Section 6

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 is given elsewhere: parks in section 7, farms in section 19, forests in section 20, cane land and industrial parks in section 22, and shopping centers in section 23.

Out of the 4,128,000 acres in the State, almost 2,200,000 are in unused open space. Other major categories include agriculture, with 1,347,000 acres, services (including military installations), with 123,000, and recreation, with 280,000. In the Honolulu Standard Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 16,500 acres in 1964 to 27,200 in 1979; during the same 15-year span, agricultural land declined from 94,500 to 75,100 acres. For the State as a whole, the Land Use Commission has zoned 154,000 acres as "urban," 1,976,000 as "conservation," 1,972,000 as "agricultural," and 9,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 7.3 percent of all land, the State and counties own 34.8 percent, and private owners (chiefly large estates) have 57.9 percent. Total Federal holdings reported by the General Services Administration come to 402,900 acres, exclusive of leased land (48,500 acres); most of the Federal land is in park and military use. The State Department of Hawaiian Home Lands holds about 192,000 acres, divided among 3,004 lessees. Total land parcels in the State number 370,000.

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 Federal totals ranging from 297,000 acres to 403,000. 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 U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Develoment, Department of Taxation, and Land Use Commission, and county planning departments provided the data for this section. Greater detail appears in DPED Statistical Report 98, Land Use and Ownership Trends in Hawaii, issued December 28, 1973. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 8 and 24 of the Statistical Abstract of the United States: 1980.

1974 Table 131.-- MAJOR USES OF LAND: [In thousands of acres.]

Use	Area
Approximate land area	4,112
Cropland 1/	357
Crops 2/	151
Idle	169
Pasture <u>3</u> /	37
Grassland pasture and range 4/	1,018
Forest land <u>5</u> /	1,626
Grazed	460
Not grazed	1,166
Special uses	842
Urban areas	178
Rural transportation areas 6/	35
Rural parks 7/	273
Wildlife refuges	162
Defense and industrial areas	174
Farmsteads, farm roads, and lanes	20
Other land $8/$	269

- $\frac{1}{2}$ Total acreage in the crop rotation. $\frac{2}{2}$ Includes cropland harvested, crop failure, and cultivated summer fallow.
 - 3/ Cropland used only for pasture.
- 4/ Grassland and other nonforested pasture, excluding cropland used only for pasture.
- 5/ Forest land, excluding reserved forest land and some unreserved areas duplicated in parks and other special uses of land.
- 6/ Includes rural highways and roads, railroads, and civilian airports.
 - 7/ Areas in National and State parks systems.
- 8/ Miscellaneous areas with low agricultural use value, such as marshes, bare rock areas, and deserts.

Source: H. Thomas Frey, Major Uses of Land in the United States: 1974 (U.S. Department of Agriculture, Agricultural Economic Report No. 440, November 1979).

Table 132.-- LAND USE, BY COUNTY AND ISLAND: 1972-1979

[In acres.]

		Maui County (Spring 1972) Hawaii			City and County of	Kauai County (May 1972)		
Land use	State total	County (Sept. 1978)	Maui and Kahoolawe	Lanai	Molokai	Honolulu (Dec. 1979)	Kauai	Niihau
All uses $\underline{1}/$	4,045,343	2,519,709	490,232	89,072	168,258	373,006	357,978	47,088
Residential	66,527 3,836 11,023 2,390 122,854 7,821 280,481 1,346,704 6,120 2,197,587	625 1,566 430 35,588 1,910 250,034 810,458 2,119	17,292 774 657 233 30,986 1,302 18,778 197,900 776 221,534	256 - 54 13 80 15 89 15,020 165 73,380	2,963 754 54 38 810 93 34 37,199 24 126,289	27,702 1,503 2,805 1,563 52,669 4,135 6,322 75,096 1,763 199,448	5,968 177 5,880 113 2,336 361 5,224 167,650 1,273 168,996	385 5 -

- 1/ Excludes public streets and highways.
- 2/ Includes warehousing, construction services, and public utilities.
- 3/ Retail and wholesale trade.
- $\frac{4}{4}$ Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.
 - 5/ Educational, cultural, and religious.
 - 6/ Excludes commercial amusement and recreation services.
 - 7/ Includes airports, docks, and land transportation facilities.
 - $\overline{8}$ / Includes vacant land, forest reserve, lakes, steep land, and undedicated streets.

Source: Hawaii State Department of Planning and Economic Development, Kauai County Land Inventory Report: 1972 (1974), and Maui County Land Inventory Report: 1972 (1974); City and County of Honolulu, Department of General Planning, Generalized Land Use, 1979, special tabulation; County of Hawaii, Department of Research and Development, County of Hawaii Data Book 1980, p. 84.

Table 133.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1979

Subject	Oahu total	City of Honolulu <u>1</u> /	Rest of Oahu
LAND USE (IN ACRES)			
All existing uses	373,006	51,452	321,554
Single family Multi-family Industrial Commercial Hotel Agriculture Usable vacant Other	24,953 2,258 6,694 4,290 239 75,097 39,322 220,153	8,135 1,053 2,927 1,733 123 309 3,365 33,807	16,818 1,205 3,767 2,557 116 74,788 35,957 186,346
STRUCTURES BY YEAR BUILT			
All structures	137,753	62,641	75,112
Before 1930	9,041 10,388 16,970 31,274 41,851 25,262 2,967	6,946 6,642 9,649 15,188 15,891 7,399 926	2,095 3,746 7,321 16,086 25,960 17,863 2,041
NONRESIDENTIAL FLOOR AREA <u>2/</u> (1,000 SQUARE FEET)			
All nonresidential floor area .	113,439	93,828	19,611
Transportation Manufacturing Utilities and communications Contract construction Wholesale trade and warehousing Commercial retail Commercial services Public and quasi-public buildings Hotel Vacant or unknown uses	4,149 8,947 2,018 2,840 11,125 17,878 19,304 22,502 19,411 5,265	4,004 6,583 1,642 2,214 8,913 12,376 17,046 18,375 18,642 4,033	145 2,364 376 626 2,212 5,502 2,258 4,127 769 1,232

Continued on next page.

Table 133.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1979 --- Con.

Subject	Oahu	City of	Rest of
	total	Honolulu <u>1</u> /	Oahu
DWELLING UNITS BY TYPE			
All dwelling units	234,722	138,256	96,466
Single family and duplex Low density multi-family High density multi-family	125,367	54,557	70,810
	9,832	1,007	8,825
	99,523	82,692	16,831

 $[\]underline{1}/$ As defined for statistical purposes. The entire island of Oahu is a single municipality.

Source: City and County of Honolulu, Department of General Planning, records.

Table 134.-- RESIDENTIAL LOTS APPROVED BY THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS: 1979 AND 1980

District	1979	1980
Oahu total	2,005	1,792
Honolulu	530 356 336 137 26 38 582	686 190 68 73 37 36 702

Source: City and County of Honolulu Department of General Planning, records.

^{2/} For definitions, see City and County of Honolulu, Department of General Planning, Planning Data for Oahu: 1975 Land Use Data by Small Area (May 1978).

Table 135.-- LAND PARCELS, BY COUNTIES: 1971 TO 1981
[As of July 1, 1971-1976 and January 1, 1977-1981.]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1971	270,336	128,153	24,557	106,037	11,589
	280,540	134,880	25,472	108,314	11,874
	290,512	141,651	26,633	109,809	12,419
	302,987	149,521	28,474	111,463	13,529
	316,240	158,069	31,137	112,283	14,751
	329,695	167,044	34,148	113,406	15,097
	335,411	170,554	34,869	114,618	15,370
	342,284	174,125	36,283	115,832	16,044
	352,430	177,818	38,336	119,049	17,227
	366,375	186,555	39,375	121,688	18,757
	370,367	192,755	41,601	115,958	20,053

^{1/} Figures for Hawaii County for 1979 and 1980 may not be comparable to those for 1971-1978 and 1981, because of the possibility of double-counting for parcels with multi-pitt codes.

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 136.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: JULY 25, 1980
[Based on land use classifications used for real property assessment purposes.]

Land use class <u>l</u> /	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses <u>2</u> /	4,049,952	371,150	750,268	2,526,909	401,625
Residential	87,062 7,659 6,197 16,161 1,939,803 1,961,027 32,046	63,890 2,618 2,706 8,027 136,111 147,158 10,640	6,873 2,131 612 1,539 405,807 328,498 4,809	11,793 2,045 1,129 6,010 1,199,936 1,293,278 12,719	4,506 865 1,750 585 197,949 192,093 3,878

^{1/ &}quot;Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation in Sec. 246-10, Hawaii Revised Statutes (1976 Replacement).

Source: Hawaii State Department of Taxation, Systems and Procedures Office, records.

^{2/} Excludes public streets and highways and other areas not in parcels of record, and thus differs somewhat from the official figures based on measurements of the Geography Division of the U.S. Bureau of Census. The Bureau's data for total area (including inland water) are: State, 4,128,256 acres; Honolulu, 390,976; Maui, 751,616; Hawaii, 2,584,320; Kauai, 401,344.

Table 137.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1981

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate.]

	Classification by State Land Use Commission $\underline{2}/$						
Year and month	Total area <u>l</u> /	Urban	Conservation	Agricultural	Rural		
1964: August 1969: August 1974: March 1975: February 1977: January 1978: January 1979: January 1980: January 1981: January	4,111,500.0 4,111,500.0 4,111,500.0 4,111,500.0 4,111,500.0 4,111,500.0 4,111,500.0 4,111,500.0 4,111,500.0	117,800.0 140,163.3 147,472.0 148,921.4 149,262.9 151,012.5 151,929.6 152,199.2 154,318.8	1,862,600.0 2,009,086.7 1,986,428.9 1,976,995.7 1,976,995.7 1,976,105.9 1,975,865.1 1,975,836.4	2,124,400.0 1,955,875.0 1,968,727.2 1,976,695.4 1,976,327.2 1,974,339.5 1,974,229.8 1,974,195.5 1,972,103.5	6,700.0 6,375.0 8,871.9 8,887.5 8,914.2 9,216.7 9,234.7 9,240.3 9,241.3		

Footnotes and source follow next table.

Table 138.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: JANUARY 1981

[See headnote of preceding table.]

	Classification by State Land Use Commission 2/							
Island	Total area <u>l</u> /	Urban	Conservation	Agricultural	Rural			
State total	4,111,500.0	154,318.8	1,975,836.4	1,972,103.5	9,241.3			
Hawaii Maui Kahoolawe Lanai Molokai Oahu Kauai Niihau Kaula and Lehua Other islands 3/	2,573,400.0 465,800.0 28,800.0 90,500.0 165,800.0 385,300.0 353,900.0 45,700.0 400.0 1,900.0	35,388.2 15,630.4 - 2,338.5 3,293.1 86,851.0 10,817.6	1,309,461.8 193,678.7 28,800.0 38,202.5 49,767.7 154,893.9 198,731.8 - 400.0 1,900.0	1,227,938.0 252,710.9 - 47,239.0 111,843.2 143,555.1 143,117.3 45,700.0	612.0 3,780.0 - 2,720.0 896.0 - 1,233.3			

^{1/} These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5.

^{2/} For definitions, see Hawaii Revised Statutes, 1976 Replacement, Section 205-2.

^{3/} The Northwestern Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 17, 1981.

Table 139.-- LAND OWNERSHIP, BY ISLANDS: 1968-1978

[In acres. Includes area in public thoroughfares on Hawaii but excludes it for other islands.]

	Commen	A11	Land own	ed by gover	nment <u>2</u> /	Privately
Island	Survey date	land $\underline{1}/$	Federal	State	Counties	owned land <u>3</u> /
State total Percent	•••	4,045,511 100.0	296,803 7.3	1,394,552 34.5	13,335	2,340,821 57.9
Hawaii Maui Kahoolawe Lanai Molokai Oahu Kauai Niihau Other islands 4/	1971 1972 1972 1972 1972 1978 1972 1972 1968	2,516,979 461,402 28,832 89,071 168,257 373,216 357,977 47,217 2,560	200,995 12,275 28,819 8 1,839 50,634 1,977 256	985,269 155,284 13 169 39,652 62,073 149,276 256 2,560	839 365 - 2 2 11,008 1,119 -	1,329,876 293,478 - 88,892 126,764 249,501 205,605 46,705

^{1/} Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

^{2/} State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel, and no firm statement is possible.

 $[\]underline{3}/$ For data on the leasehold status of privately owned land, see the two following tables.

^{4/} Lehua, Kaula, and the Northwestern Hawaiian Islands other than Midway. Source follows next table.

Table 140.-- PRIVATELY OWNED LAND, LEASED AND UNLEASED, BY ISLANDS: 1968-1978

[In acres.]

Island	Survey date	All private land	Not leased	Leased <u>1</u> /
State total	• • •	2,340,821	1,872,207	468,614
Hawaii Maui Kahoolawe Lanai Molokai Oahu Kauai Niihau Other islands 2/	1971 1972 1972 1972 1972 1978 1972 1972 1968	1,329,876 293,478 - 88,892 126,764 249,501 205,605 46,705	1,026,003 255,272 - 88,882 104,089 165,727 185,529 46,705	303,873 38,206 - 10 22,674 83,774 20,076

¹/ To either governmental or private lessees. For Oahu data by type of lessee, see the following table.

Source: Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, Land Inventory Report; 1972 for Hawaii County (1974, p. 19), Maui County (1974, pp. 25-26), and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, Report to the Governor 1973-1974, p. 54 (for Lehua, Kaula, and the N.W.H.I.); Honolulu Department of General Planning records.

²/ Lehua, Kaula, and the Northwestern Hawaiian Islands (except Midway).

Table 141.-- LAND OWNERSHIP AND CONTROL, FOR OAHU: 1978

	Owner					
Lessee	All owners	Federal	State	City and County	Private	
Total land	373,216	50,634	62,074	11,007	249,501	
None	272,532 2,816 193 1,187 96,488	45,990 - 33 25 4,586	50,045 2,706 - 1,148 8,175	10,770 - 157 - 80	165,727 110 3 14 83,647	

Source: City and County of Honolulu, Department of General Planning, records.

Table 142.-- ACRES OWNED IN FEE BY SELECTED MAJOR LANDOWNERS: 1964, 1979 AND 1980

[Many of these figures are not exact accountings of acres owned but are the landowners' best estimates.]

Landowner	1964	1979	1980
Bernice P. Bishop Estate	369,700	341,749	341,764
	185,610	120,000	120,000
	154,759	1/150,370	150,370
	145,147	98,520	98,491
	143,842	122,969	122,955
	122,788	95,400	94,100

 $[\]underline{1}/$ As of March 1980, but figure does not differ significantly from the 1979 $\overline{\text{figure}}$.

Source: State Legislative Reference Bureau, <u>Public Land Policy in Hawaii: Major Landowners</u>, Report No. 3 (1967), p. 17; data for 1979 and 1980 supplied by landowners listed.

Table 143.-- REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1969 TO 1979

Subject	June 30, 1969	Sept. 30, 1977	Sept. 30, 1978 <u>1</u> /	Sept. 30, 1979 <u>2</u> /	
OWNED					
Number of installations Land area, total (acres) Urban Rural Number of buildings Cost, total (\$1,000) 3/ Land Buildings Structures and facilities Predominant usage (acres): Agriculture and grazing Forest and wildlife 2/ Parks and historic sites Power development and distribution Reclamation and irrigation Office building locations Military, excluding airfields 4/ Airfields Harbor and port facilities Flood control and navigation Vacant Institutional Housing	152 397,011.8 55,236.8 341,775.0 11,424 1,069,833 26,592 529,721 513,520 - 1,767.4 218,318.0 - 19.7 175,207.7 35.1 625.7 13.1 1.5 81.4 34.0	271 407,904.3 54,810.1 353,094.2 14,512 1,438,050 52,152 772,361 613,537 - 3,106.4 228,898.9 - 52.3 {163,835.7 3,738.0 156.6 1,480.8 1.5 359.5 84.5 529.8	284 402,938.6 (NA) (NA) 14,610 1,448,743 52,150 786,375 610,218 - 3,108.6 228,898.9 - 50.5 163,439.8 3,738.0 23.6 1,480.8 1.5 359.5 85.1	295 660,620.1 55,696.9 604,923.2 14,481 1,474,050 62,462 789,851 621,737 - 255,620.2 228,904.1 - 54.6 169,258.8 3,745.0 23.6 1,480.8 1.5 359.5 84.2	
Storage	34.0 48.6 5.2 854.4	529.8 5,179.7 6.2 474.4	139.2 1,132.5 6.2 474.4	139.2 203.0 6.2 739.4	
LEASED	·	·			
Number of leases	237 29,596.0 36.1 29,559.9 155 450,025	226 47,262.0 147.0 47,115.0 157 352,876 1,346	229 48,542.9 147.2 48,395.7 153 307,246 1,414	(NA) (NA) (NA) (NA) (NA) (NA) (NA)	

Footnotes and source on next page.

Table 143.-- REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1969 TO 1979 -- Con.

NA Not available.

- 1/ Corrected from published data, which overstated Navy acreage and the State total by 195,359.7 acres.
- 2/ Data for 1979 are not comparable to figures for earlier years. According to a letter from the General Services Administration, "this increase of nearly 258,000 acres is almost entirely due to a correction of acreage holdings submitted by the U.S Fish and Wildlife Service. That office revised a Hawaiian Islands National Wildlife Refuge holding from 1,906.5 acres to 254,418.1 acres to include the lagoon water acreage of the circular reefs and shoals."
- 3/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.
- 4/ Figure for 1969 refers to all Department of Defense land used for military functions.

Source: General Services Administration, Summary Report of Real Property
Owned by the United States Throughout the World (annual) and Summary Report of Real
Property Leased to the United States Throughout the World (annual). The 1978
corrections were telephoned to DPED on February 26, 1980.

Table 144.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1980

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department.]

	Acreage		Lessees		Applicant list	
Island	Total	In home- stead use	Total awards	Resi- dential only	Total	Resi- den- tial
State total	191,727	29,030	3,004	2,591	6,928	6,098
Hawaii	111,584 29,068 27,723 5,083 18,269	21,036 17 6,743 645 589	701 89 378 1,646 190	554 89 117 1,644 187	1,600 477 370 4,013 468	1,040 443 253 4,005 357

Source: Annual Report, Department of Hawaiian Home Lands, 1979-80, pp. 7, 8, and 12.