

AGRICULTURE IN THE STATE OF HAWAII

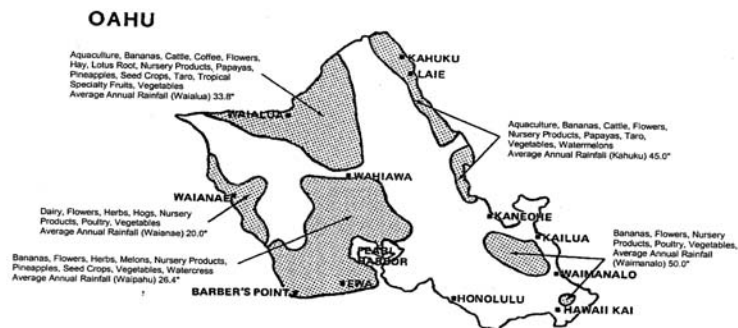


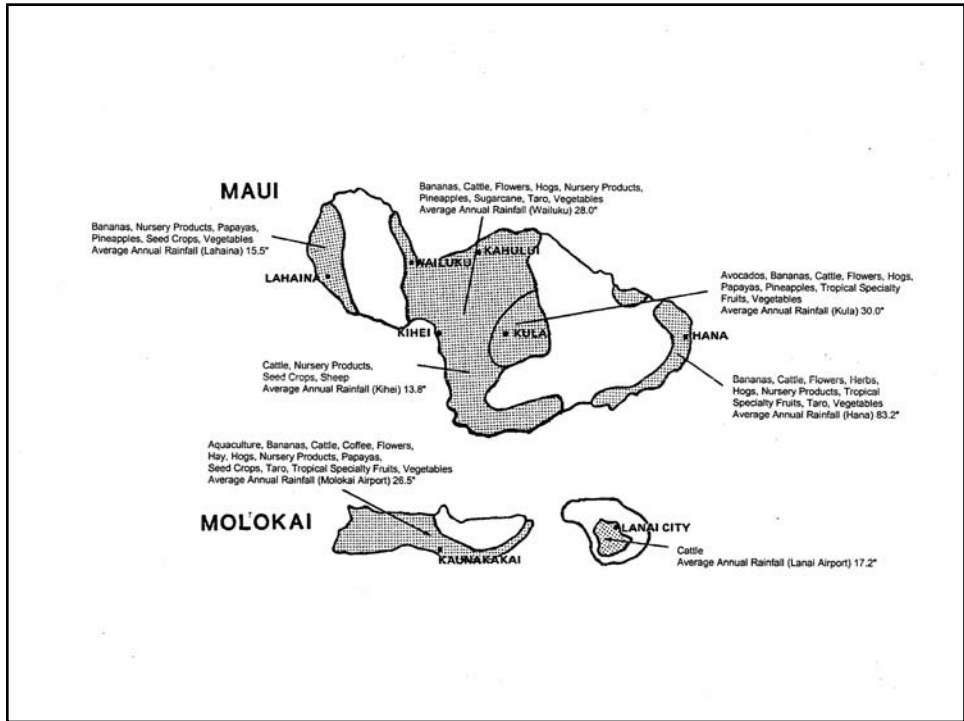
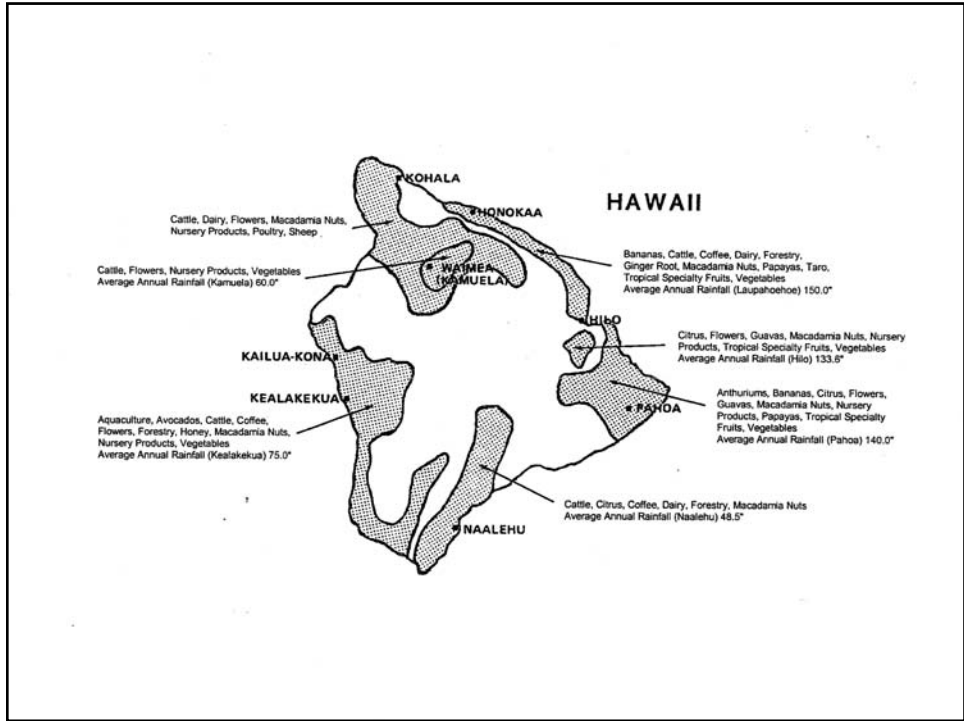
Brief History of Agriculture in Hawaii

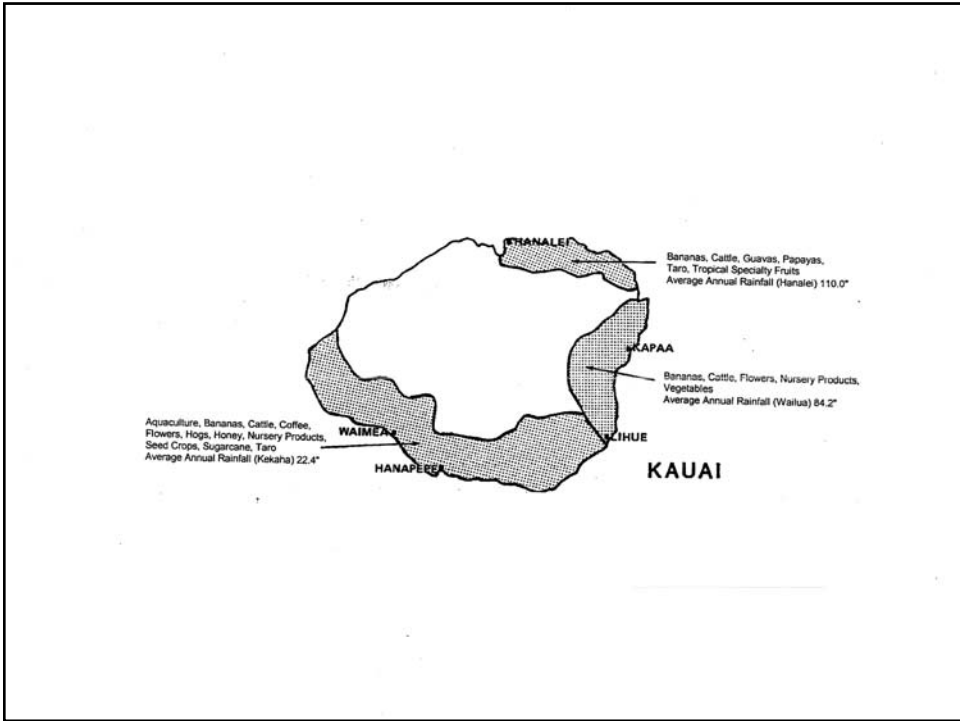
- 500-700 AD** – The first Polynesians arrive in Hawaii
- 1793** – First cattle introduced by Capt. George Vancouver
- 1813** – Coffee and pineapple introduced to Hawaii
- 1828-1829** – H.N. Greenwell plants first coffee plant in Kona
- 1856** – First extensive irrigation system at Lihue plantation
- 1876** – Reciprocity treaty
- 1898** – Alfred W. Eames arrives in Hawaii and starts selling fresh pineapple in 1900
- 1903** – Board of Agriculture and Forestry established
- 1907** – College of Agriculture and Mechanic Arts
- 1910** – Mediterranean fruit fly stops exports of products
- Mid 1950s** – Castle & Cooke introduces “Royal Hawaiian” macadamia nuts

- 1975** – State's first agricultural park at Pahoia
- 1976** – Del Monte expands into national distribution of fresh Hawaiian pineapple
- 1983** – C. Brewer & Company, Ltd. becomes largest producer of macadamia nuts in the world
- 1984** – Garst Seed Company establishes a corn research farm at Kunia, Oahu
- 1992** – Dole shuts Iwilei Cannery (December)
- 1994** – Hamakua Sugar Co. harvests last crop
- 1995** – Hilo Sugar and Oahu Sugar close
- 1995** – First shipment of foliage potted plants to Japan
- 1996** – Ka'u Sugar & Waialua Sugar close
- 1998** – Papayas resistant to the Papaya Ringspot Virus
- 1999** – Last sugar harvest in Lahaina

Hawaii Agriculture in the 21st Century







Land Classification and Ag Use

	KAUAI	OAHU	MAUI	BIG ISLAND
Land Acreage	353,900	386,188	722,100	2,573,400
Acres in State Ag District	139,320	128,839	404,043	1,214,527
Acres ALISH "Prime"	54,916	55,563	78,440	115,391
Acres LSB A, B, C	68,981	70,876	100,830	253,720
Acres in Ag Production (excluding pasture)	14,100	17,300	46,000	11,800

Top Three Crops by Value (2003)

KAUAI	OAHU	MAUI	BIG ISLAND
Sugar	Pineapple	Sugar	Flowers & Nursery
Flowers & Nursery	Vegetables & Melons	Pineapple	Fruits
Vegetables & Melons	Flowers & Nursery	Flowers & Nursery	Aquaculture

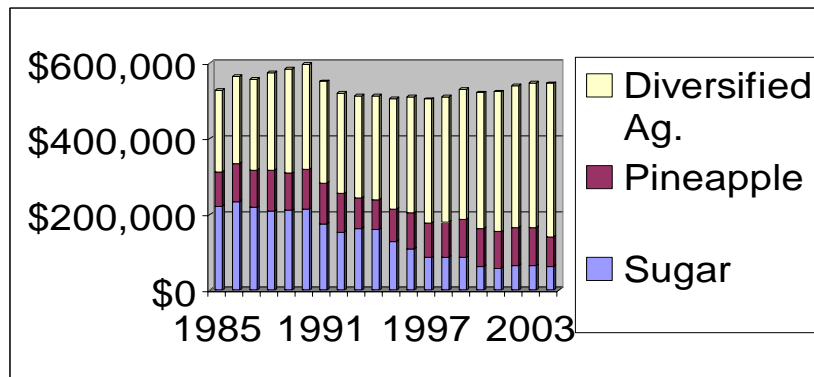
Characteristics of Farms

	KAUAI	OAHU	MAUI	BIG ISLAND
Number of farms	565	794	823	3,216
No. Acres				
1 – 9	352	574	505	2,009
10 – 49	127	152	212	818
50 – 179	38	34	56	207
180 – 499	21	15	20	90
500 – 999	11	5	7	38
1,000 +	16	14	23	54
Median Farm Size	5	4	5	6

Farm Production

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Diversified Agriculture	Total
			\$1,000	
1985	\$222,400	\$90,530	\$215,719	\$528,649
1990	\$213,800	\$106,365	\$275,789	\$595,954
1991	\$174,900	\$107,775	\$268,707	\$551,382
1992	\$153,700	\$102,100	\$264,427	\$520,227
1993	\$163,000	\$79,850	\$271,094	\$513,944
1994	\$160,100	\$78,890	\$273,826	\$512,816
1995	\$127,700	\$87,360	\$291,632	\$506,692
1996	\$108,100	\$95,914	\$307,329	\$511,343
1997	\$85,500	\$91,721	\$327,484	\$504,705
1998	\$87,300	\$92,776	\$329,886	\$509,962
1999	\$86,800	\$101,448	\$342,846	\$531,094
2000	\$62,200	\$101,530	\$358,170	\$521,900
2001	\$57,800	\$96,337	\$370,244	\$524,381
2002	\$64,300	\$100,616	\$374,400	\$539,316
2003	\$64,400	\$101,470	\$382,253	\$548,123
2004	\$61,500	\$79,934	\$404,644	\$546,078

Growth of Diversified Agriculture



Diversified Agriculture Ranked by Value 2004

Commodity		Value of Production (\$1,000)	% of Diversified Ag
Flowers and nursery products	1	\$94,525	23.4%
Vegetables and melons	2	\$67,892	16.8%
Seed crops	3	\$60,200	14.9%
Macadamia nuts	4	\$40,115	9.9%
Aquaculture	5	\$28,100	6.9%
Fruits (excluding pineapples)	6	\$26,590	6.6%
Cattle	7	\$22,125	5.5%
Milk	8	\$20,175	5.0%
Coffee	9	\$19,880	4.9%
Eggs	10	\$10,665	2.6%
Hogs	11	\$4,463	1.1%
Other livestock and crops		\$9,914	2.5%
Total		\$404,644	100.0%

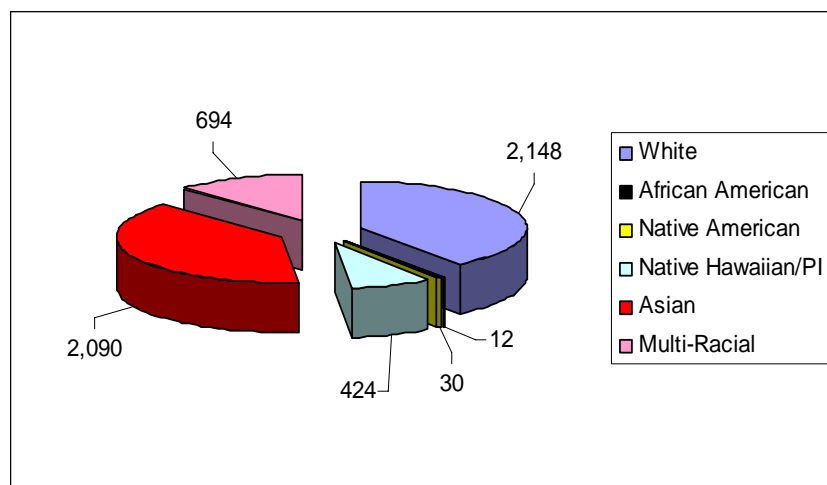
Characteristics of Farmers

	Kauai	Oahu	Maui	Big Island
Average age of farmer	56.3	57.1	55	56.5
Full ownership	325 farmers	402 farmers	529 farmers	1,946 farmers
Part ownership	80 farmers	56 farmers	115 farmers	338 farmers
Tenant only	160 farmers	336 farmers	179 farmers	932 farmers

Characteristics of Farmers

	Kauai	Oahu	Maui	Big Island
Farming as a primary occupation	306 (54.2%)	555 (69.9%)	434 (52.7%)	1,830 (56.9%)
Farming as a secondary occupation	259 (45.8%)	239 (30.1%)	389 (47.3%)	1,386 (43.1%)

Ethnicity of Farmers



The Keys to the Future of Hawaii Agriculture

- ✓ Maintaining essential agricultural resources and infrastructure;
- ✓ Creating and maximizing opportunities for farmers to access local and export markets;
- ✓ Implementing programs to protect Hawaii's farmers and consumers; and
- ✓ Preventing the introduction and establishment of plants, animals and diseases that are detrimental to the State's agriculture industry and the environment.