USDA, NRCS Toolbox (sample)

<table>
<thead>
<tr>
<th>Farmers’ Challenges</th>
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<tr>
<td>Drought, Limited Water Supply</td>
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<tr>
<td>Farmer can apply water more uniformly stretching their limited water supply.</td>
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Conservation Practice 442, Sprinkler Irrigation System

Conservation Practice 441, Micro (Drip) Irrigation System

Conservation Practice 449, Irrigation Water Management

Small Watershed Protection Program (PL-566)

Provides technical and financial assistance to water and irrigation districts who serve farmers and ranchers to:

• Improve Water Supply for Water Districts
• Improve Flood Control and Protection
• Increase Groundwater Recharge
• Increase Water District System Efficiency

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Helping California’s Agriculture Manage Water 2013 - 2017

Key Water Regulations and How NRCS Helps California Agriculture

Irrigated Lands Regulatory Program (ILRP)
California State Water Resources Control Board

• Regulates discharge from farm fields to protect ground and surface water quality
• Requires information from farmers to demonstrate compliance
• Requires monitoring / follow up corrections of farmer
• Applies to 40,000 farmers and 6 million acres

Sustainable Groundwater Management Act (SGMA) California Department of Water Resources

• Establishes groundwater management framework
• Balances pumping/recharge to halt overdraft
• May limit pumping by farmers

Fred Fisher
Alfalfa - Tulelake, Calif.

Frank Ferreira
Almonds - Fresno, Calif.

2013-2017 Environmental Quality Incentives Program (EQIP) Assistance to Valley Farmers for Water-related Projects

| Farmers Who Applied for Help | 3,596 |
| Farmers Funded | 2,699 (75%)* |
| Acres | 263,229.21 |
| Dollars to Farmers | $139,699,357.52 |

*This 75% rate is double the California average for EQIP Applications. This was enabled by the special drought funding.
Helping Farmers & Ranchers With Drought & Regulations

Kalfsbeek Family
Colusa, Calif.

- All three generations of this farming family are active on the farm.
- Implement a gradual draw down of water in fields to provide an additional 30 days of habitat to waterfowl.
- Flattened rice levees to provide ample nesting ground.
- Received conservation funding to protect wildlife in the offseason.

Raghbir Atwal
Yuba City, Calif.

- First-generation farmer grows prunes in the Sacramento Valley.
- Converted 80 acres to micro-jet sprinklers.
- Installed an efficient pumping station.
- Installed moisture meters to help target water use and the management of application.

Cannon Michael
Los Banos, Calif.

- Sixth-generation farmer - produces a diverse mix of crops on 11,000 acres.
- Installed a micro-drip system on row crops.
- The project surpassed a 20-percent water savings on 4,200 acres.
- Member of numerous boards including his local RCD.

Antonio Alberto
Modesto Calif.

- Third-generation dairy family, 1,500 milking cows.
- Upgraded pipelines to prevent leaks and installed concrete structures to manage flow rates.
- Land-leveled corn fields to prevent runoff.
- Installed concrete pads to manage manure and silage storage.

Simon Sihota
Fresno, Calif.

- Descendant of a farming family dating back to the 18th Century.
- Grows almonds and winegrapes on 500 acres.
- Installed moisture sensors to target water use.
- Enhanced pump and emitter efficiencies.

Josh Sheppard
Bella Vista, Calif.

- Fourth-generation farming family grows rice and walnuts.
- Installed a tailwater recovery system to recycle irrigation water.
- Reincorporates his crop residue, and utilizes winter flood up for wildlife.