

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the Postal Service and of various communications media: telephone, telegraph, radio, television, newspapers and periodicals, and books. Sections 12 and 15 contain employment and payrolls data for communications establishments.

Hawaii is served by all major communications media. In 1986 it had 143 post offices and stations handling 360 million pieces of mail and accounting for postal receipts in excess of \$102 million. There were 479,000 telephone access lines in service, 343,000 telephone homes, about 2.2 billion local calls originated, 12 million completed interisland calls (in 1981), and 32 million incoming and outgoing transpacific calls (in 1980). Telegraph messages to and from Hawaii in 1984 totaled 112,000. The 46 commercial, public and educational radio stations in the Islands in 1986 included 26 on the regular broadcast band and 20 FM stations. The State also had 15 television stations (13 commercial and 2 public), including satellites but excluding translators. Nine cable TV companies served 220,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in February 1986 numbered 194,000 households. Island publishers printed nine daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 188,000 in 1985-1986.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, the CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other states and for the nation as a whole are carried in Statistical Abstract of the United States: 1986, Section 19.

Table 446.-- POSTAL SERVICE: 1970 TO 1986

[For fiscal years ended June 30 through 1976 and
September 30 thereafter]

Fiscal year	Number, end of fiscal year <u>1/</u>		Gross postal receipts (\$1,000)	Pieces of mail <u>2/</u> (millions)
	Post offices	Stations		
1970	80	...	20,840	187
1971	80	...	21,976	201
1972	78	...	23,434	215
1973	77	...	27,100	226
1974	76	...	29,663	233
1975	76	...	33,549	238
1976	76	...	37,433	242
1977	76	...	43,790	249
1978	76	...	49,198	267
1979	76	...	55,267	276
1980	76	...	58,413	298
1981	76	...	67,055	293
1982	76	...	77,424	290
1983	76	<u>3/</u> 50	80,943	305
1984	76	<u>4/</u> 54	84,733	317
1985	76	64	94,975	339
1986	76	67	102,440	360

1/ Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices and both classified and contract stations (classified stations are those staffed by career postal employees; contract stations, those operated under a contractual agreement between the Postal Service and an individual contractor). Station counts not available before 1983.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

3/ April 15.

4/ June 30.

Source: U.S. Postal Service, Honolulu Field Division, records.

Table 447.-- STATISTICAL SUMMARY FOR SPECIFIED ZIP CODE AREAS:
1980 AND 1986

[All addresses in the United States are identified geographically, for postal purposes, according to ZIP Code areas. This table presents data for representative areas. Comparable statistics for other ZIP Code areas in Hawaii, and a map of ZIP Code areas on Oahu, appear in the report cited in the source reference]

Subject	State total	Specified Zip Code areas			
		Downtown Honolulu 96813	Waikiki 96815	Kailua 96734	Hilo 96720
1986:					
Residences	298,122	7,115	22,445	15,898	12,216
P.O. boxes ^{1/}	74,657	543	-	1,558	846
Businesses	25,370	3,956	1,922	864	1,634
1980:					
Population	964,691	17,612	31,123	47,705	38,537
Households	294,934	6,941	15,516	13,992	12,226
Median age (years)	28.4	33.2	39.6	27.7	29.0
Race: Percent Japanese	24.9	30.9	24.9	13.5	37.1
Persons per household	3.15	2.51	2.06	3.39	3.07
Percent foreign born	14.2	15.3	19.9	6.1	7.4
Percent different house in 1975	50.7	49.8	57.9	51.0	48.0
Persons 25 years and over:					
Percent high school graduates	73.8	70.9	79.2	84.2	71.3
Civilian labor force: Percent unemployed	4.7	4.6	4.7	4.4	6.4
Median household income (dollars)	20,473	17,630	16,292	25,825	18,050
Housing units:					
Number	334,235	7,317	24,556	14,456	12,807
Percent in 1-unit structures	51.7	32.7	9.0	74.7	75.2
Percent vacant	11.4	5.2	36.7	3.5	4.9
Renter occupied units:					
Percent of occupied units	48.3	60.0	64.7	37.3	40.1
Median rent (dollars)	271	297	339	366	261

^{1/} Excludes 18,903 Post Office boxes in ZIP codes unassigned in the 1980 Census.

Source: Hawaii State Census Statistical Areas Committee, *Characteristics of ZIP Code Areas, 1980* (Report CTC-62, May 28, 1985); U.S. Postal Service, *Carrier Route Information System Regional tape* (February 1986), special tabulation by DPED.

Table 448.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:
SEPTEMBER 30, 1986

Island	Total	Post offices <u>1/</u>			Stations	
		1st class	2nd class	3rd class	Classi- fied <u>2/</u>	Con- tract <u>3/</u>
State total ..	143	33	27	16	29	38
Hawaii	35	9	11	8	2	5
Maui	18	7	3	-	2	6
Lanai	1	-	1	-	-	-
Molokai	5	1	-	4	-	-
Oahu	64	12	4	1	24	23
Kauai	20	4	8	3	1	4
Niihau	-	-	-	-	-	-

1/ There are no fourth-class post offices in the State.

2/ Staffed by career postal employees.

3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu Field Division, data supplied October 22, 1986.

Table 449.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1985

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	All access lines	By island		By type		
		Oahu	Other islands	Residence	Business	Other types
1981	431,893	324,968	106,925	314,355	95,000	22,538
1982	445,452	334,150	111,302	323,588	98,691	23,173
1983	458,339	342,094	116,245	332,051	102,923	23,365
1984	472,229	348,936	123,293	339,296	107,830	25,103
1985	479,253	352,674	126,579	342,711	111,792	25,165

Source: Hawaiian Telephone Company, data provided March 24, 1986.

Table 450.-- TELEPHONES IN SERVICE AND RESIDENCE AND BUSINESS
MAIN STATIONS: 1975 TO 1981

[As of December 31. Data limited to the Hawaiian Telephone Company. Because of deregulation of the telephone industry, the series reported in this table after 1981 no longer included all or almost all of the telephones in Hawaii, and moreover became subject to disclosure rules that precluded their publication for subsequent years]

Year	Telephones in service			Residence main stations	Business main stations
	State total	Oahu	Other islands		
1975	567,685	460,602	107,083	250,319	64,522
1976	596,952	480,937	116,015	262,982	66,357
1977	627,848	501,914	125,934	273,860	67,869
1978	659,141	523,472	135,669	285,948	71,892
1979	684,812	539,582	145,230	296,433	76,533
1980	712,095	555,790	156,305	303,928	79,565
1981	728,352	563,630	164,722	311,430	81,499

Source: Hawaiian Telephone Company, records, for 1975 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 451.-- TELEPHONE CALLS: 1975 TO 1985

[In thousands]

Year	Local <u>1/</u>		Interisland <u>2/</u>		Transpacific (paid) <u>2/</u>	
	Originating	Completed	Paid <u>3/</u>	Completed	Outgoing	Incoming and outgoing <u>4/</u>
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,076
1980	1,957,427	1,468,070	10,652	11,239	17,199	31,609
1981	1,857,938	1,393,454	11,316	11,993	(NA)	(NA)
1982	1,892,430	1,419,322	(NA)	(NA)	(NA)	(NA)
1983	1,928,486	1,446,365	(NA)	(NA)	(NA)	(NA)
1984 <u>5/</u> .	2,050,778	1,538,084	(NA)	(NA)	(NA)	(NA)
1985	2,225,943	1,669,457	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The number of local calls is affected as central offices are being converted to Electronic Common Control (ECC). ECC records call attempts after the first digit is dialed. Non-ECC offices record the call attempts when the handset is lifted. Also significant in 1981 were an estimated 17 million fewer calls due to the implementation of Directory Assistance Charging. Because of these fundamental changes in data collection, more recent figures are not comparable to earlier years.

2/ As a result of deregulation of the telephone industry, these series became subject to disclosure rules after 1980 or 1981, and regular publication of annual data was discontinued.

3/ Excludes uncollectables.

4/ Includes calls paid in Hawaii and elsewhere.

5/ Revised from Data Book 1985, table 430.

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 452.-- TELEPHONE SERVICE, BY ISLANDS: 1981

[As a result of deregulation of the telephone industry, the series shown in this table became subject to disclosure rules after 1981, and regular publication of annual data was discontinued]

Island	Tele- phones in service, Dec. 31	Main stations, Dec. 31		Inter- island calls <u>1/</u>
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Oahu	563,630	241,261	62,304	5,539,848
DATS <u>2/</u>	27,676	-	12,497	...
Other Oahu	535,954	241,261	49,807	...
Other islands	164,722	70,169	19,195	6,452,995
Hawaii	70,183	30,735	8,440	2,698,799
Mau i	58,875	24,225	6,524	2,384,111
Lanai	916	646	103	...
Molokai	3,652	1,759	440	...
Kauai	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Defense Administrative Telephone System.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 453.-- TELEGRAPH MESSAGES: 1974 TO 1984

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1974 ..	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975 ..	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976 ..	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977 ..	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978 ..	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979 ..	262,888	134,265	50,522	83,743	128,623	65,598	63,025
1980 ..	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981 ..	196,350	106,248	34,432	71,816	90,102	37,924	52,178
1982 ..	168,501	88,325	27,951	60,374	80,176	31,227	48,949
1983 ..	145,990	71,428	21,739	49,689	74,562	21,777	52,785
1984 ..	112,440	47,765	15,061	32,704	64,675	16,024	48,651

Source: Federal Communications Commission, Common Carrier Bureau, data provided February 10, 1986.

Table 454.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1984 AND 1985

County	Number of companies Dec. 31 ^{1/}		Subscribers, Dec. 31		Gross revenue ^{2/} (\$1,000)	
	1984	1985	1984	1985	1984	1985
State total	9	9	210,527	220,443	24,919	33,020
Hawaii	3	3	17,701	18,433	2,450	4,182
Maui	2	2	18,180	20,013	2,218	2,226
Honolulu	3	3	167,216	173,129	18,658	24,706
Kauai	2	2	7,430	8,868	1,594	1,906

^{1/} State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.

^{2/} Basic service only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 455.-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION,
1926 TO 1986, AND BY COUNTIES, 1986

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV <u>1/</u>	AM	FM	TV <u>1/</u>
1926: Jan. 1	1	-	-	-	-	-
1941: Jan. 1	4	-	-	-	-	-
1956: Jan. 1	13	1	6	-	2	-
1971: Jan. 1	25	4	10	-	1	2
1986: June 30	26	18	13	-	2	2
COUNTIES: 1986						
Hawaii	4	4	4	-	-	-
Maui	3	6	3	-	-	1
Honolulu <u>2/</u>	17	7	6	-	2	1
Kauai	2	1	-	-	-	-

1/ Includes satellites but excludes translators and cable television.

2/ Includes one commercial AM station with studio on Oahu but transmitter on Molokai.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 482; Federal Communications Commission, Field Operations Bureau, Honolulu, July 24, 1986.

Table 456.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA: 1985 AND 1986

Subject	January 1985			January 1986		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	334,700	258,700	76,000	336,000	258,700	77,300
With television .	323,720	251,920	71,800	324,820	251,070	73,750
Percent	96.7	97.4	94.5	96.7	97.1	95.4

Source: Nielsen Station Index, Honolulu, Hawaii, February 1985 and February 1986.

Table 457.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY:
1980 TO 1986

[In thousands. Mean number of viewers, Sunday through Saturday.
For 1974-1979, see Data Book 1985, table 436]

Year and month	Sign-on to sign-off 7 A.M. to 1 A.M.		Prime time 6:30 P.M. to 10 P.M.	
	Households <u>1/</u>	Persons <u>2/</u>	Households <u>1/</u>	Persons <u>2/</u>
1980: Feb.	78	105	169	258
May	74	101	156	240
Nov.	73	128	150	300
1981: Feb.	75	134	158	319
May	79	137	164	320
Nov.	85	146	165	327
1982: Feb.	81	139	166	327
May	75	129	148	293
Nov.	84	142	174	335
1983: Feb.	86	147	182	357
May	85	142	174	330
Nov.	88	147	176	334
1984: Feb.	86	149	182	354
May	82	139	163	317
Nov.	93	158	188	357
1985: Feb.	90	150	187	360
May	87	143	175	332
Nov.	92	156	190	361
1986: Feb.	91	158	194	377
May	88	144	179	331

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

Source: Nielsen Station Index, Honolulu, Hawaii, issued three times annually.

Table 458.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE
NEWSPAPERS: 1982-83 TO 1985-86

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the Hawaii Hochi, Japanese and English; The Korean Times and Han Kook Ilbo, Korean; and United Chinese Press, Chinese]

Newspaper	1982-83	1983-84	1984-85	1985-86
Daily:				
Honolulu Advertiser <u>1/</u>	84,882	85,593	86,998	84,782
Honolulu Star-Bulletin <u>2/</u>	112,912	111,825	110,045	102,734
Hawaii Tribune-Herald (Hilo) <u>3/</u>	19,103	19,438	19,868	19,946
West Hawaii Today (Kailua-Kona) <u>4/</u> ..	6,599	6,762	7,138	7,680
Maui News (Wailuku) <u>3/</u>	14,323	15,468	15,983	15,506
Garden Island (Lihue) <u>5/</u>	9,363	9,649	9,550	9,479
Sunday morning:				
Sunday Star-Bulletin and Advertiser .	197,142	197,793	198,184	195,344
Hawaii Tribune-Herald (Hilo)	21,094	21,892	22,605	22,663
West Hawaii Today (Kailua-Kona) <u>6/</u> ..	...	...	6,626	7,431
Maui News (Wailuku) <u>7/</u> .....	...	...	14,668	14,684
Garden Island (Lihue) <u>8/</u> .....	...	...	8,900	8,884

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Afternoons, Monday through Friday.

4/ Mornings, Monday through Friday.

5/ Afternoons, 4 times weekly (Monday, Tuesday, Wednesday, and Friday).

6/ Beginning April 29, 1984.

7/ Beginning September 1984.

8/ Beginning July 1, 1984.

Source: Audit Bureau of Circulations data provided to DPED by newspaper publishers.

Table 459.-- PERIODICALS PUBLISHED IN HAWAII: 1985

Frequency	Newspapers		Magazines and other periodicals <u>1/</u>
	English	Foreign language	
Daily, 5 to 7 times weekly ...	6	3	-
2 to 4 times weekly	-	-	1
Weekly	9	1	15
Semi-monthly or biweekly	3	3	18
Monthly	2	-	53
1 to 10 times annually	-	-	40

1/ Includes regularly published magazines, company and in-house publications, labor publications, educational publications, military and federal publications, and special interest publications. Does not include publications that are updated as required, or other irregular publications. Not comparable to previous years' data.

Source: Aloha United Way, Hawaii Media Guide, April 1985.

Table 460.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1984 TO 1986

Year	Published titles <u>1/</u>		New books and journals published <u>2/</u>		Volumes sold <u>2/</u>	Sales revenues <u>2/</u> (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1984	716	552	38	9	233,859	1,634,180
1985	745	580	29	10	235,853	1,864,607
1986	783	610	38	8	270,676	2,083,167

1/ As of June 30.

2/ Year ended June 30.

Source: The University of Hawaii Press, Annual Report (annual) and records.

Table 461.-- COMMUNICATION AND COMMUNICATION-RELATED ESTABLISHMENTS:
1984

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
271	Newspapers	24	482	Telegraph communic. ...	3
272	Periodicals	15	483	Radio, TV broadcast. ..	38
273	Books	11	489	Commun. services, n.e.c	26
274	Miscell. publishing ...	8	731	Advertising	51
481	Telephone communic. ...	18	7311	Advertising agencies	42

Source: U.S. Bureau of the Census, County Business Patterns 1984, Hawaii, CBP-84-13 (July 1986), pp. 4-9.

Table 462.-- ADVERTISING AGENCIES (SIC 7311), FOR OAHU: 1982

[Includes only establishments with payroll]

Subject	Amount	Subject	Amount (\$1,000)
Establishments	43	Gross sales of (billings for) advertising media	65,624
Receipts (\$1,000)	18,923	Gross billings for advertising materials and other outside production services	21,016
Commission on media sales ..	10,633		
Service fees	3,373		
Other sources	4,917		

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), table 6.

Table 463.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR
HONOLULU: 1976 TO 1986

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price 1/	
	Letters		Postal and post cards	Daily	Sunday
	First ounce	Each added ounce			
1976	13	11	9	20	50
1977	13	11	9	20	50
1978	15	13	10	20	50
1979	15	13	10	25	60
1980	15	13	10	25	60
1981	18	17	12	25	75
1982	20	17	13	25	100
1983	20	17	13	25	100
1984	20	17	13	25	100
1985	22	17	14	35	100
1986	22	17	14	35	100

1/ Street sales, for the Honolulu Advertiser,
Honolulu Star-Bulletin, and Sunday Star-Bulletin and
Advertiser.

Source: Postal rates from Statistical Abstract of
the United States: 1986, p. 544, as updated.
Newspaper rates from nameplates.

Table 464.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1976 TO 1986

[In dollars. As of July 1. Including state and federal excise tax where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line <u>3/</u>
		Direct dialing <u>1/</u>	Through operator <u>2/</u>	Direct dialing <u>1/</u>	Through operator <u>2/</u>	
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63
1982 ..	0.15	1.05	1.87	1.74	2.63	11.51
1983 ..	0.15	1.07	1.91	1.77	3.37	11.31
1984 ..	0.15	1.07	1.91	1.66	3.25	11.74
1985 ..	0.15	1.14	2.06	1.54	3.13	12.77
1986 <u>4/</u>	0.25	1.45	2.06	1.32	2.91	14.10

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ Telephone rental included through February 5, 1983, and excluded thereafter. In 1986, the monthly rental charge for a standard dial desk-top telephone was \$1.92, and the federal subscriber line charge was \$2.00.

4/ AT&T Communications, Inc., rates quoted for Honolulu to California calls.

Source: Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.