



**Nipomo Community
Services District**

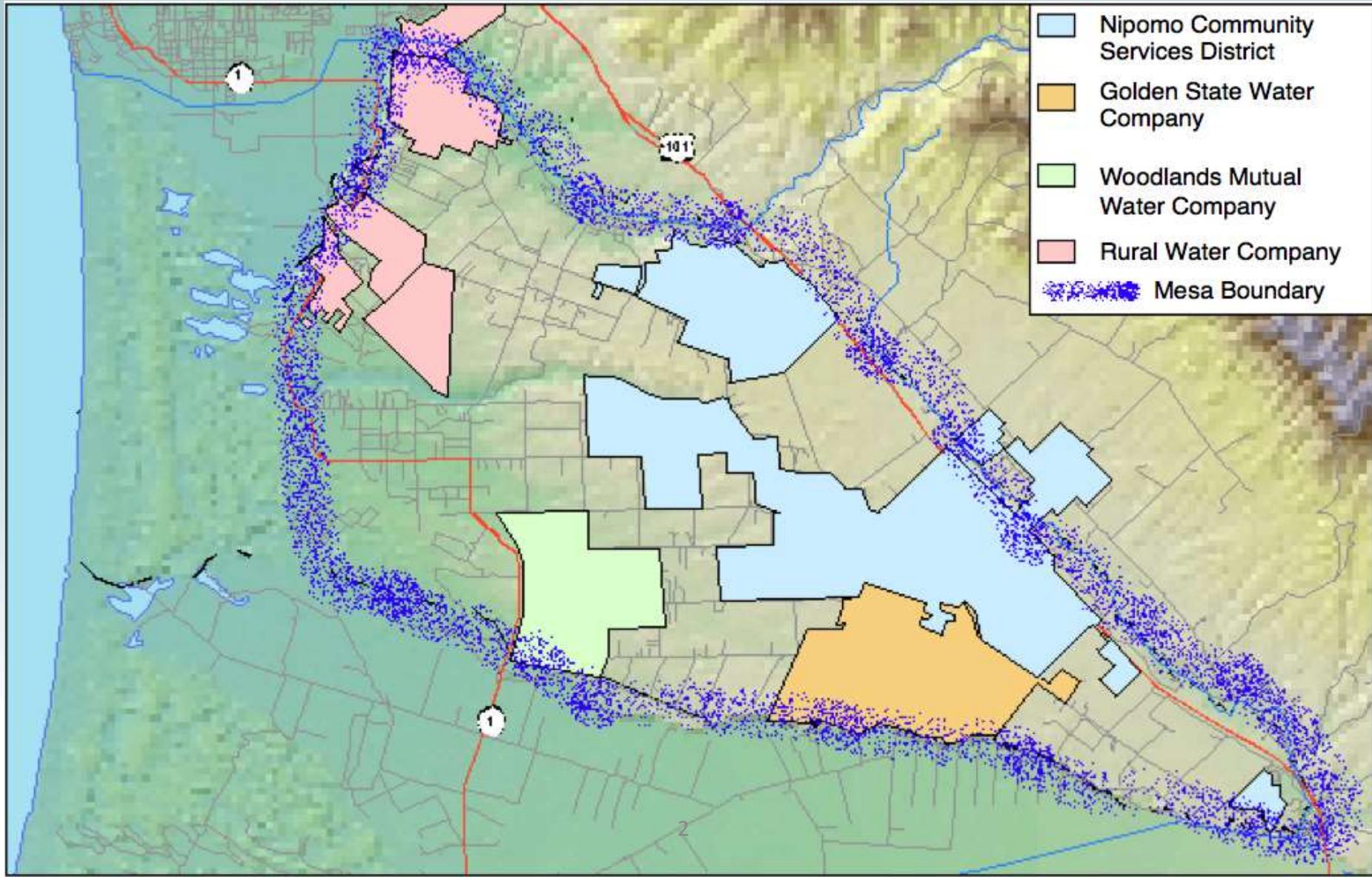
September 4th
2014

Nipomo CSD
Board Room

**How We are Responding to the Drought
and
Meeting Community Water Supply Needs**



Nipomo Mesa Water Purveyors



Our Water Problem

The Nipomo Mesa has
only ONE source of water . . .

. . . the groundwater pumped from
beneath us.

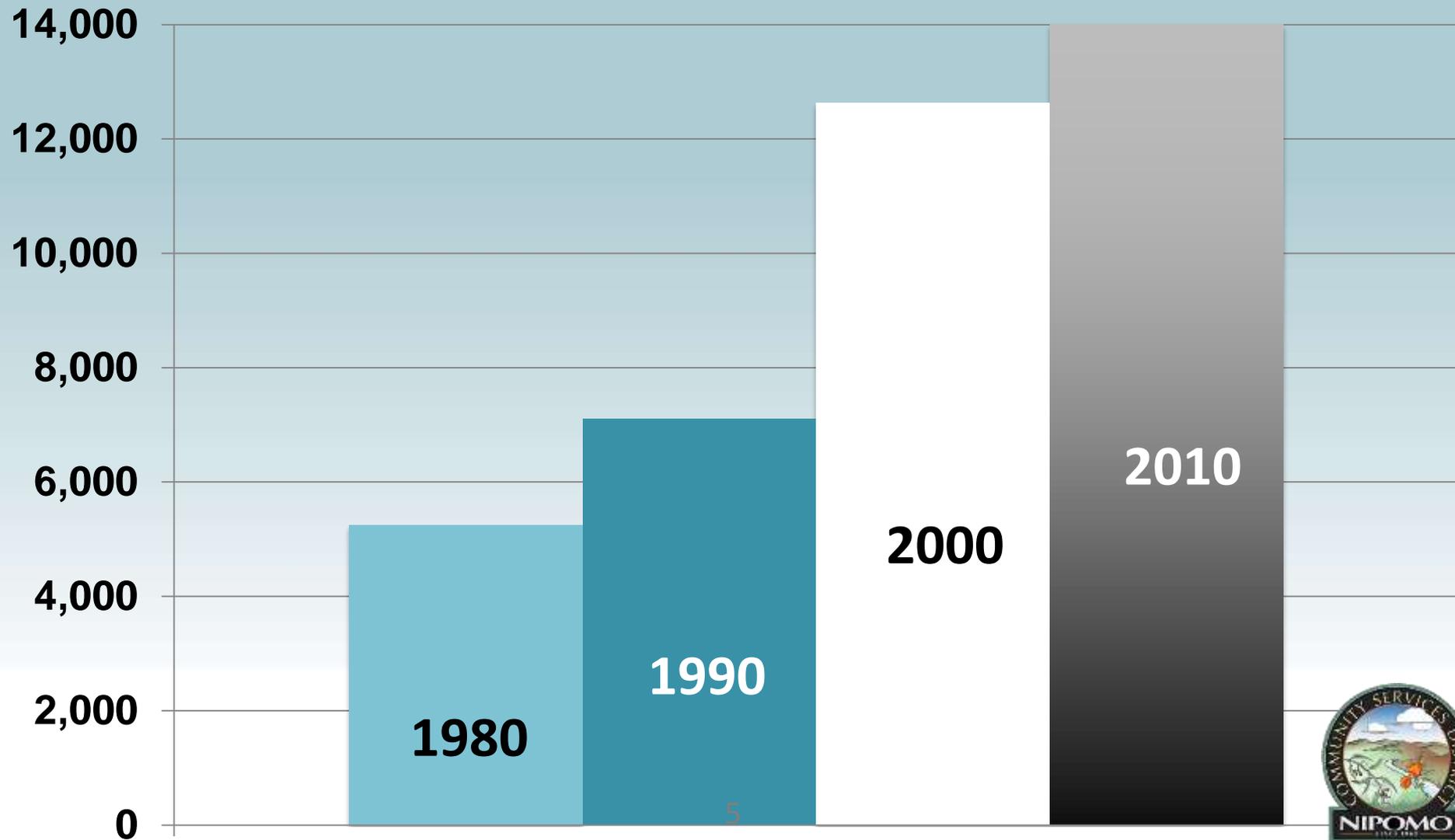


Groundwater Levels Are Dropping.

Here's Why...

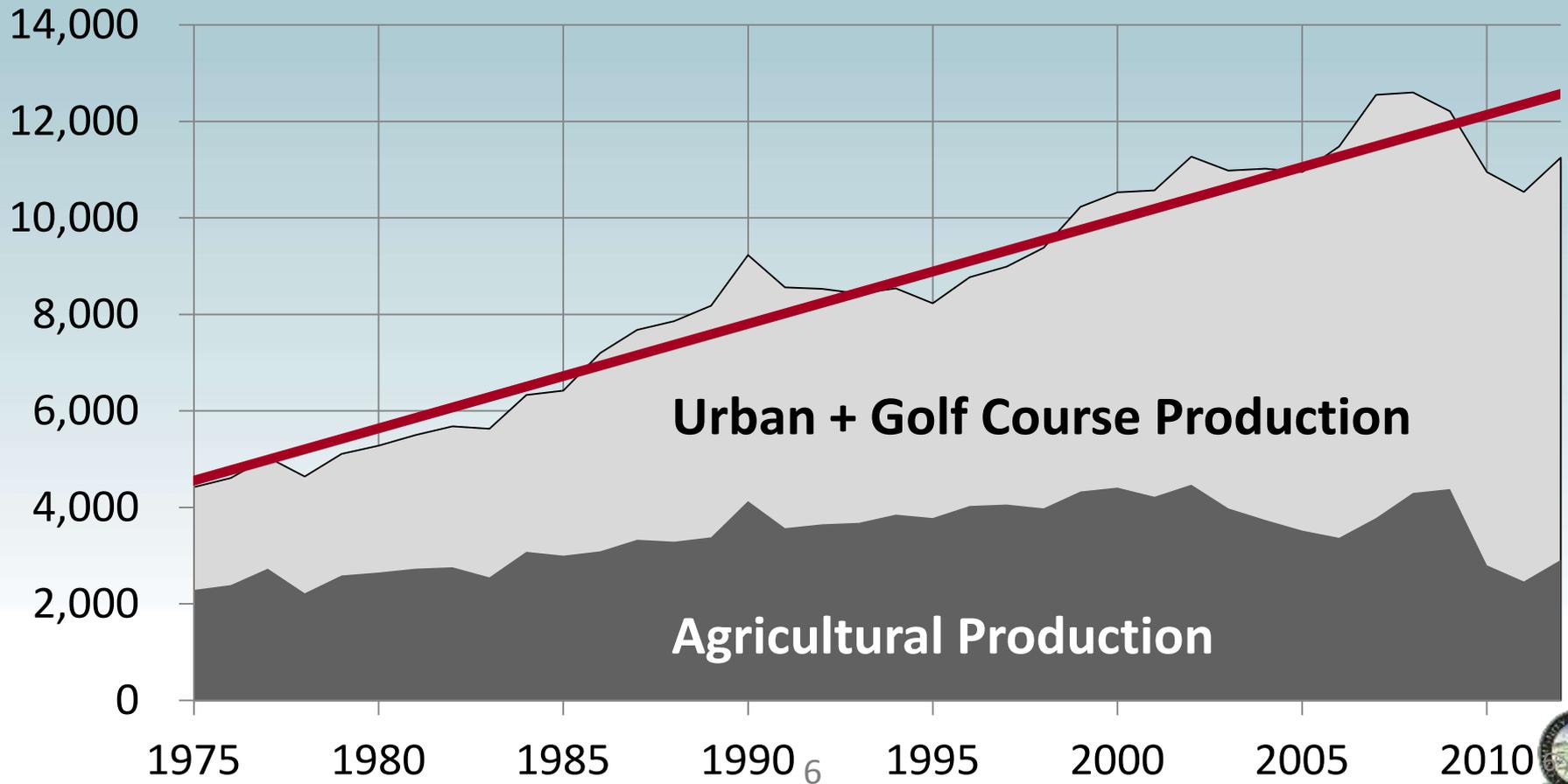


Nipomo Mesa Population Growth



Nipomo Mesa Water Use Steady Increases Since 1970s

Acre-Feet



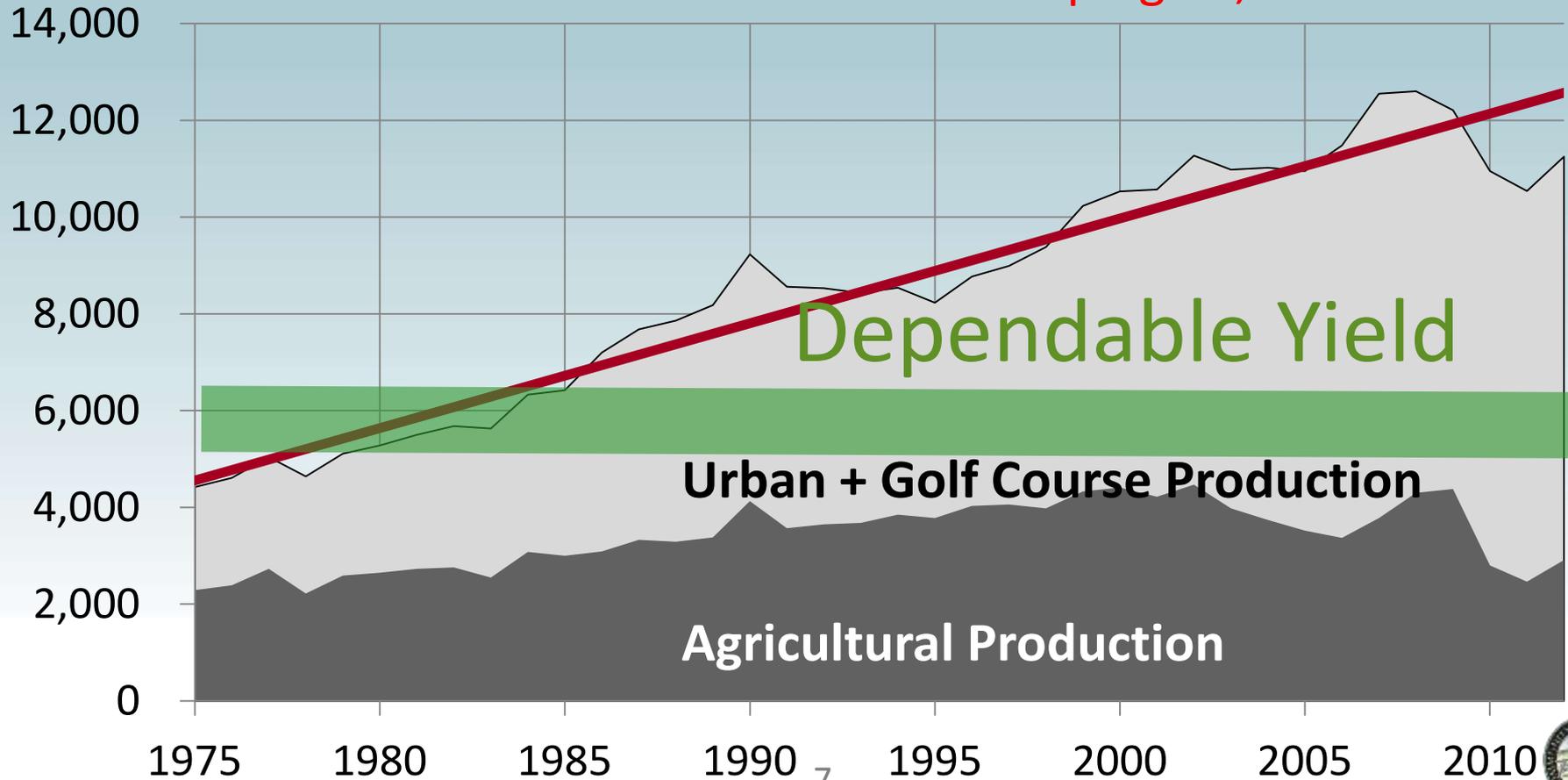
We are pumping twice the dependable yield

The Amount That Can Be Pumped Reliably Into the Future

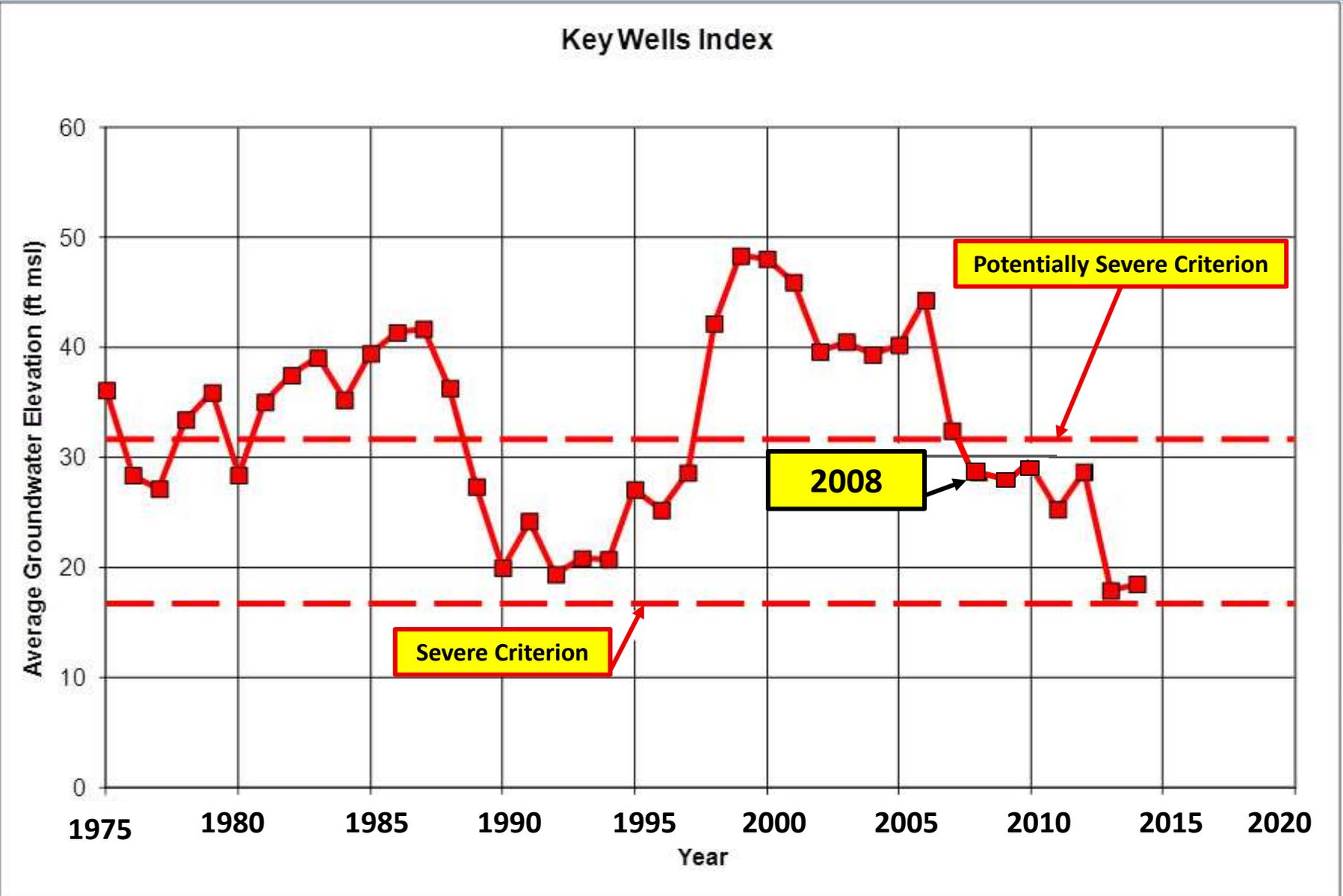
Current Pumping

2013 Estimated Pumping 16,349 Acre-Feet!

Acre-Feet

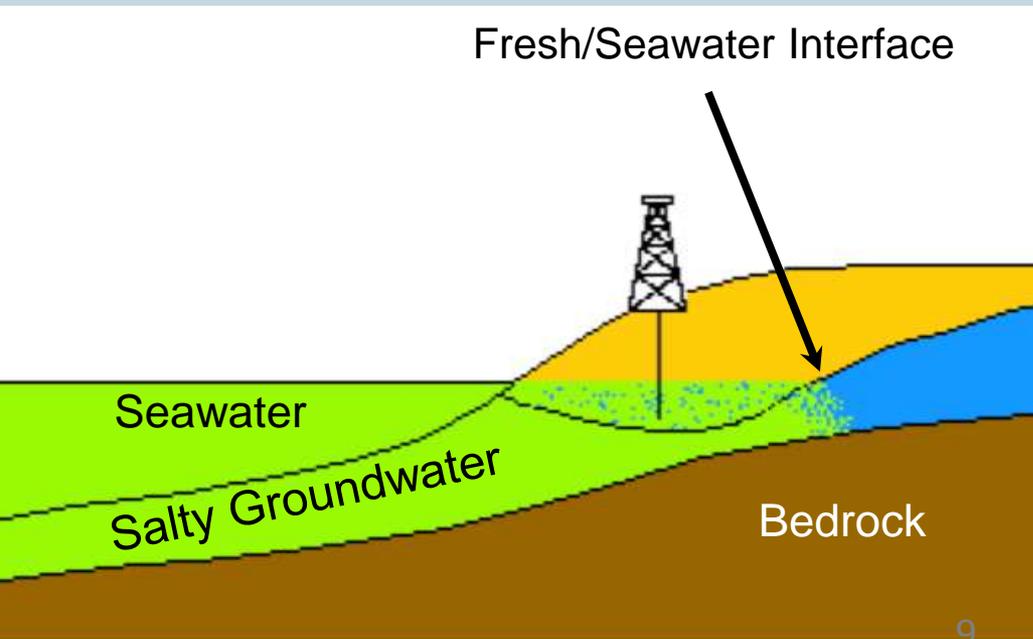
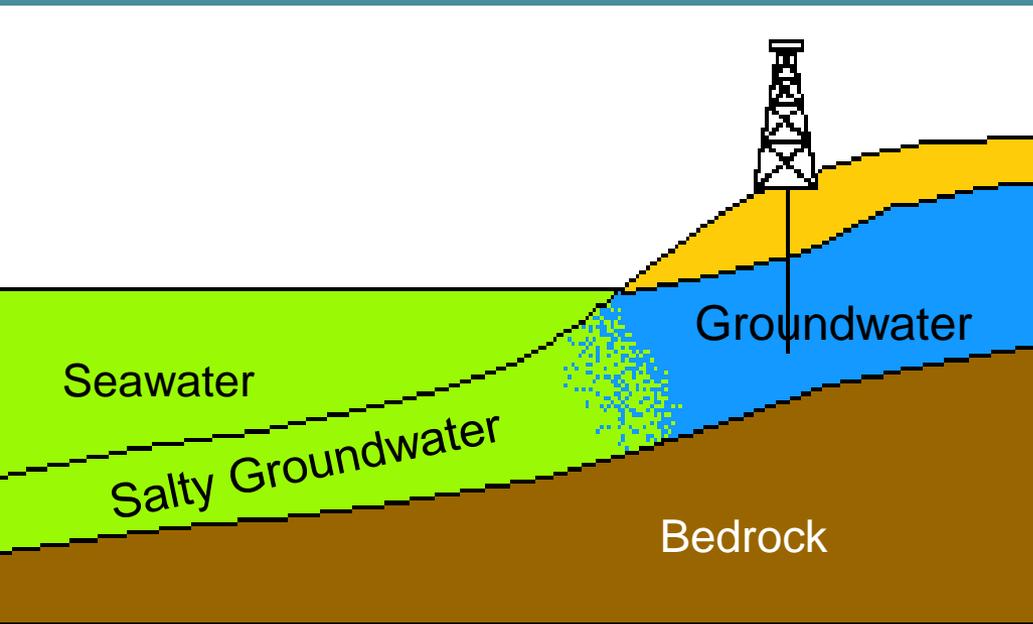


Groundwater at “Potentially Severe Shortage” Since 2008



Our Aquifer is Next to the Pacific Ocean

When fresh water table stays above sea level...
Seawater stays offshore.



Too much pumping can cause the fresh water table to fall below sea level...

Creating opportunity for seawater intrusion.

Seawater Intrusion Would Contaminate Our Groundwater.



Regional Seawater Intrusion Problem

	Los Osos	Five Cities Area	Nipomo Mesa
Aquifer shared with the Pacific Ocean	X	X	X
Decreasing well levels	X	X	X
Pumping freshwater wells below sea level	X	X	X
Seawater intrusion documented	X	X	Not yet...
Freshwater Wells Permanently Lost to Seawater Intrusion	X	Not yet...	Not yet...



Looming Likelihood of Seawater Intrusion

ALL cases of seawater intrusion elsewhere started with:

1. Pumping aquifers beyond the **dependable yield**
2. Consistent dropping of water levels in wells
3. Well levels falling below sea level

We are experiencing all three of these conditions





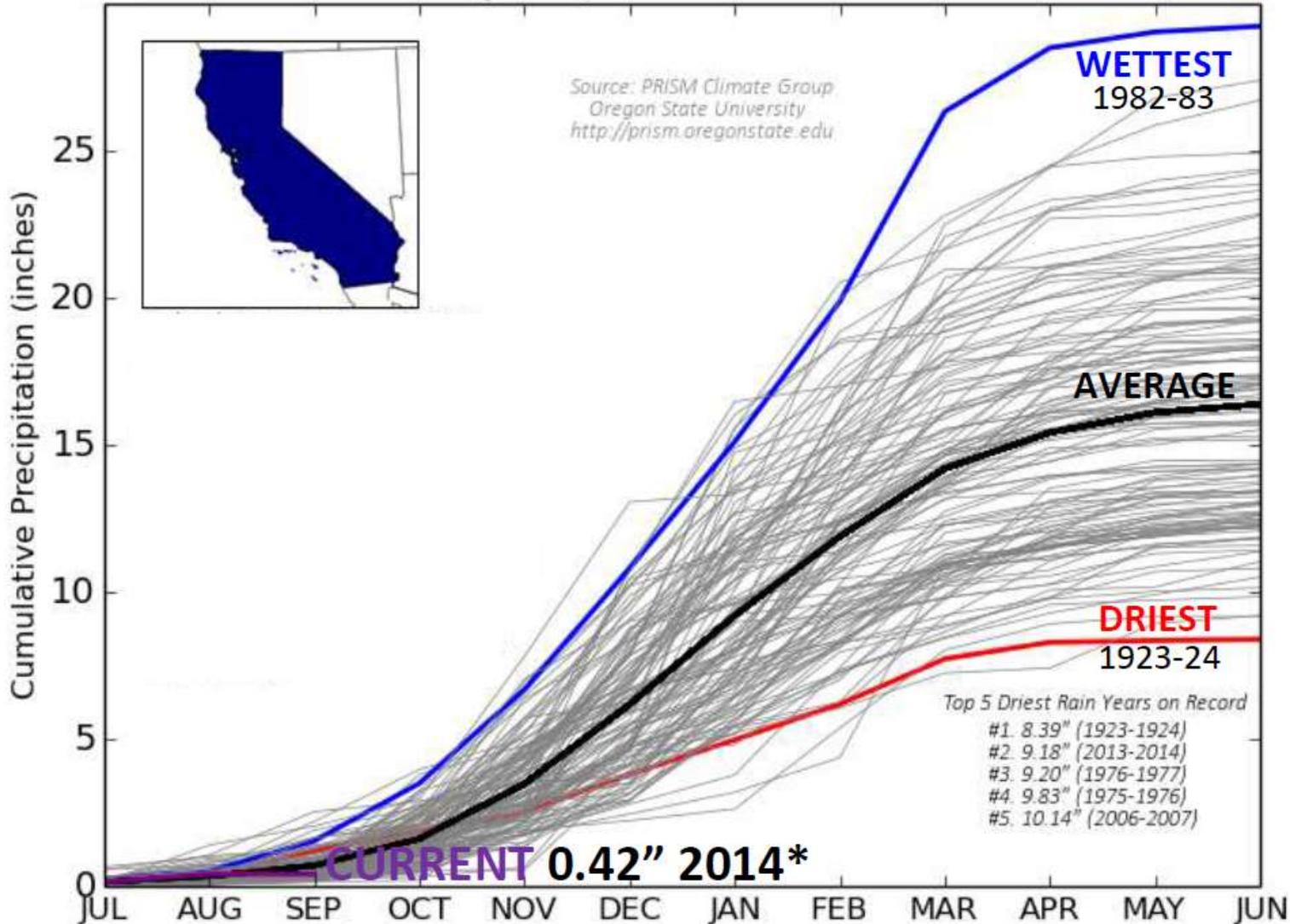
Almost the Entire State is in Extreme Drought or Worse

District is Taking Action



Accumulated Rainfall in California

Preliminary Data, Rain Years Since 1895-1896



*Through August 2014



Assuring Adequate Water Supplies

#1 Obtain Supplemental Supply

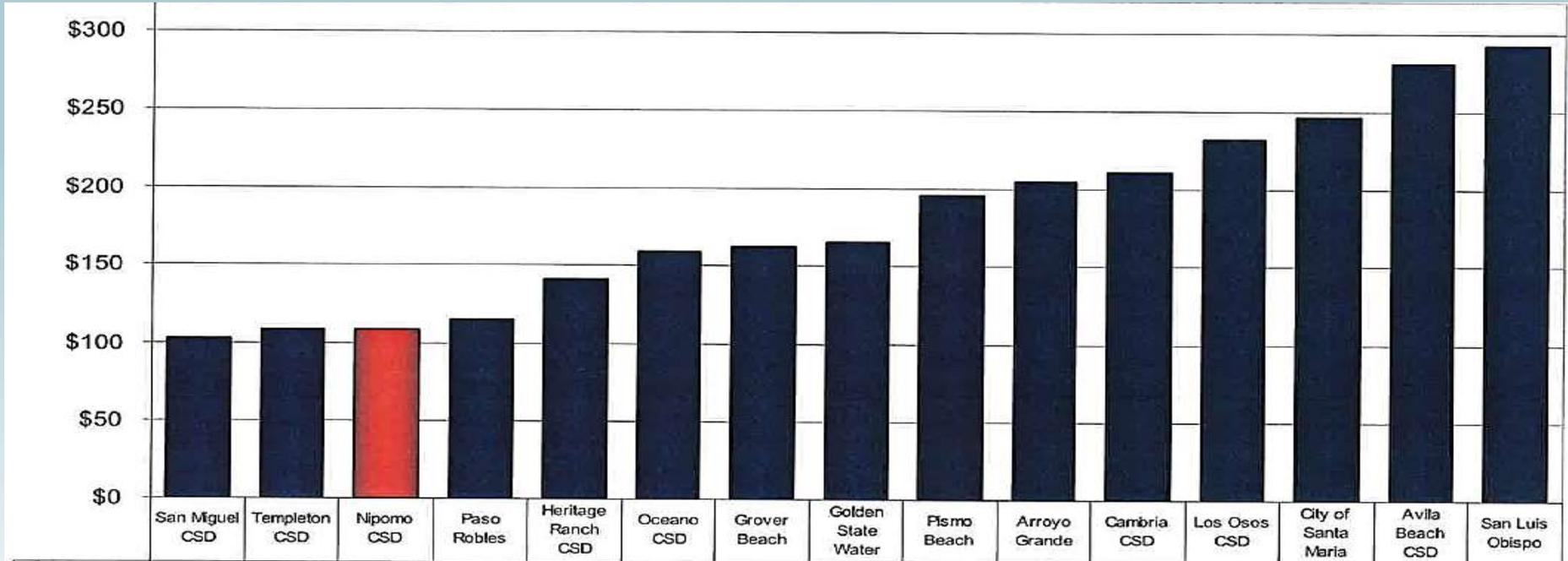
- 3,000 acre-feet of new water to our community.
- Construction is underway and 650 acre-feet of new water supply will be available next year. More in future years.



Assuring Adequate Water Supplies

#1 Obtain Supplemental Supply

- Our rates are among the lowest in the region.



**Need supplemental charge when new water arrives
DETAILS IN A FEW MINUTES**

Additional investment is needed to
bring in remaining 2,350 acre-feet of new supply.



Water Shortage Response Plan

#2 Water Shortage Response & Management Plan

Follows Five Water Shortage Stages tied to court approved groundwater condition measurements

Stage	Trigger	Response
1	All Times	Conservation Education
2	Potentially Severe Water Shortage	More Intensive Education
3	Severe Water Shortage	30% Reduction in Groundwater
4	Severe Water Shortage More Than 1 Year or is Triggered by Both Key Wells Index and Coastal Criterion	50% Reduction in Groundwater
5	Severe Water Shortage More Than 2 Years with Both Key Wells Index and Coastal Criterion Triggered	60% Reduction in Groundwater

Water Shortage Response Plan

#2 Water Shortage Response & Management Plan

POTENTIAL RATES

In the event the District reaches water shortage stages 3, 4 or 5, rates could increase to:

- motivate people to conserve increasing amounts of water; and
- balance financial loss from reduced water sales.



Assuring Adequate Water Supplies

More Details on Proposed Water Shortage Rates

If Another Dry Year in 2015...

- Groundwater may fall to *Severe Level*
- This may trigger stages 3, 4, or 5 of water shortage response plan – and water shortage rates could be adopted in early 2015
- Water shortage rates would incentivize customers to further reduce their usage and to make up for the revenue loss from reduced water sales.



Water Shortage Response Plan

#2 Water Shortage Response & Management Plan

Also Following State Mandated Water Waste Prohibitions

Water Waste is Prohibited – Examples of Water Waste:

Washing down driveways
and sidewalks

Excessive watering of landscapes or
watering that causes excess runoff

Using a hose without a shut-off nozzle
to wash vehicles

Using potable water in a fountain
unless water is recirculated



Assuring Adequate Water Supplies

3 Unified, Regional Program

Collaborating with

- neighboring water suppliers
- the County of San Luis Obispo
- the Groundwater Court

to ensure an effective and coordinated Basin wide water shortage response that all participate in



Assuring Adequate Water Supplies

4 Conservation Promotion

Advertisements

Newsletters
And more...

Banners

Web



Assuring Adequate Water Supplies

#4 Conservation Promotion

Saving Water Also Saves Money

- NCSD has a 4-tiered rate structure
- The rate structure rewards conservation and penalizes waste
- Board of Directors sets goal for 30% reduction in pumping



**Save Water, Save Money,
SAVE OUR GROUNDWATER**

Conservation is
your responsibility.

**REDUCE
YOUR USE!**

www.ncsd.ca.gov



Nipomo Community
Services District

Assuring Adequate Water Supplies

#4 Conservation Promotion

Customers Cut Water Use Over 15% in July
Thank You!
But We Need a 30% Cut Back

Most water usage is from outdoor landscaping.



www.slowaterwiselandscaping.com

Must Implement Effective Water Shortage Plan: Cutbacks in Use and Bring in New Water

These Actions Are Designed to Alleviate or Prevent

- **Seawater Intrusion - Contaminated Groundwater**
- **Permanent Loss of Fresh Water Wells**
- **Extreme Water Rationing**
- **Prolonged Water Shortages**
- **Significant Negative Property Value Impacts**



Questions?

