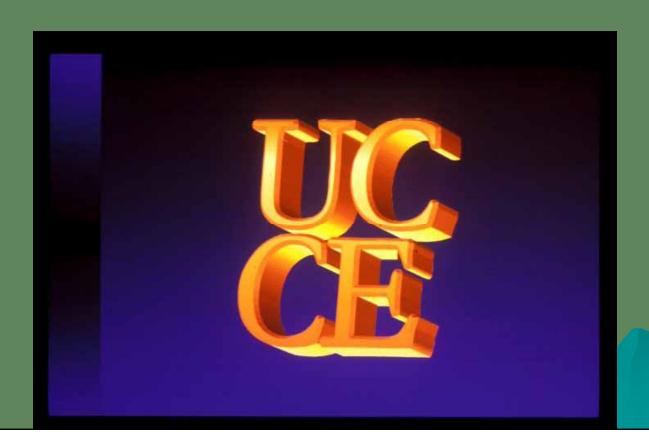
#### **Agriculture And Our Local Economy**

## Maxwell Norton UC Cooperative Extension





# CA farms and closely related processing generate 7% of private sector employment

University of California Agricultural Issues Center (2009)

# Each job in ag production & processing generates 2.2 total jobs

Ag generates 24% of CV private sector employment when you consider all multiplier effects

U C Agricultural Issues Center

#### A \$1B increase in ag production Results in \$2.6B increase in Gross State Product

Every \$B in farm sales generates 18,000 jobs on and off the farm

-UC Agricultural Issues Center



Those who provide goods: Tractors, tires, parts Large equipment, parts Pesticides Irrigation equipment Ladders, buckets Gas, diesel, oil, grease Shop equipment, tools, welders **Fertilizers** Pickups, tires, parts, radios ATC's Office equipment, fax machines Computers, software packages Animal health supplies Feeds and supplements

Natural gas, propane, electricity

#### Is Razzari Ford an Agribusiness?



#### **Merced County:**

2800 farms with a pickup X \$10,000/vehicle

= \$28,000,000 worth of trucks



Those who provide services: Harvesting Bailing, swathing, harrow bed Consultants Irrigation design or installation Engineering Construction **Labor Contractors** Custom services Breeding service Veterinarians Book keeping & accounting On-line data services Banking, insurance, real estate, legal Companies that provide transportation from the farm to the processors (trucking)

#### Ag Processors

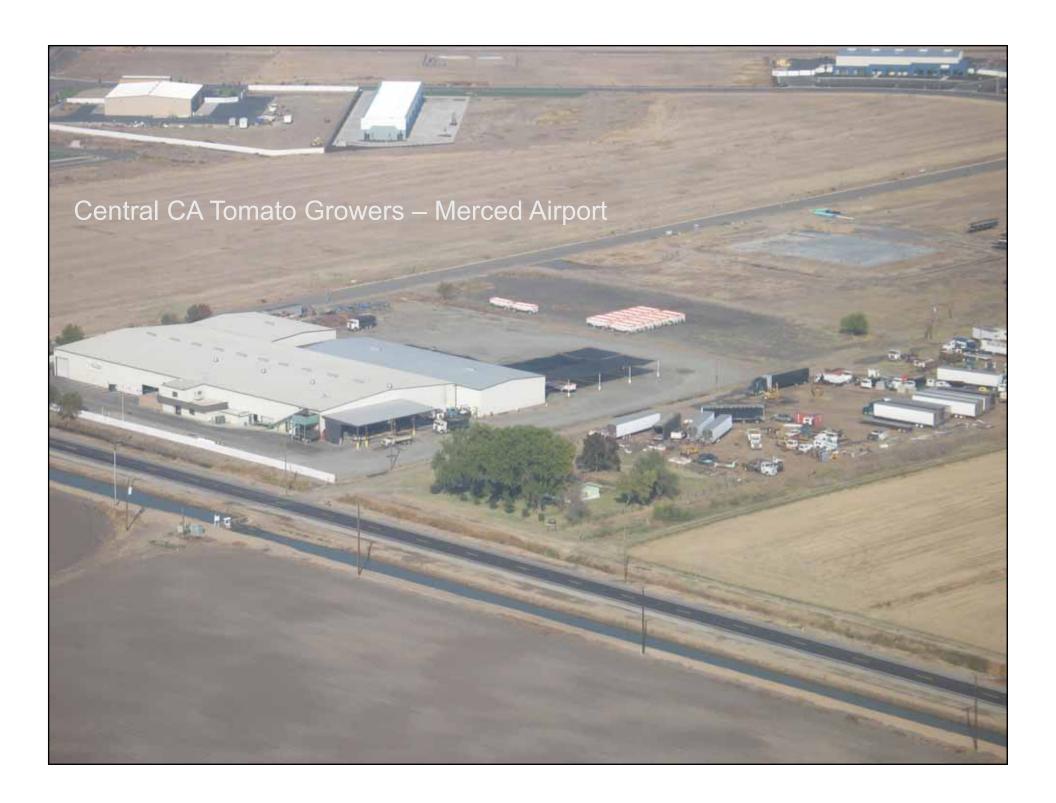
Canneries Almond hullers Nut processors Cheese companies Wineries Meat processors Cotton gins Tomato processors Container manufacturers Dairy processing Frozen foods Vegetable and melon packer/shippers



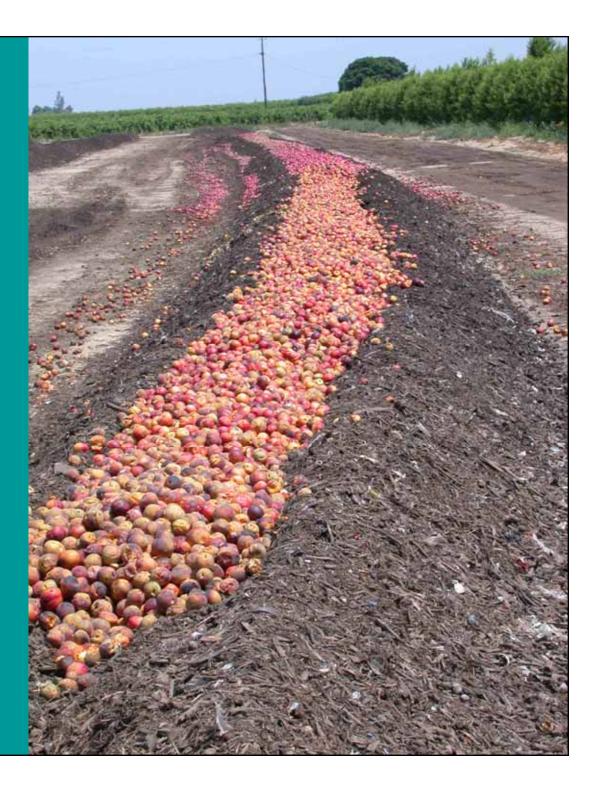








Companies that process waste into useful byproducts



### Companies that provide transportation and distribution to wholesalers and retailers

Wholesale and retail distributors (Save Mart, McLane Pacific)





About ¼ of CA ag production is exported

In 2010 ag exports were valued at \$14.7B

Top 5: Canada, EU, China, Japan, Mexico

For each billion in ag exports 27,000 jobs are created in the state.

\$1 in exports ⇒\$1.40 in economic activity

University of California Agricultural Issues Center

The introduction of exotic pests and diseases threatens to close California's lucrative export markets.

Improved exclusion efforts and tighter border controls = best way to protect markets.

#### **WATER = JOBS**

Water for food, fiber, forage and fuel production

Agricultural processors such as Gallo, Dole, Foster Farms, Ingomar Packing, etc. need > 1 Million gallons/day to operate

All water used gets treated and reused for irrigation or wildlife refuges

Some housing projects have been halted while waiting for court rulings on water issues.

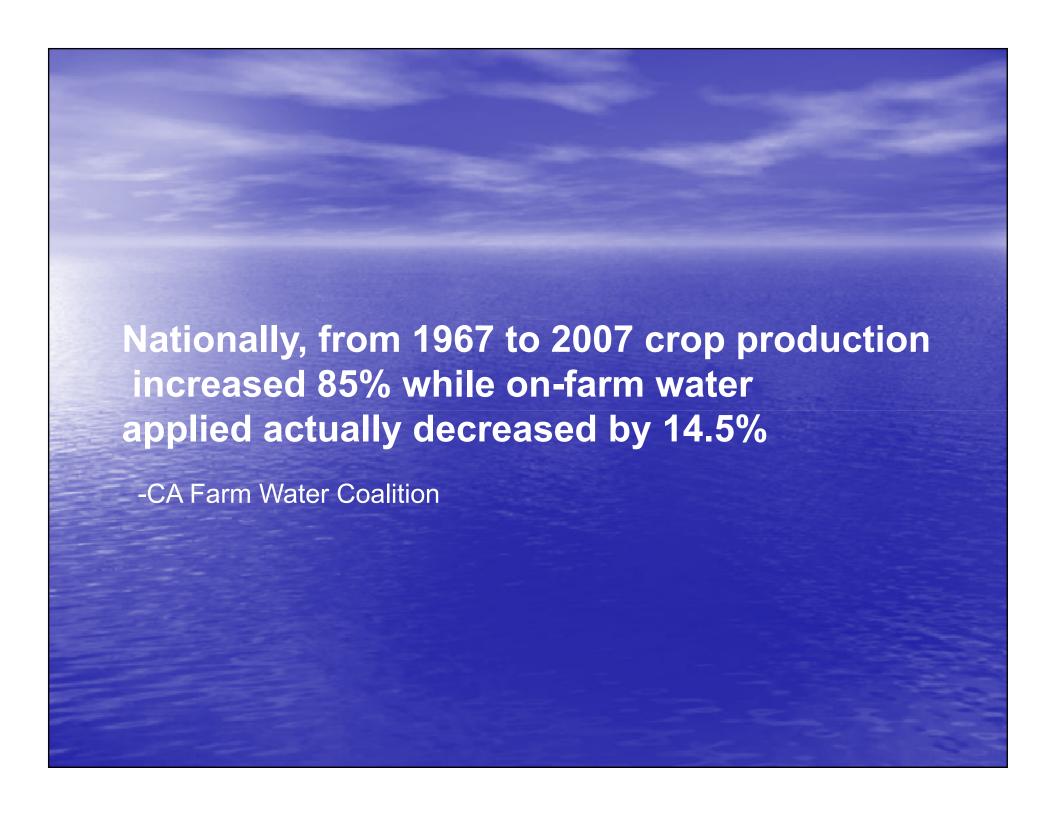
Water captured in reserviors or pumped from ground:
Environmental uses 48%
Agriculture 41%
Urban areas 11%

Cash return for applied water increased 1%/year from 1960 to 1995

**UC Agricultural Issues Center** 



Supply & cost of water influences ag output and ultimately food processing



Snow falls on the mountains and thaws

Mountains: wildlife, recreation

Reservoir: fish, recreation, flood control

Valley Rivers: fish, recreation

**Irrigation** system: crops → ground water recharge

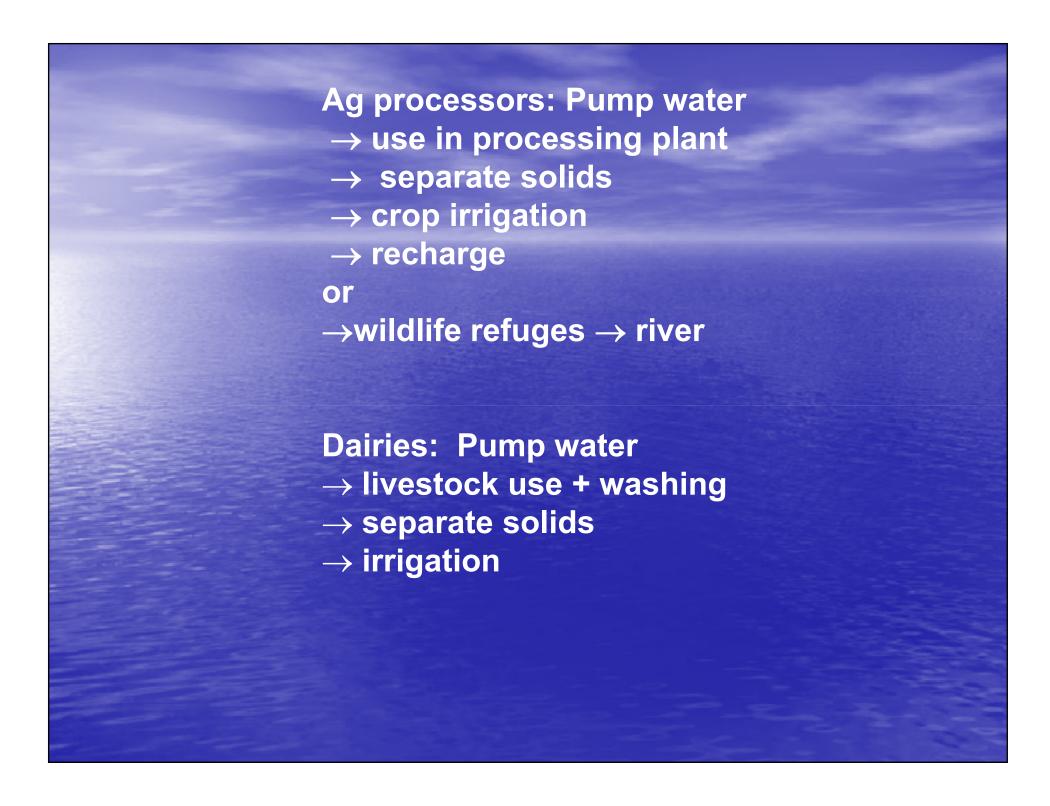
Tail water reused or used for wildlife

Groundwater pumped for residential, industrial, municipal and recreational uses

Treated and re-used for irrigation and wildlife

Ultimately drains into SJR where benefits fish and wildlife

**Delta & Pacific Ocean** 



Farms provide a significant portion of wildlife

habitat on both range land and crop land.

Many do this intentionally

-Utah State University

Agriculture can be an important wildlife **food** source before and after harvest as some of the crop is often left behind

# Range lands serve important role of watersheds

Crop lands & un-lined canals can be important to cities for ground water recharge

Contributions of most productive farmlands:

- Economic engine for region
- Employment on and off the farm
- Ag exports important for reducing US trade deficit
- ☼ Open space
- Misc. environmental benefits

### Only about 25% of California's land is in some type of agriculture.

About 50% is open pasture and range, about 40% is croplands remainder is woodlands and other categories.

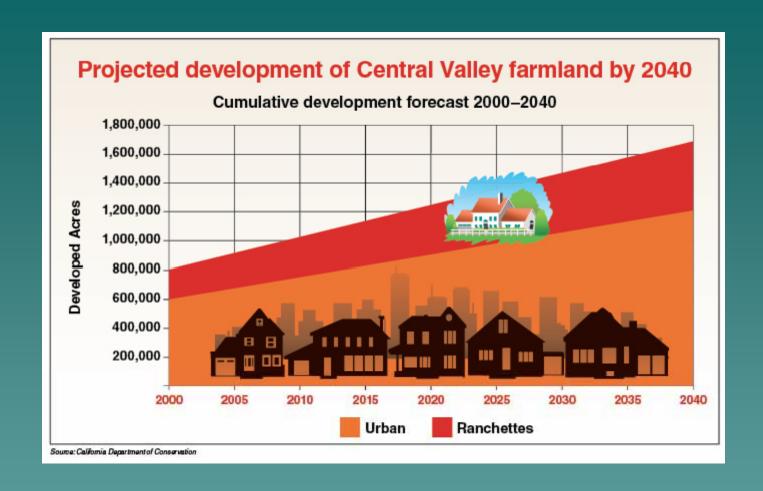
Only 10% of the state is croplands

University of California Agricultural Issues Center

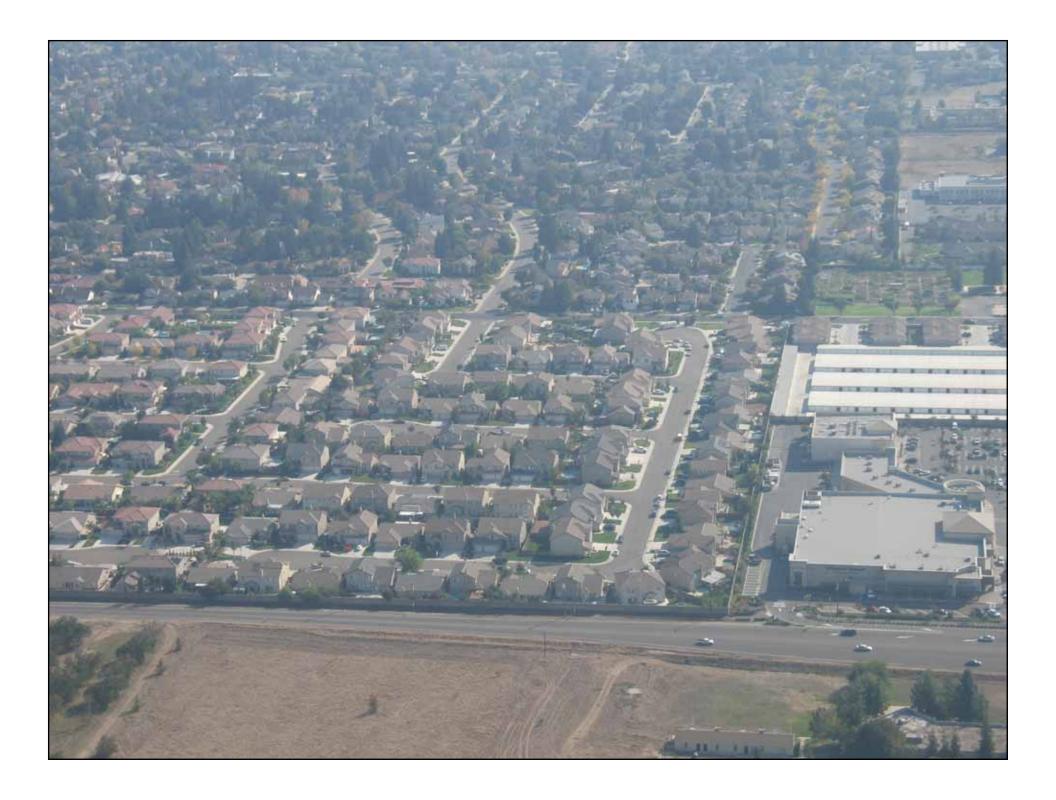
#### How productive farmland is lost:

- 1. urban growth
- 2. splitting up into ranchettes
- 3. conflict with residential neighbors
- 4. can't compete for water
- 5. taken for wildlife reserves





Competing for land <u>and</u> water



Why is a domestic source of food important?

Safer from: Chemical hazards
Biological hazards

Generally produced in a more environmentally friendly manner

Workers treated more humanely

Does farmland play a role in national security?

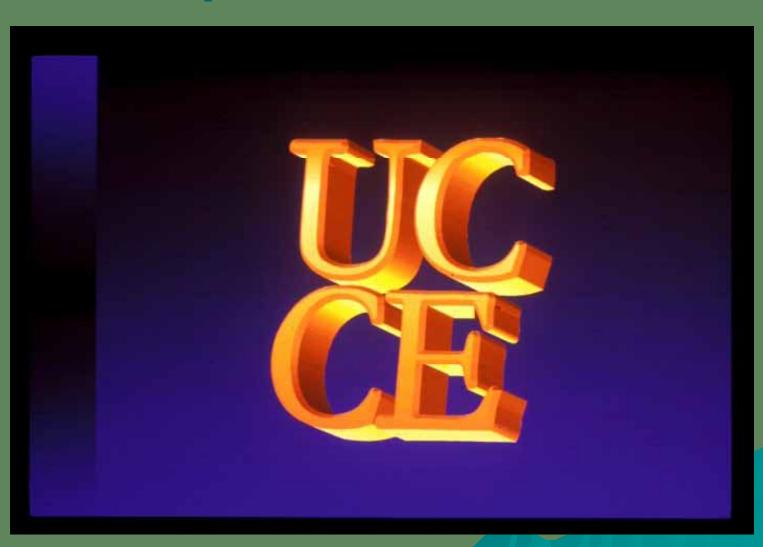
We are dependent on foreigners for oil

Dependent on others for cooperation in the war on terrorism and other foreign policy objectives.

Can we be dependent on external sources for any of our critical food needs?

Seemingly small events can be disruptive to our economy.

# **University of California Cooperative Extension**



'...we have to concentrate on feeding ourselves. We have to look at our food supply and keep it safe, and more importantly, make sure that is stays here in this country."

-Army Colonel Cheryl Smart,
Assistant professor of national security studies

More info: cemerced.ucanr.edu >Agriculture's Impact