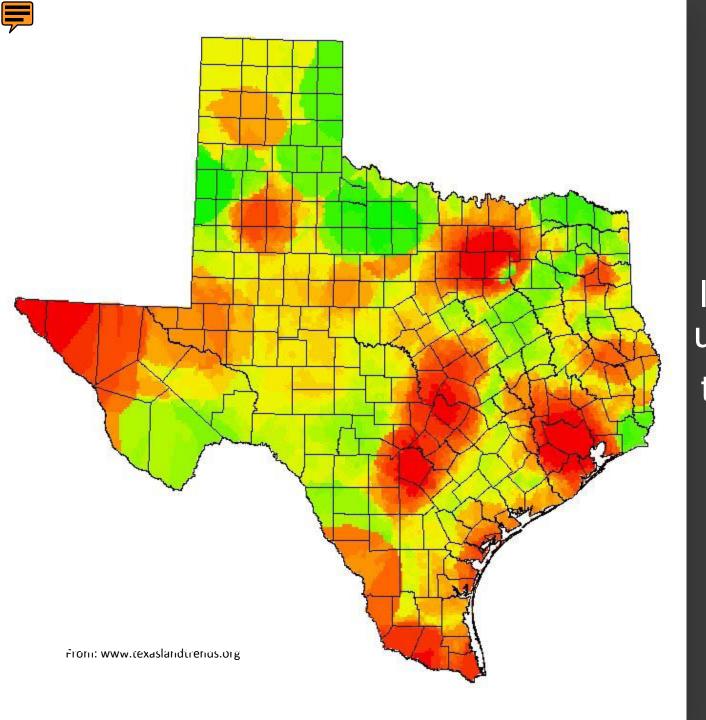


Innovation and Technology



### Land Fragmentation

Nearly 60% of the Western US is Publically Owned 95% of Texas is Privately Owned



Texas
loses more
land from rural
uses each year
than any other
state





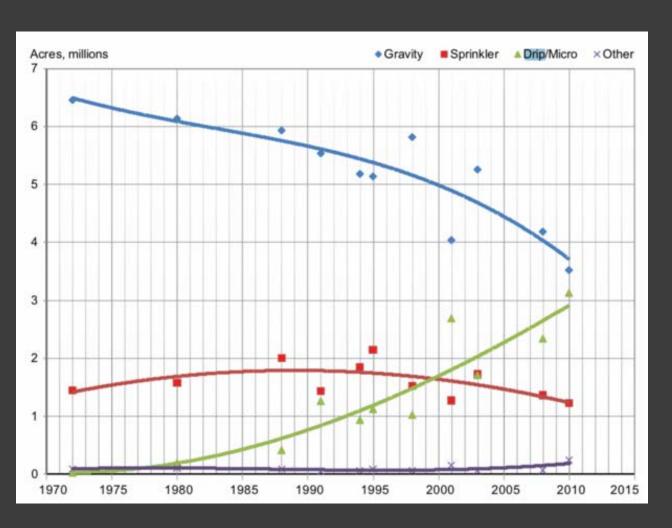
# Las Vegas

- The Southern Nevada Water Authority established a community conservation goal of 199 GPCD by 2035
- Cash for Grass
- Golf Course restrictions
- Reuse
- Infrastructure





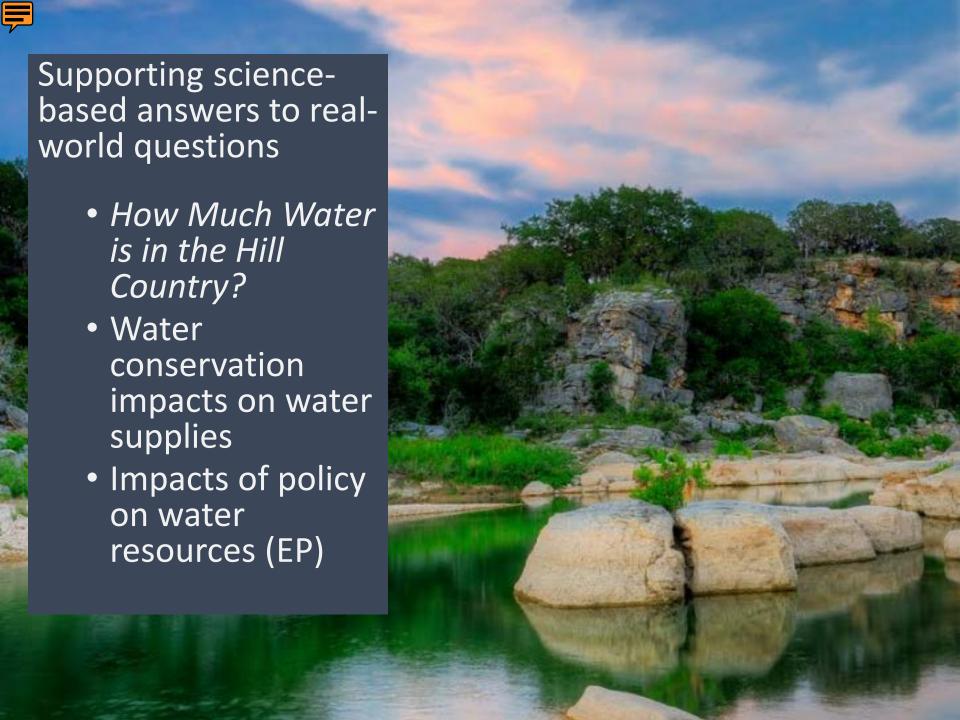
## Agricultural Water Conservation



Over the past 30 years, California has invested in agricultural water efficiency and providing incentives to farmers

Change in Irrigation Methods in California (1977-2010) – Washington Post











Brokering and Purchasing Land or Conservation Easements

