

Climate Smart Agriculture

Farmer Perspective to Salt Management

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Don Cameron dcaeron@terrano ranchinc.com

Water Salinity = Soil Salinity

- Salinity in soil begins with water
- Water quality ultimately equates to soil salinity
- Equilibrium will be achieved over time



Water Sources in California



- Surface water
- Groundwater
- Reclaimed water

Irrigation Techniques For California Farmers

- Flood Irrigation
- Sprinkler
- Drip Irrigation
- Combination



How Do We Adapt?

- Treat Water
- Treat Soil
- Crop Choice
- Variety and Rootstock
- Micro Irrigation-
Micro Soil
Environment
- Vary Irrigation
Practice



Water Treatment

- Gypsum
Machines
- Sulfuric Acid
- Sulfur Burner
- Carbolic Acid
- Gimmicks



Soil Treatment

- Soil Sulfur
- Gypsum
- Compost
- Manures
- Combination of above



Crop Choice

Grapes



Pistachios



Variety and Rootstock

Almond Varieties



Grafted Tomatoes



Micro Irrigation

Drip or Micro Sprinkler

- Micro Soil Environment
- Pushes Salts Away From Root Zone
- Creates Salt Line
- Allows Normal Plant Growth



Vary Irrigation Practice

My Practices

- Drip Irrigation 3-4 years
- Crop Rotation to Carrots or Dehydrator Onions
- Sprinkler Irrigation 1 Season
- Return to Drip





Thank You