



## County of Fresno

### Department of Agriculture

**Jerry Prieto, Jr.**

Agricultural Commissioner/  
Sealer of Weights & Measures

**Robert D. Vandergon**

Assistant Agricultural Commissioner/  
Sealer of Weights & Measures

A. G. Kawamura, Secretary  
California Department of Food and Agriculture

The Honorable Board of Supervisors  
County of Fresno

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I am pleased to submit the 2005 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

Fresno County set a new production value record in 2005 by exceeding the four billion dollar-mark for the third consecutive year. The total gross production value of Fresno County agricultural commodities in 2005 was \$4,641,194,200. This represents a .81 percent increase from the 2004 production value. Increases were seen in fruit and nut crops, nursery, livestock, poultry, poultry & apiary products and pollination services. Although some commodities have increased in value, others have decreased. It must be emphasized that the values presented in this report reflect gross values only and do not in any manner reflect net income or loss to producers. The agricultural economy is improving however labor shortages are presenting many challenges to the agricultural community. Higher labor, energy, and fuel costs are becoming apparent in the industry and are being reflected by higher costs per unit of production. Production overhead costs remain high preventing some growers from meeting financial obligations or obtaining adequate operating capital.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann; Supervising Agricultural/Standards Specialist Scotti Walker; Agricultural/Standards Specialists Deborah Dexter-Mendez, Crystal A. La Pierre, Karen Tanaka-Alfson and Seasonal Agricultural/Standards Specialist Luz M. Desilagua as well as the rest of our staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies, and members of the agricultural industry for their contributions to the compilation of this report.

Sincerely,

Jerry Prieto, Jr.  
Agricultural Commissioner/Sealer

*"When tillage begins, other arts follow. The farmers are therefore the founders of human civilization."*

*Daniel Webster*

*1840*

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This report is also available at our internet site:  
<http://www.co.fresno.ca.us/4010/agwelcm.htm>

## FRESNO COUNTY'S 10 LEADING CROPS

Crop	2005 Rank	2005 Dollar Value	2004 Rank	1995 Rank	1985 Rank
GRAPES	1	\$ 554,551,000	1	2	1
ALMONDS	2	469,820,000	4	7	17
MILK	3	334,383,000	5	5	5
TOMATOES	4	328,077,000	3	4	4
CATTLE AND CALVES	5	319,686,000	6	8	3
COTTON	6	284,854,000	2	1	2
POULTRY	7	280,060,000	7	3	+
PEACHES	8	183,678,000	9	12	7
NECTARINES	9	173,946,000	10	9	10
ORANGES	10	<u>157,239,000</u>	8	10	9
<b>TOP TEN TOTAL</b>		<b>\$3,086,294,000</b>			

+ Not previously combined for ranking purposes

\* Revised

# 2005 Highlights in Retrospect

## January:

Wheat, barley, oats, and other small grains benefited from rainfall and sunny days by showing excellent growth. Many fields were being prepared for future plantings while other growers applied fertilizers and herbicides. Cotton harvesting activities were finished for the year and growers were plowing under fields. Lettuce, cabbage, broccoli, and other vegetables planted for the spring harvest were growing well; new fields were prepared for planting of summer vegetables as the field conditions allowed. Grape, deciduous fruit, and nut growers continued to prune and shred brush in their vineyards and orchards. Soil amendment, herbicide, and dormant spray applications were made in most vineyards and fruit and nut orchards. Late in the month several orchards of almonds, peaches, plums, and nectarines were pushing buds. Winter fruits and vegetables such as gailon, napa cabbage, cilantro, lemon grass, bok choy, pomelos, lemons, and grapefruit were harvested throughout the county for sales at farmers' markets. Rangeland grass growth was excellent. Sheep were noted to be grazing on old alfalfa fields and fallow land.

## February:

Broadleaf herbicides and fertilizers were applied to small grain fields throughout the county. Wet conditions at the end of the month supplied moisture for small grain plantings and field and vegetable crops. Rain delayed the harvesting of citrus and broccoli. The planting of processing tomatoes and other miscellaneous vegetables were also delayed due to wet field conditions. Blossoms continued to appear in early variety nectarine, plum, cherry, peach, apricot, and almond orchards; some early peaches and almonds began to leaf out at the end of the month. Fields were prepared for planting cotton. Growth was excellent in fields of lettuce, onions, broccoli, asparagus, garlic, and other spring vegetables. Strawberry plants were growing well and blueberry bushes were blooming. Pruning, cane tying, and general repairs were done in many vineyards. Pruning, shredding, and herbicide applications were ongoing in stone fruit and nut orchards. Bees were placed in almond and tree fruit orchards; growers were concerned that the bees had not had favorable conditions to pollinate blossoms due to the rain. Navel oranges were picked and packed while lemons, mandarins, tangerines, tangelos, and blood oranges were exported to Japan, the Republic of Korea, Australia, and New Zealand.

## March:

Wet field conditions continued to keep growers from discing under cotton fields to meet the plowdown requirements. Lodging due to the rain was observed in grain and forage crop fields; seed head formation was observed in fields of winter forage. Growers continued to chop and pick up forage for silage. Some herbicides and fertilizers were applied by air on fields intended for cotton planting. Many winter forage and alfalfa hay fields were cut and windrowed for drying. Fields not yet ready for harvest were being irrigated and growing well. Gai choy, beets, snow peas, radishes, and other summer vegetables were harvested for commercial operations. Eggplant, tomatoes, and other vegetables began to sprout through plastic bed liners. Harvesting of lettuce, broccoli, and asparagus was in full swing by the middle of the month with good yields reported. Sugar beets were planted and emerged fields were growing well. Bloom came to an end in almond and tree fruit orchards and bud break and leafing out began in most vineyards. Cattle and sheep ranchers were moving their livestock into foothill rangeland to graze and feedlots were at an average 89 percent capacity.

## April:

Cotton planting began slowly but by the end of the month was in full swing. Mature fields of alfalfa and oat hay were cut, windrowed and baled while fields of seedling alfalfa were growing well. Grain silage was cut and hauled to dairies for storage, and growers were irrigating other fields. Fruit thinning and weed control were underway in most stone fruit orchards. Small grape clusters could be seen in many grape vineyards and the

grape leaf harvest began. Apple orchards were blooming and apricots were developing good fruit size. Picking began in early variety cherry orchards toward the end of the month. Growers continued to plant corn. Strawberry picking began with excellent yields reported. Harvesting of asparagus, broccoli, and lettuce were continued throughout the month with good yields reported. Navel oranges, Valencia oranges, mandarins, tangerines, tangelos, minneolas, and lemons were picked, packed and exported to Japan, the Republic of Korea, Hong Kong, Indonesia, Taiwan, Vietnam, Malaysia, New Zealand, the People's Republic of China, the United Kingdom and French Polynesia.

#### May:

Wheat, barley, and oat development continued. Harvesting began in mature fields; stubble was windrowed and baled. Cotton growers continued to plant fields and young plants looked excellent. Sugar beets showed good growth and some fields were side-dressed with insecticides. Growers began planting rice. Alfalfa hay and winter forage continued to be harvested. A few corn fields were planted. Blueberries were harvested with excellent market demand reported. Stone fruit picking was well underway as the month progressed; grape leaf harvest continued throughout the month in various vineyards. Olive trees were in full bloom. Bell peppers, tomatoes, melons, and other summer fruits and vegetables were growing well in the warm weather. Processing tomato plants began blooming toward the end of the month. The asparagus harvest continued until the end of the month. Beekeepers began extracting honey produced during the recent stone fruit and citrus bloom. Citrus bloom ended, and fertilizer and pest control treatments started in many orchards. Strawberry fields continued to produce fruit which was sold at roadside stands and to processors. Dry onion harvest began. Sweet corn was growing well and weeding continued in melon and tomato fields. Sheep grazed on retired farmland and ranchers reported that rangeland conditions were at an all time high. Kankon, amaranth, spinach, mustard greens, and other various vegetables and herbs were harvested for sale at farmers' markets.

#### June:

Irrigation, cultivation, and pest control work were ongoing in most cotton and corn fields. Small grain harvest continued, but was beginning to wind down. Sugar beet plantings were irrigated and treated to control disease and insect pests. Mature sugar beet fields continued to be harvested. Carrots and lettuce grown for seed were blooming and alfalfa grown for seed was irrigated and treated for pests. Rice, alfalfa, and grains for silage were growing well; harvesting of alfalfa hay and silage continued as fields matured. Safflower and seed alfalfa were blooming and maturing rapidly. Corn fields were irrigated and cultivated. Stone fruit and grape growers continued with irrigation, fruit thinning, and pest control treatments. Field crews harvested peaches, apricots, plums, and nectarines while other crews thinned late variety orchards. Grapes continued to mature. Nut development continued in most almond, walnut, and pecan orchards. Harvesting of sweet corn began. Melons were ripening in the westside districts, while a few fields of processing onions continued to be harvested. Eggplant, cucumbers, various squash, peppers, and green beans were all harvested throughout the county. Blackberries, strawberries, and boysenberries were harvested, but the strawberry harvest decreased. Olive trees were blooming. Valencia and Navel oranges were picked in several eastside districts; irrigation, herbicide applications, and weed control continued in many citrus orchards. Oranges were exported to Japan, the People's Republic of China, Hong Kong, the Philippines, Indonesia, and Mexico.

#### July:

Wheat, barley and oats for grain were harvested. Rice, corn and cotton were growing nicely. Blooms were appearing in cotton fields and corn silk and tassel development was well underway. Late season sugar beets were irrigated and harvesting of mature fields continued. Seedling alfalfa was irrigated and treated for insect pests. Lettuce grown for seed was irrigated. Alfalfa and oat hay fields were cut, windrowed, raked and baled while other fields were irrigated. Black-eyed bean fields were blooming and beginning to develop pods.

Pesticides and fungicides continued to be applied to grape vineyards and almond orchards while cultivation, weed control and irrigation continued. Almond hull splitting began and stone fruit thinning continued. Harvested stone fruit included apricots, peaches, plums, pluots, and nectarines. Fresh market and cherry tomato harvesting continued while some fields continued to mature. Black Mission and Brown Turkey figs were harvested. Pomegranate fruit was sizing well. Good yields were reported during harvest of market and pickling cucumbers, summer squash, peppers, eggplant, carrots, and green beans. The harvest of processing onions continued. Fungicides to control rust in onions and garlic was applied. Sweet corn harvest continued. Melons continue to ripen in the westside districts and harvesting of watermelons, honeydew and cantaloupe began. Blackberry harvest has begun while the strawberry harvest has come to an end. Asian vegetable harvest including daikon, long bean, moqua, sinqua, opo, snake gourd, amaranth, mora, Thai chili, moap, and other vegetables continued to progress well. Valencia orange harvest continued with excellent quality. Irrigation and application of materials to prevent sunburn of young fruit was ongoing. Beehives were placed in seed alfalfa and melon fields. Rangeland has dried out. Sheep grazed on retired grain fields. Feedlots were nearly full.

#### August:

Wheat, barley, and oat harvesting ended; fields were being disced and prepped for the next crops. Rice continued to mature and set heads; growers started draining fields in preparation for harvest. Early field corn was being harvested for green chop and stored for silage; irrigation and pest treatment was on-going in most field corn and cotton fields. Sugar beet harvest was ongoing. Seed alfalfa and seed lettuce harvest began. Safflower fields were in full bloom. Pomegranates and grapes were maturing well. Dried plum harvest started with better yields than last year. Pineapple quince and almond harvest began. Zante Currant and other early varieties of grapes were being placed on trays for raisin production. Growers with dried-on-the-vine raisins were cane cutting as conventional raisin growers, were preparing their ground for terracing. Table grape harvest was ongoing. Fig and stone fruit harvest continued. Alfalfa hay fields continued to be cut, windrowed, raked and baled. Black-eyed bean fields were developing well. Fresh market and processing tomato harvesting was winding down. Harvesting of market and pickling cucumbers, summer and zucchini squash, peppers, eggplant and green beans was going strong. Field preparation for lettuce planting continued. Garlic harvest was ongoing, while onions for processing were curing in the fields and being packed. Sweet corn harvest was ongoing. Broccoli for the fall harvest was being irrigated and growing well. Harvesting and weeding in melon fields was ongoing. Asian vegetables continued to progress well for sale at farmers' markets. Treatment for pests, weeds and sunburn was ongoing in orange groves. Large shipments of lemon trees were brought into the county and planted in the eastside districts. Olive growers sprayed for olive fruit fly. Beehives were moved to summer locations in the mountains. Sheep were grazing in old grain fields, fallow land and harvested melon fields. Rangelands were dry and feedlot capacity was in the 90th percentile.

#### September:

The rice harvest was ongoing. Unexpected rains affected the quality of alfalfa hay somewhat. The storm's effect on the raisin crop was minor; other crops were unaffected. Defoliation began in early planted cotton fields. Corn crop harvest was winding down. Sugar beet harvest continued. Seed alfalfa field harvest was complete. Alfalfa hay fields continued being cut, windrowed, raked, and baled; some fields were being irrigated. The almond harvest was ongoing while the pistachio and walnut harvesting had begun on the westside. The raisin harvest was progressing with about half of the crop picked and laid on trays. A small percentage of the crop had been rolled and picked up. Many vineyards were still being prepared for harvest. Mechanical harvesting had become a necessity for many growers due to a labor shortage. Table, wine, and juice grapes were still being harvested. Plums, peaches, nectarines, pineapple quince and Early Foothill and Wonderful pomegranates were still being harvested. Harvesting of cucumbers, squash, bell peppers, tomatoes, and eggplant continued but was beginning to slow down. The garlic harvest was ongoing with good yields

reported; asparagus and sweet corn harvesting was still going strong. Cantaloupe, honeydew and mixed melon fields were still being harvested, while the watermelon harvest was almost complete. Strawberry plants were showing good growth. Irrigation continued in broccoli fields. Valencia oranges were being harvested on the eastside. Olive orchards were being treated for olive fruit fly and harvest had begun in a few orchards. Rangelands were very dry so little grazing occurred. Feedlot capacity was still in the 90th percentile.

#### October:

Field preparation was ongoing for fall planting of grain crops. Rice harvest ended. The cotton harvest continues; growers were shredding and disking fields almost immediately after picking. Field corn and corn grown for seed was harvested. The sugar beet harvest continued. Alfalfa hay fields continued to be cut, windrowed, raked and baled; alfalfa was also green chopped and new fields of alfalfa hay and winter forage were being prepared for planting. Walnuts, pistachios and late varieties of almonds continued to be harvested. The raisin harvest continued with 90 percent already picked up and placed in bins. Dried-on-the vine raisins continued to be harvested. Fresh market, wine and juice grapes continue to be harvested. Harvesting of stone fruit is almost finished. Figs, Asian pears, apples, pomegranates, persimmons, and kiwifruit continued to be harvested. Growers continued to prune following harvest. Green bean fields county-wide started to be harvested; squash and eggplant continued to grow and produce fruit. Tomato and bell pepper harvesting finished for the season. A small amount of garlic was still being harvested. The broccoli harvest was ongoing for processing and fresh market. Asparagus is being harvested in the westside districts. Asian vegetables including you choy, mustard greens, Chinese broccoli, and bok choy were growing well and harvesting had begun. Valencia oranges were still being harvested and the olive harvest was in full swing.

#### November:

Winter forage and grain growers continued to prepare fields for fall planting. Cotton harvest was in full swing with reports that approximately 80 percent of the crop was in; field disking was done following harvest. Seed corn and sugar beet harvesting continued. Alfalfa hay continued to be cut, windrowed, raked and baled. Harvesting of almonds had dwindled while the pecan harvest had begun. Late varieties of fresh market grapes continued to be harvested along with Asian pears, apples, pomegranates, persimmons, figs, and kiwifruit. Stone fruit, almond and walnut growers continued post-harvest activities: pruning, irrigating, etc. The harvesting of green beans, broccoli, sweet corn, and head lettuce was ongoing. Processing onion transplanting and soil fumigation was ongoing. The green pack tomato harvest continued and fall strawberries continued to be sold at roadside stands. Some growers were still harvesting Asian vegetables. Tangerines and Valencia oranges were still being harvested and the Navel orange harvest had begun. Olives were still being harvested. Feedlots were at 90 percent and out-of-state bees were being brought into California to spend the winter.

#### December:

Winter wheat emergence was at 80 percent and fields were growing well. The cotton harvest was done and fields continued to be shredded and disced. The majority of field activities were at a standstill due to rain. Dormant season activities in grape vineyards, nut and tree fruit orchards were ongoing. Fumigation was underway in a number of locations where new orchards and vineyards were going to be planted. Onion and garlic fields continued to grow well, as did the spring broccoli and lettuce crops. Processing tomato growers were preparing beds for next season's crop. Harvesting of cool season Asian vegetables included bok choy, gai choy, you choy, Chinese broccoli, Thai broccoli, and sugar pea leaf. Navel oranges, lemons, mandarins, tangerines and pummelos were being harvested. Feedlots were at 90 percent. Sheep grazed in retired farmland and alfalfa fields. Bees were being placed in protected areas.



**FIELD CROPS:** The total gross returns for field crops decreased by \$118,174,000, from \$594,728,000, to \$476,554,000 or 19.87 percent from 2004. Upland Acala cotton acreage decreased by 34.11 percent and Pima acreage decreased by 1.90 percent. The total value for cotton decreased by 32.05 percent and moved it in the top ten ranking from second to sixth place in 2005. Beans, dry increased in value by 94.30 percent due to increases in acreage and per-acre yield. Alfalfa hay increased in value by 19.96 percent due to an increase in acreage of 7,900 acres. The harvested acreage of rice decreased 17.42 percent and the total value was down \$2,016,000. Sugar beets decreased in value 24.06 percent along with a loss of 500 acres from 2004. Yield however decreased 5.46 tons per acre. Wheat acreage decreased by 1,600 acres and the price received was down 8.82 percent. Total wheat value was down \$4,028,000 from the 2004 value.

**SEED CROPS:** Total gross returns for all seed crops increased 2.41 percent in 2005; this was an increase of \$457,000 from 2004 values. The value of alfalfa seed increased by 29.94 percent and harvested acreage increased by 46.61 percent or 1,720 acres. Harvested acreage of certified cotton seed experienced a decrease of 5.38 percent, along with a decrease in total production and value of 21.15 percent and \$64,000 respectively. Vegetable seed and other categories decreased in value by 2.99 percent and 13.41 percent respectively.

**VEGETABLE CROPS:** The total value for all vegetable crops was \$1,114,181,000 in 2005; this was a decrease of 6.33 percent from 2004. Asparagus experienced a drop in acreage of 19.37 percent along with a drop in per-acre yield and price which lead to a 42.97 percent drop in value to \$14,555,000. Fresh garlic increased in value 29.84 percent or \$19,184,000, while processed garlic decreased in value by 31.41 percent or \$16,366,000. Fresh garlic acreage increased 3.85 percent and processed acreage dropped 8.78 percent. The fresh onion yield increased by 1.36 percent while the total value decreased \$6,926,000. Value for fresh onions decreased 6.80 percent from the 2004 value of \$101,781,000. Oriental vegetables decreased in value by \$7,002,000, or 40.72 percent from 2004. This was primarily due to a decrease in yield per acre of 47.26 percent. Sweet corn harvested acreage decreased 1.81 percent and per-acre yield was down, however, the total value of the crop increased by 48.07 percent. Tomatoes decreased in value by \$79,953,000, resulting in a fall from the number three spot on the top ten leading crop list to number four. Processed tomatoes increased in value by .58 percent; the primary causal factors were increases in harvested acreage (7.27 percent) and price (2 percent).

**FRUIT AND NUT CROPS:** Fruit and nut crops increased in value by 10.30 percent or \$185,960,000 in 2005. The total grape value was down 6.34 percent and decreased by \$37,548,000 over 2004. Since 2002 grapes have remained at number one on the top ten crop list. Almonds moved from fourth to second on the top ten leading crop list, increasing in value to \$469,820,000. This increase was due in part to a 6.9 percent increase in harvested acres. Oranges also decreased in value in by \$33,273,000 when compared to 2004. Pistachios increased in value by \$66,478,000, or 105.46 percent, showing a continuing recovery from near disaster in 2003. Total yield was up 54.85 percent with grower prices increasing by 32.68 percent. Walnut production per acre was down 35.6 percent resulting in a decrease of \$955,000 over 2004 figures, however, the harvested acreage was up 1.63 percent.

**NURSERY:** Nursery product sales increased 8.62 percent or \$3,024,000 in 2005. Herbaceous and ornamental products increased in value while ornamental trees and shrubs exhibited a decrease in acreage, production and value. The other category, which includes bareroot fruit trees, Christmas trees, citrus (budwood and trees), grapes (rootings and cuttings), vegetable transplants, and turf, increased in value by 32.62 percent due to an increased value in the product.

**LIVESTOCK AND POULTRY:** The total gross returns for livestock and poultry for 2005 was \$624,365,000. Cattle and calves increased in value by 2.74 percent over 2004 or a gain of \$8,522,000. This increase was enough to bump cattle and calves from sixth to fifth place in the top ten list. The value of hogs and pigs increased by 1.18 percent, or \$87,000 from the 2004 value. The lamb price increased by 10.82 percent which increased the total value to \$11,486,000. The total value of turkeys decreased to \$36,068,000 due to decreases in the number of head and total liveweight. The other livestock category, which includes buffalo, chickens, ducks, fallow deer, fish, gamebirds, goats, beneficial insects, rabbits, squab, old turkey breeders and poults, and vermiculture increased \$14,548,000 in value or 6.21 percent.

**LIVESTOCK AND POULTRY PRODUCTS:** The total value of livestock and poultry products increased by 5.23 percent to a total value of \$355,520,000. The total value of manure was up 7.92 percent and production was up 22 percent. The total value of manufactured milk increased 7.05 percent along with an increase of 25,000 hundred weight sold even though the price decreased. The value of market milk also increased in total value by 5.26 percent. Wool production increased 2.87 percent even though we saw a 9.09 percent decrease in per-unit value or \$28,000 loss. Egg production increased by 6,986,000 dozen or 110.22 percent.

**APIARY PRODUCTS AND POLLINATION SERVICES:** Gross returns from apiary and pollination services were up in 2005 compared to 2004. The value represents an increase of 37.24 percent, or \$4,320,800. Both honey and beeswax showed major increases in value as well as all of the pollination categories.

**INDUSTRIAL CROPS:** Industrial crop values decreased \$1,256,000, or 19.96 percent over 2004. Firewood realized an increase in value of 3.64 percent, while the other category, which includes fence posts, green compost, and wood chips for biomass and landscaping, showed a decrease of .94 percent. Timber saw a sharp decline in value of 46.97 percent.

**SUSTAINABLE AGRICULTURE**

**2005 BIOLOGICAL CONTROL ACTIVITIES**

PEST	B. C. AGENT/MECHANISM	ACTIVITY
Yellow Starthistle	YST Rust/Puccinia jaceae	Sprayed rust on young YST. Inoculation was successful.
Purple Loosestrife	Galerucella calamariensis (GASPP) Nanophyes marmoratus (NAMA)	Released 3,210 GASPP and 100 NAMA in Sanger Riverbottom, larval feeding observed later in the year.

**2005 DETECTION ACTIVITIES**

INSECT	TRAPS DEPLOYED	RESULTS
Medfly	552	1 sterile captured
Mexican Fruit Fly, other Anastrepha, Bactrocera and Ceratitis sp.	695	None captured
Oriental Fruit Fly	337	None captured
Melon Fly	295	None captured
Gypsy Moth	309	None captured
Japanese Beetle	229	None captured
Glassy-Winged Sharpshooter	2,520	Numerous residences positive

**PEST ERADICATION**

**GLASSY-WINGED SHARPSHOOTER:** GWSS continued to be controlled by Fresno County. The overall number of positive properties was down from the previous year. Nearly all positive properties and adjacent properties were treated with *Merit*. It is hoped that this will keep the GWSS population in Fresno/Clovis at a low level so that they will be less likely to move from the city into the agricultural areas. So far, we have been successful in this effort.

**SUSTAINABLE AGRICULTURE****NEW AND UNUSUAL PEST OUTBREAKS IN 2005**

A new wasp was discovered in Fresno County in July. *Polistes dominulus*, a paper wasp, or sometimes called an “umbrella wasp,” was collected by a pest control operator, Ingrid Carmean, at a residence in Fresno. These wasps have been introduced to the U. S. from Europe and are well established in the eastern U. S., where they appear to be displacing the native *Polistes*. This same situation could occur in California. This wasp is a very efficient caterpillar predator, which is good news for the farmer, but they will also go after the native butterfly and moth caterpillars that are not pests. This may result in fewer butterflies flying on our summer days. The wasps are not overly aggressive so stinging incidents will likely not increase.

In January, a private beekeeper's hive in north Fresno was determined to be positive for Africanized Honeybee. The beekeeper had four hives but noticed that one of them was much more aggressive than the others. The CDFA lab in Sacramento determined a sample of these to be Africanized. The beekeeper destroyed the hive. To date, this has been the only positive beehive found in Fresno County, although a wild swarm on a trailer, shortly after being transported to Fresno from San Diego in 1996, was determined to be Africanized.

Late season surveys for the Small Hive Beetle (*Aethina tumida*) were negative. Tulare and Madera counties were found to be positive so it was a pleasant surprise to find that we did not have it.

A large outbreak of cat fleas (*Ctenocephalides felis*) occurred at a school in central Fresno in October. Some kittens were inhabiting the dirt crawl spaces beneath the schoolrooms, allowing the fleas to multiply significantly. After the kittens were removed, the fleas swarmed from the crawl spaces and began biting the children on the school grounds and in the classroom. A local pest control operator was hired to treat the infestation and within a week the problem was under control. The crawl spaces were fitted with more efficient screening to prevent cats from inhabiting the areas again.

There were numerous pest outbreaks in the Fresno area due to the heavy winter and spring rains. The White Lined Sphinx (*Hyles lineata*) moth caterpillars were very common in some west Fresno vineyards. They were mainly feeding on the weeds and were not going to significantly harm the vines but some of the growers were very concerned that their vineyard would be defoliated. It was explained that they were weed feeders and within a short time the caterpillars disappeared, doing very little damage to the vines, and did not return the rest of the year. The Yellow Striped Armyworm (*Prodaenia praefica*) had a large outbreak in an east Fresno ranch. They had defoliated a nearby weedy field and inundated the yard around the home, crawling up the walls of the house. The owners sprayed the infestation and within a week the caterpillars disappeared and did not return the rest of the year.

**2005 ORGANIC FARMING**

Gross returns for organic farming in 2005 totaled \$25,563,772. A total of eighty-three farms, totaling 13,229 acres, and eighteen handlers (shippers/packers), were registered organic in Fresno County in 2005. New registrants included 20 growers. A large variety of crops were produced in compliance with current organic regulations. Crops grown, packed, and shipped include alfalfa, almonds, apples, apricots, apriums, arugula, artichokes, barley, basil, beans, beets, boysenberries, broccoli, cabbage, cantaloupes, carrots, cattle, cauliflower, chard, cherries, cotton, cucumbers, daikon, eggplant, fennel, figs, flowers, garlic, gourds, grapes, grapefruit, grape juice, hay, herbs, kiwifruit, leeks, lemons, lettuce, mandarins, melons, milk, nectarines, onions, oranges, parsley, parsnips, peaches, peas, peppers, persimmons, pistachios, plums, pluots, pomegranates, potatoes, prunes, pummelos, radishes, raisins, rice, satsumas, shallots, spinach, squash, tangerines, tomatoes, tomatillos, turkeys, umbels, walnuts, watermelon, wine, and wheat.

# FRESNO COUNTY

## FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	2005	7,700	2.39	18,400	ton	\$ 93.00	\$ 1,711,000
	2004	7,800	2.76	21,500	ton	\$ 115.00	\$ 2,473,000
Beans, dry <sup>a</sup>	2005	7,280	1.29	9,400	ton	671.00	6,307,000
	2004	3,790	1.35	5,120	ton	634.00	3,246,000
<b>Corn</b>							
Grain	2005	2,860	4.37	12,500	ton	117.00	1,463,000
	2004	2,860	4.80	13,700	ton	122.00	1,671,000
Silage	2005	35,400	23.33	826,000	ton	27.00 <sup>b</sup>	22,302,000
	2004	30,000	24.30	729,000	ton	23.00 <sup>b</sup>	16,767,000
<b>Cotton</b>							
Upland (Acala) Lint	2005	99,500	1,296 <sup>c</sup>	258,000 <sup>d</sup>	bale	.75 <sup>e</sup>	97,524,000
	2004	151,000	1,831 <sup>c</sup>	553,000 <sup>d</sup>	bale	.71 <sup>e</sup>	197,886,000
Seed	2005			103,000	ton	165.00	16,995,000
	2004			200,000	ton	172.00	34,400,000
Upland (Non-Acala) Lint	2005	20,700	1,280 <sup>c</sup>	53,000 <sup>d</sup>	bale	.74 <sup>e</sup>	19,767,000
	2004	14,200	1,979 <sup>c</sup>	56,200 <sup>d</sup>	bale	.69 <sup>e</sup>	19,544,000
Seed	2005			21,100	ton	165.00	3,482,000
	2004			20,200	ton	172.00	3,474,000
Pima Lint	2005	93,000	1,242 <sup>c</sup>	231,000 <sup>d</sup>	bale	1.14 <sup>e</sup>	132,723,000
	2004	94,800	1,619 <sup>c</sup>	307,000 <sup>d</sup>	bale	.93 <sup>e</sup>	143,897,000
Seed	2005			98,800	ton	134.00	13,239,000
	2004			123,900	ton	148.00	18,337,000
<b>Cotton Total <sup>f</sup></b>	<b>2005</b>	<b>213,200</b>					<b>283,730,000</b>
	<b>2004</b>	<b>260,000</b>					<b>417,538,000</b>
<b>Hay</b>							
Alfalfa	2005	82,900	7.93	657,000	ton	131.00	86,067,000
	2004	75,000	8.11	608,000	ton	118.00	71,744,000
Other <sup>g</sup>	2005	15,400	3.28	50,500	ton	87.00	4,394,000
	2004	13,700	3.19	43,700	ton	99.00	4,326,000

FRESNO COUNTY

**FIELD CROPS (continued)**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>Pasture and Range</b>							
Field	2005	27,900			acre	\$ 72.54	\$ 2,024,000
Stubble <sup>h</sup>	2004	29,800			acre	\$ 49.40	\$ 1,472,000
Irrigated	2005	40,000			acre	125.00	5,000,000
Pasture	2004	40,000			acre	125.00	5,000,000
Grazing	2005	850,000			acre	8.00	6,800,000
Range	2004	850,000			acre	8.00	6,800,000
<b>Rice</b>	2005	5,450	2.61	14,200	ton	240.00	3,408,000
	2004	6,600	3.42	22,600	ton	240.00	5,424,000
<b>Sugar Beets</b>	2005	10,700	33.83	362,000	ton	36.00	13,032,000
	2004	11,200	39.29	440,000	ton	39.00	17,160,000
<b>Wheat</b>	2005	49,400	2.89	143,000	ton	124.00	17,732,000
	2004	51,000	3.14	160,000	ton	136.00	21,760,000
<b>Other<sup>i</sup></b>	2005	66,800					22,584,000
	2004	32,900*					19,347,000
<b>Total</b>	<b>2005</b>	<b>1,387,090</b>					<b>\$476,554,000</b>
	<b>2004</b>	<b>1,384,850*</b>					<b>\$594,728,000</b>

**a** Includes blackeyed, garbanzo, and lima (baby and large)

**b** Field price

**c** Pounds of lint per acre

**d** 500 pounds lint per bale

**e** Price per pound, 504 pounds gross weight per bale

**f** Not used for top 10 ranking; does not include cotton seed for planting

**g** Includes hay from barley, bermuda, oats, rye grass, sudan, winter forage, and wheat

**h** Not included in total field crop acreage; includes acreage from alfalfa hay (conventional and organic), melons, and wheat

**i** Includes oat grain, safflower, silage (alfalfa, barley, oat, sorghum, sudan grass, and wheat), straw, sugar beet pulp, sugarcane, and winter forage; **organic:** alfalfa hay, cotton (acala), oat hay, rice, and wheat

\* Revised

FRESNO COUNTY

**SEED CROPS**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>Alfalfa</b>	2005	5,410	833	4,507,000	lb.	\$ 1.50	\$ 6,761,000
<b>Certified</b>	2004	3,690	1,000	3,690,000	lb.	\$ 1.41	\$ 5,203,000
<b>Cotton</b> <sup>a</sup>	2005	6,330		9,368,000	lb.	.12	1,124,000
<b>Certified</b>	2004	6,690		11,881,000	lb.	.10	1,188,000
<b>Vegetable</b> <sup>b</sup>	2005	1,310					6,056,000
	2004	990					6,243,000
<b>Other</b> <sup>c</sup>	2005	3,860					5,488,000
	2004	9,660					6,338,000
<b>Total</b>	<b>2005</b>	<b>10,580</b>					<b>\$19,429,000</b>
	<b>2004</b>	<b>14,340</b>					<b>\$18,972,000</b>

**a** Included in field crop acreage

**b** Artichoke, lettuce (Butter, head, leaf, and Romaine), mustard, peas, and onions;  
**organic:** lettuce

**c** Alfalfa (non-certified), barley, corn, oats, rice, triticale, turfgrass, and wheat;  
**flowers:** mixed and zinnias

**FRESNO COUNTY**

**VEGETABLE CROPS**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>Asparagus</b>	2005	1,540	4.04	6,220	ton	\$ 2,340.00	\$ 14,555,000
	2004	1,910	4.74	9,050	ton	\$ 2,820.00	\$ 25,521,000
<b>Bell Peppers<sup>a</sup></b>	2005	2,420	25.16	60,900	ton	570.00	34,713,000
	2004	1,930	27.62	53,300	ton	692.00	36,884,000
<b>Broccoli<sup>a</sup></b>	2005	10,700	8.14	87,100	ton	522.00	45,466,000
	2004	12,600	7.00	88,200	ton	595.00	52,479,000
<b>Eggplant<sup>b</sup></b>	2005	840	16.55	13,900	ton	487.00	6,769,000
	2004	830	15.18	12,600	ton	499.00	6,287,000
<b>Garlic</b>							
Fresh	2005	5,120	8.69	44,500	ton	1,876.00	83,482,000
	2004	4,930	8.95	44,100	ton	1,458.00	64,298,000
Processed	2005	13,500	7.93	107,000	ton	334.00	35,738,000
	2004	14,800	10.54	156,000	ton	334.00	52,104,000
<b>Head Lettuce</b>							
Naked				25,500	ton		
Wrapped				86,700	ton		
Bulk				75,400	ton		
Spring	2005	7,800	24.05	187,600	ton	375.00	70,350,000
Season Total	2004	9,300	15.88	147,700	ton	258.00	38,107,000
Naked				39,400	ton		
Wrapped				94,000	ton		
Bulk				64,300	ton		
Fall	2005	9,400	21.03	197,700	ton	238.00	47,053,000
Season Total	2004	10,400	19.84	206,300	ton	288.00	59,414,000
<b>Head Lettuce</b>	<b>2005</b>	<b>17,200</b>		<b>385,300</b>			<b>117,403,000</b>
<b>Totals</b>	<b>2004</b>	<b>19,700</b>		<b>354,000</b>			<b>97,521,000</b>



FRESNO COUNTY

**VEGETABLE CROPS (continued)**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Leaf Lettuce <sup>c</sup>	2005	10,200	10.29	105,000	ton	\$ 595.00	\$ 62,475,000
	2004	8,900	10.83	96,400	ton	\$ 611.00	\$ 58,900,000
<b>Melons</b>							
Cantaloupe <sup>a</sup>	2005	27,600	12.36	341,000	ton	336.00	114,576,000
	2004	25,500	15.18	387,000	ton	273.00	105,651,000
Honeydew	2005	5,190	11.56	60,000	ton	258.00	15,480,000
	2004	5,100	14.92	76,100	ton	356.00	27,092,000
Mixed Melons <sup>d</sup>	2005	1,860	7.74	14,400	ton	429.00	6,178,000
	2004	1,290	14.57	18,800	ton	455.00	8,554,000
Watermelon	2005	2,570	27.98	71,900	ton	304.00	21,858,000
	2004	2,550	25.69	65,500	ton	302.00	19,781,000
<b>Onions</b>							
Fresh	2005	12,600	24.68	311,000	ton	305.00	94,855,000
	2004	10,800	24.35*	263,000*	ton	387.00*	101,781,000*
Processed	2005	12,870	18.96	244,000	ton	174.00	42,456,000
	2004	7,700	24.16	186,000	ton	170.00	31,620,000
Oriental Vegetables <sup>e</sup>	2005	2,370	7.72	18,300	ton	557.00	10,193,000
	2004	2,036*	14.64*	29,800*	ton	577.00*	17,195,000*
Squash <sup>f</sup>	2005	1,000	9.75	9,750	ton	451.00	4,397,000
	2004	752	8.64	6,500	ton	584.00	3,796,000
Sweet Corn	2005	7,070	10.18	72,000	ton	442.00	31,824,000
	2004	7,200	11.22	80,800	ton	266.00	21,493,000
<b>Tomatoes</b>							
Standard and Cherry	2005	10,000	12.60	126,000	ton	650.00	81,900,000
	2004	11,700	17.78	208,000	ton	785.00	163,280,000

FRESNO COUNTY

**VEGETABLE CROPS (continued)**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>Tomatoes (continued)</b>							
Processed	2005	118,000	40.91	4,827,000	ton	\$ 51.00	\$ 246,177,000
	2004	110,000	44.50	4,895,000	ton	\$ 50.00	\$ 244,750,000
<b>Tomatoes Total</b>	<b>2005</b>	<b>128,000</b>					<b>328,077,000</b>
	<b>2004</b>	<b>121,700</b>					<b>408,030,000</b>
<b>Other<sup>g</sup></b>	2005	11,200					43,686,000
	2004	11,400					50,473,000
<b>Total</b>	<b>2005</b>	<b>273,850</b>					<b>\$1,114,181,000</b>
	<b>2004</b>	<b>261,628*</b>					<b>\$1,189,460,000*</b>

**a** Includes fresh and processed

**b** Includes Chinese, Globe, Indian, Italian, Japanese, Phillipine, and Thai varieties

**c** Includes Red, Green, Butter, Frisee, and Romaine varieties

**d** Includes Casaba, Crenshaw, Galia, Juan Canary, Orange Flesh, Persian, Santa Claus, and Sharlyn varieties

**e** Includes amaranth, bittermelon (fruit and leaf), bitter/sour leaf, bok choy (baby, regular, and Shanghai), napa cabbage, chayote, daikon, donqua, gai choy, gailon, Indian pea, kabocha, lemon grass, lo bok, long beans, mattea, mora, moqua, muop, ong choy, opo, sinqua/patola, snake squash, sugarcane, sugar peas (fruit and leaf), taro root, tong ho, yam leaves, and you choy

**f** Includes summer and winter varieties

**g** Includes artichokes, arugula, beans (fava and garbanzo), green/snap beans (fresh and processed), beets, cabbage (fresh), carrots (fresh and processed), cauliflower (fresh and processed), Swiss chard, collards, corn (cornnuts and tortilla chips), cucumbers (fresh and processed), endive/escarole, ginger and ginger leaf, greens (dandelion, gai choy, mizuna, and mustard), jicama, kale, kohlrabi, leeks, mushrooms, okra, green onions, peanuts, peppers/chili (fresh and processed), pimento, potato, pumpkins, radicchio, radishes, rapini, rutabagas, shallots, spinach, sunchokes/Jerusalem artichokes, sweet potatoes/yams, tomatillos, turnips, yam bean and watercress; **herbs:** basil, cilantro, dill, fennel, mint, parsley (dry & fresh) and spice mix; **organic:** arugula, asparagus, beet (fresh), broccoli, cabbage, cantaloupe, carrots, corn (sweet/human consumption), cucumber, eggplant, garlic, leeks, lettuce (leaf and Romaine), mustard greens (baby), onions, peppers (bell/processed), spinach, squash, strawberries and tomatoes (standard, processed); **organic herbs:** basil (processed), herb/spice and parsley (processed)

\* Revised

**FRESNO COUNTY**

**FRUIT AND NUT CROPS**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>Almonds<sup>a</sup></b>	2005	88,400	.90	79,600	ton	\$ 5,700.00	\$ 453,720,000
	2004	82,700	1.04	86,000	ton	\$ 4,337.00	\$ 372,982,000
<b>Almond Hulls</b>	2005			161,000	ton	100.00	16,100,000
	2004			173,000	ton	91.00	15,743,000
<b>Apples<sup>a</sup></b>	2005	1,318	14.39				
	2004	1,829	14.74				
Fresh	2005			12,700	ton	672.00	8,534,000
	2004			18,800	ton	546.00	10,265,000
Processed	2005			6,270	ton	45.00	282,000
	2004			8,160	ton	196.00	1,599,000
<b>Apricots<sup>a</sup></b>	2005	1,424	8.50	12,100	ton	1,087.00	13,153,000
	2004	1,849	6.27	11,600	ton	766.00	8,886,000
<b>Cherries</b>	2005	2,642	2.12	5,600	ton	4,364.00	24,438,000
	2004	2,144	3.05	6,540	ton	3,490.00	22,825,000
<b>Citrus<sup>a,b</sup></b>							
<b>Lemons</b>	2005	1,047	23.59				
	2004	1,080	22.49				
Fresh	2005			19,100	ton	555.00	10,601,000
	2004			17,500	ton	721.00	12,618,000
Processed	2005			5,600	ton	23.00	129,000
	2004			6,790	ton	23.00	156,000
<b>Citrus, other<sup>b</sup></b>	2005	3,300	14.27				
	2004	2,488	15.15				
Fresh	2005			34,200	ton	870.00	29,754,000
	2004			23,700	ton	794.00	18,818,000
Processed	2005			12,900	ton	15.00	194,000
	2004			14,000	ton	15.00	210,000

FRESNO COUNTY

**FRUIT AND NUT CROPS (continued)**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>Oranges</b>							
Navel <sup>a</sup>	2005	26,929	12.66				
	2004	26,522	15.08				
Fresh	2005			260,000	ton	\$ 512.00	\$ 133,120,000
	2004			324,000	ton	\$ 516.00	\$ 167,184,000
Processed	2005			80,800	ton	24.00	1,939,000
	2004			76,100	ton	23.00	1,750,000
Valencia <sup>a</sup>	2005	4,384	14.84				
	2004	5,097	12.38				
Fresh	2005			44,900	ton	467.00	20,968,000
	2004			38,000	ton	550.00	20,900,000
Processed	2005			20,200	ton	60.00	1,212,000
	2004			25,100	ton	27.00	678,000
<b>Oranges Total</b>	<b>2005</b>	<b>31,313</b>					<b>157,239,000</b>
	<b>2004</b>	<b>31,619</b>					<b>190,512,000</b>
<b>Grapes</b>							
Raisin Varieties <sup>a</sup>	2005	151,681	9.05				
	2004	155,174	8.51				
Canned	2005			13,700	ton	231.00	3,165,000
	2004			9,700	ton	243.00	2,357,000
Crushed	2005			300,000	ton	164.00	49,200,000
	2004			437,000	ton	200.00	87,400,000
Dried	2005			213,000	ton	1,032.00	219,816,000
	2004			203,000	ton	1,242.00	252,126,000
Fresh	2005			32,700	ton	1,035.00	33,845,000
	2004			28,400	ton	1,019.00	28,940,000
Juice	2005			14,000	ton	739.00	10,346,000
	2004			7,800	ton	695.00	5,421,000

FRESNO COUNTY

**FRUIT AND NUT CROPS (continued)**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>Grapes (continued)</b>							
<b>Table Varieties</b>	2005	10,684	11.34				
	2004	10,259	7.76				
Crushed	2005			17,200	ton	\$ 161.00	\$ 2,769,000
	2004			13,600	ton	\$ 200.00	\$ 2,720,000
Fresh <sup>a</sup>	2005			104,000	ton	1,007.00	104,728,000
	2004			66,000	ton	1,726.00	113,916,000
<b>Wine Varieties</b>	2005	39,875	13.38				
	2004	41,531	9.72				
Crushed	2005			523,000	ton	234.00	122,382,000
	2004			392,000	ton	228.00	89,376,000
Juice	2005			10,600	ton	783.00	8,300,000
	2004			10,900	ton	903.00	9,843,000
<b>Grapes Total</b>	<b>2005</b>	<b>202,240</b>					<b>554,551,000</b>
	<b>2004</b>	<b>206,964</b>					<b>592,099,000</b>
<b>Kiwifruit</b>	2005	282	12.48	3,520	ton	791.00	2,784,000
	2004	321	6.23	2,000	ton	1,164.00	2,328,000
<b>Nectarines<sup>a</sup></b>	2005	19,664	8.09	159,000	ton	1,094.00	173,946,000
	2004	21,213	8.72	185,000	ton	769.00	142,265,000
<b>Olives, canned<sup>a</sup></b>	2005	1,123	3.41	3,830	ton	553.00	2,118,000
	2004	940	3.04	2,860	ton	660.00	1,888,000
<b>Peaches</b>							
Cling	2005	1,304	15.57	20,300	ton	247.00	5,014,000
	2004	1,283	16.68	21,400	ton	231.00	4,943,000
Freestone <sup>a</sup>	2005	18,388	10.00	184,000	ton	971.00	178,664,000
	2004	20,747	13.50	280,000	ton	617.00	172,760,000
<b>Peaches Total</b>	<b>2005</b>	<b>19,692</b>					<b>183,678,000</b>
	<b>2004</b>	<b>22,030</b>					<b>177,703,000</b>
<b>Pears, Asian and European</b>	2005	1,143	17.32	19,800	ton	1,494.00	29,581,000
	2004	1,062	25.24	26,800	ton	693.00	18,572,000

FRESNO COUNTY

**FRUIT AND NUT CROPS (continued)**

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Persimmons <sup>a</sup>	2005	709	8.08	5,730	ton	\$1,027.00	\$ 5,885,000
	2004	564	7.78	4,390	ton	\$ 880.00	\$ 3,863,000
Pistachios <sup>a</sup>	2005	13,800	2.31	31,900	ton	4,060.00	129,514,000
	2004	9,800	2.10	20,600	ton	3,060.00	63,036,000
Plums <sup>a</sup>	2005	16,028	7.30	117,000	ton	1,066.00	124,722,000
	2004	16,070	5.95	95,600	ton	974.00	93,114,000
Plums, dried	2005	2,796	2.80	7,830	ton	1,438.00	11,260,000
	2004	3,603	1.37	4,940	ton	959.00	4,737,000
Pomegranates <sup>a</sup>	2005	2,381	2.81	6,700	ton	1,249.00	8,368,000
	2004	2,304	3.56	8,200	ton	1,271.00	10,422,000
Walnuts <sup>a</sup>	2005	5,359	1.61	8,630	ton	1,500.00	12,945,000
	2004	5,273	2.50	13,200	ton	1,053.00	13,900,000
Other <sup>c</sup>	2005	6,930					38,597,000
	2004	6,150*					27,592,000*
<b>Total</b>	<b>2005</b>	<b>421,591</b>					<b>\$1,992,093,000</b>
	<b>2004</b>	<b>420,003*</b>					<b>\$1,806,133,000*</b>

**a** Acreage, production, and value are included in other fruit and nut crops: 57 acres apricots (processed), 45 acres olive (oil), peaches (freestone and processed), 30 acres prunes (processed, juice); **organic:** 502 acres almonds, 1 acre apricot (processed), 165 acres figs (dry), 1181 acres grapes (raisin), 365 acres grapes (table), 79 acres nectarines (fresh), 63 acres orange (navel, fresh), 40 acres orange (valencia, fresh), 101 acres peach (fresh), 10 acres pomegranates (fresh), 8 acres tangerine/mandarin/satsuma, 78 acres walnut

**b** Includes blood oranges, grapefruit, mandarin tangerines, minneola tangelos, and pummelos

**c** Includes almonds (shells and inedible), apricots (processed), avocados, blackberries, blueberries, boysenberries, chestnuts, culls (stonefruit and pomegranate), dried fruit, figs (fresh, dried, and sub-standard), grapes (leaves and raisin by-products), jujubes, kiwifruit, olives (oil), peaches (cull, freestone and processed), pecans, plumcots/pluots, plum (ume), prune (processed/juice), quince, strawberries (fresh and processed) and walnut (shell); **organic:** almonds (fresh and hulls), apricots (processed), figs (dried), grape leaves, grapes (raisin, table, and wine), nectarines (fresh), navel oranges (fresh), peaches (fresh), persimmons (fresh), pluots (fresh), plums (fresh), pomegranate (fresh), valencia orange (fresh) and walnuts (fresh)

**FRESNO COUNTY**

**NURSERY PRODUCTS**

<b>ITEM</b>	<b>YEAR</b>	<b>ACRES</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>VALUE</b>
<b>Herbaceous</b>	2005	50	3,970,000	b	\$ 3,730,000
<b>Ornamentals<sup>a</sup></b>	2004	29	5,404,000	b	\$ 3,716,000
<b>Ornamental Trees</b>	2005	64	776,000	plants	6,928,000
<b>and Shrubs</b>	2004	116	1,845,000	plants	10,666,000
<b>Other<sup>c</sup></b>	2005	1,273	231,984,000	plants	27,433,000
	2004	951	259,125,000	plants	20,685,000
<b>Total</b>	<b>2005</b>	<b>1,387</b>			<b>\$38,091,000</b>
	<b>2004</b>	<b>1,096</b>			<b>\$35,067,000</b>

**a** Includes potted plants, bedding plants, flats, and perennials

**b** Includes flats, dozens, cans, and single plants

**c** Includes bareroot fruit trees, Christmas trees, citrus (budwood and trees), grape (rootings and cuttings), vegetable transplants, and turf (in square feet)

**FRESNO COUNTY**

**LIVESTOCK AND POULTRY**

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
<b>Cattle and Calves</b>						
<b>Beef</b>						
Breeding Stock						
Common	2005	1,240		head	\$1,141.00	\$ 1,415,000
	2004	1,170		head	\$1,012.00	\$ 1,184,000
Registered	2005	310		head	3,664.00	1,136,000
	2004	300		head	3,250.00	975,000
Feeders	2005	77,000	296,000	cwt.	96.32	28,511,000
	2004	101,000	265,000	cwt.	88.98	23,580,000
Calves	2005	26,500	79,500	cwt.	122.18	9,713,000
	2004	25,200	75,600	cwt.	106.69	8,066,000
Slaughter Stock	2005	278,000	1,515,000 <sup>a</sup>	cwt.	86.67	131,305,000
	2004	299,000	1,893,000 <sup>a</sup>	cwt.	83.13	157,365,000
<b>Dairy</b>						
Breeding Stock	2005	31,700		head	2,051.00	65,017,000
	2004	17,300		head	1,945.00	33,649,000
Cull Stock	2005	31,500	410,000	cwt.	54.48	22,337,000
	2004	28,500	371,000	cwt.	50.00	18,550,000
Calves	2005	97,100	291,000	cwt.	207.05	60,252,000
	2004	121,000	362,000	cwt.	187.28	67,795,000
<b>Cattle and Calves Total</b>	<b>2005</b>					<b>319,686,000</b>
	<b>2004</b>					<b>311,164,000</b>
<b>Hogs and Pigs</b>						
Feeder Pigs and Slaughter Stock	2005	52,200	101,000	cwt.	73.62	7,436,000
	2004	50,100	105,000	cwt.	69.99	7,349,000



FRESNO COUNTY

**LIVESTOCK AND POULTRY (continued)**

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
<b>Sheep and Lambs</b>						
Slaughter Stock						
Lambs	2005	83,000	103,000	cwt.	\$ 111.51	\$ 11,486,000
	2004	80,800	106,000	cwt.	\$ 100.62	\$ 10,666,000
Sheep	2005	11,500	18,400	cwt.	41.00	754,000
	2004	11,200	17,900	cwt.	32.18	576,000
<b>Turkeys<sup>b</sup></b>	2005	3,362,000	81,973,000	lb.	.44	36,068,000
	2004	3,497,000	92,321,000	lb.	.43	39,698,000
<b>Other<sup>c</sup></b>	2005					248,935,000
	2004					234,387,000
<b>Total</b>	<b>2005</b>					<b>\$624,365,000</b>
	<b>2004</b>					<b>\$603,840,000</b>

**a** Net gain

**b** Includes conventional, organic, and heritage breed type of turkeys

**c** Includes buffalo; chickens (chicks, fryers, and old breeder birds); ducks (ducklings, old hens, and drakes); fallow deer; fish (bass, carp, and channel cat); game birds (chukar, guinea hens, pheasants and quail); goats (cull milk, kid, and meat); insects (beneficial); rabbits (meat); squab; turkeys (old breeder birds and poults); and vermiculture.

FRESNO COUNTY

**LIVESTOCK AND POULTRY PRODUCTS**

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
<b>Manure<sup>a</sup></b>	2005	754,000	ton	\$ 3.29	\$ 2,481,000
	2004	618,000	ton	\$ 3.72	\$ 2,299,000
<b>Milk</b>					
Manufacturing	2005	278,000	cwt.	14.81	4,117,000
	2004	253,000	cwt.	15.20	3,846,000
Market <sup>b</sup>	2005	23,658,000	cwt.	13.96	330,266,000
	2004	21,316,000	cwt.	14.72	313,772,000
<b>Wool</b>	2005	574,000	lb.	.70	402,000
	2004	558,000	lb.	.77	430,000
<b>Eggs</b>					
Chicken, Duck & Turkey <sup>c</sup>	2005	13,324,000	dozen	1.37	18,254,000
	2004	6,338,000	dozen	2.76	17,493,000
	<b>2005</b>				<b>\$355,520,000</b>
	<b>2004</b>				<b>\$337,840,000</b>

**a** Includes cow and poultry manure

**b** Includes cow milk (conventional and organic) and goat milk

**c** Includes commercial and hatching eggs

**FRESNO COUNTY**

**APIARY PRODUCTS AND POLLINATION SERVICES**

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
<b>Apiary Products<sup>a</sup></b>					
<b>Honey</b>	2005	2,748,000	lb.	\$ .83	\$ 2,281,000
	2004	1,865,000	lb.	\$ .94	\$ 1,753,000
<b>Beeswax</b>	2005	61,900	lb.	1.36	84,200
	2004	42,900	lb.	1.24	53,200
<b>Pollination<sup>b</sup></b>					
<b>Alfalfa Seed</b>	2005	9,900	colony	32.32	320,000
	2004	9,100	colony	24.70	225,000
<b>Trees, Fruit and Nut<sup>c</sup></b>	2005	174,000	colony	72.50	12,615,000
	2004	168,000	colony	54.00	9,072,000
<b>Melon</b>	2005	32,000	colony	19.50	624,000
	2004	29,400	colony	17.00	500,000
<b>Total</b>	<b>2005</b>				<b>\$15,924,200</b>
	<b>2004</b>				<b>\$11,603,200</b>

**a** Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers: 2004- 40,061 colonies; 2005- 37,718 colonies

**b** Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 2005

**c** Almonds, cherries, and plums

**FRESNO COUNTY**

**INDUSTRIAL CROPS**

<b>CROP</b>	<b>YEAR</b>	<b>PRODUCTION</b>	<b>UNIT</b>	<b>VALUE</b>
<b>Timber<sup>a</sup></b>	2005	8,212,000	board feet	\$ 1,418,000
	2004	10,458,000	board feet	\$ 2,674,000
<b>Firewood</b>	2005	5,398	CORDS	769,000
	2004	6,519	CORDS	742,000
<b>Other<sup>b</sup></b>	2005			2,850,000
	2004			2,877,000
<b>Total</b>	<b>2005</b>			<b>\$ 5,037,000</b>
	<b>2004</b>			<b>\$ 6,293,000</b>

**a** Includes government and non-government properties

**b** Includes fence posts, green compost, and wood chips (biomass and landscaping)

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS  
PRODUCTION VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY-ONE YEAR SPAN**

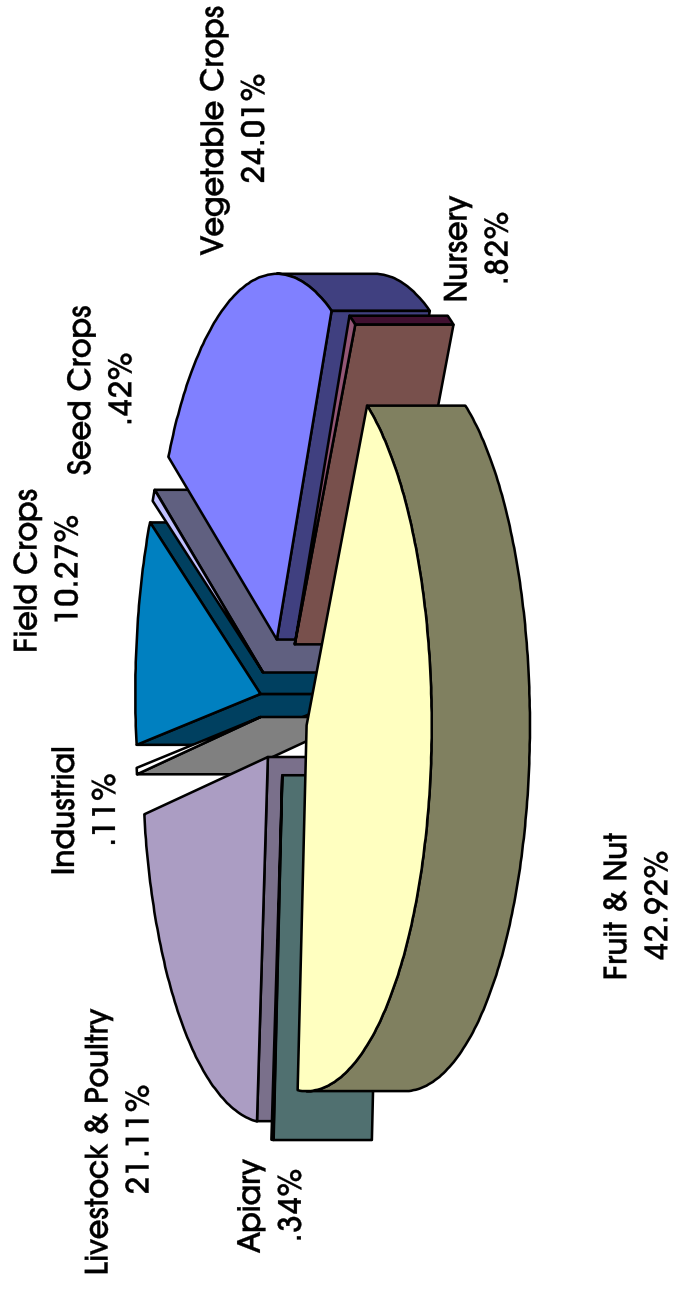
1985 - 2,054,060,400*	1996 - 3,324,885,800
1986 - 2,125,721,200*	1997 - 3,436,443,500*
1987 - 2,264,044,000*	1998 - 3,257,712,600*
1988 - 2,444,732,600*	1999 - 3,570,027,600*
1989 - 2,607,648,800*	2000 - 3,281,285,400*
1990 - 2,949,484,000*	2001 - 3,220,101,800
1991 - 2,552,305,040*	2002 - 3,440,927,000*
1992 - 2,635,447,400*	2003 - 4,073,338,500*
1993 - 3,022,311,100*	2004 - 4,603,936,200*
1994 - 3,084,870,800	2005 - 4,641,194,200
1995 - 3,142,878,300*	

**SIX-YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY**

<b>CROPS</b>	<b>1985</b>	<b>1995</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Field</b>	\$ 545,842,000	\$ 643,647,000	\$ 514,089,000	\$ 499,694,000	\$ 594,728,000	\$ 476,554,000
<b>Seed</b>	40,314,000	29,892,000	61,005,000	37,423,000	18,972,000	19,429,000
<b>Vegetable</b>	343,493,000	734,669,000	865,452,000	1,226,164,000*	1,189,460,000*	1,114,181,000
<b>Fruit &amp; Nut</b>	684,976,400*	1,052,081,200	1,235,426,000	1,491,636,000*	1,806,133,000*	1,992,093,000
<b>Nursery</b>	7,882,000	16,211,000*	32,406,600	32,724,700	35,067,000	38,091,000
<b>Livestock</b>	420,329,000*	652,028,000	712,273,000*	768,675,000	941,680,000	979,885,000
<b>Apiary</b>	6,029,000	7,020,700	11,179,400	11,063,800	11,603,200	15,924,200
<b>Industrial</b>	5,195,000	7,329,400	9,096,000	5,958,000	6,293,000	5,037,000
<b>TOTAL</b>	<b>\$ 2,054,060,400*</b>	<b>\$ 3,142,878,300*</b>	<b>\$ 3,440,927,000*</b>	<b>\$ 4,073,338,500*</b>	<b>\$ 4,603,936,200*</b>	<b>\$ 4,641,194,200</b>

\*Revised

**RELATIONSHIP IN TERMS OF TOTAL VALUE  
FOR 2005 CROP YEAR  
\$ 4,641,194,200**



# GROWTH OF FRESNO COUNTY AGRICULTURE OVER A TWENTY-YEAR SPAN 1986 through 2005

