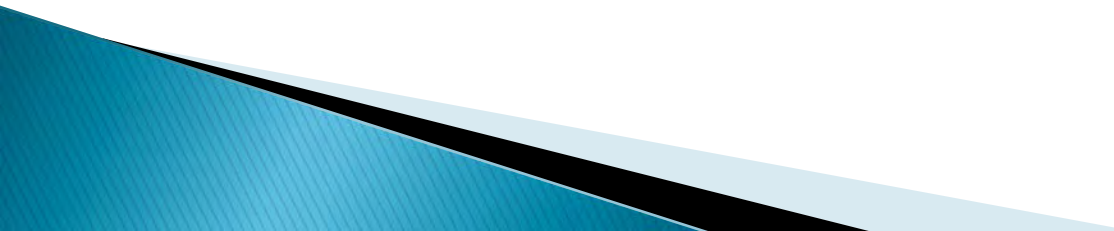


The Effects of the Drought on Fresno County

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Trouble in Fresno County?

- ▶ Yes – we are known as the bread basket of the world.
 - ▶ Without water or dwindling supply we are in trouble like everyone.
 - ▶ Raw data from DPH will show how drastic the issue is.
 - ▶ Ag and domestic water well data
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Definition

▶ Ag Wells

Water wells used to supply water only for irrigation or agricultural purposes.

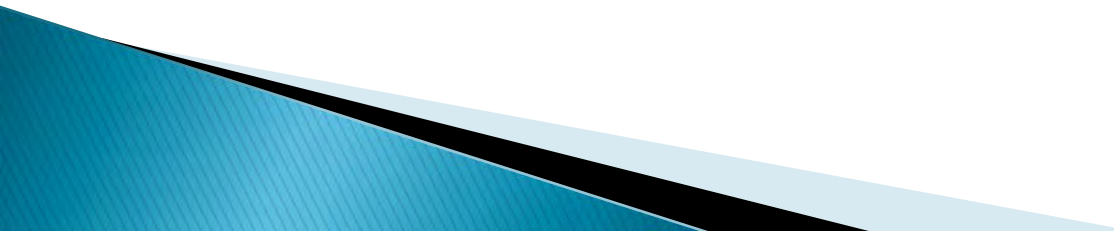
Ag Well Data

<u>Year</u>	<u>New</u>	<u>Replace</u>	<u>Total</u>
▶ 2010	117	13	120
▶ 2011	88	20	108
▶ 2012	174	19	193
▶ 2013	294	51	345
▶ 2014	535	165	700
▶ 2015	731	224	955
▶ 2016	192	64	256

Definition

▶ Individual Domestic Well

A water well used to supply water for the domestic needs of an individual residence or system of four or less service connections.



Domestic Well Data

▶ <u>Year</u>	<u>New</u>	<u>Replace</u>	<u>Total</u>
▶ 2010	124	75	199
▶ 2011	81	42	123
▶ 2012	96	49	135
▶ 2013	149	162	311
▶ 2014	275	257	532
▶ 2015	465	297	762
▶ 2016	79	0	79

Costs

▶ Ag well costs

- ▶ 300 – 600 feet approx. \$130/ft
- ▶ 700 – 1,000 feet approx. \$200– \$300/ft

▶ Domestic Well Costs

- ▶ Approximately \$40/ft

SGMA

- ▶ Sustainable Groundwater Management Act – Directs DWR to identify basins and sub basins in conditions of critical overdraft.
- ▶ Impacts Include:
 - Seawater Intrusion
 - Land subsidence
 - Groundwater depletion
 - Chronic lowering of groundwater levels

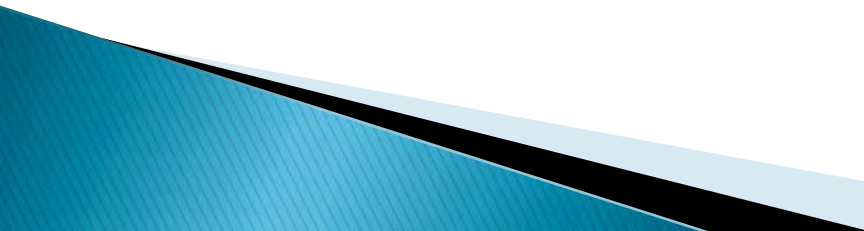
SGMA DATES

- ▶ High or medium and critically over drafted basins shall be managed under a groundwater sustainability plan by January 31, 2020.
- ▶ All other high and medium priority basins must be managed by the same plan but have till January 31, 2022.

Why So Long?

- ▶ Lots of agencies and groups are involved in this complex and diverse plan over 300 plus.
 - Irrigation Districts
 - Industry
 - Farmers
 - Environmental Groups
 - Safe Water Drinking groups
 - Many more.....

Implications

- ▶ Water table is still dropping due to shortage
 - ▶ Land is barren, no water, no ag, no food
 - ▶ Food production on a decline, serious issue
 - ▶ People can't afford the price to deepen or drill a new well.
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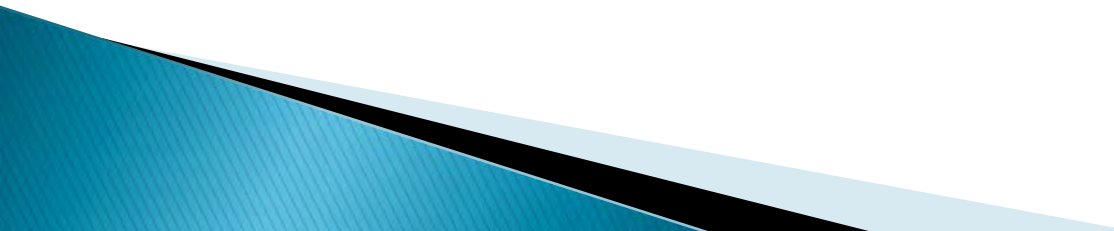
What To Do?

- ▶ We must all still conserve
- ▶ How?
 - Shorter showers
 - Don't wash driveways
 - Don't water or overwater lawns
 - Full loads of clothing for wash
 - Ask for water if only needed – out eating
 - Don't run water while brushing or shaving
 - Every drop is precious

Environmental Impacts

- ▶ Huge Environmental impact with water shortage:
 - Global warming issues (no cool down)
 - Health issues – asthma, air pollution
 - Food prices – Cost
 - Import vs Export – Standards diminished?
 - Family Farms – In jeopardy
 - Obesity – Can't cook, fast food stop

Future

- ▶ Our old ways of doing things is gone
 - ▶ Ag – Converting to drip system, efficient soil monitoring devices for water saturation results. Efficiency and cost reduction key.
 - ▶ Domestic – We are now charged per gallons used instead of flat rate per residence. Metered
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Questions



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