The University of California
Agricultural Issues Center

• AIC mission: provide broadly-based and objective information on agricultural issues and their significance for California
• We study a variety of practical topics with an emphasis on public policy and economic concerns
• A small staff that draws on researchers from throughout the UC system and beyond and a half dozen associate directors
• An active and committed advisory board
• Located at UC Davis since its creation in 1986
• http://aic.ucdavis.edu/
The Measure of California Agriculture

An AIC compilation of useful statistics from various sources for those interested in California agriculture and its role in the economy

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California has a variety of climate and land use zones. This natural diversity allows diverse agriculture to thrive. A relatively small share of the total land mass is suitable for high-productivity irrigated crops.
California agriculture is diverse, by receipts and acreage.

**Cash receipts**
- Dairy: 16%
- Other livestock: 10%
- Fruits: 23%
- Tree nuts: 14%
- Vegetables and melons: 19%
- Nursery/greenhouse: 10%
- Grains and cotton: 9%

**Acreage**
- Hay and forage crops: 38%
- Grains and cotton: 19%
- Fruits: 15%
- Tree nuts: 13%
- Vegetables and melons: 9%
- Nursery/greenhouse: 0.004%
Geographic diversity of alfalfa acreage

- Alfalfa acreage is not concentrated and is spread across climate zones within the state
- Production occurs from Shasta County in the North to Imperial County in the South
Value of agricultural exports commodity, by group and destination,
Agricultural exports about $14 B port value

Commodity Group
- Animal Products 10%
- Field Crops 16%
- Fruits 20%
- Wine 7%
- Vegetables 7%
- Tree Nuts 27%
- Other products and mixtures 13%

Destination
- Canada 23%
- European Union-27* 18%
- China / Hong Kong 11%
- Japan 9%
- South Korea 5%
- Mexico 6%
- United Arab Emirates 3%
- Taiwan 2%
- India 1%
- Rest of World 20%
- United States 62%
Real (2005) value of California crops and livestock

Field Crops

All Other Crops

Livestock and Poultry

Million dollars (2005=100)

Index of California harvested acreage and real cash receipts,
Gross domestic product from crop and animal production as a share of total gross domestic product in California and the United States, 1963-2009
### Revenue losses from water cost increase and water availability reduction for Southern California farming

<table>
<thead>
<tr>
<th>IMPLAN Sector (available categories)</th>
<th>Base Sector Output</th>
<th>Water Cost Increase (75%)</th>
<th>Water Availability Reduction (-25%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton farming</td>
<td>20.2</td>
<td>-20.0</td>
<td>-7.2</td>
</tr>
<tr>
<td>Fruit farming</td>
<td>2,506.3</td>
<td>-108.6</td>
<td>-278.3</td>
</tr>
<tr>
<td>Vegetables and melons</td>
<td>1,839.5</td>
<td>-25.5</td>
<td>-55.5</td>
</tr>
<tr>
<td>Tree nut farming</td>
<td>16.5</td>
<td>-0.5</td>
<td>-0.6</td>
</tr>
<tr>
<td>Greenhouse, nursery and floriculture</td>
<td>2,122.5</td>
<td>-29.4</td>
<td>-64.0</td>
</tr>
<tr>
<td>Oilseed, grain and other</td>
<td>1,054.2</td>
<td>-295.6</td>
<td>-193.9</td>
</tr>
<tr>
<td>Livestock and livestock products</td>
<td>1,511.4</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9,070.6</strong></td>
<td><strong>-479.6</strong></td>
<td><strong>-599.5</strong></td>
</tr>
</tbody>
</table>
Economic impacts of a 75 percent increase in irrigation water costs in Southern California

<table>
<thead>
<tr>
<th>Impact Type</th>
<th>Employment</th>
<th>Value Added</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Effect</td>
<td>-1,829</td>
<td>-184.9</td>
<td>-479.6</td>
</tr>
<tr>
<td>Indirect Effect</td>
<td>-2,294</td>
<td>-171.3</td>
<td>-288.7</td>
</tr>
<tr>
<td>Induced Effect</td>
<td>-1,951</td>
<td>-166.9</td>
<td>-272.7</td>
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<tr>
<td>Total Effect</td>
<td>-6,073</td>
<td>-523.1</td>
<td>-1,040.9</td>
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</table>
Economic impacts of a 25 percent decrease in irrigation water availability in Southern California

<table>
<thead>
<tr>
<th>Impact Type</th>
<th>Employment</th>
<th>Value Added</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jobs</td>
<td>Million $</td>
<td></td>
</tr>
<tr>
<td>Direct Effect</td>
<td>-2,655</td>
<td>-279.7</td>
<td>-599.5</td>
</tr>
<tr>
<td>Indirect Effect</td>
<td>-2,861</td>
<td>-191.7</td>
<td>-322.6</td>
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<tr>
<td>Induced Effect</td>
<td>-2,856</td>
<td>-244.3</td>
<td>-399.0</td>
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<tr>
<td>Total Effect</td>
<td>-8,372</td>
<td>-715.7</td>
<td>-1,321.2</td>
</tr>
</tbody>
</table>
Thank you, Dan Sumner
aic.ucdavis.edu