### DEPARTMENT OF AGRICULTURAL AND RESOURCE ECONOMICS DIVISION OF AGRICULTURE AND NATURAL RESOURCES UNIVERSITY OF CALIFORNIA AT BERKELEY

#### **WORKING PAPER NO. 783**

# AGRICULTURE IN VENTURA COUNTY Its Impact on the County Economy

by

Jill McCluskey, Graduate Researcher and George Goldman, Economist

Copyright  $\odot$  1995 by Jill McCluskey and George Goldman. All rights reserved. Readers may make verbatim copies of this document for non-commercial purposes by any means, provided that this copyright notice appears on all such copies.

California Agricultural Experiment Station Giannini Foundation of Agricultural Economics November 1995

#### **ABSTRACT**

| Authors: | Jill McCluskey, | Graduate Researcher |
|----------|-----------------|---------------------|
|----------|-----------------|---------------------|

George Goldman, Cooperative Extension Specialist Department of Agricultural and Resource Economics University of California, Berkeley

321 Giannini Hall

Berkeley, CA 94720-3310 Goldman@are.Berkeley.EDU

Pages: 48

Abstract (no more than 100 words)

**Biographical information** 

Keywords (not more than 6 words or phrases to be used to index the article)

## **Table of Contents**

| Executive Summary                               | 1  |
|---|----|
| Chapter 1                                       | 4  |
| I. Crops  | 4  |
| Land Use  | 4  |
| History of Ventura County Crops                 | 6  |
| Acreage by Crop                                 | 7  |
| Total Harvested Acres                           | 10 |
| Crop Rankings                                   | 12 |
| Productivity: Crop Yields                       | 13 |
| Value of Crops                                  | 16 |
| Production Cost Breakdowns: Leading Crops       | 23 |
| Leading Commodities and Productions Totals      | 25 |
| Agricultural Production in Tons                 | 27 |
| II. Farmland Characteristics                    | 28 |
| Land in Farms                                   | 28 |
| Value of Assets                                 | 29 |
| III. People on Farms                            | 31 |
| Farm Ownership and Tenure                       | 31 |
| Age, Gender and Race                            | 32 |
| Net Income                                      | 34 |
| Chapter 2                                       | 38 |
| I. Who Works in Agriculture                     | 38 |
| Farm Labor Contractors                          |    |
| Seasonality of Employment                       | 41 |
| II. Countercyclical Employment in Agriculture   | 42 |
| III. Affordable Housing for Farm Labor          | 43 |
| Chapter 3                                       | 46 |
| Aggregate Measures of the Food and Fiber Sector | 46 |
| Bibliography                                    | 48 |

#### **Executive Summary**

California, with a value of \$19.9 billion in 1993 led the United States in agricultural production. Ventura County agricultural production was worth \$848.3 million in 1993 and is in the top fifth of counties in California. Even though only one-fourth of the land in the County is in farms and ranches, Ventura County was ranked eleventh out of fifty-eight counties in California for agricultural production in 1993. Ventura County is one of the five leading counties in California for ten commodities. It leads the state in production of lemons (with 61% of all lemons grown in California), celery and cabbage. Ventura County produces more than forty varieties of fruits and vegetables.

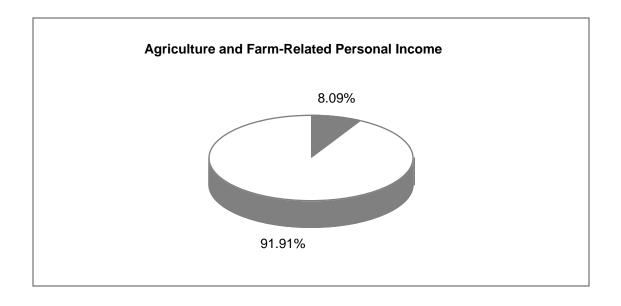
Approximately 27% of the land (nearly 321,000 acres) in Ventura County is occupied by farms and ranches. This compares with about 30% of the land in California. About 31% of the agricultural land in Ventura County is irrigated. Approximately three-fourths of cropland is used to grow fruits and vegetables.

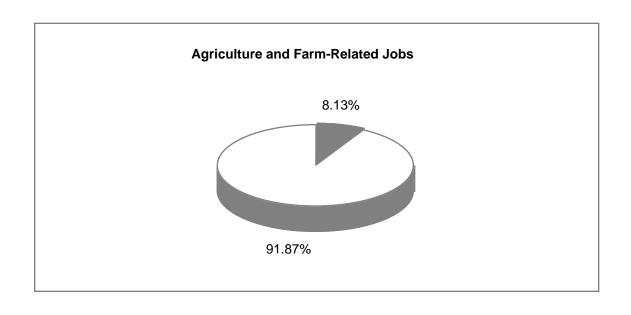
The unique and most valuable feature of the coastal plain of Ventura County is its extremely mild, almost frost-free, Mediterranean climate. The climate is suitable for subtropical fruits, year-round production of several vegetables, and a long harvest season for strawberries. Because of its unique climate and good soil, land in Ventura County has a high value for farming. However, land in Ventura County is also highly valued as real estate. Land value and water price and availability are two of the more critical issues facing agriculture.

In 1992, agriculture and agriculture-related products contributed to Ventura County's economy by providing just over 8% of the county's employment and 8.09% of its personal income.

Exhibits A & B

## Multiplier Effects - Economic Impacts of the Food and Fiber Industry, 1992





## Economic Impact of Ventura County Agriculture

|                         | Income     | Value Added | Jobs    |
|-------------------------|------------|-------------|---------|
|                         | \$1,000    | \$1,000     | Number  |
| Ventura County          | 15,088,406 | 18,146,531  | 352,200 |
| Agriculture             | 727,437    | 783,903     | 19,652  |
| Agriculture Processing  | 493,582    | 526,638     | 8,989   |
| Total                   | 1,221,019  | 1,310,541   | 28,641  |
| Ag. as % of Ventura Co. | 8.09%      | 7.22%       | 8.13%   |

#### Sources for Data:

- 1. Ventura County Personal Income, 1992: California Department of Finance, Sacramento
- 2. Ventura County Value Added, 1992: Estimated applying ratio of California State Product to Personal Income in 1989 to Ventura County Personal Income in 1992.
- 3. Ventura County Employment, 1992: California Employment Development Department, Sacramento

Statistics alone cannot satisfactorily characterize agriculture in Ventura County. It is best described as a highly efficient and productive system that benefits from a favorable combination of climate, land, capital, and dedicated, knowledgeable agriculturists who use the latest techniques in production and water conservation.

#### Chapter 1

Farms and Farmer Characteristics

#### I. Crops

#### Land Use

Farms and ranches occupy 321,000 acres in Ventura County, which is 26.9 percent of county land. Cropland (which includes harvested cropland, cropland used for pastures, and other cropland) accounts for 131,000 acres or 40.8 percent of land in farms and ranches. In 1974, the definition of a farm was changed<sup>1</sup>.

|            |              |              |             |              | ole 1<br>of the Land |              |           |              |           |
|------------|--------------|--------------|-------------|--------------|----------------------|--------------|-----------|--------------|-----------|
|            |              | Land in      |             |              | Cropland             |              | Woodland  |              | Other     |
|            | Total Land   | Farms and    |             | Total        | as a % of            |              | as a % of | Other        | as a % of |
| Ventura    | Area         | Ranches      | % of Total  | Cropland*    | Farms and            | Woodland     | Farms and | Land**       | Farms and |
| County     | (1000 acres) | (1000 acres) | <b>Land</b> | (1000 acres) | Ranches              | (1000 acres) | Ranches   | (1000 acres) | Ranches   |
| 1964       | 1,192        | 437          | 36.66       | 158          | 36.16                | 7            | 1.60      | 272          | 62.24     |
| 1969       | 1,192        | 433          | 36.33       | 144          | 33.26                | 5            | 1.15      | 284          | 65.59     |
| 1974       | 1,192        | 310          | 26.01       | 128          | 41.29                | 5            | 1.61      | 177          | 57.10     |
| 1978       | 1,192        | 340          | 28.52       | 140          | 41.18                | 15           | 4.41      | 185          | 54.41     |
| 1982       | 1,192        | 301          | 25.25       | 136          | 45.18                | 10           | 3.32      | 141          | 46.84     |
| 1987       | 1,192        | 329          | 27.60       | 134          | 40.73                | 12           | 3.65      | 183          | 55.62     |
| 1992       | 1,192        | 321          | 26.93       | 131          | 40.81                | 5            | 1.55      | 185          | 57.63     |
| California |              |              |             |              |                      |              |           |              |           |
| 1964       | 100,207      | 37,012       | 36.94       | 11,815       | 31.92                | 3,403        | 9.19      | 21,793       | 58.88     |
| 1969       | 100,069      | 35,328       | 35.30       | 11,245       | 31.83                | 2,038        | 5.77      | 22,045       | 62.40     |
| 1974       | 100,069      | 33,386       | 33.36       | 10,630       | 31.84                | 1,522        | 4.56      | 21,234       | 63.60     |
| 1978       | 100,070      | 32,327       | 32.30       | 11,455       | 35.43                | 1,365        | 4.22      | 19,908       | 61.58     |
| 1982       | 100,031      | 32,157       | 32.15       | 11,257       | 35.01                | 1,483        | 4.61      | 19,416       | 60.38     |
| 1987       | 100,031      | 30,598       | 30.59       | 10,895       | 35.61                | 1,351        | 4.42      | 18,352       | 59.98     |
| 1992       | 100,031      | 28,979       | 28.97       | 10,479       | 36.16                | 1,150        | 3.97      | 17,349       | 59.87     |

<sup>\*</sup>Includes harvested cropland, cropland used for pastures, and other cropland.

Source: U.S. Bureau of the Census, Census of Agriculture: California, various years

<sup>\*\*</sup>Includes pasture land, rangeland, houses and barns, lots, ponds, roads, and wasteland.

<sup>&</sup>lt;sup>1</sup>The definition of a farm which has been used in the Census of Agriculture since 1974 is any agricultural operation whose production is valued at greater than or equal to \$1,000. The definition used before 1974 had a minimum value on production of \$500. This decreases the number of farms because farms with production below \$1000 are not counted.

#### Port of Hueneme

The deep water Port of Hueneme enables Ventura County farmers to ship their products abroad from a location within Ventura County. Export activity at the Port of Hueneme consists exclusively of agricultural products. Citrus growers have especially taken advantage of this lower cost alternative for shipping their product to Asia. Port Hueneme not only reduces the transportation costs involved in getting an agricultural product to market, but also provides high-paying jobs for Ventura County. Built in 1870, the Port of Hueneme in Ventura County is the only deep water port between Los Angeles and San Francisco. It is located on a projection into sea about twelve miles north of Point Maugu.

In February of 1992, the Port of Hueneme became an official "Port of Entry" under the U.S. Department of Customs.<sup>2</sup> The Port handles "break bulk" cartons like those used for shipping citrus. Fresh fruit exports are at an all-time high of 178,409 tons in fiscal year 1994 and are expected to continue growing. The reason for this explosion in export activity is that in December of 1993, Sunkist Growers switched from using the Port of Long Beach to the Port of Hueneme.

When the UCSB Economic Forecast Project did an Economic base study of the Oxnard-Port Hueneme area, they pointed out that "[r]elatively very high salaries for the employment of longshoremen are paid to Port workers. The monthly number of registered longshoremen, clerks, and foremen is 93 in 1994. The average annual salary for registered longshoremen was \$48,248 in 1993. Including clerks and foremen, salaries for Port workers averaged \$52,291 in 1993."

<sup>&</sup>lt;sup>2</sup>Economic Base Study Oxnard-Port Hueneme Area, p. 23.

<sup>&</sup>lt;sup>3</sup>Economic Base Study Oxnard-Port Hueneme Area, p. 24.

#### History of Ventura County Crops

In 1542 Juan Cabrillo landed on the shore of what is now Ventura County, during his explorations of the California coast. Over 200 years later, in 1782, Missionaries came to this same area and established Mission San Buenaventura. They brought in sheep, cattle, and crops from the Mediterranean. Other plants, especially rangeland grasses and forbes and cropland weeds, were introduced unintentionally and spread over both wild and cultivated lands.

Walnuts and lemons were introduced in 1867. In 1880 to 1910, barley for grain and hay, and oats were grown on over 60,000 acres without irrigation. These crops can still be grown without irrigation on as much as 10,000 acres of hilly land in years with near or above average rainfall. In the 1880's, figs, prunes, and apples were tried, but none became important crops. Lima beans were introduced in 1868, and exceeded 50,000 acres in some years between 1900 and 1943. After the early 1940's, lima bean acreage declined steadily. Following the building of a sugar factory in 1899, there were about 11,000 acres of sugar beets. Sugar beet acreage fell to two to three thousand acres in the late 1960's and early 1970's, and almost none since 1985.<sup>4</sup> (See Oxnard Brothers' story on page 40 for more about sugar beets.)

In terms of both acreage and production value, lemons are currently number one in Ventura County. Lemons first became the highest-valued commodity in 1930 and have stayed in the number one spot since 1947. In recent years, the number two and three commodities have been celery and strawberries. Strawberries were first planted in Ventura County in 1929. Acreage was first reported in the Ventura County Crop reports in 1940 when strawberries acreage totaled 5 acres with a total value of \$5,520. By 1951, strawberry acreage had only increased to eleven acres with a crop value of \$16,357. In the following ten years there was a great expansion with strawberry plantings occupying 520 acres with a value of \$1.7 million.

The early cultural practice for strawberry production was to fumigate the fields in alternate strips. After twenty-four hours, the tarp from the fumigated strip was removed and the other strips were fumigated. This meant going over the field twice.

<sup>&</sup>lt;sup>4</sup>Cooperative Extension, University of California, Ventura County

In later years, the industry perfected a procedure that is called the "continuous tarp method" of fumigation. The applicator laid the first strip, then glued the next tarp edge to the edge of the tarp in place with the opposite edge buried. This method required only one trip over the field which helped to cut costs and lessened soil compaction in the fields.

Celery was first planted in 1923 with a total production of 155 tons. Celery did not appear to be grown again until 1934, with about fifty acres of celery grown steadily for about the next ten years. By 1951, the acreage had increased to 403 acres. In the early 1960's, celery and strawberries became two of the major row crops in the county. Cultural and harvesting practices also changed drastically in the early 1960's for celery. The early harvesting practice for celery was to cut the celery, place it in bins, and transport it to a packing house for washing, trimming and packing. In later years, celery growers packed the celery in the field.<sup>5</sup>

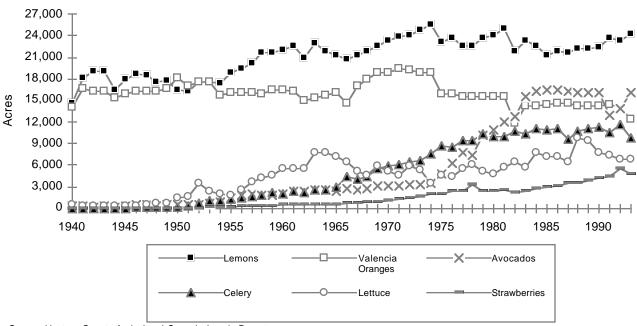
#### Acreage by Crop

Acreage reported in the tables and graphs means acreage harvested. Therefore, an increase in vegetable crop acreage may signify more double cropping, not additional land in production. Double cropping occurs when the same land is used for two growing cycles in the same year. Total harvested acres are therefore greater than acres cultivated. In Ventura County, on average about 20,000 acres of vegetables are double cropped. There is no significant triple cropping in Ventura County. Lemons are the leader in the use of cropland with 18% of all cropland. Avocados and Valencia Oranges round out the top three crops for cropland acreage. Vegetable acreage increased steadily from less than 10,000 in 1945 to over 40,000 in 1960. Then it increased slowly to 59,685 acres in 1984.

-

<sup>&</sup>lt;sup>5</sup>History of Ventura County celery and strawberries paraphrased from the *Ventura County Agricultural Commissioner's Report*, 1988.

Figure 1
Ventura County Crop Acreage
(Harvested Acres)



Source: Ventura County Agricultural Commissioner's Reports.

| Table 2 Ventura County Crop Acreage, Selected Crops (Harvested Acres) |               |                  |                  |                 |                |                     |                 |                |
|---|---------------|------------------|------------------|-----------------|----------------|---------------------|-----------------|----------------|
|   |               | Valencia         |                  |                 |                |                     |                 |                |
| <u>Year</u>   | <u>Lemons</u> | <u>Oranges</u>   | <u>Avocados</u>  | <u>Celery</u>   | <u>Lettuce</u> | <u>Strawberries</u> | <u>Broccoli</u> | <u>Cabbag</u>  |
| 1940  | 14,652        | 14,080           | 312              | 55              | 475            | 0                   | 0               | 150            |
| 941   | 18,152        | 16,586           | 325              | 0               | 420            | 0                   | 0               | 200            |
| 942   | 19,004        | 16,332           | 231              | 36              | 330            | 4                   | 0               | 200            |
| 943   | 19,004        | 16,332           | 258              | 23              | 250            | 0                   | 0               | 110            |
| 944   | 16,446        | 15,321           | 231              | 35              | 250            | 0                   | 44              | 90             |
| 945   | 17,954        | 15,919           | 379              | 55              | 312            | 0                   | 100             | 287            |
| 946   | 18,670        | 16,374           | 430              | 57              | 357            | 0                   | 112             | 19             |
| 947   | 18,588        | 16,374           | 430              | 65              | 430            | 0                   | 76              | 31             |
| 948   | 17,620        | 16,295           | 422              | 69              | 660            | 14                  | 106             | 65             |
| 949   | 17,708        | 16,756           | 470              | 155             | 797            | 0                   | 152             | 238            |
| 950   | 16,537        | 18,081           | 497              | 159             | 1,478          | 0                   | 242             | 284            |
| 951   | 16,318        | 17,033           | 512              | 403             | 1,581          | 11                  | 401             | 405            |
| 952   | 17,631        | 17,532           | 548              | 693             | 3,519          | 54                  | 925             | 348            |
| 953   | 17,631        | 17,532           | 700              | 1,003           | 2,427          | 137                 | 1,080           | 266            |
| 954   | 17,339        | 15,827           | 807              | 1,147           | 1,980          | 150                 | 789             | 183            |
| 955   | 18,799        | 16,070           | 1,365            | 1,299           | 1,829          | 141                 | 889             | 433            |
| 956   | 19,496        | 16,146           | 1,841            | 1,486           | 2,500          | 310                 | 1,747           | 960            |
| 957   | 20,260        | 16,086           | 1,977            | 1,601           | 3,692          | 301                 | 1,686           | 1,107          |
| 958   | 21,670        | 15,986           | 1,766            | 1,739           | 4,221          | 310                 | 1,435           | 1,757          |
| 959   | 21,728        | 16,436           | 1,829            | 2,210           | 4,572          | 334                 | 2,360           | 1,908          |
| 960   | 22,009        | 16,480           | 2,084            | 2,017           | 5,485          | 530                 | 3,014           | 1,954          |
| 961   | 22,656        | 16,320           | 2,375            | 2,424           | 5,542          | 520                 | 2,106           | 1,359          |
| 962   | 20,886        | 15,055           | 2,337            | 2,190           | 5,468          | 461                 | 1,520           | 2,312          |
| 963   | 22,895        | 15,436           | 2,574            | 2,574           | 7,746          | 480                 | 1,509           | 2,261          |
| 964   | 21,876        | 15,687           | 2,649            | 2,649           | 7,723          | 489                 | 1,693           | 2,350          |
| 965   | 21,289        | 16,146           | 2,359            | 2,855           | 7,125          | 535                 | 1,562           | 2,667          |
| 966   | 20,770        | 14,679           | 2,661            | 4,330           | 6,550          | 617                 | 2,030           | 2,330          |
| 967   | 21,245        | 16,971           | 2,613            | 4,029           | 5,107          | 701                 | 2,318           | 2,389          |
| 968   | 21,878        | 17,962           | 2,785            | 4,440           | 4,650          | 858                 | 2,040           | 2,495          |
| 969   | 22,550        | 18,940           | 3,060            | 5,440           | 5,820          | 915                 | 2,260           | 2,160          |
| 970   | 23,380        | 18,830           | 3,070            | 5,940           | 5,210          | 1,040               | 2,060           | 2,670          |
| 971   | 23,868        | 19,374           | 3,155            | 6,147           | 4,614          | 1,273               | 3,406           | 3,617          |
| 972   | 24,033        | 19,215           | 3,279            | 6,516           | 5,927          | 1,429               | 3,728           | 2,891          |
| 973   | 24,870        | 18,878           | 3,387            | 6,716           | 5,437          | 1,606               | 2,090           | 2,924          |
| 974   | 25,513        | 18,884           | 3,497            | 7,534           | 3,518          | 2,011               | 4,492           | 3,172          |
| 975   | 23,098        | 15,879           | 4,720            | 8,739           | 4,688          | 2,050               | 3,561           | 3,100          |
| 976   | 23,697        | 15,849           | 6,212            | 8,558           | 4,504          | 2,290               | 3,149           | 2,122          |
| 977   | 22,609        | 15,571           | 7,768            | 9,437           | 5,615          | 2,430               | 5,011           | 1,548          |
| 977<br>978  | 22,530        | 15,502           | 7,708<br>7,416   | 9,437           | 6,157          | 3,230               | 4,320           | 1,760          |
|   | 23,647        |                  |                  |                 |                |                     |                 |                |
| 979<br>980  | 23,047        | 15,580<br>15,633 | 10,187<br>10,917 | 10,309<br>9,934 | 5,247<br>4,696 | 2,383<br>2,419      | 2,649<br>2,704  | 1,604<br>1,727 |
| 980<br>981  | 24,147        | 15,533           | 12,100           | 10,011          | 5,703          | 2,535               | 2,704           | 1,727          |
| 981<br>982  |               |                  |                  |                 | 5,703<br>6,387 |                     |                 |                |
|   | 21,824        | 11,819           | 12,748           | 10,793          |                | 2,227               | 6,260           | 1,832          |
| 983   | 23,295        | 14,204           | 15,636           | 10,290          | 5,637          | 2,300               | 4,653           | 1,781          |
| 984   | 22,620        | 14,310           | 16,251           | 11,079          | 7,686          | 2,760               | 4,589           | 1,984          |
| 985   | 21,340        | 14,424           | 16,448           | 10,976          | 7,220          | 3,006               | 6,394           | 1,620          |
| 986   | 21,806        | 14,535           | 16,503           | 11,075          | 7,178          | 3,027               | 4,686           | 2,409          |
| 987   | 21,669        | 14,535           | 16,303           | 9,615           | 6,390          | 3,468               | 4,985           | 2,004          |
| 988   | 22,169        | 14,245           | 16,103           | 10,650          | 9,792          | 3,500               | 2,481           | 3,134          |
| 989   | 22,285        | 14,245           | 16,170           | 11,100          | 9,342          | 3,938               | 2,429           | 2,432          |
| 990   | 22,381        | 14,294           | 16,198           | 11,242          | 7,842          | 4,200               | 2,791           | 1,590          |
| 991   | 23,630        | 14,355           | 12,926           | 10,528          | 7,368          | 4,435               | 4,457           | 2,503          |
| 992   | 23,369        | 14,006           | 13,911           | 11,723          | 6,826          | 5,550               | 4,600           | 2,757          |
| 993   | 24,239        | 12,325           | 16,199           | 9,878           | 6,824          | 4,795               | 4,632           | 2,202          |

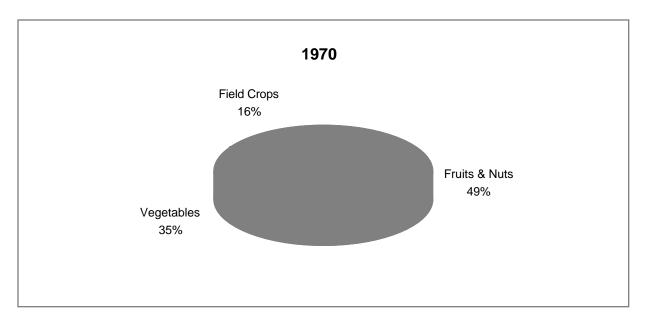
#### Total Harvested Acres

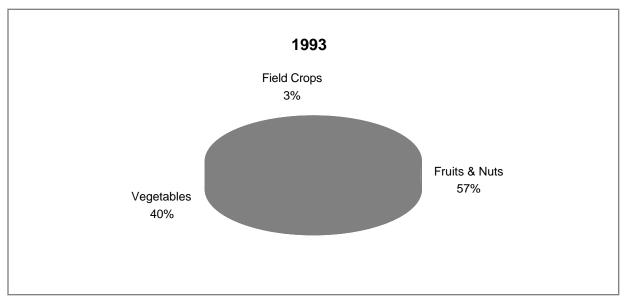
Harvested acres of higher-value fruits and vegetables, such as avocados, broccoli and lettuce, have increased, while harvested acres of low-value field crops have decreased. It should be noted that acreage of pasture, nursery stock, cut flowers are not included in Table 3. Harvested acres should be slightly larger than irrigated acres.

| Table 3 Ventura County Harvested Acres by commodity group |                         |                    |             |              |  |  |  |
|---|-------------------------|--------------------|-------------|--------------|--|--|--|
| <u>Year</u>   | Fruits & Nuts           | <u>Vegetables</u>  | Field Crops | <u>Total</u> |  |  |  |
| 1970  | 51,966                  | 37,000             | 17,120      | 106,086      |  |  |  |
| 1971  | 52,743                  | 41,580             | 29,309      | 123,632      |  |  |  |
| 1972  | 52,833                  | 45,880             | 20,026      | 118,739      |  |  |  |
| 1973  | 53,520                  | 43,239             | 23,410      | 120,169      |  |  |  |
| 1974  | 54,222                  | 45,340             | 26,854      | 126,416      |  |  |  |
| 1975  | 49,282                  | 48,874             | 29,805      | 127,961      |  |  |  |
| 1976  | 51,895                  | 39,901             | 21,987      | 113,783      |  |  |  |
| 1977  | 52,393                  | 46,752             | 22,740      | 121,885      |  |  |  |
| 1978  | 52,934                  | 46,829             | 20,473      | 120,236      |  |  |  |
| 1979  | 56,138                  | 49,467             | 17,063      | 122,668      |  |  |  |
| 1980  | 57,676                  | 43,408             | 18,836      | 119,920      |  |  |  |
| 1981  | 59,675                  | 45,176             | 14,547      | 119,398      |  |  |  |
| 1982  | 55,064                  | 52,255             | 13,454      | 120,773      |  |  |  |
| 1983  | 59,217                  | 49,851             | 14,760      | 123,828      |  |  |  |
| 1984  | 59,575                  | 59,685             | 10,507      | 129,767      |  |  |  |
| 1985  | 58,575                  | 58,099             | 10,004      | 126,678      |  |  |  |
| 1986  | 59,608                  | 51,163             | 9,829       | 120,600      |  |  |  |
| 1987  | 59,076                  | 47,012             | 7,467       | 113,555      |  |  |  |
| 1988  | 58,714                  | 48,962             | 6,707       | 114,383      |  |  |  |
| 1989  | 59,286                  | 47,264             | 7,076       | 113,626      |  |  |  |
| 1990  | 59,721                  | 46,725             | 2,632       | 109,078      |  |  |  |
| 1991  | 58,238                  | 47,109             | 3,282       | 108,629      |  |  |  |
| 1992  | 59,122                  | 46,522             | 3,287       | 108,931      |  |  |  |
| 1993  | 59,685                  | 41,798             | 3,629       | 105,112      |  |  |  |
| Source: Ventura C   | ounty Agricultural Comm | issioner's Reports |             |              |  |  |  |

Exhibits C & D

Composition of Ventura County Harvested Acres





#### Crop Rankings

Ventura County agriculture exhibits a great deal of diversity. It produces more than forty varieties of fruits and vegetables. There are thirty farm products with sales in excess of a million dollars. Ventura County leads the state in three commodities for production value: lemons, cabbage, and celery. It is one of the top five counties in California for ten commodities.

| Table 4   |    |
|---|----|
| Ventura County Ranki<br>in California Farm Comm |    |
| All Commodities                                 | 12 |
| All Vegetables                                  | 5  |
| Cabbage   | 1  |
| Celery  | 1  |
| Lemons  | 1  |
| Spinach   | 2  |
| Strawberries                                    | 2  |
| Avocados  | 3  |
| Cucumbers                                       | 4  |
| Broccoli  | 5  |
| Cauliflower                                     | 5  |
| Nursery Products                                | 5  |

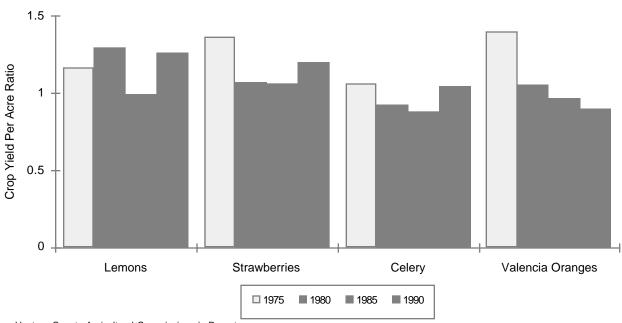
The importance of Ventura County agriculture to California is clear. Ventura County ranks fifth among counties in California in vegetable production. Ventura County produces 61% of all lemons grown in California, 43% of celery, 29% of cabbage, and almost 20% of strawberries. On the national level, Ventura County produces 47% of all lemons and almost 15% of strawberries.

#### Productivity: Crop Yields

Crop yields per acre have increased for Ventura County's leading crops over the past two decades. Comparing 1973 crop yields per acre with 1993 yields per acre, the avocado crop yield per acre has increased the most with a 50% increase, owing to a large number of young plantings. The increases in crop yields per acre for other leading crops are not as dramatic. The crop yield per acre for lemons increased by 2%; for strawberries, the increase was 19%; and for celery, it was 20%.

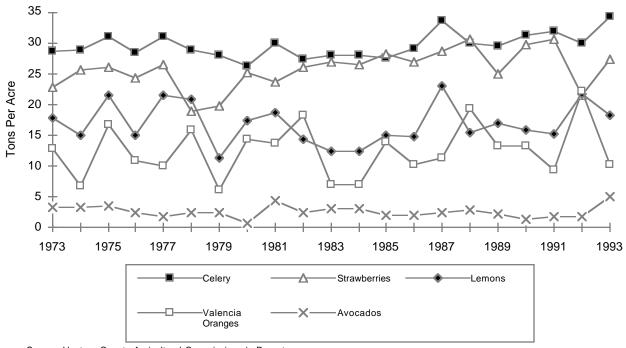
Ventura County crop yields per acre for these selected crops are slightly better than statewide yields on average. The 1990 ratio of Ventura County crop yields per acre to California crop yields per acre for lemons, celery, strawberries, avocados and Valencia oranges are respectively as follows: 1.26, 1.05, 1.20, 0.93, and 0.90. The average ratio of Ventura County crop yields per acre to California crop yields per acre for the same crops over the last twenty years are respectively, 1.20, 0.98, 1.13, 0.89, and 1.11. Figure 3 (below) shows the ratio of Ventura County crop yields per acre to California crop yields per acre to California crop yields per acre for selected years.

Figure 2
Crop Yield Per Acre Ratio:
Ventura County Versus California



Source: Ventura County Agricultural Commissioner's Reports.

Figure 3
Ventura County Crop Yield Per Acre



Source: Ventura County Agricultural Commissioner's Reports.

|      |        | Tabl<br>Crop Yields Pe<br>Ventura | er Acre (tons) |          |         |
|------|--------|-----------------------------------|----------------|----------|---------|
|      |        |                                   |                | Valencia |         |
| Year | Celery | Strawberries                      | Lemons         | Oranges  | Avocado |
| 1973 | 28.6   | 22.9                              | 17.9           | 12.9     | 3.4     |
| 1974 | 29.0   | 25.7                              | 15.0           | 6.8      | 3.3     |
| 1975 | 31.0   | 26.0                              | 21.5           | 16.7     | 3.6     |
| 1976 | 28.5   | 24.4                              | 15.1           | 10.9     | 2.5     |
| 1977 | 31.0   | 26.5                              | 21.5           | 10.1     | 1.8     |
| 1978 | 29.0   | 19.0                              | 20.9           | 15.8     | 2.4     |
| 1979 | 28.0   | 19.8                              | 11.3           | 6.2      | 2.4     |
| 1980 | 26.4   | 25.2                              | 17.5           | 14.3     | 0.8     |
| 1981 | 30.0   | 23.7                              | 18.7           | 13.8     | 4.3     |
| 1982 | 27.5   | 26.0                              | 14.3           | 18.3     | 2.5     |
| 1983 | 28.0   | 27.0                              | 12.4           | 6.9      | 3.2     |
| 1984 | 28.0   | 26.6                              | 12.4           | 6.9      | 3.2     |
| 1985 | 27.6   | 28.2                              | 15.1           | 14.0     | 2.1     |
| 1986 | 29.1   | 27.0                              | 14.8           | 10.2     | 2.1     |
| 1987 | 33.6   | 28.8                              | 23.0           | 11.4     | 2.4     |
| 1988 | 30.1   | 30.6                              | 15.4           | 19.3     | 2.8     |
| 1989 | 29.5   | 25.0                              | 16.9           | 13.3     | 2.2     |
| 1990 | 31.4   | 29.8                              | 15.9           | 13.2     | 1.3     |
| 1991 | 31.9   | 30.6                              | 15.2           | 9.5      | 1.7     |
| 1992 | 30.1   | 21.6                              | 21.7           | 22.1     | 1.7     |
| 1993 | 34.3   | 27.3                              | 18.2           | 10.2     | 5.1     |
|      |        | Califo                            | rnia           |          |         |
| 1973 | 28.5   | 19.8                              | 16.3           | 10.0     | 3.6     |
| 1974 | 29.0   | 21.5                              | 13.0           | 8.0      | 2.6     |
| 1975 | 29.1   | 19.0                              | 18.5           | 11.9     | 4.4     |
| 1976 | 28.1   | 19.5                              | 12.2           | 11.1     | 2.3     |
| 1977 | 29.0   | 22.5                              | 16.3           | 10.2     | 4.1     |
| 1978 | 27.5   | 19.5                              | 16.4           | 11.3     | 3.1     |
| 1979 | 27.2   | 20.5                              | 10.6           | 8.2      | 3.1     |
| 1980 | 28.5   | 23.5                              | 13.5           | 13.6     | 1.7     |
| 1981 | 28.9   | 24.8                              | 18.0           | 14.1     | 5.0     |
| 1982 | 31.2   | 28.0                              | 13.0           | 8.0      | 2.4     |
| 1983 | 30.9   | 24.0                              | 15.2           | 19.9     | 2.9     |
| 1984 | 31.4   | 26.8                              | 12.7           | 8.1      | 3.4     |
| 1985 | 31.2   | 26.5                              | 15.2           | 14.5     | 2.6     |
| 1986 | 29.7   | 25.3                              | 11.8           | 11.6     | 2.2     |
| 1987 | 29.8   | 23.5                              | 16.9           | 13.1     | 3.7     |
| 1988 | 32.7   | 22.5                              | 13.2           | 15.5     | 2.4     |
| 1989 | 33.5   | 21.3                              | 12.7           | 13.4     | 2.2     |
| 1990 | 29.9   | 24.8                              | 12.6           | 14.7     | 1.4     |
| 1991 | 33.5   | 24.8                              | 12.1           | 5.3      | 1.8     |
| 1992 | 33.5   | 24.8                              | 12.4           | 17.3     | 2.1     |

#### Value of Crops

Ventura County agriculture is characterized by high-value cash crops that use advanced levels of technology, capital, and management. Ventura County agriculture is concentrated in higher-valued fruits and vegetables. This switch to high-value crops and high per-acre yields partially explain Ventura County's consistently high cash receipts.

Development in Ventura County has caused the value of land to increase in recent years. Increasing costs for land and water may explain some of the shift to high-value crops in Ventura County. The economic argument is as the value of land increases, the returns to the land must also increase. Otherwise, the land may eventually be sold and used in the higher-valued capacity. Agriculture has continued to flourish in Ventura County partly because the County's natural resources have allowed it to produce high-valued crops.

Ventura County's mild, frost-free Mediterranean climate is suitable and reliable for several crops that can only be grown in a small part of the world. The climate makes it possible for the irrigated land in the county to produce agricultural products with high value. Since Ventura County is a coastal community with a mild climate that is close to Los Angeles, it is a desirable place to live. Property values have been bid up in Ventura County relative to the rest of California and the U.S. Much of this may be caused by speculation. If farmers did not inherit the land they are working, then they need to grow crops that require Ventura's unique climate in order to afford the high price or rent they must pay for the land.

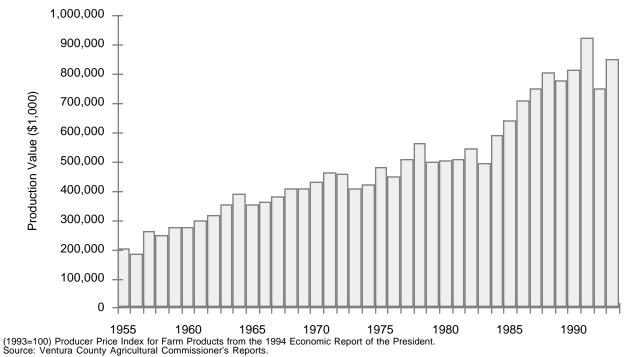
#### Seaside Banana Gardens

Doug Richardson operates the nation's only commercial banana farm outside of Hawaii on a narrow 11-acre strip between the Pacific Ocean and protective bluffs in Ventura County just north of the City of Ventura. The warm climate is somewhat similar to tropical conditions. Seaside Banana Gardens organically grow fifty varieties of bananas. They offer free banana tastings and mail order services.

Seaside Banana Gardens were recently featured in the *New York Times*. The *New York Times* article has given the company access to national and international markets through his mail order business. The mail order business has grown to between ten and fifteen percent of his business. Seaside Banana Gardens also supplies exotic varieties of bananas to local natural food stores. About half of his customers are Ventura County residents. Richardson would like to expand his operation within Ventura County. It takes from one-and-a-half to two years for a banana plant to start producing.

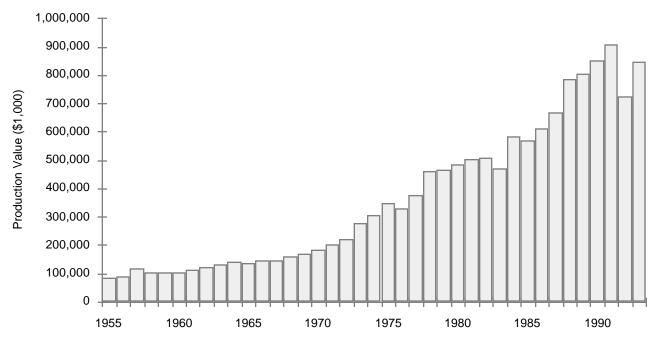
<sup>&</sup>lt;sup>6</sup>New York Times, April 5, 1995, p. B6.

Figure 4 **Value of Ventura County Agricultural Production** 1993 Constant Dollars



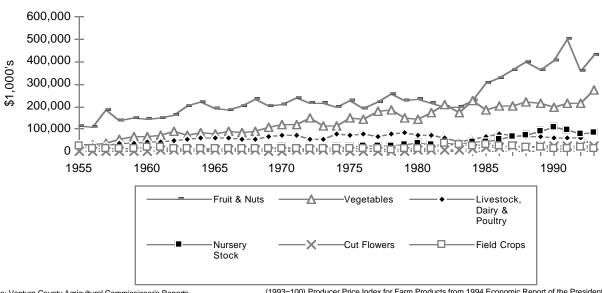
The total value in constant dollars (constant dollars are dollars adjusted for inflation) of Ventura County's agricultural production has been following an upward trend since at least the 1930's.

Figure 5
Value of Ventura County Agricultural Production
Nominal Dollars



Source: Ventura County Agricultural Commissioner's Reports.

Figure 6 Value of Ventura County Agricultural Commodities 1993 Constant Dollars



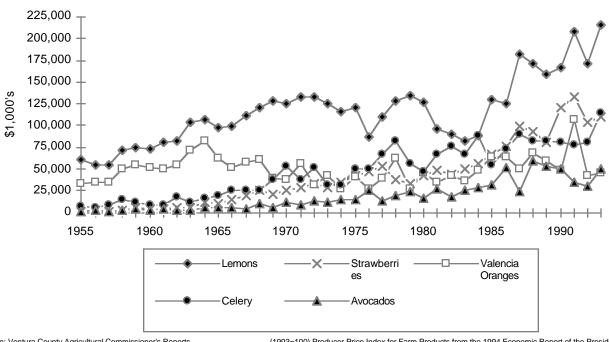
Source: Ventura County Agricultural Commissioner's Reports

(1993=100) Producer Price Index for Farm Products from 1994 Economic Report of the President.

Strawberries have made the greatest gains in production in the last fifty years. In the early 1940's almost no strawberries were grown in Ventura County. Adjusting for inflation<sup>7</sup>, the 1993 value of strawberry production is 136 times as large as the 1955 value. Avocados come in second for increases in value with an inflation adjusted production value ratio of 1993 to 1955 of 36.2. Production of Valencia Oranges has been flat relative to lemons.

<sup>&</sup>lt;sup>7</sup>Nominal values were converted to real values by using the Producer Price Index for Farm Products.

Figure 7 **Ventura County Production Values for Selected Crops** 1993 Constant Dollars



Source: Ventura County Agricultural Commissioner's Reports.

(1993=100) Producer Price Index for Farm Products from the 1994 Economic Report of the President.

In the last fifty years, high-valued crops such as strawberries and avocados have shown the greatest increases. Once negligible commodities, strawberries and avocados are now 13% and 10%, respectively, of total production.

Table 6
Ventura County
Constant Dollar Production Value of Selected Crops (\$)

| Year | avocados   | v. oranges  | lemons      | strawberries | cabbage    | celery      | lettuce    |
|------|------------|-------------|-------------|--------------|------------|-------------|------------|
| 1955 | 1,377,053  | 34,027,840  | 60,354,266  | 816,693      | 884,280    | 7,397,544   | 2,403,307  |
| 1956 | 1,982,048  | 35,367,925  | 55,369,225  | 2,560,796    | 1,190,428  | 4,997,697   | 2,615,099  |
| 1957 | 1,393,162  | 35,054,952  | 54,770,679  | 1,037,988    | 2,154,501  | 8,071,968   | 5,083,690  |
| 1958 | 3,002,653  | 49,896,812  | 71,944,420  | 2,343,890    | 2,843,183  | 15,257,312  | 4,652,375  |
| 1959 | 3,631,656  | 54,718,049  | 75,207,966  | 5,027,149    | 3,905,571  | 11,176,471  | 6,906,287  |
| 1960 | 3,248,741  | 51,115,614  | 73,701,825  | 4,761,566    | 2,937,284  | 9,238,754   | 7,462,994  |
| 1961 | 4,549,865  | 49,840,431  | 81,075,472  | 4,752,022    | 2,761,725  | 9,407,008   | 9,563,342  |
| 1962 | 2,938,559  | 54,961,864  | 82,343,750  | 5,339,778    | 6,495,498  | 17,799,258  | 12,023,305 |
| 1963 | 3,357,741  | 72,086,733  | 104,312,618 | 6,133,748    | 2,354,499  | 11,302,891  | 12,666,577 |
| 1964 | 5,164,335  | 82,283,128  | 106,750,343 | 11,182,442   | 3,946,091  | 16,786,008  | 14,320,165 |
| 1965 | 5,077,024  | 63,130,126  | 97,319,401  | 9,706,362    | 4,511,830  | 20,079,653  | 11,919,295 |
| 1966 | 5,950,049  | 52,137,610  | 98,611,655  | 14,135,651   | 4,122,429  | 26,285,504  | 11,900,098 |
| 1967 | 4,422,280  | 57,450,777  | 111,058,290 | 19,702,073   | 4,155,440  | 26,093,264  | 8,195,078  |
| 1968 | 9,822,919  | 60,844,928  | 121,110,549 | 24,857,071   | 3,943,081  | 25,135,340  | 6,903,618  |
| 1969 | 5,133,143  | 39,919,163  | 129,044,223 | 21,600,095   | 4,234,427  | 37,803,138  | 13,899,192 |
| 1970 | 11,813,084 | 38,401,869  | 125,799,065 | 25,007,009   | 6,485,981  | 52,873,832  | 11,028,037 |
| 1971 | 8,433,984  | 56,670,494  | 132,491,389 | 29,005,970   | 7,432,836  | 38,110,218  | 14,557,979 |
| 1972 | 13,209,664 | 32,371,215  | 132,309,000 | 32,991,290   | 6,217,545  | 51,336,168  | 17,225,218 |
| 1973 | 11,242,861 | 41,747,719  | 124,783,633 | 28,226,818   | 6,476,303  | 32,512,511  | 15,952,164 |
| 1974 | 14,553,774 | 27,421,344  | 115,366,326 | 34,804,119   | 5,274,399  | 31,694,222  | 8,421,482  |
| 1975 | 15,495,831 | 41,442,051  | 120,907,032 | 41,874,236   | 8,288,077  | 49,694,275  | 10,380,906 |
| 1976 | 26,195,410 | 27,547,121  | 87,297,121  | 46,335,823   | 3,680,065  | 49,681,559  | 10,963,607 |
| 1977 | 13,877,779 | 39,146,746  | 109,207,923 | 52,758,658   | 7,209,406  | 67,410,726  | 15,014,688 |
| 1978 | 20,066,008 | 62,490,605  | 127,948,389 | 37,312,836   | 4,947,657  | 81,854,075  | 21,875,915 |
| 1979 | 23,730,125 | 26,712,505  | 134,250,107 | 33,478,728   | 5,464,439  | 56,750,430  | 10,964,761 |
| 1980 | 16,511,386 | 45,648,331  | 126,636,165 | 41,855,048   | 4,168,660  | 47,795,570  | 12,701,466 |
| 1981 | 27,563,059 | 35,316,314  | 96,184,906  | 48,872,050   | 3,733,727  | 67,574,247  | 16,590,724 |
| 1982 | 17,187,032 | 42,425,637  | 90,333,833  | 43,728,868   | 5,548,898  | 75,705,114  | 25,599,187 |
| 1983 | 25,937,304 | 37,018,809  | 82,357,367  | 49,797,283   | 4,880,878  | 66,578,892  | 19,293,626 |
| 1984 | 28,659,229 | 49,179,513  | 89,062,880  | 56,693,712   | 10,594,320 | 87,743,408  | 22,589,249 |
| 1985 | 31,575,158 | 63,880,513  | 130,481,548 | 67,608,011   | 3,952,520  | 55,268,902  | 23,044,554 |
| 1986 | 52,201,106 | 64,126,929  | 124,588,804 | 76,520,387   | 8,661,599  | 73,089,150  | 25,274,130 |
| 1987 | 23,470,028 | 50,528,852  | 182,313,725 | 99,056,583   | 6,151,261  | 89,276,190  | 22,782,073 |
| 1988 | 59,164,627 | 67,922,277  | 172,049,164 | 92,835,577   | 15,212,158 | 82,814,157  | 38,791,310 |
| 1989 | 53,260,324 | 59,955,616  | 158,668,468 | 81,577,576   | 9,320,726  | 82,445,967  | 28,930,915 |
| 1990 | 50,887,850 | 48,785,047  | 166,890,139 | 120,555,026  | 5,877,360  | 80,538,814  | 23,416,937 |
| 1991 | 34,516,651 | 106,401,458 | 208,500,860 | 132,332,220  | 8,985,727  | 77,065,492  | 28,002,834 |
| 1992 | 30,923,363 | 42,774,220  | 171,576,121 | 104,489,775  | 10,988,432 | 81,507,953  | 24,304,896 |
| 1993 | 49,906,000 | 45,034,000  | 216,129,000 | 110,447,000  | 8,975,000  | 113,823,000 | 28,704,000 |

Source: Ventura County Agricultural Commissioner's Reports

## Production Cost Breakdowns: Leading Crops

The cost of production varies greatly among different crops. Within each crop group there are differences which are caused by variations in the components that make up the cost of production. Examples of these variations at different farming operations are water prices, cost of pest control, and frost protection.

| Table 7 Lemon Cultural and Overhead Costs Per Acre Ventura County 1992  |   |
|---|---|
| Item  | Typical Cost<br>\$ per Acre   |
| Cultural Operation Costs<br>(Labor + Material + Equipment)  |   |
| Fertilization: Nitrogen Minor Elements  Leaf Analysis Irrigation: Labor Water @ 2.0 Acre-feet/acre Insect and Mite Control Snail Control (baiting) Disease: Copper Spray for Brown Rot Weed Control Frost Protection Tree Replacement Erosion Control Pruning Miscellaneous | 110.00<br>36.00<br>5.00<br>100.00<br>300.00<br>290.00<br>55.00<br>50.00<br>75.00<br>22.00<br>10.00<br>505.00<br>45.00 |
| Total Cultural Costs  | 1,678.00  |
| Overhead  | 545.00  |
| Total Costs   | 2,223.00  |
| Source: Cooperative Extension, Ventura County, University of California, Ventura Agricultural Data  | a County  |

## Table 8 Valencia Orange Cultural and Overhead Costs Per Acre Ventura County 1992

| Item                               |  | Typical<br>Cost<br>\$ per Acre |
|------------------------------------|--|--------------------------------|
| Cultural Oper                      | ration Costs   | •                              |
| (Labor + Mat                       | erial + Equipment)   |                                |
| Fertilization:                     | Nitrogen   | 100.00                         |
|                                    | Minor Elements   | 50.00                          |
| Leaf Analysis                      | 3  | 5.00                           |
| Irrigation:                        | Labor  | 135.00                         |
|                                    | Water @ 2.0 Acre-feet/acre                                   | 375.00                         |
| Insect and Mi                      | ite Control  | 140.00                         |
| Snail Control                      | (baiting)  | 77.00                          |
| Disease: Cop                       | pper Spray for Brown Rot                                     | 60.00                          |
| Weed Control                       | 1  | 70.00                          |
| Frost Protecti                     | on   | 100.00                         |
| Tree Replace                       |  | 25.00                          |
| Erosion Contr                      | rol  | 15.00                          |
| Topping (Eve                       |  | 85.00                          |
| Hedging Box                        |  | 12.00                          |
| Miscellaneou                       | S  | 45.00                          |
| Total Cultura                      | l Costs  | 1,294.00                       |
| Overhead                           |  | 535.00                         |
| Total Costs                        |  | 1,829.00                       |
| Source: Cooper<br>Agricultural Dat | ative Extension, Ventura County, University of Califor<br>ta | nia, Ventura County            |

According to the University of California Cooperative Extension, sample total cultural costs for avocados for the Southern Coast Region for 1992 were \$1,139 per acre in the fifth year of the life of the orchard. Harvest costs were \$377, interest on operating capital at 9% was \$112, and overhead was \$757 for a total per acre cost of \$2,385.

#### Leading Commodities and Productions Totals

Lemons have been the number one crop in terms of value of production since 1947. The production value of lemons is almost twice the value of second place celery. In recent years, the production value of celery and avocados have gained position with celery overtaking strawberries in 1993. The primary shifts in the top ten commodities in the past ten years are Valencia Oranges going from fourth to sixth, and cabbage moving from fourteenth to tenth.

| Ver                 | Table 9<br>ntura County's Rankings | of Commodities |              |
|---------------------|------------------------------------|----------------|--------------|
| Commodity           | 1983 Ranking                       | 1988 Ranking   | 1993 Ranking |
| Lemons              | 1                                  | 1              | 1            |
| Celery              | 2                                  | 3              | 2            |
| Strawberries        | 3                                  | 2              | 3            |
| Nursery Stock       | 5                                  | 4              | 4            |
| Avocados            | 6                                  | 6              | 5            |
| Valencia Oranges    | 4                                  | 5              | 6            |
| Lettuce             | 7                                  | 7              | 7            |
| Cut Flowers         | 8                                  | 8              | 8            |
| Broccoli            | 10                                 | 12             | 9            |
| Cabbage             | 14                                 | 9              | 10           |
| Broccoli<br>Cabbage | 10                                 | 12             | 9            |

Citrus makes up 38% of harvested acres and 44% of production value. Tree crops make up 54% of harvested acres and 51% of production value.

Table 10 Fruit and Vegetable Production and Values, 1993

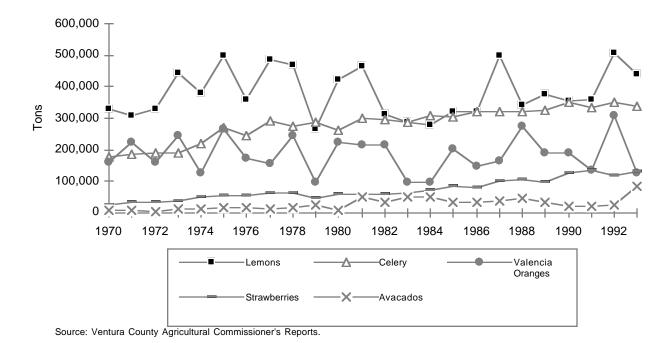
|                     |           | Production | 1          |          | \$ Value |           |
|---------------------|-----------|------------|------------|----------|----------|-----------|
| Crop                | Harvested | Tons       |            | _        |          | Total     |
|                     | Acreage   | Per Acre   | Total Tons | Per Ton  | Per Acre | (1,000's) |
| Vegetables          |           |            |            |          |          |           |
| Celery              | 9,878     | 34.33      | 339,130    | \$335.63 | \$11,523 | \$113,823 |
| Lettuce             | 6,824     | 10.04      | 68,502     | 419.02   | 4,206    | 28,704    |
| Onions              | 2,256     | 20.58      | 46,431     | 288.17   | 5,931    | 13,380    |
| Broccoli            | 4,632     | 5.2        | 24,081     | 532.7    | 2,769    | 12,825    |
| Cabbage             | 2,202     | 22.53      | 49,611     | 180.91   | 4,076    | 8,975     |
| Peppers             | 1,852     | 13.13      | 24,322     | 305.98   | 4,018    | 7,442     |
| Cilantro            | 1,658     | 7.21       | 11,958     | 555.44   | 4,006    | 6,642     |
| Spinach             | 1,644     | 6.52       | 10,713     | 597.87   | 3,896    | 6,405     |
| Oriental Vegetables | 913       | 11.29      | 10,308     | 616.71   | 6,963    | 6,357     |
| Parsley             | 859       | 10.07      | 8,648      | 649.28   | 6,537    | 5,615     |
| Tomatoes            | 2,402     | 32.05      | 76,979     | 65.84    | 2,110    | 5,068     |
| Cauliflower         | 1,318     | 6.57       | 8,656      | 534.77   | 3,512    | 4,629     |
| Beans               | 2,382     | 2.4        | 5,724      | 542.98   | 1,305    | 3,108     |
| Kale                | 300       | 24.05      | 7,216      | 426      | 10,247   | 3,074     |
| Sweet Corn          | 1,127     | 6.78       | 7,645      | 329.63   | 2,236    | 2,520     |
| Carrots             | 887       | 17.58      | 15,597     | 149.64   | 2,631    | 2,334     |
| Cucumbers           | 412       | 9.33       | 3,844      | 454.99   | 4,245    | 1,749     |
| Pumpkin             | 252       | 12.88      | 3,247      | 158.92   | 2,048    | 516       |
| Total Vegetables    | 41,798    |            | 722,612    |          | 5,578    | 233,166   |
| Fruits              |           |            |            |          |          |           |
| Lemons              | 24,239    | 18.21      | 441,379    | 489.67   | 8,917    | 216,129   |
| Strawberries        | 4,795     | 27.27      | 130,763    | 844.63   | 23,034   | 110,447   |
| Avocados            | 16,199    | 5.1        | 82,600     | 604.19   | 3,081    | 49,906    |
| Navel Oranges       | 806       | 7.79       | 6,275      | 260.4    | 2,029    | 1,634     |
| Valencia Oranges    | 12,325    | 10.16      | 125,196    | 359.71   | 3,654    | 45,034    |
| Grapefruit          | 667       | 18.13      | 12,093     | 235.43   | 4,268    | 2,847     |
| Total Fruits        | 59,031    |            | 798,306    |          | 7,952    | 469,397   |
| Combined Total*     | 100,829   |            | 1,520,918  |          | 6,968    | 702,563   |

\*Fruits and vegetables make up approximately 96% of Ventura County agricultural production by production value. Source: Ventura County Agricultural Commissioner's Report, 1993

## Agricultural Production in Tons

Lemons are also the leading crop in Ventura County in terms of weight. Celery is the second leading crop and has surpassed lemons as the leading crop a few times in the last twenty years.

Figure 8
Ventura County Agricultural Production



#### II. Farmland Characteristics

#### Land in Farms

Table 11
Farm Acreage, Number and Size
California and Ventura County

|      | California |               |         | Ventura  |               |         |
|------|------------|---------------|---------|----------|---------------|---------|
|      | Number     | Land          | Average | Number   | Land          | Average |
| Year | of Farms   | in Farms      | Size    | of Farms | in Farms      | Size    |
|      |            | (1,000 acres) | (acres) |          | (1,000 acres) | (acres) |
| 1964 | 80,852     | 37,011        | 458     | 1,507    | 437           | 290     |
| 1969 | 77,875     | 35,328        | 454     | 1,679    | 433           | 258     |
| 1974 | 67,674     | 33,386        | 493     | 1,639    | 310           | 189     |
| 1978 | 73,194     | 32,727        | 447     | 1,793    | 340           | 190     |
| 1982 | 82,463     | 32,157        | 390     | 2,064    | 301           | 146     |
| 1987 | 83,217     | 30,598        | 368     | 2,120    | 329           | 155     |
| 1992 | 77,699     | 28,979        | 373     | 2,195    | 321           | 146     |

Source: U.S. Bureau of the Census, Census of Agriculture: California

#### Average Farm Size

Ventura County's average farm size has declined from 290 acres in 1964 to 146 in 1992. This is considerably below the average California farm size of 373 acres.

#### Number of Farms

The number of farms in Ventura County has been slowly, but steadily increasing over the past thirty years. This is in contrast to the State of California in which the number of farms has been relatively constant. The definition of a farm used in Census of Agriculture changed in 1974. A farm is defined as an agricultural operation with production of \$1,000 or more. The definition used before 1974 did not have a minimum requirement for dollars of production.

| Table 12                      |
|-------------------------------|
| Value of Land and Buildings   |
| California and Ventura County |

|      | California |                 |            | Ventura  |            |            |  |
|------|------------|-----------------|------------|----------|------------|------------|--|
|      | Total      | Average Average |            | Total    | Average    | Average    |  |
| Year | Value      | Value/Farm      | Value/Acre | Value    | Value/Farm | Value/Acre |  |
|      | Millions   | dollars         | dollars    | Millions | dollars    | dollars    |  |
| 1964 | \$17,355   | \$214,650       | \$468      | \$918    | \$609,125  | \$2,118    |  |
| 1969 | 16,932     | 217,429         | 479        | 815      | 485,593    | 1,885      |  |
| 1974 | 21,793     | 322,034         | 653        | 663      | 404,683    | 2,141      |  |
| 1978 | 38,152     | 521,240         | 1,161      | 1,130    | 630,148    | 3,357      |  |
| 1982 | 61,565     | 746,577         | 1,918      | 1,647    | 797,809    | 4,659      |  |
| 1987 | 48,571     | 583,668         | 1,575      | 1,553    | 732,708    | 3,996      |  |
| 1992 | 63,718     | 820,063         | 2,199      | 2,147    | 978,005    | 6,696      |  |

Source: U.S. Bureau of the Census, Census of Agriculture: California

#### Value of Land and Buildings

Investment dollars in Ventura County agricultural land and buildings are high. On an average Ventura County farm, land and buildings are worth \$978,005, twenty percent higher than the California state average. More dramatically, the average Ventura County farm has a value of \$6,700 per acre, compared with \$2,200 per acre statewide.

#### Water Resources

Ground water is the main water supply for irrigation and urban uses over much of the coastal plain of Ventura County. Most of the water used by farmers in Ventura County is pumped from wells on their farms. As a result of increasing water demand, the ground water aquifers underlying the plain have been overdrafted. Specifically, water has been taken from the Oxnard Aquifer faster than it has been replenished, and salt water from the ocean has been moving into it.

<sup>&</sup>lt;sup>8</sup>California Water Plan Update, 1993, Vol. II, p. 123.

To eliminate the overdraft in all aquifer zones, the Fox Canyon Ground Water Management Agency adopted ordinances requiring meter installation on all wells pumping more than fifty acre-feet per year. The objective of the ordinances is to limit the amount of ground water that can be pumped and to restrict drilling of new wells in the north Las Posas Basin.

In February 1991, the United Water Conservation District completed a Diversion Project on the Santa Clara River which increases diversion by about 43%. The diverted water is used for ground water recharge and agricultural irrigation, thereby reducing agricultural ground water demand.<sup>9</sup>

According to the *California Water Plan Update*, 1993, the South Coast Region has one of the most expensive rates in the state for agricultural retail water cost with a rate of \$137 per acre-foot. (Ventura County is the largest agricultural producer in the region.) The agricultural ground water production costs for the South Coast Hydraulic Region is also high with a range of \$80 to \$120 per acre-foot. (1)

These high water costs give Ventura County growers an economic incentive to find ways to conserve water. Growers in Ventura County contribute to the reduction of agricultural water demand through conservation efforts which employ the latest irrigation system technologies of drip emitters and low-flow sprinklers.<sup>12</sup>

<sup>&</sup>lt;sup>9</sup>California Water Plan Update, 1993, Vol. II, p. 123.

<sup>&</sup>lt;sup>10</sup>California Water Plan Update, 1993, Table 7-9.

<sup>&</sup>lt;sup>11</sup>California Water Plan Update, 1993, Table 7-10.

<sup>&</sup>lt;sup>12</sup>California Water Plan Update, 1993, Vol. I, p. 189.

III. People on Farms

Farm Ownership and Tenure

| Table 13 Farm Ownership and Organization              |                    |              |              |              |              |              |  |
|---|--------------------|--------------|--------------|--------------|--------------|--------------|--|
| Ventura County  | 1982   1987   1992 |              |              |              |              |              |  |
|   | # of               | % of         | # of         | % of         | # of         | % of         |  |
| Farm Operator   | <u>Farms</u>       | <u>Farms</u> | <u>Farms</u> | <u>Farms</u> | <u>Farms</u> | <u>Farms</u> |  |
| Full Owner  | 1,652              | 80.04        | 1,735        | 81.84        | 1,834        | 83.55        |  |
| Part Owner  | 159                | 7.70         | 155          | 7.31         | 127          | 5.79         |  |
| Tenant  | 253                | 12.26        | 230          | 10.85        | 234          | 10.66        |  |
| Type of Ownership                                     |                    |              |              |              |              |              |  |
| Individual or Family                                  | 1,356              | 65.70        | 1,428        | 67.36        | 1,530        | 69.70        |  |
| Partnership   | 475                | 23.01        | 433          | 20.42        | 388          | 17.68        |  |
| Family Held Corp.                                     | 149                | 7.22         | 171          | 8.07         | 173          | 7.88         |  |
| Other Corporation                                     | 38                 | 1.84         | 31           | 1.46         | 33           | 1.50         |  |
| Other*  | 46                 | 2.23         | 57           | 2.69         | 71           | 2.23         |  |
| <u>California</u>                                     | 1982               |              | 19           | 1987         |              | 92           |  |
| •   | # of               | % of         | # of         | % of         | # of         | % of         |  |
| Farm Operator   | <b>Farms</b>       | <b>Farms</b> | Farms        | Farms        | Farms        | <b>Farms</b> |  |
| Full Owner  | 60,556             | 73.4         | 60,639       | 72.9         | 56,559       | 75.44        |  |
| Part Owner  | 12,692             | 15.4         | 12,218       | 14.7         | 11,471       | 15.30        |  |
| Tenant  | 9,215              | 11.2         | 10,360       | 12.4         | 6,939        | 9.26         |  |
| Type of Ownership                                     |                    |              |              |              |              |              |  |
| Individual or Family                                  | 65,482             | 79.4         | 64,928       | 78.0         | 60,187       | 77.49        |  |
| _   | 11,360             | 13.8         | 12,127       | 14.6         | 11,350       | 14.61        |  |
| Partnership   | ,                  | 5.9          | 4,677        | 5.6          | 4,220        | 5.43         |  |
|   | 4,849              |              | 1 ,          |              | , ,          |              |  |
| Partnership<br>Family Held Corp.<br>Other Corporation | 4,849<br>343       | 0.4          | 690          | 0.8          | 847          | 1.09         |  |

Families or individuals own just over two-thirds of Ventura County farms. This percentage is increasing in contrast to the state percentage which is declining. If one includes family held corporations in this category, the percentage increases to three-fourths. Partnerships make up 17.68 percent of ownership, which is higher than both the state and national averages of just under fifteen percent and ten percent,

respectively. Most farms (90%) are managed directly by an owner or part owner who is a farmer and the percentage of tenant farmers is declining.

Farmers tend to stay on a farm for ten years or more. In Ventura County, more than half of the farmers reported to have spent ten or more years on their present farm. This is consistent with the State of California.

Table 14
Farm Operator Characteristics
Principal Occupations & Farm Tenure

|                       | Ventura    | County                | California |            |  |  |  |
|-----------------------|------------|-----------------------|------------|------------|--|--|--|
|                       | # of Farms | # of Farms % of Farms |            | % of Farms |  |  |  |
| Principal Occupation  |            |                       |            |            |  |  |  |
| Farming               | 947        | 43.14                 | 40,215     | 51.78      |  |  |  |
| Other                 | 1,248      | 56.86                 | 37,454     | 48.22      |  |  |  |
|                       |            |                       |            |            |  |  |  |
| Years on Present Farm |            |                       |            |            |  |  |  |
| Less than 2           | 105        | 4.78                  | 4,239      | 5.46       |  |  |  |
| 3 to 4                | 202        | 9.20                  | 7,526      | 9.69       |  |  |  |
| 5 to 9                | 489        | 22.28                 | 13,886     | 17.88      |  |  |  |
| Greater than 10       | 1,185      | 53.99                 | 42,172     | 54.30      |  |  |  |
| Not Reported          | 214        | 9.75                  | 9,846      | 12.68      |  |  |  |
| I                     |            |                       |            |            |  |  |  |

Source: U.S. Bureau of the Census, Census of Agriculture: California, 1992

#### Age, Gender and Race

The age, gender and race classifications of farmers in Ventura County generally reflect the breakdown at the state level. The average age of farmers in Ventura County is 56.4 years; while at the state level, it is 55.2 years. Ventura County has a slightly lower percentage of farmers who are under 35 years with 3.5% compared to 6.1% at the state level.

Table 15
Farm Operator Characteristics
Age, Gender and Race

|                           | Ventura County |            | Calif      | fornia     |
|---------------------------|----------------|------------|------------|------------|
| Ownership                 | # of Farms     | % of Farms | # of Farms | % of Farms |
| Age                       |                |            |            |            |
| under 25                  | 1              | 0.05       | 417        | 0.54       |
| 25 to 34                  | 75             | 3.42       | 4,288      | 5.53       |
| 35 to 44                  | 354            | 16.13      | 14,232     | 18.35      |
| 45 to 54                  | 608            | 27.70      | 19,223     | 24.78      |
| 55 to 64                  | 534            | 24.33      | 17,997     | 23.20      |
| 65 & over                 | 623            | 28.38      | 21,412     | 27.60      |
|                           |                |            |            |            |
| <u>Gender</u>             |                |            |            |            |
| Male                      | 1,918          | 87.38      | 68,016     | 87.57      |
| Female                    | 277            | 12.62      | 9,653      | 12.43      |
|                           |                |            |            |            |
| Race & Ethnicity*         |                |            |            |            |
| White                     | 2,058          | 93.76      | 71,772     | 92.53      |
| Black                     | 7              | 0.32       | 253        | 0.33       |
| Native American           | 3              | 0.14       | 486        | 0.63       |
| Asian or Pacific Islander | 47             | 2.14       | 3,292      | 4.24       |
| Other Races               | 80             | 3.64       | 1,766      | 2.28       |
| Spanish Origin            | 151            | 6.88       | 3,883      | 5.01       |

<sup>\*</sup>Numbers add up to greater than 100% because those claiming Spanish Origin also claim another racial classification.

Source: U.S. Bureau of the Census, Census of Agriculture: California, 1992

The racial and ethnic breakdown of Ventura County farmers is very close to that of the state. This is in spite of Ventura County's higher percentage of white residents in the general population of 65.9% compared with the state percentage of 57.2%

#### Net Income

Total net returns for Ventura County farms was \$115,741,000 in 1992, averaging \$52,729 per farming operation. Net returns are defined as market value of products sold less total production expense and are calculated on a cash flow basis. Net returns do not include farm income from other sources. Production expense does not include returns to capital or the value of the owner's labor. Average returns are defined as the net returns divided by the number of farms.

| Table 16 Farm Income (In \$1,000's unless stated otherwise)          |            |           |              |              |  |  |
|--|------------|-----------|--------------|--------------|--|--|
|  | Ventura Co |           | ,            | California   |  |  |
|  | 1987       | 1992      | 1987 1992    |              |  |  |
| Market Value of Products Sold Production Expense                     | \$537,519  | \$667,826 | \$13,922,234 | \$17,651,912 |  |  |
| Livestock & Poultry Purchased  | 3,032      | 7,263     | 776,540      | 935,152      |  |  |
| Feed   | 29,288     | 20,521    | 1,707,608    | 2,108,719    |  |  |
| Seeds, Bulbs, Plants & Trees   | 12,534     | 19,377    | 215,542      | 274,495      |  |  |
| Commercial Fertilizer  | 13,974     | 23,088    | 427,924      | 568,772      |  |  |
| Ag. Chemicals  | 18,413     | 23,542    | 544,779      | 694,549      |  |  |
| Petroleum Products   | 9,554      | 13,425    | 332,166      | 414,984      |  |  |
| Electricity  | 11,089     | 12,955    | 330,538      | 500,264      |  |  |
| Hired Farm Labor   | 135,552    | 186,746   | 2,385,242    | 2,922,390    |  |  |
| Contract Labor   | 40,614     | 62,847    | 613,340      | 967,377      |  |  |
| Repair & Maintenance   | 15,972     | 21,391    | 503,218      | 630,574      |  |  |
| Customwork, Rental of  | 12,348     | 8,547     | 335,292      | 448,923      |  |  |
| Machinery & Equipment  |            |           |              |              |  |  |
| Interest Paid  | 17,542     | 18,830    | 697,449      | 738,910      |  |  |
| Cash Rent  | 16,142     | 20,349    | 381,871      | 492,662      |  |  |
| Property Taxes Paid  | 6,961      | 11,480    | 245,512      | 291,385      |  |  |
| Other Production Expenses  | 58,521     | 99,057    | 1,420,571    | 1,815,826    |  |  |
| Total Production Expense   | 401,539    | 549,419   | 10,917,593   | 13,804,983   |  |  |
| Net Returns  | 135,980    | 115,741   | 2,927,279    | 3,179,111    |  |  |
| Average Per Farm (\$)  |            |           |              |              |  |  |
| Market Value of Products Sold  | 253,547    | 304,249   | 167,300      | 219,546      |  |  |
| Production Expense   | 189,405    | 250,305   | 131,205      | 177,755      |  |  |
| Net Returns (dollars)  | 64,016     | 52,729    | 35,179       | 40,935       |  |  |
| Source: U.S. Bureau of the Census, Census of Agriculture: California |            |           |              |              |  |  |

The figures for California are net returns of over three billion dollars, averaging \$40,935 per farming operation. The Ventura County net return per farm is about three times the U.S. average. Thirty-four percent of farm production expense in Ventura County were payments to farm labor.

| Table 17<br>Value Per Irrigated Acre                                 |             |             |                 |              |  |
|--|-------------|-------------|-----------------|--------------|--|
|  | Ventura     | County      | California      |              |  |
| -  | 1987 1992   |             | 1987            | 1992         |  |
| Market Value of Products<br>Sold (\$1,000)                           | \$537,519   | \$667,826   | \$13,922,234    | \$17,051,912 |  |
| Net Returns (\$1,000)  | 135,980     | 115,741     | 2,927,279       | 3,179,111    |  |
| Market Value of Products<br>Sold per Irrigated Acre (\$)             | 5,172       | 6,593       | 1,833           | 2,252        |  |
| Net Return per Irrigated<br>Acre (\$)                                | 1,308       | 1,143       | 385             | 420          |  |
| _  | Fresno (    | County      | Monterey County |              |  |
|  | 1987        | 1992        | 1987            | 1992         |  |
| Market Value of Products<br>Sold (\$1,000)                           | \$1,681,523 | \$2,081,516 | \$730,746       | \$1,202,715  |  |
| Net Returns (\$1,000)  | \$360,608   | \$378,827   | \$157,703       | \$272,991    |  |
| Market Value of Products<br>Sold per Irrigated Acre (\$)             | 1,663       | 2,084       | 4,034           | 5,402        |  |
| Net Return per Irrigated<br>Acre (\$)                                | 357         | 379         | 871             | 1,226        |  |
| Source: U.S. Bureau of the Census, Census of Agriculture: California |             |             |                 |              |  |

The soil and climate of Ventura County are a natural resource that should be highly valued. The market value of products sold per irrigated acre of land in Ventura County of \$6,593 is about 2.93 times as large the average for California. The net return per irrigated acre of land is 2.72 times as large as the state average. The comparison is made to Fresno County because is California's biggest agricultural procducing county. The Monterey County comparison is relevant because the two counties grow similar crops.

The Oxnard Brothers' Sugar Beet Factory

Robert, Benjamin, Henry T., and James Oxnard were four French immigrant brothers who inherited a sugar refining business. In 1887, the brothers consolidated their business with other sugar refining companies and took the name of the American Sugar Refining Company. In 1889 and 1890, they built the first two of their five factories in Grand Island, Nebraska and Chino, California, respectively.

After Ventura County farmer Albert F. Maulhardt heard about the sugar beet factory in Chino, he went to San Francisco to persuade Henry T. Oxnard to come to Ventura County and consider it as a future sugar beet refinery site. At the time, only crops such as barley and lima beans were grown in the area because of the unpredictable rainfall. The market for lima beans was depressed from excess supply. Maulhardt reasoned that since sugar beets can grow in almost any soil or climate, they would be a good crop to rotate with lima beans. If a refinery could be built in the area, the farmers would have a stable market for their sugar beets. Another argument for growing sugar beets was that the main competition would be imports (which would include transportation costs.) During the period 1880 to 1896, ninety percent of the sugar consumed in the U.S. was imported.<sup>13</sup>

In 1896, Maulhardt convinced the growers to raise enough sugar beets to send a crop to Chino. At the Chino refinery they determined that the sugar beets were eighteen to twenty percent sugar--at a time when beets with twelve percent sugar were considered good. <sup>14</sup> These results convinced Henry T. Oxnard. The Oxnard brothers' proposal was that they would build a \$200 million sugar refinery on a site in the bean fields close to the growers if the County of Ventura gave them 100 acres for the site, the right of way for a spur from the Southern Pacific Railroad, and a railroad and draining ditch to the ocean. The growers also had to pledge to plant 20,000 acres of sugar beets for five years. The Oxnard brothers guaranteed a price of \$3.25 per ton for beets with 12% sugar, plus 25 cents per ton for each

continued next page

<sup>&</sup>lt;sup>13</sup>LeDesma, p. 3.

<sup>&</sup>lt;sup>14</sup>LeDesma, p. 4.

The Oxnard Brothers' Sugar Beet Factory, continued

percentage of sugar above that. The factory would be the largest in the west, processing at least 2,000 tons of sugar beets per day. When the refinery was completed in 1898, Major Driffill, the first manager of the refinery, arranged for acquisition of land and developed plans for a town site near the factory. "Stories say that Henry T. Oxnard wanted the town to be named Sakchar (which in Greek means sugar), but when he called from Sacramento, the phone connection was so poor that they could not understand what he was saying. In exasperation, he said to just call the town 'Oxnard'." The factory was responsible for an enormous amount of growth in the area, and on June 30, 1903, Oxnard officially became a town.

From the opening of the refinery up to World War I, the main crops grown in the Oxnard area were grain, lima beans, and sugar beets. After World War I, sugar beets became less profitable. Irrigation made it possible for farmers to raise citrus crops. The factory was open from 1899 to 1959. The factory was salvaged by Lipsett Steel products, and the site went to Ventura County Industrial Plaza for development.

<sup>&</sup>lt;sup>15</sup>LeDesma, p. 6.

# Chapter 2

## I. Who Works in Agriculture

Figure 9
Ventura County Farm Employment



Farm employment peaked in 1988 and there has been a downward trend since then, which is consistent with the decline in available cropland. While direct employment from agriculture is in decline, jobs indirectly related to agriculture continue to be a strong source of employment in Ventura County.

| Table 18                          |              |               |              |                |                 |                |  |
|-----------------------------------|--------------|---------------|--------------|----------------|-----------------|----------------|--|
| Farm Employment in Ventura County |              |               |              |                |                 |                |  |
| r sy s s s s s s s s              |              |               |              |                |                 |                |  |
|                                   |              | Farmers       |              |                |                 |                |  |
|                                   |              | & Unpaid      | Hired        | Domestic       |                 | Contract       |  |
| <u>Year</u>                       | <u>Total</u> | <u>Family</u> | <u>Total</u> | <u>Regular</u> | <u>Seasonal</u> | <u>Foreign</u> |  |
| 1960                              | 13,620       | 1,980         | 7,350        | INA*           | INA             | 4,290          |  |
| 1961                              | 13,330       | 1,960         | 7,530        | INA            | INA             | 3,840          |  |
| 1962                              | 12,120       | 2,110         | 6,650        | INA            | INA             | 3,360          |  |
| 1963                              | 12,020       | 2,080         | 6,760        | INA            | INA             | 3,180          |  |
| 1964                              | 11,570       | 2,000         | 6,570        | 3,570          | 3,000           | 3,000          |  |
| 1965                              | 10,990       | 1,920         | 9,000        | 3,660          | 5,340           | 70             |  |
| 1966                              | 11,340       | 1,920         | 9,420        | 3,820          | 5,600           | 0              |  |
| 1967                              | 10,950       | 1,930         | 9,020        | 3,840          | 5,180           | 0              |  |
| 1968                              | 11,300       | 1,210         | 10,090       | 4,180          | 5,910           | 0              |  |
| 1969                              | 11,330       | 1,270         | 10,060       | 4,510          | 5,550           | 0              |  |
| 1970                              | 11,260       | 1,510         | 9,750        | 4,940          | 4,810           | 0              |  |
| 1971                              | 12,100       | 1,530         | 10,570       | 5,050          | 5,520           | 0              |  |
| 1972                              | 11,870       | 1,530         | 10,340       | 4,830          | 5,510           | 0              |  |
| 1973                              | 12,920       | 1,620         | 11,300       | 5,170          | 6,130           | 0              |  |
| 1974                              | 13,390       | 1,620         | 11,770       | 5,170          | 6,600           | 0              |  |
| 1975                              | 14,740       | 1,610         | 13,130       | 6,410          | 6,720           | 0              |  |
| 1976                              | 14,630       | 1,630         | 13,000       | 6,250          | 6,750           | 0              |  |
| 1977                              | 16,030       | 1,600         | 14,430       | 6,690          | 7,740           | 0              |  |
| 1978                              | 17,130       | 1,610         | 15,520       | 6,630          | 8,890           | 0              |  |
| 1979                              | 16,400       | 1,560         | 14,840       | 6,570          | 8,270           | 0              |  |
| 1980                              | 17,190       | 1,560         | 15,630       | 6,950          | 8,680           | 0              |  |
| 1981                              | 17,340       | 1,570         | 15,770       | 6,950          | 8,820           | 0              |  |
| 1982                              | INA          | INA           | INA          | INA            | INA             | INA            |  |
| 1983                              | INA          | INA           | INA          | INA            | INA             | INA            |  |
| 1984                              | 16,720       | 1,550         | 15,170       | 6,940          | 8,230           | 0              |  |
| 1985                              | 17,310       | 1,610         | 15,700       | 7,050          | 8,650           | 0              |  |
| 1986                              | 17,190       | 1,780         | 15,410       | 6,790          | 8,620           | 0              |  |
| 1987                              | 18,030       | 1,850         | 16,180       | 7,200          | 8,980           | 0              |  |
| 1988                              | 18,920       | 2,160         | 16,760       | 7,200          | 9,560           | 0              |  |
| 1989                              | 14,890       | 1,780         | 13,110       | 6,170          | 6,940           | 0              |  |
| 1990                              | 16,310       | 1,750         | 14,560       | 6,590          | 7,970           | 0              |  |
| 1991                              | 11,200       | 1,080         | 10,120       | 3,790          | 6,330           | 0              |  |
| 1992                              | 10,090       | 870           | 9,220        | 2,890          | 6,330           | 0              |  |
| 1993                              | 12,890       | 1,220         | 11,670       | 5,010          | 6,660           | 0              |  |
| Source: California EDD            |              |               |              |                |                 |                |  |
| * Information No                  | ot Available |               |              |                |                 |                |  |

#### Farm Labor Contractors

Farm labor contractors are becoming more and more important in agricultural production. In 1992, researchers from the U.C. Berkeley, U.C. Davis, and Vaupel Associates completed a study on farm labor contractors in California for the California Employment Development Department. Although farm labor contractors' field workers tend to be seasonal workers, the E.D.D. study found that in Ventura County citrus and vegetable workers tend to be settled in the community and find work there through much of the year. The E.D.D. study indicated that in Ventura County, the contractors' field workers are mostly male (93%), and Hispanic (90%). About three-fourths of the labor contractors were born in Mexico, one-fourth was born in the United States. The average age is fifty years. Half of the workers speak English well, and about a fifth speak English poorly or not at all. Just over a third speak English at home. About a fifth have graduated from a U.S. high school. The average field worker has about ten years of experience.

Most farm labor contractors take a commission on the wage that the customers (farm operators) agree to pay per field worker. Ten percent use a piece rate system. The mean payroll of the farm labor contractors sampled in Ventura County was just over \$1 million. During the peak employment period, the mean number of workers employed per farm labor contractor was 175. Many farm labor contractors operate other businesses. Of the farm labor contractors sampled in Ventura County, 55% of farm labor contractors operated some other business. Most of the farm labor contractors (90%) have been in business for more than three years.

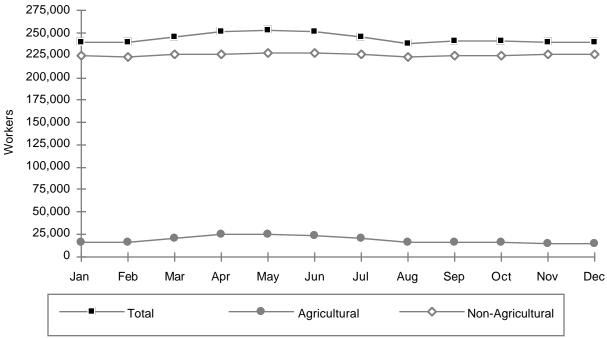
\_

<sup>&</sup>lt;sup>16</sup>California Employment Development Department, Labor Market Information Division, *Farm Labor Contractors in California*, California Agricultural Studies 92-2.

## Seasonality of Employment

Agricultural employment increases in the spring and continues to be high throughout the summer, peaking in May. Most of the seasonality of county employment can be attributed to agriculture.

Figure 10
Seasonality of Employment in Ventura County, 1992

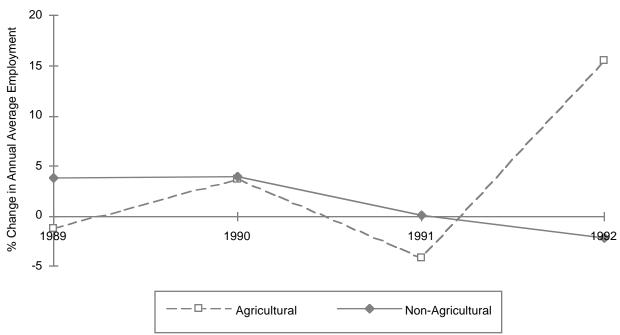


Source: California Employment Development Department.

## II. Countercyclical Employment in Agriculture

Agricultural employment tends to be countercyclical. This means that when the rest of the economy is weak agricultural employment remains strong. Figure 13 shows the percentage change in agriculture and non-agriculture annual average employment from one year to the next.

Figure 11
Countercyclical Employment in Agriculture
Ventura County



Source: California Employment Development Department, Annual Planning Information.

## III. Affordable Housing for Farm Labor

In Ventura County, with its high property values, it is difficult to find affordable housing. In 1992, the median existing single-family home sales price of \$225,680 was 14% higher than the statewide median price of \$197,900. When compared to the heavily agricultural Central Valley; Ventura County's median price was 89% higher than the median sales price of \$119,130 in the Central Valley. Ventura County's median sales price peaked in 1990 and has been on a downward trend for the past two years.<sup>17</sup>

High property values also implies high payments for rental housing. According to 1990 Census results, California is the second most expensive state (Hawaii was first) to rent housing accommodations in with the median contract rent equal to about two-and-a-half times the national average. According to the 1990 Census of Housing, the median gross rent for Oxnard and Ventura was \$899 per month.

<sup>&</sup>lt;sup>17</sup>California Statistical Abstract, 1993

Limoneira: Place of the Lemon

"One hundred years ago, [Maine natives] Wallace Hardison [founder of Union Oil] and Nathan Blanchard inaugurated the agricultural venture they called Limoneira [which means place of the lemon in Portuguese] based upon a forthright business plan: 'the culture, curing and marketing of the lemon.' This unpretentious conception guided the company and those that came afterward--transforming rocky, dusty acreage and ink on paper into vigorous enterprise." <sup>18</sup> In 1872, Blanchard arrived in Ventura County, purchased 2,700 acres of land, and established the Santa Paula townsite. Blanchard planted 100 acres of oranges in 1874. The Southern Pacific Railroad arrived in Santa Paula in 1887 and made it possible to ship oranges east.

In 1891, Blanchard and Hardison purchased land to raise lemons. "Blanchard and Hardison also obtained water rights for the property by organizing the Santa Paula Water Company in 1891 and the Thermal Belt Water Company in 1893." In an unstable economic atmosphere, Blanchard and Hardison formed the Limoneira Company in Santa Paula on March 4, 1893 and sold stock. A nursery was established at the ranch to provide a source of future orchard stock."<sup>20</sup> They also built bunk houses, dormitories, and a mess hall for the workers.

In 1899, Limoneira joined the Southern California Fruit Exchange (which later became Sunkist), quit in 1904, and rejoined in 1911. In 1916, Limoneira decided to add the Sunkist label to their boxes and wraps.

In 1907, Limoneira purchased the 2,300 acre Olivelands Tract for \$400,000. The company had grown from fifteen employees in 1897 to 200-250 in 1907. Limoneira provided affordable, close-to-the-work-site housing for its employees with cottages and apartments for fieldworker families, and houses for supervisors' families. The company also ran an on-site store for its employees. "By 1923 the main part of the ranch took on the appearance of a small town."<sup>21</sup> By 1920, Limoneira's "...labor force during the same year exceeded 400 employees during peak season, with at least half that number staying on year round.

Continued on next page

<sup>&</sup>lt;sup>18</sup>Triem, p. 23.

<sup>&</sup>lt;sup>19</sup>Triem, p. 2.

<sup>&</sup>lt;sup>20</sup>Triem, p. 3.

<sup>&</sup>lt;sup>21</sup>Triem, p. 10.

Limoneira: Place of the Lemon, Continued

According to the...Santa Paula Chronicle for October 1921, Limoneira had become '...the largest individual shipper of lemons'."<sup>22</sup>

Even during the Great Depression profits soared.

The 1940's were a more difficult time for Limoneira. World War II made it difficult to get supplies, and modernization and replacement of equipment was delayed. There was also a labor shortage of field workers. Limoneira began to hire Mexican nationals under the bracero guest worker program in 1942. Over-production depressed markets.

The 1950's brought about many changes including the company responding to changing market demand by producing more Valencia Oranges, the installation of labor-saving equipment, and the replacement of wooden crates with fiberboard cartons. In the 1960's, labor unrest confronted the Limoneira Company. The bracero program ended in 1964 causing Limoneira to demand more domestic labor. In an effort to attract more domestic workers, Limoneira made improvements and additions to employee living and recreational facilities. Soon Mexican laborers were allowed to emigrate to the U.S. on work permits, and Limoneira took advantage of this additional labor supply. The company began to offer benefits and educational opportunities including language classes and a head start program for pre-school children of field workers.

Limoneira's field workers decided to join the United Farm Workers in 1978. "The unionization experiment lasted until 1985 when the workers voted to decertify it, but legal problems and appeals required a second vote in 1991. The field workers once again voted against the union."<sup>23</sup>

Limoneira is still changing. In the early 1980's, the company entered the computer age. In 1985, the Limoneira Company merged with the Samuel Edwards Associates to form Limoneira Associates. This merger almost doubled Limoneira's acreage. Milton Teague died in 1986, and his nephew Alan Teague became Chairman of the Board in 1987. As of 1992, Limoneira had 3,188 producing acres including 1,303 acres of lemons.<sup>24</sup>

<sup>23</sup>Triem, p. 21.

<sup>&</sup>lt;sup>22</sup>Triem, p. 9.

<sup>&</sup>lt;sup>24</sup>Triem, p. 23.

### Chapter 3

Aggregate Measures of the Food and Fiber Sector

Ventura County's agriculture and agricultural processing sectors have a large impact on the economy in Ventura County. The following multiplier effects (the total impact on the economy from a particular sector) are from the IMPLAN<sup>25</sup> system.

Agricultural production and processing sales in 1992 were \$1.16 billion. The total impact of these sales on the county economy was \$2.41 billion. This represents an additional \$1.25 billion in sales from ripple effects from agriculture and related industries

Similarly, the same \$1.16 billion in sales created \$1.22 billion in personal income, \$1.31billion in value added, and 28,641 jobs. This represents 8.09% of personal income, 7.22% of value added, and 8.13% of jobs in Ventura County. Value added is defined as the additional worth contributed to a product by each step of production. The vast majority of these impacts are from vegetable, fruit, and nut production and vegetable and fruit processing. This impact is comparable to that of the State of California as a whole. Carter and Goldman found that the statewide impact of agricultural was 9.42% on personal income, 9.05% on value added and 9.78% on jobs.

\_

<sup>&</sup>lt;sup>25</sup>The IMPLAN (IMpact analysis for PLANning) system was designed by the U.S. Forest Service/U.S. Department of Agriculture to be able to estimate economic input-output models for any county, or group of counties in the United States. An input-output model provides detailed economic multipliers for all sectors of the economy.

Table 19
Economic Impacts of Ventura County's Food Industry

| Major                       | Agricultural          | Impacts on Ventura County |             |             |        |
|-----------------------------|-----------------------|---------------------------|-------------|-------------|--------|
| Commodity                   | Production/Processing | Sales                     | Personal    | Value       | Jobs   |
| Groups                      | Sales, 1992           |                           | Income      | Added       |        |
|                             | Dollars               | \$1,000                   | \$1,000     | \$1,000     | No.    |
| Dairy Farm/Poultry Products | 5,001,718             | 9,450                     | 5.368       | 5,653       | 116    |
| Livestock                   | 5,442,768             | 9,550                     | 5.647       | 6,119       | 116    |
| Food/Feed Grains            | 14,968,766            | 25,398                    | 13.680      | 14,981      | 213    |
| Fruits and Tree Nuts        | 248,002,064           | 640,862                   | 317.343     | 344,748     | 8,957  |
| Vegetables                  | 187,935,509           | 429,019                   | 219.809     | 235,408     | 4,966  |
| Misc. Crops                 | 1,140,624             | 2,354                     | 1.374       | 1,463       | 31     |
| Greenhouse/Nursery Products | 82,911,447            | 238,553                   | 164,214     | 175,532     | 5,252  |
| Sausages/Prepared Meats     | 11,941,862            | 18,886                    | 6,949       | 7,494       | 154    |
| Fluid Milk                  | 42,812,279            | 63,718                    | 20,340      | 21,753      | 402    |
| Processed Fruits/Veg.       | 431,671,999           | 781,542                   | 383,843     | 409,052     | 7,008  |
| Flour Grain Mill Products   | 29,039,856            | 45,627                    | 21,963      | 23,244      | 379    |
| Cocoa/Chocolate Products    | 11,777,356            | 17,986                    | 7,729       | 8,168       | 139    |
| Shortening/Cooking Oils     | 4,143,247             | 6,386                     | 1,813       | 1,934       | 32     |
| Wines, Brandy and Spirits   | 1,723,497             | 3,228                     | 1,104       | 1,697       | 30     |
| Bottled/Canned Soft Drinks  | 79,827,337            | 120,571                   | 49,716      | 53,157      | 840    |
| Manufactured Ice            | 73,193                | 228                       | 124         | 140         | 5      |
| Total                       | \$1,158,413,521       | \$2,413,358               | \$1,221,019 | \$1,310,541 | 28,641 |
| % of Ventura County         |                       |                           | 8.09%       | 7.22%       | 8.13%  |

Ventura County Estimated Personal Income, 1992 (\$1,000)

\$15,088,406

Ventura County Value Added, 1992 (\$1,000)

\$18,146,531

Ventura County Employment, 1992<sup>26</sup>

\$352,200

#### Sources for Data:

- 1. Ventura County Personal Income, 1992: California Department of Finance, Sacramento
- 2. Ventura County Value Added, 1992: Estimated applying ratio of California State Product to Personal Income in 1989 to Ventura County Personal Income in 1992.
- 3. Ventura County Employment, 1992: California Employment Development Department, Sacramento

<sup>&</sup>lt;sup>26</sup>Includes salaried workers, employers, own-account workers, unpaid family workers, and workers directly involved in work stoppages.

## **Bibliography**

Blanchard, Dean Hobbs, Edited by Grant Heil, *Of California's First Citrus Empire: A Rainbow Arches from Maine to Ventura County*, The Castle Press, Pasadena, 1983.

California Crop and Livestock Reporting Service, California Vegetable Crops, (selected years.)

California Crop and Livestock Reporting Service, Fruit and Nut Statistics, (selected years.)

California Employment Development Department, Annual Planning Information, Ventura County.

California Employment Development Department, Labor Market Information Division, *Farm Labor Contractors in California*, California Agricultural Studies 92-2.

California Employment Development Department, Ventura County Employment Data.

California Department of Water Resources, *California Water Plan Update*, 1993, Draft Bulletin 160-93, November 1993.

Cooperative Extension, Ventura County, University of California, Ventura County Agricultural Data.

Carter, Harold O. and George Goldman, *The Measure of California Agriculture: Its Impact of the State Economy*, Agricultural Issues Center, November 1992.

LeDesma, Diane, "The Oxnard Brothers and the Beet Sugar Factory", Ventura County Historical Museum, 1981.

Triem, Judith, *The Limoneira Company, One Hundred Years of Growing: 1893 -1993*, Limoneira Company, Santa Paula, California, 1993

UCSB Economic Forecast Project, Economic Base Study Oxnard-Port Hueneme Area, 1994.

- U.S. Department of Agriculture, Agricultural Statistics, (selected years).
- U.S. Department of Agriculture, Vegetable and Situation Outlook, (selected years).
- U.S. Department of Commerce, Bureau of the Census, Census of Agriculture, (selected years.)
- U.S. Department of Commerce, Bureau of the Census, *County Business Patter*ns, (selected years.)
- U.S. Forest Service, IMPLAN computer program, version 91-09.

Ventura County Agricultural Commissioners Reports, 1930-1993.