



# Sacramento Valley Perspective

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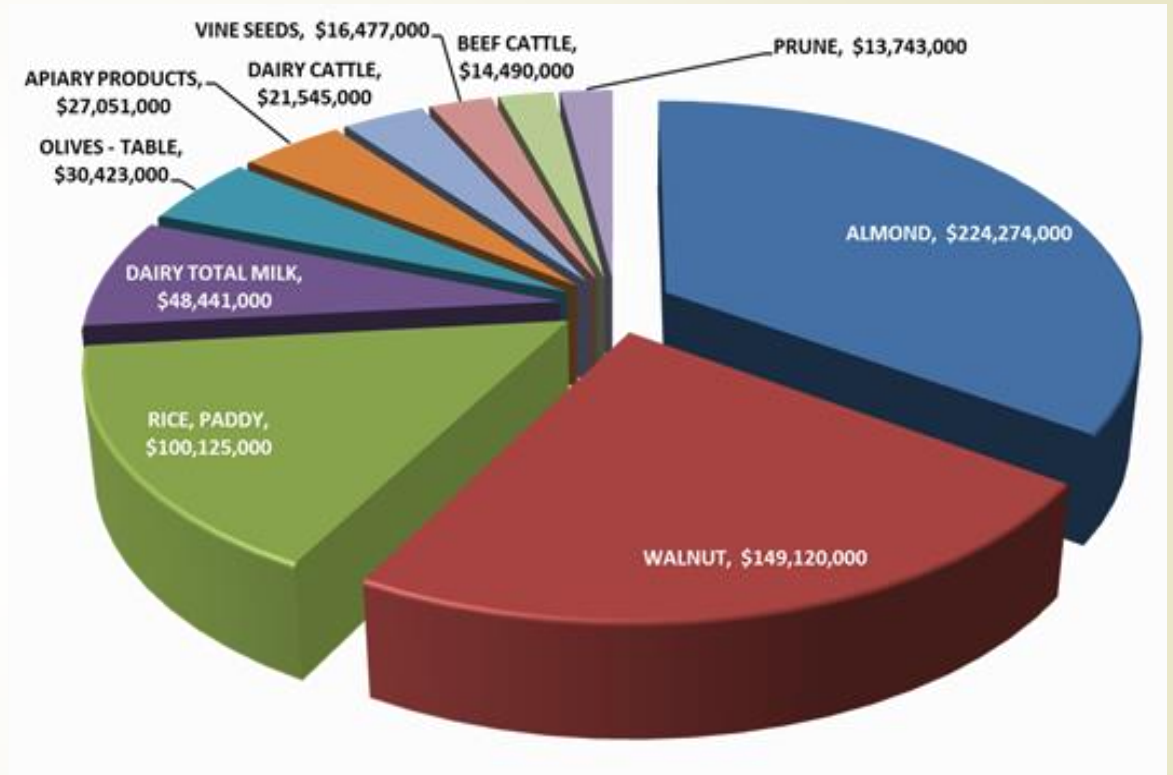
# An Overview of Glenn County Agriculture

- ▶ Glenn has a population of 28,085 people
- ▶ 5% of the population are farmers/ranchers
- ▶ Ag based economy
- ▶ Ag Burning is closely monitored by the Air District to coordinate burning activities by working with growers to meet their agricultural waste disposal and disease pressure reduction needs, while ensuring compliance with permit guidelines and community considerations.



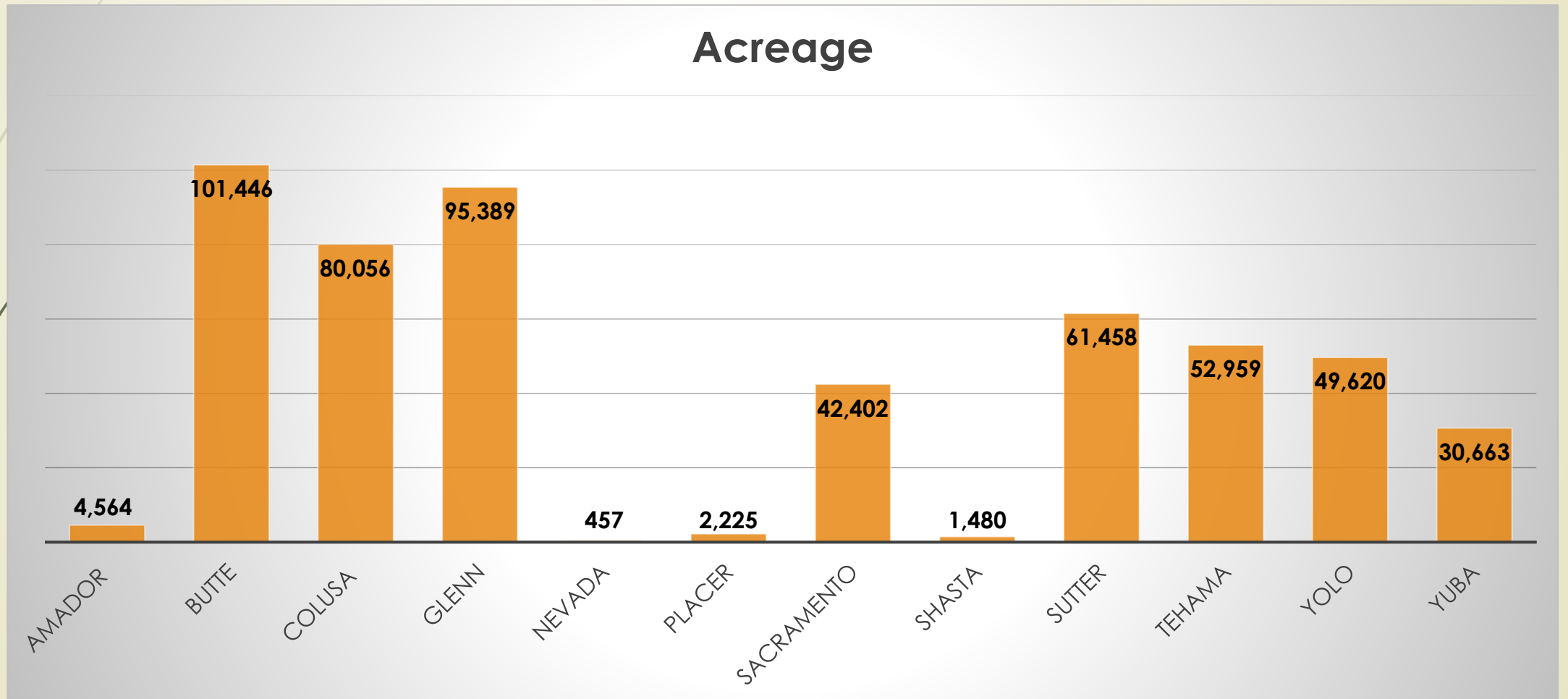
# Glenn County Agriculture at a Glance

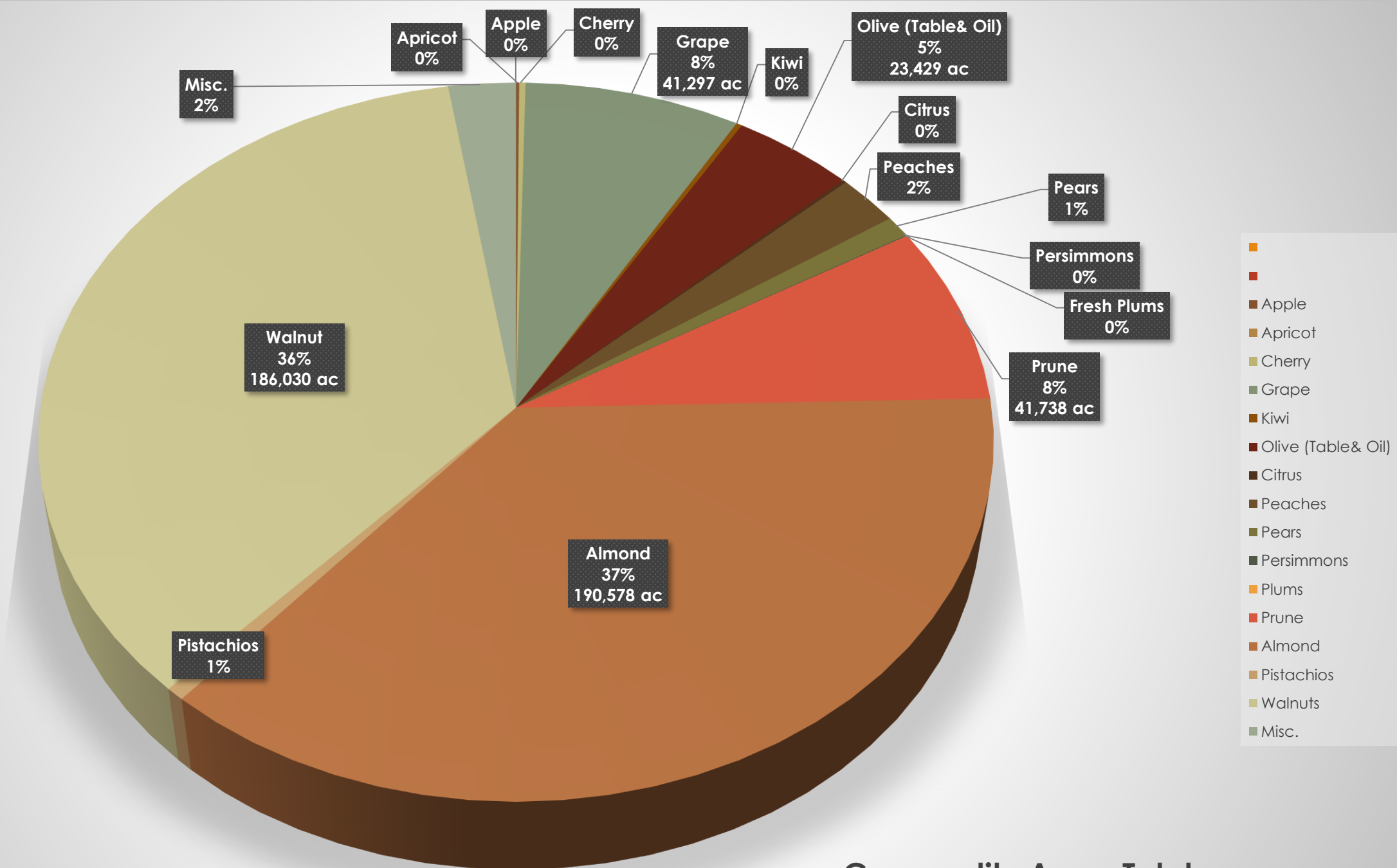
- ▶ One of the leading rice counties in the State
  - ▶ 95% of rice produced in California came from the Sacramento Valley
  - ▶ Colusa, Sutter, Butte and Glenn are the leading counties
- ▶ 482,718 acres in crop production
- ▶ 1,000 ag burn permits issued on average each year by Air District



2016 Glenn County Crop Report

# Total Fruit & Nut Acres Harvested in Sacramento Valley Counties





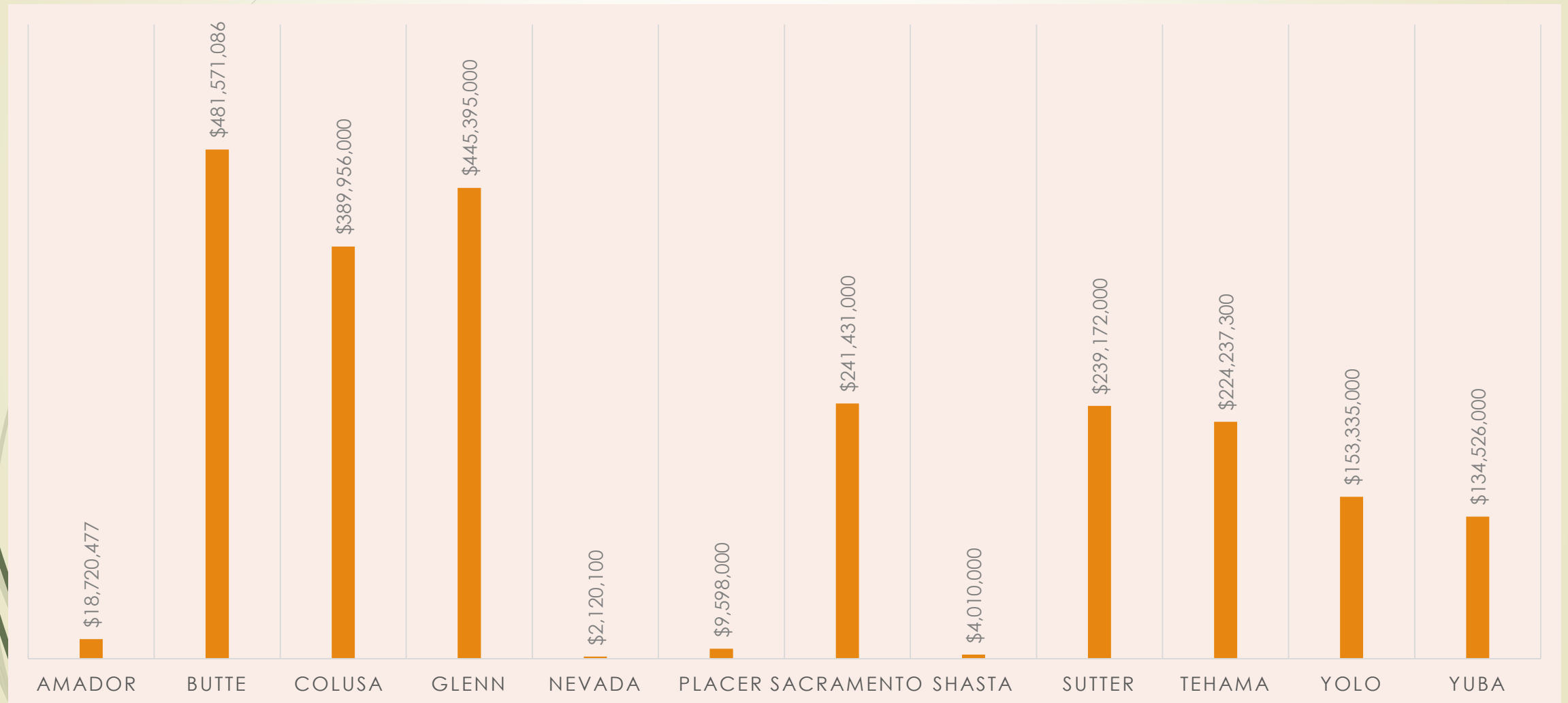
Commodity Acres Total

# Top Fruit & Nut Crop Commodities in Sacramento Valley

Amador
Butte
Colusa
Glenn
Nevada
Placer
Sacramento
Shasta
Sutter
Tehama
Yolo
Yuba

Commodity	Commodity Acres Total	Value Totals
Fresh Plums	14	\$25,000
Persimmons	173	\$1,340,000
Apple	617	\$2,697,000
Citrus	670	\$3,615,450
Kiwi	1,118	\$14,079,785
Cherry	1,221	\$5,339,000
Pistachios	3,021	\$17,204,990
Pears	5,080	\$41,244,000
Peaches	12,035	\$90,739,875
Misc.	12,698	\$65,022,757
Olive (Table & Oil)	23,429	\$90,151,948
Grape	41,297	\$218,275,840
Prune	41,738	\$117,427,278
Walnuts	186,030	\$781,182,040
Almond	193,578	\$895,727,000

# Total Value of Fruit & Nut Crops Throughout Sacramento Valley Counties



# Average Lifespan of Top Orchard Crops

- Individual trees may be productive for a long time, but whole orchard productivity has to be taken into economic consideration.

Commodity	Average Lifespan (years)
Almond	25 – 30
Grape	20 – 25
Olive – Table & Oil	40 +
Prune	30
Walnut	30 - 35

Lifespans ranges  
sourced from UC Davis  
Cost Study Files:  
<https://coststudies.ucdavis.edu/en/current/>

# Replant Estimates

- Sacramento Valley bearing acres fruit & nut commercial production acres: 522,719
- Estimate that 5% of trees are being removed annually
- Equates to about 26,135 acres of trees removed annually, needing to be disposed
- This estimate has the potential to increase as many trees are reaching their top economic viability and replants will began.



# Orchard Disposal Methods

- ▶ Field Burning
  - ▶ Biomass Co-generation Plant
  - ▶ Grinding/Shredding & Incorporation
  - ▶ Whole Orchard Tree Incorporation (Iron Wolf)
- Considerations:
    - Field burning is the least expensive option and an available option in the Sacramento Valley
    - If bio-mass co-generation plants are available the amount paid for the orchard waste product has greatly decreased and no longer off-setting the orchard removal cost
    - UC Extension studies around whole orchard recycling are on going but still much work needs to be done. Encouraging results from grinding/chipping and soil incorporation have been seen.



## Grinder Demo Shows Orchard Removal



# CalPlant1 LLC

- ▶ Medium density fiberboard plant
- ▶ Need 80,000 acres of rice straw to operate for one year
- ▶ This will divert 275,000 tons of rice straw annually
- ▶ All the plant's needs will be met within a 25-mile radius
- ▶ Significant reduction in rice straw burning request have already been realized





# Thank you

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