2014 Drought Update

Napa County Flood Control and Water Conservation District

Phillip M. Miller, PE
District Engineer
The State Water Project
The State Water Project
National Drought Map

U.S. Drought Monitor

February 25, 2014
(Released Thursday, Feb. 27, 2014)
Valid 7 a.m. EST

Drought Impact Types:

- Delineate dominant impacts
- S = Short-Term, typically less than 6 months (e.g., agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g., hydrology, ecology)

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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

http://droughtmonitor.unl.edu
CA Drought Map

U.S. Drought Monitor
California

February 25, 2014
(Released Thursday, Feb. 27, 2014)
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Drought Conditions (Percent Area)

<table>
<thead>
<tr>
<th></th>
<th>None</th>
<th>D0-D4</th>
<th>D1-D4</th>
<th>D2-D4</th>
<th>D3-D4</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>0.00</td>
<td>100.00</td>
<td>94.88</td>
<td>50.82</td>
<td>73.83</td>
<td>26.21</td>
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<tr>
<td>Last Week</td>
<td>0.00</td>
<td>100.00</td>
<td>94.84</td>
<td>90.88</td>
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<tr>
<td>3 Months Ago</td>
<td>2.61</td>
<td>97.39</td>
<td>94.15</td>
<td>62.53</td>
<td>27.59</td>
<td>0.00</td>
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<tr>
<td>Start of Year</td>
<td>2.61</td>
<td>97.39</td>
<td>94.26</td>
<td>87.53</td>
<td>27.59</td>
<td>0.00</td>
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<tr>
<td>Start of Year</td>
<td>2.63</td>
<td>97.37</td>
<td>95.06</td>
<td>84.12</td>
<td>11.30</td>
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<td>One Year Ago</td>
<td>0.02</td>
<td>99.08</td>
<td>47.13</td>
<td>25.06</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

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Author:
Brad Rippey
U.S. Department of Agriculture

http://droughtmonitor.unl.edu/
Precipitation
Storage
Lake Oroville
Lake Folsom
Lake Shasta
Economic Impact to Ag

Water Restrictions for California Agriculture Threaten the Statewide Economy

- **Drought**: 84% of California’s land area is experiencing severe drought conditions.
- **Water Delivery Restrictions**: 1 million acre-feet lost this year due to pumping restrictions from both the State Water and Central Valley Projects.
- **Low Water Allocation**: Very low or zero federal water allocations are expected for Central Valley farms in 2014.

Water Shortages Cause Near and Long Term Harm for Agricultural Operations

- **500,000+ acres** of suitable farmland will not be planted and lose production in the San Joaquin Valley.
- **Dry Conditions Have Increased Farmers’ Dependence on Groundwater**.
- **1,200 square miles** of farmland with unsustainable groundwater can’t grow food without reliable surface water.

Agriculture Drives Major Economic Activity

- **600,000** jobs statewide directly created by agriculture.
- **7%** of all the jobs in the state are directly or indirectly generated by the agriculture industry.
- **$24.9 million** of California’s farm exports are sold every day in markets across the globe.
- **21%** of the state’s Gross Domestic Product is tied to agriculture and related industries.

Water Restrictions Threaten Agriculture Operations and Reduce the Industry’s Economic Activity

- **$2.8 billion**: in foregone statewide income from jobs lost.
- **6%**: of CA’s total economic activity comes from agriculture.
- **$11 billion**: in annual state revenue.
- **$2.2 billion**: in gross direct and indirect losses to the Central Valley.
- **40%**: of Central Valley jobs are tied to ag production and related processing.

Water Crisis Will Cause a Decline in Trucking, Shipping, Trade and Food Processing Industries

- **95%**: of California’s agriculture is transported by freight.
- **$640 billion**: in exported goods are processed by the ports in Los Angeles, San Diego and Bay Area counties.
- **1.4 million**: jobs are generated by the movement and exporting of goods through California ports.
- **640,000**: people work in trade-related jobs in the Southern California Region.
- **Over 50,000**: food processing jobs in CA are directly tied to agriculture production.

Sources:
Public Outreach

www.saveourh2o.org
Public Outreach

SPREADING THE MESSAGE

WEBSITE

OUTREACH

Drought 2014: Resources

Program News

Be a Partner

Sprinklers 101
Public Outreach

RADIO ADS
• Five major markets:
  (Metro Los Angeles, San Francisco/Bay Area, San Diego, Sacramento & Fresno)

• 14 Small Markets
  (Riverside, Modesto, Bakersfield, Chico, San Luis Obispo and more)
Public Outreach
This Isn’t The End
Closing

• Prepare for the worst, hope for the best.
• All we can do as individuals is conserve.
• As bad as it might be, it could be worse.
  (Think of The Big One)
Questions?