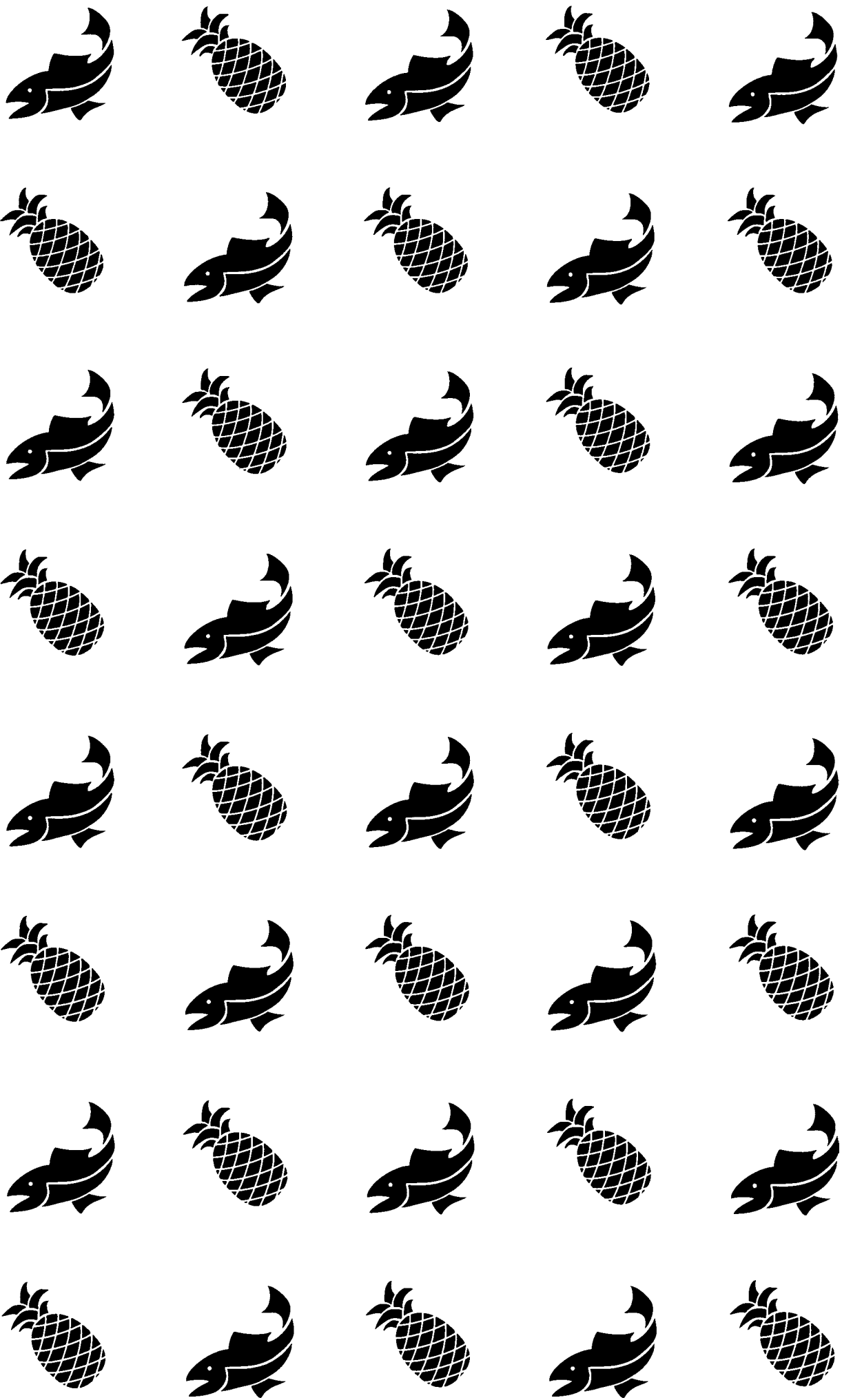


Agriculture & Aquaculture



Section 5

AGRICULTURE & AQUACULTURE

This section includes statistics on agriculture and aquaculture. Statistics about farms are presented along with the value and distribution of farm and other land based herbaculture production. Fish catches and other aquaculture statistics are given.

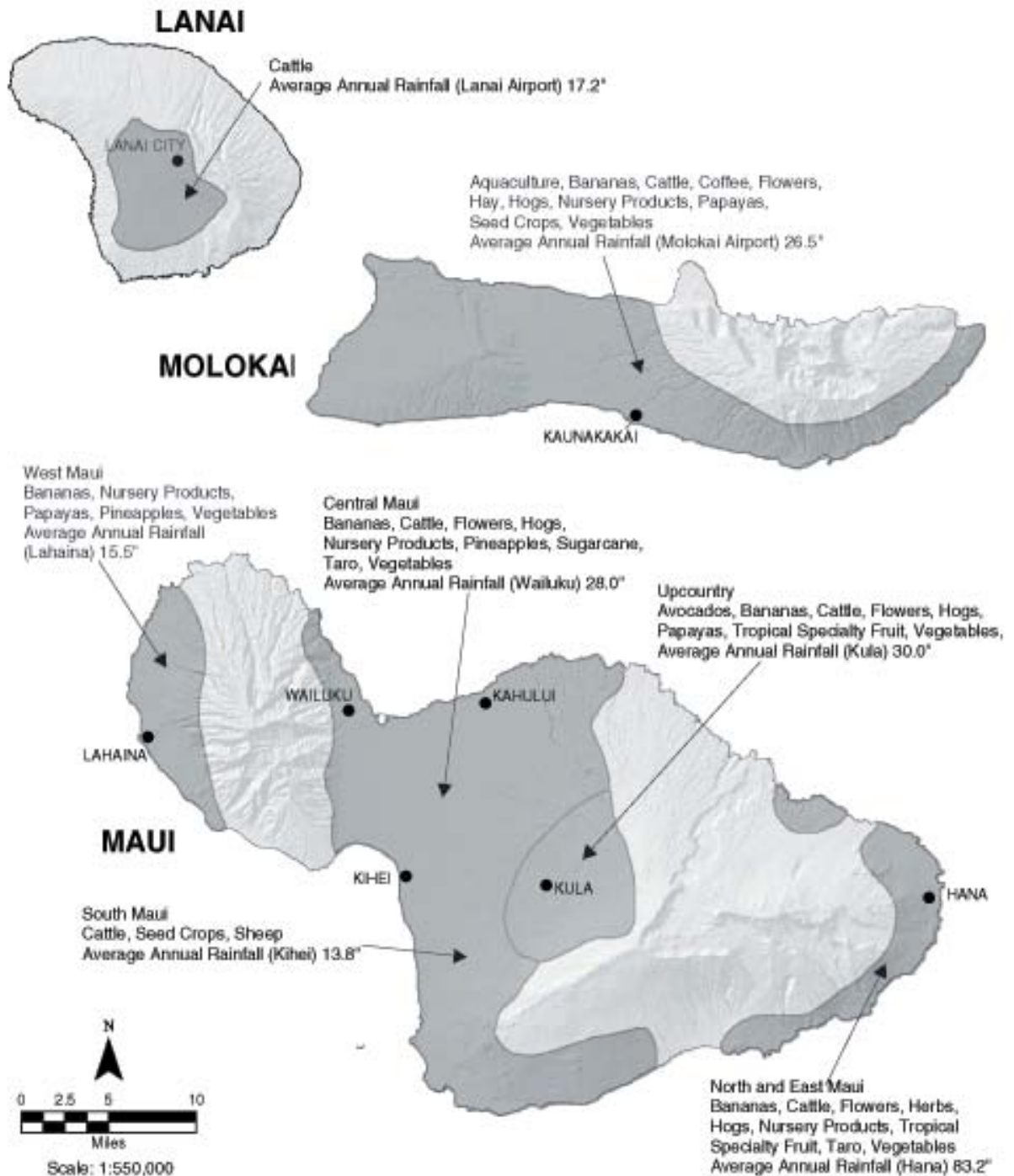
Agriculture remains an important element in Maui County's economy and land use patterns. Sugar and pineapple remain the largest crops, though the trend toward diversification of agriculture continues.

The value of commercially caught fish has been generally declining since 1986 and this trend continued through 1993, although there has been a rise since 1994. Commercial aquaculture continues to grow in importance.

The data in this section comes mainly from the U.S. Census Bureau, the Hawaii Agriculture Statistics Service, specific crop producers, and the Hawaii State Department of Land and Natural Resources.

5.1.1

**AGRICULTURAL AREAS,
MAUI COUNTY**



Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture*, 2003.

5.1.2

TENURE AND CHARACTERISTICS OF FARM OPERATORS AND TYPES OF FARM ORGANIZATION, MAUI COUNTY

| | 1992 | 1997 | 2002 |
|------------------------------------|----------------|----------------|----------------|
| Farms | 850 | 806 | 823 |
| Land In Farms (acres) | 355,786 | 292,090 | 256,690 |
| Tenure of Operator | | | |
| Full Owners | | | |
| Farms | 503 | 460 | 529 |
| Acres | 118,137 | 81,616 | 82,274 |
| Part Owners | | | |
| Farms | 159 | 137 | 115 |
| Acres | 225,867 | 188,649 | 135,661 |
| Owned land in farms (acres) | 141,136 | 140,909 | 102,342 |
| Rented land in farms (acres) | 84,731 | 47,740 | 33,319 |
| Tenants | | | |
| Farms | 188 | 209 | 179 |
| Acres | 11,782 | 21,825 | 38,755 |
| Operator Characteristics | | | |
| Place of Residence | | | |
| On farm operated | 577 | 536 | 623 |
| Not on farm operated | 219 | 215 | 200 |
| Not reported | 54 | 55 | n/a |
| Principal Occupation | | | |
| Farming | 456 | 372 | 434 |
| Other | 394 | 434 | 389 |
| Days of Work Off Farm ¹ | | | |
| None | 298 | 290 | 413 |
| Any | 482 | 455 | 410 |
| 1 to 49 days | 55 | 59 | 47 |
| 50 to 99 days | 31 | 33 | 36 |
| 100 to 199 days | 133 | 86 | 63 |
| 200 days or more | 263 | 277 | 264 |
| Not reported | 70 | 61 | n/a |
| Years on Present Farm | | | |
| 2 years or less | 44 | 42 | 46 |
| 3 or 4 years | 136 | 47 | 66 |
| 5 to 9 years | 171 | 171 | 189 |
| 10 years or more | 360 | 406 | 522 |
| Average years on present farm | 13.1 | 14.3 | 15.3 |
| Not reported | 139 | 140 | n/a |

5.1.2

CONTINUED

| | 1992 | 1997 | 2002 |
|---|---------|---------|---------|
| Operator Characteristics (cont.) | | | |
| Age Group | | | |
| Under 25 years | 2 | 7 | 4 |
| 25 to 34 years | 44 | 24 | 26 |
| 35 to 44 years | 259 | 182 | 108 |
| 45 to 54 years | 221 | 270 | 310 |
| 55 to 59 years | 50 | 107 | 117 |
| 60 to 64 years | 62 | 59 | 82 |
| 65 to 69 years | 74 | 45 | 54 |
| 70 years and over | 138 | 112 | 122 |
| Average age | 52.6 | 53.0 | 55.0 |
| Male | | | |
| Farms | 737 | 681 | 659 |
| Acres | 318,121 | 275,346 | 241,920 |
| Female | | | |
| Farms | 113 | 125 | 164 |
| Acres | 37,665 | 16,744 | 14,770 |
| Type of Organization | | | |
| Individual or Family (sole proprietorship) | | | |
| Farms | 710 | 679 | 701 |
| Acres | 53,463 | 31,942 | D |
| Partnership | | | |
| Farms | 52 | 44 | 37 |
| Acres | D | 34,620 | 11,357 |
| Corporation (family held) | | | |
| Farms | 46 | 56 | 58 |
| Acres | 90,740 | 101,236 | 76,424 |
| Corporation (other than family held) | | | |
| Farms | 26 | 13 | 17 |
| Acres | 192,428 | 123,312 | 99,056 |
| Other (cooperative, estate or trust, institutional, etc.) | | | |
| Farms | 16 | 14 | 10 |
| Acres | D | 980 | D |

D: Withheld to avoid disclosing data for individual farms.

Source: United States Department of Agriculture, National Agricultural Statistics Service, *2002 Census of Agriculture*, various tables.

5.1.3

FARMS AND LAND IN FARMS, MAUI COUNTY

| | 1992 | 1997 | 2002 |
|--|----------------|----------------|----------------|
| Farms | 850 | 806 | 823 |
| Land in Farms | 355,786 | 292,090 | 256,690 |
| Average size of farm (acres) | 419 | 362 | 312 |
| Median size of farm (acres) | NA | 6 | NA |
| Estimated Market Value of Land and Buildings¹ | | | |
| Average per farm | 1,118,184 | 818,342 | 1,251,598 |
| Average per acre | 2,671 | 2,258 | 4,112 |
| Estimated Market Value of All Machinery and Equipment¹ | | | |
| Average per farm | 117,143 | 88,989 | 58,849 |
| Farms by Size | | | |
| 1 to 9 acres | 505 | 468 | 505 |
| 10 to 49 acres | 232 | 233 | 212 |
| 50 to 179 acres | 60 | 48 | 56 |
| 180 to 499 acres | 24 | 29 | 20 |
| 500 to 999 acres | 3 | 5 | 7 |
| 1,000 acres or more | 26 | 23 | 23 |
| Total Cropland | | | |
| Farms | 733 | 684 | 649 |
| Acres | D | D | 28,404 |
| Harvested Cropland | | | |
| Farms | 666 | 605 | 649 |
| Acres | 39,031 | 32,243 | 28,404 |
| Irrigated Land | | | |
| Farms | 541 | 480 | 462 |
| Acres | 61,549 | 35,031 | 26,855 |
| Market Value of Agricultural Products Sold (\$1,000) | 164,767 | 128,385 | 124,511 |
| Crops, including nursery and greenhouse crops | 153,285 | 116,084 | 116,645 |
| Livestock, poultry, and their products | 11,483 | 12,301 | 7,866 |
| Average Market Value of Agricultural Products Sold per Farm (\$) | 193,844 | 159,287 | 151,289 |

¹ Data are based on a sample of farms.

D: Withheld to avoid disclosing data for individual farms.

NA: Not available.

Source: United States Department of Agriculture, National Agricultural Statistics Service, *2002 Census of Agriculture*, various tables.

5.1.4

NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, MAUI COUNTY

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Number of Farms ¹ | 800 | 800 | 800 | 800 | 800 | 800 |
| Farm Acreage (1,000) ² | 290 | 290 | 290 | 290 | 290 | 290 |
| Farm Employment ³ | | | | | | |
| Self-employed farm operators | 300 | 350 | 450 | 500 | 500 | 500 |
| Unpaid workers ⁴ | 100 | 150 | 200 | 150 | 150 | 150 |
| Hired workers | 1,850 | 1,950 | 2,200 | 2,000 | 1,800 | 2,250 |

¹ Based on farm definition of \$1,000 or more of agricultural sales.

² Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

³ Average of quarterly data.

⁴ Includes family members and others working 15 or more hours per week.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2002* (annual).

5.1.5

LIVESTOCK: NUMBER OF OPERATIONS AND VALUE OF SALES, MAUI COUNTY

| | 1998 | 1999 | 2000 | 2001 | 2002 |
|--|---------------|--------------|--------------|--------------|--------------|
| Number of Livestock Operations, December 31 | | | | | |
| Cattle ¹ | 180 | 170 | 170 | 170 | 170 |
| Hogs | 50 | 60 | 60 | 60 | 60 |
| Milk | 5 | 4 | 4 | 4 | D |
| Eggs | 8 | 8 | 8 | 8 | D |
| Honey | D | D | D | D | D |
| Value of Livestock Sales (\$1,000) | | | | | |
| Cattle ² | 3,641 | 2,865 | 3,230 | 2,438 | 2,577 |
| Hogs ³ | 825 | 894 | 935 | 839 | 838 |
| Milk | D | D | D | D | D |
| Eggs | D | D | D | D | D |
| Total livestock sales⁴ | 10,557 | 5,890 | 6,395 | 5,419 | 5,160 |

D: Withheld to avoid disclosure of individual operations.

¹ Includes beef, dairy, and dairy replacement operations.

² Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

³ Excludes interfarm sales; includes out-of-state sales of slaughter animals.

⁴ Sum of individual commodities may not add to total. Includes sheep, wool, turkeys, horses, honey, beeswax, broilers and chickens.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2002* (annual).

5.1.6

CROPS: ACREAGE, NUMBER OF FARMS, AND VALUE OF SALES, MAUI COUNTY

| | 1998 | 1999 | 2000 | 2001 | 2002 |
|--|---------|---------|---------|---------|---------|
| Acres in Crop (1,000 acres) | | | | | |
| Sugarcane | 42.9 | 43.3 | 36.9 | 35.4 | 36.7 |
| Pineapples (land used for pineapple) | 9.6 | 9.1 | 11.6 | 9.1 | 9.1 |
| Vegetables and melons (harvested acreage) ¹ | 1.6 | 1.4 | 1.3 | 1.2 | 1.1 |
| Fruits (excluding pineapples) | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| Coffee | D | D | D | D | D |
| Macadamia nuts | D | D | D | D | D |
| All other crops ² | 1.9 | 1.9 | 1.9 | 2.1 | 1.5 |
| Number of Crop Farms | | | | | |
| Sugar | 2 | 2 | 1 | 1 | 1 |
| Pineapples ³ | 5 | 5 | 5 | 2 | 2 |
| Vegetables and melons | 114 | 145 | 120 | 100 | 100 |
| Fruits (excluding pineapples) | 262 | 251 | 231 | 193 | 204 |
| Coffee | D | D | D | D | D |
| Macadamia nuts | D | D | D | D | D |
| Taro | 14 | 13 | 15 | 25 | 25 |
| Flowers and nursery products | 145 | 150 | 140 | 150 | 150 |
| Value of Crop Sales (\$1,000) | | | | | |
| Sugar (unprocessed cane) | 58,700 | 60,200 | 43,900 | 44,900 | 51,300 |
| Pineapples (fresh equivalent) | 28,413 | 28,325 | 29,445 | 27,115 | 29,624 |
| Vegetables, ginger root, herbs, and melons | 11,755 | 9,519 | 9,569 | 10,125 | 9,644 |
| Fruits (excluding pineapples) | 1,051 | 1,056 | 1,102 | 921 | 1,214 |
| Coffee (parchment) | D | D | D | D | D |
| Macadamia nuts (in-shell) | D | D | D | D | D |
| Taro | D | D | D | D | D |
| Seed crops | D | D | D | D | D |
| Flowers and nursery products ⁴ | 8,951 | 9,851 | 9,947 | 9,866 | 10,751 |
| Total crops ⁵ | 124,816 | 125,375 | 110,603 | 108,860 | 128,661 |

D: Withheld to avoid disclosure of individual operations.

¹ Includes ginger root.

² Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), and flowers, foliage and nursery products.

³ Includes specialty pineapple.

⁴ Flowers, foliage, and nursery products.

⁵ Total crop values shown are actual. Sum of individual commodities may not add to total. Forage crops' and Forest products' value combined and included in total crop value.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2002* (annual).

5.1.7

SUGARCANE, MAUI ISLAND

| | 1998 | 1999 | 2000 | 2001 | 2002 |
|---|--------------|--------------|--------------|--------------|--------------|
| Number of farms¹ | 2 | 2 | 1 | 1 | 1 |
| Acreage (1,000 acres) | | | | | |
| In crop ¹ | 42.9 | 43.3 | 36.9 | 35.4 | 36.7 |
| Harvested for sugar | 19.0 | 21.5 | 18.6 | 15.1 | 16.5 |
| Yield per acre (tons)² | | | | | |
| Sugarcane | 93.8 | 91.9 | 86.7 | 98.7 | 102.7 |
| Raw Sugar 96° | 12.48 | 11.86 | 11.29 | 12.7 | 13.0 |
| Production of cane for sugar (1,000 tons) | 1,783 | 1,975 | 1,613 | 1,491 | 1,694 |
| Farm price (dollars per ton) | 32.90 | 30.50 | 27.20 | 30.10 | 30.30 |
| Value of cane for sugar (\$1,000,000)³ | 58.7 | 60.2 | 43.9 | 44.9 | 51.3 |
| Mill Production (1,000 tons) | | | | | |
| Raw Sugar 96° | 237 | 255 | 210 | 191 | 216 |
| Molasses ⁴ | 85 | 99 | 71 | 72 | 74 |
| Average returns received (dollars per ton)⁵ | | | | | |
| Raw Sugar 96° | 369 | 352 | 311 | 352 | 354 |
| Molasses ⁴ | 23.10 | 13.20 | 26.20 | 49.00 | 50.10 |
| Value of production (\$1,000,000) | | | | | |
| Raw Sugar 96° | 87.5 | 89.8 | 65.3 | 67.2 | 76.5 |
| Molasses ⁴ | 2.0 | 1.3 | 1.9 | 3.5 | 3.7 |
| Total | 89.5 | 91.1 | 67.2 | 70.7 | 80.2 |

¹ At end of year.

² Yield and farm price may not compute exactly due to rounding.

³ Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges by independent producers.

⁴ Commercial.

⁵ Derived from production and value. Prices may not compute exactly due to rounding.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2002* (annual).

5.1.8

**VEGETABLES, MELONS AND TARO,
ACREAGE, PRODUCTION AND VALUE,
MAUI COUNTY**

| Commodity | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| HARVESTED ACREAGE¹ | | | | | | |
| Beans, snap | 45 | 95 | 90 | 70 | 55 | 55 |
| Cabbage, head | 300 | 280 | 210 | 190 | 170 | 170 |
| Celery | 20 | 20 | 25 | 25 | 25 | 25 |
| Corn, sweet | 25 | 40 | 55 | D | D | D |
| Cucumbers | 155 | 170 | 145 | 160 | 155 | 180 |
| Lettuce | 15 | 15 | D | D | D | D |
| Onions, dry | 180 | 235 | 190 | 190 | 150 | 130 |
| Onions, green | 10 | 15 | D | D | D | D |
| Peppers, green | 5 | D | D | D | D | D |
| Romaine | 90 | 110 | 95 | 55 | 55 | 30 |
| Squash, Italian | 40 | 50 | 70 | 65 | 60 | 75 |
| Sweet potatoes | 70 | 65 | 70 | 65 | 50 | 95 |
| Tomatoes | 245 | 155 | D | D | D | D |
| Watermelon | 5 | 10 | D | D | D | D |
| Other Vegetables & Melons ² | 250 | 280 | 450 | 495 | 485 | 355 |
| Total Vegetables & Melons | 1,455 | 1,540 | 1,400 | 1,315 | 1,205 | 1,115 |
| Taro (acreage in crop) ³ | 85 | 95 | 90 | 100 | 100 | 100 |
| PRODUCTION (1,000 pounds) | | | | | | |
| Beans, snap | 350 | 500 | 570 | 550 | 500 | 460 |
| Cabbage, head | 6,700 | 7,300 | 5,700 | 5,300 | 4,650 | 4,300 |
| Celery | 370 | 470 | 500 | 350 | 500 | 500 |
| Corn, sweet | 130 | 170 | 240 | D | D | D |
| Cucumbers | 2,600 | 2,900 | 2,300 | 2,500 | 2,490 | 2,560 |
| Lettuce | 100 | 55 | D | D | D | D |
| Onions, dry | 1,690 | 3,000 | 2,900 | 2,700 | 2,150 | 1,340 |
| Onions, green | 105 | 125 | D | D | D | D |
| Peppers, green | 60 | D | D | D | D | D |
| Romaine | 1,150 | 1,900 | 1,100 | 600 | 550 | 350 |
| Squash, Italian | 350 | 470 | 750 | 980 | 800 | 630 |
| Sweet potatoes | 800 | 750 | 600 | 620 | 380 | 650 |
| Tomatoes | 8,070 | 5,800 | D | D | D | D |
| Watermelon | 95 | 140 | D | D | D | D |
| Other Vegetables & Melons ² | 3,730 | 3,625 | 7,280 | 6,625 | 6,405 | 5,005 |
| Total Vegetables & Melons | 26,300 | 27,205 | 21,940 | 20,225 | 18,425 | 15,795 |
| Taro (marketings) ³ | 900 | 1,100 | 1,400 | 1,300 | 1,300 | 1,250 |

5.1.8

CONTINUED

| Commodity | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|--|------------------------|---------------|--------------|--------------------------|--------------------------|--------------|
| | VALUE (\$1,000) | | | | | |
| Beans, snap | 359 | 416 | 496 | 468 | 473 | 414 |
| Cabbage, head | 1,380 | 1,314 | 1,009 | 970 | 944 | 886 |
| Celery | 102 | 120 | 125 | 98 | 152 | 153 |
| Corn, sweet | 98 | 117 | 161 | D | D | D |
| Cucumbers | 832 | 1,018 | 840 | 988 | 1,068 | 1,080 |
| Lettuce | 41 | 23 | D | D | D | D |
| Onions, dry | 1,658 | 2,367 | 2,062 | 2,066 | 1,993 | 1,461 |
| Onions, green | 111 | 121 | D | D | D | D |
| Peppers, green | 30 | D | D | D | D | D |
| Romaine | 414 | 646 | 352 | 244 | 214 | 147 |
| Squash, Italian | 179 | 235 | 334 | 480 | 400 | 282 |
| Sweet potatoes | 432 | 426 | 360 | 372 | 228 | 332 |
| Tomatoes | 4,064 | 2,917 | D | D | D | D |
| Watermelon | 18 | 29 | D | D | D | D |
| Other Vegetables & Melons ² | 1,351 | 1,334 | 2,911 | 3,297 ^r | 3,570 ^r | 4,098 |
| Total Vegetables & Melons | 11,069 | 11,083 | 8,650 | 8,983^r | 9,042^r | 8,853 |
| Taro ³ | 450 | 577 | 736 | 684 | 691 | 690 |

D Not reported to avoid disclosure of individual operations.

¹ For vegetables and melons, acreage harvested (e.g., one acre planted and harvested three times during the year equals three harvested acres). For lotus root, watercress and taro, average acreage in crop during the year.

² Only selected items are shown separately. All other vegetables and melons for the island are included in the other vegetables and melons category.

³ Oahu combined with Maui and Molokai to avoid disclosure of individual operations.

^r Revised

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2002* (annual).

5.1.9

FLORICULTURE AND NURSERY PRODUCTS, MAUI COUNTY

Number of farms and growing area

| | Number of Farms | Greenhouse (1,000 sq ft) | Artificial Shade (1,000 sq ft) | Natural Shade (Acres) | Open Field (Acres) | Total (Acres) |
|---------------------|------------------|--------------------------|--------------------------------|-----------------------|--------------------|--------------------|
| State Total | | | | | | |
| 1999 | 855 | 2,810 | 24,510 | 7 | 2,325 | 2,959 |
| 2000 | 735 | 3,235 | 25,180 | 7 | 2,060 | 2,719 |
| 2001 | 790 | 3,175 | 26,660 | 9 | 2,355 | 3,049 |
| 2002 | 870 ^r | 3,030 ^r | 30,415 ^r | 10 | 2,870 ^r | 3,373 ^r |
| 2003 | 795 | 2,815 | 29,410 | 13 | 2,620 | 3,373 |
| Maui/Molokai | | | | | | |
| 1999 | 154 | 325 | 605 | 0 | 415 | 436 |
| 2000 | 145 | 345 | 685 | 0 | 515 | 539 |
| 2001 | 150 | 425 | 730 | 0 | 565 | 592 |
| 2002 | 155 ^r | 400 | 740 ^r | 0 | 540 ^r | 566 ^r |
| 2003 | 145 | 340 | 620 | 0 | 550 | 572 |

* Less than 1/2 acre.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers and Nursery Products (annual, 2003)*, *Statistics of Hawaiian Agriculture (annual)*.

5.1.10

FLORICULTURE AND NURSERY PRODUCTS, BY COMMODITY, MAUI COUNTY

Value of grower sales (\$1,000)

| Commodity | 1999 | 2000 | 2001 ^r | 2002 | 2003 |
|---|--------------|--------------|-------------------|---------------|---------------|
| Cut Flowers ¹ | 3,051 | 2,926 | 2,556 | 2,895 | 2,980 |
| Orchids | 999 | 1,027 | 1,111 | 981 | 1,576 |
| Lei Flowers | D | D | D | D | D |
| Foliage ³ | 628 | 543 | D | D | D |
| Potted Flowering Plants | 1,229 | 1,121 | 1,135 | 1,112 | 1,145 |
| All Other Nursery Products ⁴ | 3,589 | 3,976 | 4,866 | 5,533 | 5,394 |
| Unspecified Sales ⁵ | 355 | 325 | 230 | 230 | 220 |
| Total | 9,851 | 9,918 | 9,898 | 10,751 | 11,315 |

D: Data not shown separately to avoid disclosure of individual operations.

^r Revised

¹ Cut orchids included in "Orchids" category.

² Excludes orchids used for lei flowers.

³ Includes potted, cut and unfinished. Beginning 1998, landscape foliage included with "all other nursery products."

⁴ Includes bedding plants, plant rentals, sod, trees, and any other nursery products not elsewhere classified.

⁵ Includes grower sales greater than \$999 but less than \$10,000 which were not categorized.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers and Nursery Products (annual, 2003)*, *Statistics of Hawaiian Agriculture (annual)*.

5.1.11

FRUITS: VALUE OF SALES, MAUI COUNTY

1,000 dollars (Fresh weight basis)

| | Pineapples | Other | Total |
|---------------------------|---------------------|-------|--------|
| Maui/Molokai/Lanai | | | |
| 1994 | 25,150 | 984 | 26,134 |
| 1995 | 24,775 | 1,031 | 25,806 |
| 1996 | 27,144 | 858 | 28,002 |
| 1997 | 28,295 | 1,136 | 29,431 |
| 1998 | 28,413 | 1,051 | 29,464 |
| 1999 | 28,325 | 1,056 | 29,381 |
| 2000 | 29,445 ^R | 1,102 | 30,497 |
| 2001 | 27,115 | 921 | 28,036 |
| 2002 | 29,624 | 1,214 | 30,838 |

^r Revised

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2002* (annual).

5.1.12

BANANAS, MAUI COUNTY

| | 1998 | 1999 | 2000 | 2001 | 2002 |
|---------------------------------------|------|------|------|------|------|
| Maui/Molokai/Lanai | | | | | |
| Number of Farms | 35 | 40 | 40 | 30 | 40 |
| Acreage in crop ¹ | 85 | 85 | 75 | 85 | 85 |
| Acreage harvested ² | 50 | 50 | 60 | 60 | 60 |
| Yield per acre (1,000 lbs. harvested) | 16.0 | 17.8 | 12.5 | 9.7 | 9.2 |
| Fresh utilization (1,000 pounds) | 800 | 890 | 750 | 580 | 550 |
| Farm price (cents per pound) | 55.0 | 56.0 | 60.0 | 58.0 | 60.0 |
| Value of sales (\$1,000) | 440 | 499 | 451 | 333 | 330 |

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2002* (annual)..

5.2.1

COMMERCIAL MARINE LANDINGS, MAUI COUNTY

Year ended June 30

| Year | Pounds Landed | Pounds Sold | Value (\$) |
|------|---------------|-------------|------------|
| 1982 | 792,504 | 734,258 | 873,251 |
| 1983 | 944,045 | 899,995 | 1,109,356 |
| 1984 | 889,715 | 810,257 | 1,083,651 |
| 1985 | 862,333 | 810,599 | 1,140,578 |
| 1986 | 1,007,255 | 915,637 | 1,659,720 |
| 1987 | 1,120,497 | 1,026,307 | 1,919,196 |
| 1988 | 961,337 | 851,858 | 1,780,096 |
| 1989 | 698,000 | 596,620 | 1,363,703 |
| 1990 | 777,385 | 624,466 | 1,428,937 |
| 1991 | 744,805 | 602,325 | 1,390,838 |
| 1992 | 854,282 | 692,870 | 1,596,576 |
| 1993 | 516,909 | 409,498 | 1,050,460 |
| 1994 | 624,147 | 486,682 | 1,226,805 |
| 1995 | 731,447 | 586,398 | 1,597,826 |
| 1996 | 783,394 | 620,343 | 1,577,195 |
| 1997 | 663,203 | 507,255 | 1,409,797 |
| 1998 | 748,149 | 605,174 | 1,464,070 |
| 1999 | 725,445 | 555,477 | 1,562,511 |
| 2000 | 643,581 | 501,263 | 1,502,897 |
| 2001 | 573,566 | 431,781 | 1,336,420 |
| 2002 | 473,472 | 353,277 | 1,145,432 |

SOURCE: State of Hawaii, Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Marine Landings, State of Hawaii*, fiscal year reports.

5.2.2

SEA SPECIES COMMONLY CAUGHT NEAR FISH AGGREGATING DEVICES, MAUI COUNTY

Pounds landed in year ending June 30

| Species | 1998 | 1999 | 2000 | 2001 | 2002 |
|--------------------------|----------------|----------------|----------------|----------------|----------------|
| Aku | 19,809 | 42,012 | 18,538 | 10,642 | 10,038 |
| Bigeye | 1,234 | 1,449 | 554 | — | — |
| Yellowfin | 33,108 | 41,447 | 18,508 | 29,136 | 28,981 |
| Kawakawa | 124 | 150 | 105 | — | — |
| Tuna (misc.) | 1,149 | 598 | 1,140 | — | — |
| Blue Marlin | 28,230 | 15,677 | 20,785 | 7,204 | 12,205 |
| Striped Marlin | 1,393 | 3,707 | 2,409 | 921 | 1,793 |
| Sailfish | 59 | — | 118 | — | — |
| Shortbill Spearfish | 567 | 2,947 | 1,345 | 336 | — |
| Kahala | — | — | 12 | — | — |
| Kamanu | 44 | 21 | 13 | — | — |
| Keokeo | — | — | 1 | — | — |
| Mahimahi | 32,634 | 44,480 | 37,528 | 42,905 | 51,068 |
| Mako | — | 410 | — | — | — |
| Mano | 824 | 255 | 100 | — | — |
| Ono | 8,403 | 7,785 | 7,143 | 9,014 | 5,918 |
| Opelu | — | 83 | — | — | — |
| Uku | — | 15 | — | — | — |
| Other | 1,058 | 119 | 169 | — | — |
| Total | 128,636 | 161,155 | 108,468 | 100,158 | 110,003 |
| Devices Available | 15 | 16 | 15 | 16 | 15 |

NOTE: FDA: Fish Agregating Devise are non-navigational buoys placed several miles offshore to attract fish. Data is incomplete due to late submission and processing of fish catch records.

SOURCE: State of Hawaii, Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Marine Landings, State of Hawaii*, fiscal year reports.

5.2.3

FAD CATCHES AND TRIP COUNT, MAUI COUNTY

| FAD | Location | No. of Months Station On | Lbs. ¹ | No. of Trips ¹ | Lbs/ Trip |
|-----|--------------|--------------------------|-------------------|---------------------------|-----------|
| I | Halona Pt. | 10.6 | 3,469 | 78 | 44.5 |
| K | Palaoa | 12.0 | 15,770 | 273 | 57.8 |
| M | Hana Bay | 12.0 | 2,460 | 39 | 63.1 |
| N | Cape Halawa | 12.0 | 2,007 | 25 | 80.3 |
| O | Kalaupapa | 11.1 | 2,417 | 20 | 120.9 |
| Q | Pauwela Pt. | 12.0 | 15,746 | 177 | 89.0 |
| CC | Ka'ena Pt. | 12.0 | 2,249 | 52 | 43.3 |
| DD | Opana Pt. | 9.3 | 7,674 | 176 | 43.6 |
| FF | Pukaulua Pt. | 12.0 | 26,388 | 114 | 231.5 |
| HO | Ho'olawa Pt. | 10.0 | 10,920 | 129 | 84.7 |
| JJ | Kamohio | 12.0 | 17,229 | 79 | 218.1 |
| LA | Lahaina | 8.2 | 3,789 | 128 | 29.6 |
| MC | Palaoa | 9.9 | 2,748 | 52 | 52.8 |
| NL | Nu'u | 10.4 | 2,006 | 39 | 51.4 |
| T2 | Kolo Harbor | D | D | D | D |
| T3 | Pala'au | D | D | D | D |
| T6 | Palaoa | 12.0 | D | D | D |

FAD: Fish Aggregating Device - are non-navigational buoys placed several miles offshore to attract fish.

¹ Reported numbers are for trolling only.

D: Due to low level of fishermen reporting and to preserve confidentiality, data for these FADs are not listed

Source: State of Hawaii, Department of Land and natural Resources, Division of Aquatic Resources, *Commercial Marine Landings, State of Hawaii*, fiscal year report 2002.