COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the various communications media: postal service, 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 1984 it had 130 post offices and stations handling 317 million pieces of mail and accounting for postal receipts in excess of \$84 million. There were 472,000 telephone access lines in service, 339,000 telephone homes, about 2.1 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 1983 totaled 146,000. The 45 commercial, public and educational radio stations in the Islands in 1985 included 26 on the regular broadcast band and 19 FM stations. The State also had 15 television stations (13 commercial and 2 public), including satellites but excluding translators. Ten cable TV companies served 211,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in February 1985 numbered 187,000 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 197,000 in 1984-1985.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Division of Consumer Advocacy and CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and <u>Hawaii</u> <u>Media Guide</u>. Earlier figures appear in <u>Historical Statistics of Hawaii</u>, Section 18. Data on communications for other States and for the nation as a whole are carried in <u>Statistical Abstract of the United States</u>: 1985, Section 19.

Table 423.-- POSTAL SERVICE: 1970 TO 1985

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

	Number, e fiscal ye		Gross postal receipts	Pieces of mail 2/	
Fiscal year	Post offices Stations		(\$1,000)	(millions)	
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1983 1984	80 80 78 77 76 76 76 76 76 76 76 76 76 76 76 76	$ \begin{array}{c}\\\\\\\\\\\\\\\\\\$	20,840 21,976 23,434 27,100 29,663 33,549 37,433 43,790 49,198 55,267 58,413 67,055 77,424 80,943 84,733 94,975	187 201 215 226 233 238 242 249 267 276 298 293 290 305 317 339	

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. As of September 30, 1985, Hawaii had 32 1st class offices, 28 2nd class offices, 16 3rd class offices, no 4th class offices, 29 classified stations, and 35 contract stations.

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

<u>3/ April 15.</u>

 $\overline{4}$ / June 30.

Source: U.S. Postal Service, Pacific District, Honolulu, records.

		Post offices <u>l</u> /			Stations	
Island	Total	lst class	2nd class	3rd class	Classi- fied <u>2</u> /	Con- tract <u>3</u> /
State total	137	27	30	19	29	32
Hawaii Maui Lanai Molokai Oahu Kauai Niihau	35 17 1 5 59 20 -	7 6 - 11 3 -	11 4 1 5 8 -	10 - 4 1 4 -	2 - - 24 1 -	5 5 - 18 4 -

Table 424.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: JUNE 30, 1985

1/ There are no fourth-class post offices in the State. $\overline{2}$ / Staffed by career postal employees. $\overline{3}$ / Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu, Address Information Systems, data supplied July 2, 1985.

Table 425.-- U.S. POSTAL SERVICE EMPLOYMENT, BY SEX: 1970 AND 1980

Year	Both sexes	Male	Female	
1970	2,073	1,662	411	
1980	2,220	1,749	471	

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), p. 321.

Table 426.-- STATISTICAL SUMMARY FOR SPECIFIED ZIP CODE AREAS: 1980 AND 1985

[All addresses in the United States are identified geographically, for postal purposes, according to ZIP Code areas. This table presents data for representive 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]

		Speci	fied Zip	Code are	as
Subject	State total	Downtown Honolulu 96813	Waikiki 96815	Kailua 96734	Hilo 96720
1985: Residences P.O. boxes <u>1</u> / Businesses	291,766 73,820 25,243	7,115 543 3,956	20,824 1,707	14,204 1,558 694	12,718 846 1,606
1980: Population Households Median age (years) Race: Percent Japanese Persons per household Percent foreign born Percent different house in 1975 Persons 25 years and over: Percent high school graduates	964,691 294,934 28.4 24.9 3.15 14.2 50.7 73.8	17,612 6,941 33.2 30.9 2.51 15.3 49.8 70.9	31,123 15,516 39.6 24.9 2.06 19.9 57.9 79.2	47,705 13,992 27.7 13.5 3.39 6.1 51.0 84.2	7.4
Civilian labor force: Percent unemployed Median household income	4.7	4.6	4.7	4.4	6.4
<pre>(dollars) Housing units: Number Percent in 1-unit structures . Percent vacant</pre>	20,473 334,235 51.7 11.4	17,630 7,317 32.7 5.2	16,292 24,556 9.0 36.7	25,825 14,456 74.7 3.5	18,050 12,807 75.2 4.9
Renter occupied units: Percent of occupied units Median rent (dollars)	48.3 271	60.0 297	64.7 339	37.3 366	40.1 261

1/ Excludes 16,245 Post Office boxes in ZIP codes unassigned in the 1980 Census.

Source: Hawaii State Census Statistical Areas Committee, <u>Characteristics</u> of ZIP Code Areas, 1980 (Report CTC-62, May 28, 1985).

		From H	awaii to Ma	inland	From Mainland to Hawaii			
Year	Total messages	Total from Hawaii	Origi- nated in Hawaii	Origi- nated elsewhere	Total to Hawaii	Origi- nated on Mainland	Origi- nated elsewhere	
1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983	385,823 382,281 346,851 307,036 277,748 271,747 262,888 222,410 196,350 168,501 145,990	187,130 185,204 166,700 156,235 142,903 137,687 134,265 120,785 106,248 88,325 71,428	116,850 100,321 81,986 70,692 61,512 54,505 50,522 43,543 34,432 27,951 21,739	70,280 84,883 84,714 85,543 81,391 83,182 83,743 77,242 71,816 60,374 49,689	198,693 197,077 180,151 150,801 134,845 134,060 128,623 101,625 90,102 80,176 74,562	136,747 125,319 110,390 80,638 70,826 69,055 65,598 46,564 37,924 31,227 21,777	61,946 71,758 69,761 70,163 64,019 65,005 63,025 55,061 52,178 48,949 52,785	

Table 427.-- TELEGRAPH MESSAGES: 1973 TO 1983

Source: Federal Communications Commission, Common Carrier Bureau, data provided February 12, 1985.

Table 428.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1984

[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]

	٨٦٦	By is	By island By		3y type	······
Year	All access lines	Oahu	Other islands	Residence	Business	Other types
1981 1982 1983 1984	431,893 445,452 458,339 472,229	324,968 334,150 342,094 348,936	106,925 111,302 116,245 123,293	314,355 323,588 332,051 339,296	95,000 98,691 102,923 107,830	22,538 23,173 23,365 25,103

Source: Hawaiian Telephone Company, data provided February 27, 1985.

Table 429.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1971 TO 1981

[As of December 3]. 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]

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	Telep	hones in se	ervice	Residence
Year	State total			main stations
1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	445,995 498,593 523,699 544,718 567,685 596,952 627,848 659,141 684,812 712,095 728,352	365,733 412,443 430,612 444,359 460,602 480,937 501,914 523,472 539,582 555,790 563,630	80,262 86,150 93,087 100,359 107,083 116,015 125,934 135,669 145,230 156,305 164,722	212,983 221,277 231,146 239,923 250,319 262,982 273,860 285,948 296,433 303,928 311,430

Source: Hawaiian Telephone Company, records, for 1971 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 430.-- TELEPHONE CALLS: 1974 TO 1984

[In thousands]

	Local <u>1</u> /		Interis	1and <u>2/</u>	Transpacific (paid) <u>2</u> /		
Year	Originating	Completed	Paid <u>3</u> /	Completed	Outgoing	Incoming and outgoing <u>4</u> /	
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984	1,438,381 1,395,876 1,517,337 1,566,869 1,719,200 1,830,954 1,957,427 1,857,938 1,892,430 1,928,486 2,050,664	949,332 918,486 1,012,064 1,052,936 1,139,829 1,186,458 1,468,070 1,393,454 1,419,322 1,446,365 1,537,998	4,494 5,156 5,851 6,838 8,087 9,635 10,652 11,316 (NA) (NA) (NA)	4,564 5,352 6,140 7,028 8,317 10,040 11,239 11,993 (NA) (NA) (NA)	4,775 5,908 7,448 9,485 12,232 15,160 17,199 (NA) (NA) (NA)	8,620 10,703 13,621 17,103 22,540 28,076 31,609 (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.

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

Table 431.-- 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]

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

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Table 432.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: 1925 TO 1985

	Comm	ercial s	tations	Non-commercial stations		
Date	AM	FM	TV <u>1</u> /	AM	FM	TV <u>1</u> /
1925: Jan. 1 1940: Jan. 1 1955: Jan. 1 1970: Jan. 1 1985: June 30	2 3 13 25 26	- 1 4 17	- 3 10 13	- - - -	- 1 1 2	- - 2 2

1/ Excluding translators and cable television. Source: Federal Communications Commission, records.

Table 433.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: JUNE 30, 1985

	Commer	Non-commercial stations				
County	AM <u>1</u> /	FM	TV <u>2</u> /	AM	FM	TV <u>2</u> /
State total	26	17	13	-	2	2
Hawaii Maui Honolulu Kauai	4 3 17 2	3 6 7 1	4 3 6 -		- 2 -	- 1 1 -

1/ Station KAIM, with studios on Oahu but transmitter on Molokai, is included with the Honolulu total.

2/ Includes satellites but excludes translators and cable television.

Source: Federal Communications Commission, Field Operations Bureau, Honolulu, July 11, 1985.

Table 434.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1983 AND 1984

	Number of companies Dec. 31 <u>1</u> /		companies Subscribers,		Gross revenue <u>2</u> / (\$1,000)	
County	1983	1984	1983	1984	1983	1984
State total	10	9	187,966	210,527	22,101	24,919
Hawaii Maui Honolulu Kauai	3 2 4 2	3 2 3 2	17,528 16,007 148,649 5,782	17,701 18,180 167,216 7,430	2,343 1,757 16,898 1,103	2,450 2,218 18,658 1,594

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 435.-- TELEVISION HOUSEHOLDS: 1973 TO 1985

	Tatal	Television households		
Date	Total households	Number	Percent	
September 1973 September 1974 September 1975 September 1976 September 1977 January 1980 January 1981 1/ January 1982 January 1983 January 1984	230,500 243,300 245,400 252,900 267,100 270,400 273,800 302,500 310,700 320,800 324,100 334,700	220,110 233,290 236,150 243,380 257,400 261,170 265,250 293,500 300,560 310,310 313,470 323,720	95.5 95.9 96.2 96.2 96.4 96.6 96.9 97.0 96.7 96.7 96.7 96.7	

1/ Reflects effect of revision incorporating 1980 Census data.

Source follows next table.

Table 436.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY: 1974 TO 1985

[In thousands.	Mean	number	of	viewers,	Sunday	through	Saturday]	
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		Sign-on to 7 A.M. to	sign-off D l A.M.	Prime 6:30 P.M. t	
Year	and month	Households <u>1</u> /	Persons <u>2</u> /	Households <u>l</u> /	Persons <u>2</u> /
1974:	May	59	106	134	279
	Nov	74	121	156	317
1975:	Feb	70	121	162	328
	May	64	110	143	294
1070	Nov	76	123	159	321
1976:	Feb	73	133	166	343
	May	69 75	117 129	149 159	290 309
1977:	Nov Feb	75	129	163	324
1977.	May	69	121	153	312
	Nov.	80	145	163	332
1978:	Feb	75	136	167	344
	May	70	127	153	301
	Nov	82	103	<u>3</u> / 171	<u>3</u> / 250
1979:	Feb	79	100	168	- 340
	May	77	96	159	313
1000	Nov. $4/$.		•••		•••
1980:	Feb	78 74	105 101	169 156	258 240
	May Nov	74 73	128	150	300
1981:	Feb	75	128	150	319
1901.	May	79	134	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
1004	Nov	88	147	176	334
1984:	Feb	86	149	182	354
	May	82	139	163 188	317 357
1985:	Nov Feb	93 90	158 150	188	357 360
1902:	гер Мау	90 87	150	187	332
	may •••••	07	143	175	552

 $\frac{1}{2}$ Average number with a TV set turned on. $\frac{2}{2}$ Average number of persons, 2 years and older, in TV households that are viewing any station. 3/ Reported only for 7:00 p.m. to 10:00 p.m. 4/ Records missing.

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

Table 437.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1981-82 TO 1984-85

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	1981-82	1982-83	1983-84	1984-85
Daily: Honolulu Advertiser <u>1</u> / Honolulu Star-Bulletin <u>2</u> / Hawaii Tribune-Herald (Hilo) <u>3</u> / West Hawaii Today (Kailua-Kona) <u>4</u> / Maui News (Wailuku) <u>5</u> / Garden Island (Lihue) <u>6</u> /	83,825 112,011 18,912 6,804 13,965 9,348	84,882 112,912 19,103 6,599 14,323 9,363	85,593 111,825 19,438 6,762 15,468 9,649	86,998 110,045 19,868 7,138 15,983 9,550
Sunday morning: Sunday Star-Bulletin and Advertiser . Hawaii Tribune-Herald (Hilo) West Hawaii Today (Kailua-Kona) <u>7</u> / Maui News (Wailuku) <u>8</u> / Garden Island (Lihue) <u>9</u> /	197,135 20,531 	197,142 21,094 	197,793 21,892 	198,184 22,605 6,626 14,668 8,900

1/ Mornings, Monday through Saturday.

 $\overline{2}$ / Afternoons, Monday through Saturday.

 $\frac{3}{4}$ Afternoons, Monday through Friday. $\frac{3}{4}$ Mornings, 3 times weekly, through February 1982, and 5 times weekly, Monday through Friday, beginning March 1, 1982.

5/ Afternoons, Monday through Friday. Figure for 1981-1982 refers to 6-month period ended March 31, 1982.

6/ Afternoons, 4 times weekly (Monday, Wednesday, Thursday, and Friday, April 1, 1981 to February 14, 1982; Monday, Tuesday, Wednesday, and Friday, beginning February 15, 1982).

7/ Beginning April 29, 1984.

8/ Beginning September 1984.

9/ Beginning July 1, 1984.

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

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

Table 438.-- PERIODICALS PUBLISHED IN HAWAII: 1985

I/ 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 439.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1982 TO 1984

[The University Press of Hawaii was renamed the University of Hawaii Press in 1982]

	Published titles <u>l</u> /		New books and journals published <u>2</u> /			Sales	
Year	Cumulative total	In print	Books	Scholarly journals	Volumes sold <u>2</u> /	revenues 2/ (dollars)	
1982 1983 1984	648 669 716	499 525 552	29 22 38	7 7 9	196,093 197,981 233,859	888,504 1,510,885 1,634,180	

1/ As of June 30.

 $\overline{2}$ / Year ended June 30.

Source: The University of Hawaii Press, information provided February 12, 1985.

Table 440.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1975 TO 1985

[In cents. As of July 1]

		ic first-c tage rates	Newspaper price <u>1</u> /		
	Letters		Postal		
Year	First ounce	Each added ounce	and post cards	Daily	Sunday
1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	10 13 15 15 15 15 18 20 20 20 20 22	10 11 13 13 13 17 17 17 17 17	8 9 10 10 10 12 13 13 13 13 14	20 20 25 25 25 25 25 25 25 35	50 50 50 60 60 75 100 100 100

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

Advertiser. Source: Postal rates from <u>Statistical Abstract of</u> the United States: 1985, p. 541, as updated. Newspaper rates from nameplates.

Table 441.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1975 TO 1985

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

	Local call,	Honolulu to Hilo		Honolulu to	Monthly charge, indiv.	
Year	pay phone	Direct dialing <u>l</u> /	Through operator <u>2</u> /	Direct dialing <u>l</u> /	Through operator <u>2</u> /	res. line <u>3</u> /
1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	0.10 0.10 0.15 0.15 0.15 0.15 0.15 0.15	0.96 0.95 0.94 0.94 0.90 1.06 1.06 1.05 1.07 1.07 1.14	0.96 0.95 0.94 0.94 0.90 1.89 1.89 1.87 1.91 1.91 2.06	2.57 2.39 1.86 1.84 1.61 1.64 1.64 1.64 1.74 1.77 1.66 1.54	3.37 3.34 2.84 2.81 2.55 2.60 2.60 2.63 3.37 3.25 3.13	10.17 10.07 9.98 11.86 11.74 11.63 11.63 11.51 11.31 11.74 12.77

 $\frac{1}{2}$ Daytime calls, first three minutes. $\frac{1}{2}$ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ Telephone rental included through February 5, 1983, and excluded thereafter. In 1985, the monthly rental charge for a standard desk-top telephone was \$1.85. On June 1, 1985, a federal subscriber line charge of \$1.00 was added to monthly service bill.

Source: Hawaiian Telephone Company, records, and American Telephone & Telegraph, records.