LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories, such as farms, forests, parks, or military land, is given elsewhere.

Out of 4,050,176 acres on the six largest islands of the State, only 155,705 are in urban use. The largest uses are grazing (1,150,534 acres), forest reserve (1,190,954), and pali or other barren land (503,308). Approximately half of the 55,000 acres in Honolulu were unused open space when last surveyed in 1969; the second largest category at that time was residential use, with over 8,300 acres. For the State as a whole, the Land Use Commission has zoned 134,300 acres as "urban," 2,038,400 as "conservation," 1,932,500 as "agricultural," and 6,300 as "rural." Approximately 9 percent of the land in the State is owned by the Federal government, 38 percent by State government, 46 percent by major private owners (those with 1,000 or more acres), and less than 7 percent by small landowners.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with State totals ranging from 356,000 to 397,000 acres. Recent statistics on military land use are likewise confusing, going as high as 175,000 acres and as low as 56,000.

Reports of the Hawaii State Department of Land and Natural Resources, Department of Taxation, and Department of Transportation, the Land Study Bureau of the University of Hawaii, and the Congressional Committee on Government Operations provided the data for this section. Statistics for the nation as a whole are available in Sections 7 and 23 of the Statistical Abstract of the United States: 1972.

Table 86.—LAND USE ACREAGES, BY ISLAND: 1968

Land Use	Six Islands	Kauai	Oahu	Molokai	Lanai	Maui	Hawaii
All uses	4,050,176	354,112	388,928	167,104	89,280	466,432	2,584,320
Pineapple	69,276	2,699	18,987	17,276	16,236	14,078	
Sugar cane	262,377	58,927	40,852	4		47,819	114,775
Nonplantation agriculture	1,197,688	55,311	51,741	90,072		180,511	820,053
Vegetable	6,708	339	2,102	845	_	1,506	1,916
Orchard	24,294	455	1,670	104	_	536	21,529
Grazing	1,150,534	53,637	38,608	86,850		176,810	794,629
Other ¹	2,567	547	1,434	2	_	331	253
Idle agricultural land	13,585	333	7,927	2,271	_	1,328	1,726
Forest	289,039	38,716	30,033	2,037	5,926	14,504	197,823
Forest reserve	1,190,954	157,555	118,766	48,338	—	156,035	710,260
Recreation ²	334,256	11,244	5,184	415	66,683	18,980	231,750
Military	38,048	1,886	35,055	316	_	_	791
Urban	155,705	4,550	56,850	1,091	435	6,204	86,575
Civilian	61,233	4,400	36,957	1,091	435	6,204	12,146
Military	17,658	150	17,508				
Undeveloped subdivision	76,814		2,385				74,429
Pali and barren land	503,308	22,235	23,799	7,477		27,852	421,945
Quarry	1,462	23	1,077	30		85	247
Water	8,063	966	6,584	48		364	101

¹Includes water crop (974), forage (423), dairy (738), poultry (275), swine (103), feed lot (38), and salt bed (16).
²Includes game management areas (87,585), national parks (299,423), and other recreation areas (17,248).
Source: A.Y. Ching and T. Sahara, *Land Use and Productivity Rating, State of Hawaii, 1968*, Land Study Bureau Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 18-19.

Table 87.—LAND USE SUMMARY, FOR OAHU: 1969

	Area (in acres)					
Land use	Oahu	Honolulu	Rest of Oahu			
Total area ¹	381,934.85	54,738.26	327,196.59			
Residential ²	22,676.00	8,309.47	14,366.53			
Industrial	6,304.94	2,622.62	3,682.32			
Commercial	1,645.23	1,024.57	620.66			
Hotel	97.87	90.73	7.14			
Public buildings	5,226.08	2,372.90	2,853.18			
Public open spaces	7,795.17	2,660.40	5,134.77			
Highways and streets	8,495.00	3,718.00	4,777.00			
Agriculture	88,739.90	1,004.95	87,734.95			
Military	47,650.43	5,394.53	42,255.90			
Unused open space ²	193,304.23	27,540.09	165,764.14			

¹Differs somewhat from measurement by the Bureau of the Census (379,328 for Oahu, 53,504 for Honolulu, and 325,824 for the rest of Oahu).

Source: Hawaii State Department of Transportation, Advance Transportation Planning Office, 1969 land use files.

Table 88.—LAND AND FLOOR AREA IN COMMERCIAL AND HOTEL USE, FOR OAHU: 1964 AND 1969

	Number of	Lond	Floor area (square feet)		
Land use	establish- ments	Land area (acres)	Total	Per estab- lishment	
Retailing:					
1964	3,746	1,016	10,986,345	2,933	
1969	3,906	1,036	13,375,672	3,424	
Services, exc. hotels:					
1964	4,862	434	9,146,100	1,881	
1969	5,696	602	13,933,747	2,446	
Hotels:					
1964	60	73	5,001,017	83,350	
1969	81	116	7,571,981	93,481	

Source: State of Hawaii and City and County of Honolulu, *Oahu Transportation Study*, Vol. I, *Economic, Population, and Land Use* (1967), p. IV-A-3; Hawaii State Department of Transportation, 1969 land use files from Oahu Transportation Planning Program.

²Not directly comparable to 1964 data in *State of Hawaii Data Book 1970*, table 39, p. 36; for 1969, large parcels containing both residential and vacant areas were divided and reported separately.

Table 89.—ESTIMATED ACREAGE OF LAND USE DISTRICTS: FEBRUARY 15, 1972

(Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes.)

	Total	Classification by State Land Use Commission				
Island	area ¹	Urban ²	Conservation ³	Agricultural ⁴	Rural ⁵	
State total	4,111,500	134,300	2,038,400	1,932,500	6,300	
Hawaii	2,573,400	25,600	1,355,100	1,191,600	1,100	
Maui	465,800	14,300	193,000	255,200	3,300	
Kahoolawe	28,800	∦ –	28,800		_	
Lanai	90,500	500	57,300	32,700	_	
Molokai	165,800	5,100	49,900	109,900	900	
Oahu	385,300	79,700	156,700	148,900	_	
Kauai	353,900	9,100	195,300	148,500	1,000	
Niihau	45,700	_	_	45,700		
Kaula and Lehua	400		400		_	
Northwestern Haw'n I	1,900		1,900		_	
	ł	11	j	1	i .	

¹These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census: State total, 4,128,256; Hawaii, 2,584,320; Maui, 466,432; Kahoolawe, 28,800 (same); Lanai, 89,280; Molokai, 167,104; Oahu, 388,928; Kauai, 354,112; Niihau, 46,720; Kaula and Lehua, 512; the Northwestern Hawaiian Islands, excluding Midway, 2,048.

²Defined as "those lands now in urban use and a sufficient reserve for future urban growth" (H.R.S. § 205-2).

³Includes all areas formerly designated "forest and water reserve zones" and includes, among others, "areas necessary for protecting watersheds and water sources; preserving scenic areas; providing park lands, wilderness, and beach reserves..." (ibid.).

⁴Defined as lands with a "high capacity for intensive cultivation" (ibid.).

Defined as areas "primarily of small farms mixed with very low density residential lots" (ibid.).

Source: Hawaii State Land Use Commission, unpublished estimates.

Table 90.-LAND OWNERSHIP OR TENURE, BY ISLAND: JUNE 30, 1968

	Ownership or tenure (in acres)						
Island	Total land area	Federal government ¹	State government ²	Major private owners	Other owners ³		
State total	4,128,263	355,769	1,584,715	1,917,560	270,219		
Hawaii	2,584,320	241,858	1,106,126	1,052,583	183,753		
Maui	466,439	26,478	204,895	221,223	13,843		
Kahoolawe	28,800	28,800					
Lanai	89,280	8		87,832	1,440		
Molokai	167,104	78	53,019	110,444	3,563		
Oahu	388,928	56,241	64,810	221,820	46,057		
Kauai	354,112	2,306	153,305	176,953	21,548		
Niihau	46,720	_		46,705	15		
Other islands ⁴	2,560	_	2,560		PROPOSITION		

¹Includes fee simple and ceded land.
²Includes State land managed by the County governments and various State agencies, and Hawaiian Homes Commission

³Land owned by private landowners with less than 1,000 acres in fee simple and County land acquired by purchase or gift in the name of the Counties.

Kaula, Lehua, and the Northwestern Hawaiian Islands.
Source: Hawaii State Department of Land and Natural Resources, Report to the Governor, 1971-1972, p. 50.

Table 91.—FEDERALLY OWNED PROPERTY IN HAWAII: 1960 AND 1970

Subject	June 30, 1960	June 30, 1970
Number of installations	167	160
Land (acres), total	234,074.1	396,900.7
Urban	23,530.2	57,202.3
Rural	210,543.9	339,698.4
Number of buildings	11,506	11,479
Cost (\$1,000), total	877,162	1,115,240
Land	21,910	40,083
Buildings	407,478	545,140
Structures and facilities	447,774	530,017

Source: Committee on Government Operations, U.S. House of Representatives, Federal Real and Personal Property Inventory (Civilian and Military) of the United States Government Covering Its Properties Located in the United States, in the Territories, and Overseas (biennial report).