

1981

HEALTH
STATISTICS
ICS

HEALTH PLANNING

Authorizations for the health planning program for FY 82 are contained in the Omnibus Budget Reconciliation Act of 1981 signed by the President on August 13. The Act sets upper limits on amounts that may be appropriated. The law (P.L. 97-35) authorizes appropriations of \$102 million for health planning for 1982 (\$65 million for local agencies, \$35 million for state agencies, and \$2 million for health planning centers).

The health planning provision would:

1. Reduce minimum funding levels from \$245,000 to \$100,000 for local planning agencies.
2. Allow local agencies to accept operational funds in contributions from health insurance companies.
3. Enable a governor to eliminate any and all HSAs if assurances are given to the Department of Health and Human Services that the purposes of the program can be met without them and if the HHS Secretary approves the proposal.
4. Raise the threshold for Certificate of Need reviews to \$600,000 for capital expenditures, \$400,000 for major medical equipment, and \$250,000 for new institutional services.
5. Allow local departments with HHS approval to stop appropriateness reviews, reviews of proposed uses of Federal funds, and the collection and dissemination of charge information for the 25 most frequently used hospital services.

There is every reason to believe that funding for HSAs will cease in FY 83, and because of budget limitations it is unlikely that H&SS will be able to increase funding to local planning agencies. Local input remains important in advising the state agency, but no plans have yet been made for implementing regional planning in 1983. It would seem likely that the Legislature would be approached for supplemental funding in this area.

BLOCK GRANT INFORMATION - DEPARTMENT OF HEALTH AND SOCIAL SERVICES

The final Block Grant regulations have fallen far short of the Reagan administration's promises of flexibility on the state level, with the Budget Reconciliation Bill listing complete specifications for spending Federal funds. Although the paperwork has been streamlined, the administrative responsibility falls almost totally to the state financially. The Department of Health and Social Services has already hired a full time coordinator for the Block Grants, John Taber, who came onboard in August.

The scope of the Block Grants has diminished since the original plans, as many targeted programs have retained categorical funding status. Alaska has a particular problem, as many programs are funded through the state or IHS (particularly in the Preventive Health Block Grant), and the Department anticipates major budget cuts in IHS monies in 1982 which will further burden the state in financial obligations. All told, the amount of Federal money is small for all Block Grants, less than 1% of the National total. H&SS has already notified the Federal Government that they are ready to take over the administration of Block Grants, though C&RA has requested the next year to prepare for administering the Community Services Grant.

I have identified the following as important points:

1. Very little regulation will need to occur for the Block Grants since the Budget Reconciliation Bill clearly specifies how funding, reporting and auditing will be accomplished.

2. Most of the Grants require that the Legislature hold public hearings throughout the state following the end of FY 82 and the beginning of FY 83, with reports to the Secretary.

3. Five of the Block Grants specify that any native organization may request that they receive their share of the Block Grant on a yearly basis. The Native Lands Settlement Act recognized over 300 such organizations in Alaska, and although a request for an individual Grant will not exempt them from other state services and funding in that area, it will complicate planning for H&SS. It will be very important to the Department to obtain some agreement with tribal entities on this issue.

4. The Primary Care Block Grant will not go into effect until

BLOCK GRANTS/2

FY 83. There is some concern over the funding of the Anchorage Community Health Center, as it is operating on 45% carry-over funds from FY 80, which will not be counted when the Block Grant allocation for FY 83 is figured.

Please note: BIA general assistance money will cease in mid-November affecting at least 4,000 Alaska residents. This will have a definite affect in the rural economy, and there is no state program to cover this loss. There will be a meeting in Anchorage in the Native Health Building solarium concerning this and other native health issues. I am enclosing a copy of the agenda, you may find it very helpful to attend this meeting.

RESIDENT DEATHS BY ACCIDENT

Alaska 1974-1978

(Rate per 100,000)

TYPE OF ACCIDENT	1974	1975	1976	1977	1978	U.S. 1977
Other Transport	0.0*	0.0*	0.2*	0.2*	0.2*	0.4
Motor Vehicle	20.5	29.4	27.6	32.3	29.1	22.9
Water Transport--Drown	8.3	12.1	7.7	7.5	14.4	0.6
Water Transport--Other	0.6*	0.5*	1.0*	0.2*	0.5*	0.0
Aircraft	14.5	16.8	14.5	10.2	23.8	0.8
Poisoning	4.0	5.2	5.1	2.7	3.6	2.2
Falls	6.3	3.0	5.6	5.8	4.1	6.4
Fire	10.5	5.4	5.6	5.4	4.8	2.9
Exposure	1.1*	2.5	3.6	2.9	1.7	0.3
Other Environment	6.8	3.0	1.5	1.0*	2.2	0.5
Drown--Non-transport	13.7	9.1	10.6	8.8	8.2	2.8
Suffocation	2.8	2.5	1.7	0.5*	2.2	1.4
Firearms	8.3	4.0	5.8	2.4	4.1	0.9
Other Accidents	13.4	7.9	13.8	8.8	9.6	5.5
TOTAL ALL ACCIDENTS	110.8	101.3	104.3	88.8	108.3	47.7

Source: Office of Information Systems, Alaska Department of Health and Social Services, Unpublished Data.

MALE 1976-1977	Number of Deaths			Rate per 100,000 Two Year Average 1977 and 1978		FEMALE			Rate per 100,000 Two Year Average 1977 and 1978	BOTH SEXES Rate per 100,000 Two Year Average 1977 and 1978
	1976	1977	1978			Number of Deaths				
						1976	1977	1978		
Tuberculosis	3	1	0	0.2*	Tuberculosis	1	1	3	1.3*	0.6
Other Infections	8	5	27	7.1	Other Infections	9	10	16	6.9	7.0
Inflammatory Diseases of CNS	8	4	2	1.3	Inflammatory Diseases of CNS	3	3	4	1.9	1.6
Gastritis and Enteritis	0	0	0	0.0*	Gastritis and Enteritis	2	0	0	0.0*	0.0*
Influenza and Pneumonia	20	20	35	12.2	Influenza and Pneumonia	18	8	20	7.4	10.0
Other Respiratory	18	17	18	7.8	Other Respiratory	10	15	15	7.9	7.9
Maternal	-	-	-	-	Maternal	0	1	1	0.5*	0.2*
Congenital Abnormalities	19	12	10	4.9	Congenital Abnormalities	18	21	19	10.6	7.5
Diseases of Early Infancy	31	27	37	14.2	Diseases of Early Infancy	16	15	15	7.9	11.4
Ill-Defined	38	41	33	16.5	Ill-Defined	23	27	25	13.8	15.2
Heart Disease and Hypertension	212	222	210	96.0	Heart Disease and Hypertension	100	91	99	50.3	75.2
Malignant Neoplasms	133	133	159	64.9	Malignant Neoplasms	100	116	117	61.7	63.4
Diabetes	8	3	6	2.0	Diabetes	4	5	5	2.6	2.3
Vascular Lesions of the CNS	29	34	30	14.2	Vascular Lesions of CNS	37	27	36	16.7	15.3
General Arteriosclerosis	6	18	7	5.6	General Arteriosclerosis	5	9	4	3.4	4.6
Chronic Nephritis	0	0	2	0.4*	Chronic Nephritis	1	1	0	0.3*	0.4*
Cirrhosis of Liver	33	17	26	9.6	Cirrhosis of Liver	18	20	13	8.7	9.2
Other Degenerative	16	22	23	10.0	Other Degenerative	11	20	16	9.5	9.8
Accidents	336	287	357	143.2	Accidents	95	78	94	45.5	98.6
Suicide	51	73	50	27.3	Suicide	16	16	9	6.6	17.9
Homicide	43	28	42	15.6	Homicide	8	8	18	6.9	11.6
Other External Causes	13	32	22	12.0	Other External Causes	4	12	5	4.5	8.6
Alcoholism	15	21	8	6.4	Alcoholism	12	10	9	5.0	5.9
All Other Causes	38	43	22	14.5	All Other Causes	18	32	29	16.1	15.2
TOTAL	1,088	1,060	1,126	486.0	TOTAL	521	546	572	295.9	399.2

*Rate based on number less than 5.

Source: Office of Information Systems, Alaska Dept. of Health and Social Services, Alaska Vital Statistics, 1976 and 1977; and Unpublished Data, 1978. Population by sex derived by applying 1978 sex ratio to 1977 and 1978 total population.

RESIDENT DEATHS BY CAUSE BY RACE

Alaska Natives

1976-1978

	Alaska Natives				NON-NATIVES				TOTAL ALL RACES	
	Number of Deaths			Rate per 100,000 Two Year Average 1977 and 1978	Number of Deaths			Rate per 100,000 Two Year Average 1977 and 1978	Rate per 100,000 Two Year Average 1977 and 1978	
	1976	1977	1978		1976	1977	1978			
Tuberculosis	0	2	2	2.9*	Tuberculosis	2	0	1	0.1*	0.6
Other Infections	6	6	16	16.0	Other Infections	9	8	26	4.9	7.0
Inflammatory Diseases of CNS	7	5	0	3.6	Inflammatory Diseases of CNS	4	2	6	1.2	1.6
Gastritis and Enteritis	1	0	0	0.0*	Gastritis and Enteritis	1	0	0	0.0*	0.0*
Influenza and Pneumonia	26	8	25	24.1	Influenza and Pneumonia	22	20	29	7.1	10.0
Other Respiratory	9	7	10	12.4	Other Respiratory	19	25	23	7.0	7.9
Maternal	0	0	0	0.0*	Maternal	0	1	1	0.3*	0.2*
Congenital Abnormalities	9	6	4	7.3	Congenital Abnormalities	28	26	25	7.4	7.5
Diseases of Early Infancy	21	10	13	16.8	Diseases of Early Infancy	26	32	39	10.3	11.4
Ill-Defined	26	27	17	32.1	Ill-Defined	34	41	40	11.7	15.2
Heart Disease and Hypertension	69	57	65	89.0	Heart Disease and Hypertension	243	256	244	72.4	75.2
Malignant Neoplasms	55	60	54	83.2	Malignant Neoplasms	178	188	222	59.4	63.4
Diabetes	2	1	1	1.5*	Diabetes	10	7	10	2.5	2.3
Vascular Lesions of CNS	15	19	13	23.3	Vascular Lesions of CNS	51	42	53	13.8	15.3
General Arteriosclerosis	3	4	2	4.4	General Arteriosclerosis	8	23	9	4.6	4.6
Chronic Nephritis	1	0	1	0.7*	Chronic Nephritis	0	1	1	0.3*	0.4*
Cirrhosis of Liver	19	10	12	16.0	Cirrhosis of Liver	32	27	27	7.8	9.2
Other Degenerative	7	15	6	15.3	Other Degenerative	20	27	33	8.7	9.8
Accidents	131	110	122	169.2	Accidents	298	255	328	84.4	98.6
Suicide	21	25	13	27.7	Suicide	46	64	46	15.9	17.9
Homicide	20	11	25	26.3	Homicide	31	25	35	8.7	11.6
Other External Causes	9	23	7	21.9	Other External Causes	10	21	20	5.9	8.6
Alcoholism	22	17	10	19.7	Alcoholism	5	14	7	3.0	5.8
All Other Causes	14	24	19	31.4	All Other Causes	40	51	32	12.0	15.2
TOTAL	497	447	437	644.8	TOTAL	1,117	1,156	1,257	349.5	399.2

*Rate based on number less than 5.

Source: Office of Information Systems, Alaska Dept. of Health and Social Services, Alaska Vital Statistics, 1976 and 1977; and Unpublished Data, 1978.

<u>PROFESSION</u>	RATE PER 100,000 POPULATION BY YEAR								
	<u>1950</u>	<u>1965</u>	<u>1970</u>			<u>1975</u>	<u>1979</u>	<u>1981</u>	
	U.S.	U.S.	U.S.	AK.	U.S.	U.S.	AK.	AK.	
PHYSICIAN	134.0	139.9	148.7		166.7	185.1	113.0	140.0	
PHYSICIAN ASS'T								12.0	
R.N.	218.1	317.6	363.9		448.1	520.8	689.6	831.0	
L.P.N.						252.0		238.3	
PSYCHOLOGIST							5.1	15.2	
CHIROPRACTOR						10.0	8.0	11.0	
OPTOMETRIST	9.6	8.8	8.9	5.5	9.3	9.7	6.2	6.3	
DENTIST	49.8	46.5	47.1	42.0	50.3	54.0	47.3	49.1	
PHARMACIST	56.6	52.5	54.4	46.0	56.2	62.4	56.4	43.1	

All figures from DHEW Statistics except 1981 Alaska statistics which I took from the Division of Occupational Licensing (removing all non-residents from figures).

Figures seem to be based on all licensed professionals, including those residing out of state and those not in active service.

REPORTED INCIDENCE OF COMMUNICABLE DISEASE, concluded

1970-1978

(Numbers and Rates per 1,000 Population)

Estimated Reliability of Reporting	Disease	Year	Alaska		U.S.
			Number	Rate	Rate
15-20%	Encephalitis	1978	8	.02	.01
		1977	14	.03	.01
		1976	14	.03	.01
		1975	7	.02	.02
		1974	3	.01	.01
		1973	1	--	.01
		1972	3	.01	.01
		1971	3	.01	.01
		1970	0	0.00	.01
	Otitis Media	1975	N/A	N/A	
		1974	N/A	N/A	
		1973	4,010	12.14	N/A
		1972	4,963	15.30	
		1971	4,586	14.66	
1970		3,431	11.35		
40%	Gonorrhea	1978	5,392	12.95	4.68
		1977	5,406	13.15	4.67
		1976	4,716	11.41	4.70
		1975	3,916	9.68	4.73
		1974	3,261	9.29	4.32
		1973	3,024	9.15	4.05
		1972	2,284	7.04	3.72
		1971	2,744	8.77	3.28
		1970	2,755	9.11	2.99
75-85%	Syphilis	1978	63	.15	.30
		1977	114	.28	.30
		1976	101	.24	.34
		1975	64	.16	.38
		1974	122	.35	.40
		1973	29	.09	.42
		1972	26	.08	.44
		1971	42	.13	.47
		1970	29	.10	.45

Source: Section of Communicable Disease Control, Alaska Department of Health and Social Services, Communicable Disease Bulletin, Annual Reports. Center for Disease Control, U.S. DHEW, Reported Morbidity and Mortality in the U.S., MMWR Annual Summary 1978.

REPORTED INCIDENCE OF COMMUNICABLE DISEASE, continued

1970-1978

(Numbers and Rates per 1,000 Population)

Estimated Reliability of Reporting	Disease	Year	Alaska		U.S.
			Number	Rate	Rate
99%	Tuberculosis	1978	94	.23	.13
		1977	92	.22	.14
		1976	88	.21	.15
		1975	74	.18	.16
		1974	110	.31	.14
		1973	112	.34	.15
		1972	97	.30	.16
		1971	124	.40	.17
	1970	105	.35	.18	
40-50%	Rheumatic Fever	1978	7	.02	.01
		1977	7	.02	.01
		1976	30	.07	.01
		1975	2	--	.02
		1974	1	--	.02
		1973	1	--	.02
		1972	1	--	.02
		1971	6	.02	.02
	1970	3	.01	.02	
100%	Meningitis (Because Alaska and U.S. disease cate- gories differ some- what, comparisons are only approximate)	1978	83	.20	.04
		1977	64	.16	.03
		1976	54	.13	.02
		1975	39	.10	.03
		1974	15	.04	.02
		1973	32	.10	.03
		1972	39	.12	.03
		1971	65	.21	.04
	1970	223	.74	.04	

HEALTH MANPOWER

ALASKA

Date of Data	1	2	Physician		Community	3		3	3	3	3	3	3
	Physicians Oct. 1978	Dentists 1977	Physician Extenders 1977	Physician Assistant 1976	Health Aids Jul 1977	Nurses Dec. 1978	RNs Dec. 1978	Pharmacists May 1978	Optometrists April 1978	Chiropractors April 1978	Physical Therapists 1 1978	Veterinarian April 1978	Licensed Psychologists June 1978
IISA Subarea						LPNs	RNs						
Alaska-Statewide	575	266	66	48	216	600	2482	178	32	32	79	65	21
Southeast	66	22		7	18	83	400	31	6	4	9	7	7
Ketchikan	19	5		2	7	17	100	11	2	1	3	1	1
Wrangell/ Petersburg	4	1		1	2	9	37	4				1	
Sitka	12	6		1	3	25	75	5	1		3		3
Juneau	31	10		4	6	32	188	11	3	3	3	4	3
SouthCentral	393	185	27	37	144	513	1674	122	20	26	55	41	10
Chugach	7	3	5		3	16	84	6			2	1	
Ahtna	1				5	2	24			2			
Cook Inlet (minus Anch.)	24	13	4	2	2	61	208	20	4	4	7	11	2
Anchorage	331	156	16	32	1	406	1235	90	14	19	44	27	6
Kenai	9	4	1	1	1	10	35	5	1	1	1	1	1
Aleut	2				12	2	9				1		
Bristol Bay	5				33	3	17						
Calista	9	4		2	67	8	33		1				1
Bering Straits	5	4	1		20	5	29	1				1	
Northern	116	59	39	4	54	92	408	25	6	2	15	17	4
Ilana	5	3		1		4	14						
Arctic Slope	3	1				0	5					1	
Doyon (minus fbks)	2	3	10	3		8	35					1	
Fairbanks	106	52	28		0	80	354	25	6	2	15	15	4

NOTE: 1) This data reflects the physician listing from the Alaska State Medical Association, Oct. 1978 (including all specialists and military physicians, retired physicians). It is understood that several physicians have left the state or retired. Updated lists will be forthcoming.

2) 1977 Listing from Alaska Dental Society.

3) Licensed manpower: These figures reflect the numbers licensed, not necessarily the numbers practicing.

Sources: Alaska State Medical Association, 1978 Medical Directory, 1978. Alaska Dental Society, Unpublished data, 1977. Alaska Physician Assistant Association, Unpublished data, 1977. Division of Occupational Licensing, Alaska State Department of Commerce, Unpublished data, 1977 & Directory of Registered Professional and Practical Nurses, 1978.

PHYSICIAN SPECIALIST DISTRIBUTION¹

ALASKA

September 1977²

(Excluding Military)

SPECIALTY	SOUTHEAST HSA	SOUTHCENTRAL HSA	NORTHERN HSA	STATE TOTAL
Family Practice	28	89	24	141
Internal Medicine	4	42	11	57
Pediatrics	3	24	7	34
Obstetrics/Gynecology	1	18	7	26
Acupuncture	--	1	--	1
Anesthesiology	1	10	2	13
Cardio-Vascular & Thoracic Surgery	--	1	--	1
Dermatology	--	1	--	1
Doctor of Osteopathy	--	5	--	5
Emergency Medicine	--	5	1	6
General Surgery	6	24	6	36
Industrial Medicine	--	--	2	2
Neurological Surgery	--	2	1	3
Neurology	--	3	1	4
Ophthalmology	2	15	5	22
Orthopedic Surgery	2	17	6	25
Otolaryngology	2	(9) [*]	4	(15)
Pathology	--	7	2	9
Physical Medicine & Rehabilitation	--	1	--	1
Plastic & Reconstructive Surgery	1	2	1	4
Psychiatry	--	18	3	21
Radiology	1	12	4	17
Urology	2	4	1	7
Physicians in Administrative Positions	7	16	3	26

¹ Excluding retired and semi-retired physicians.

² Numbers reflect September 1977 figures. It is understood that several physicians have retired or left the state. Updated lists will be forthcoming.

^{*} Two Southcentral Otolaryngologists are also practicing Ophthalmologists. They are included in both categories in this table.

Source: Alaska State Medical Association, 1977 Medical Directory, September 1977.

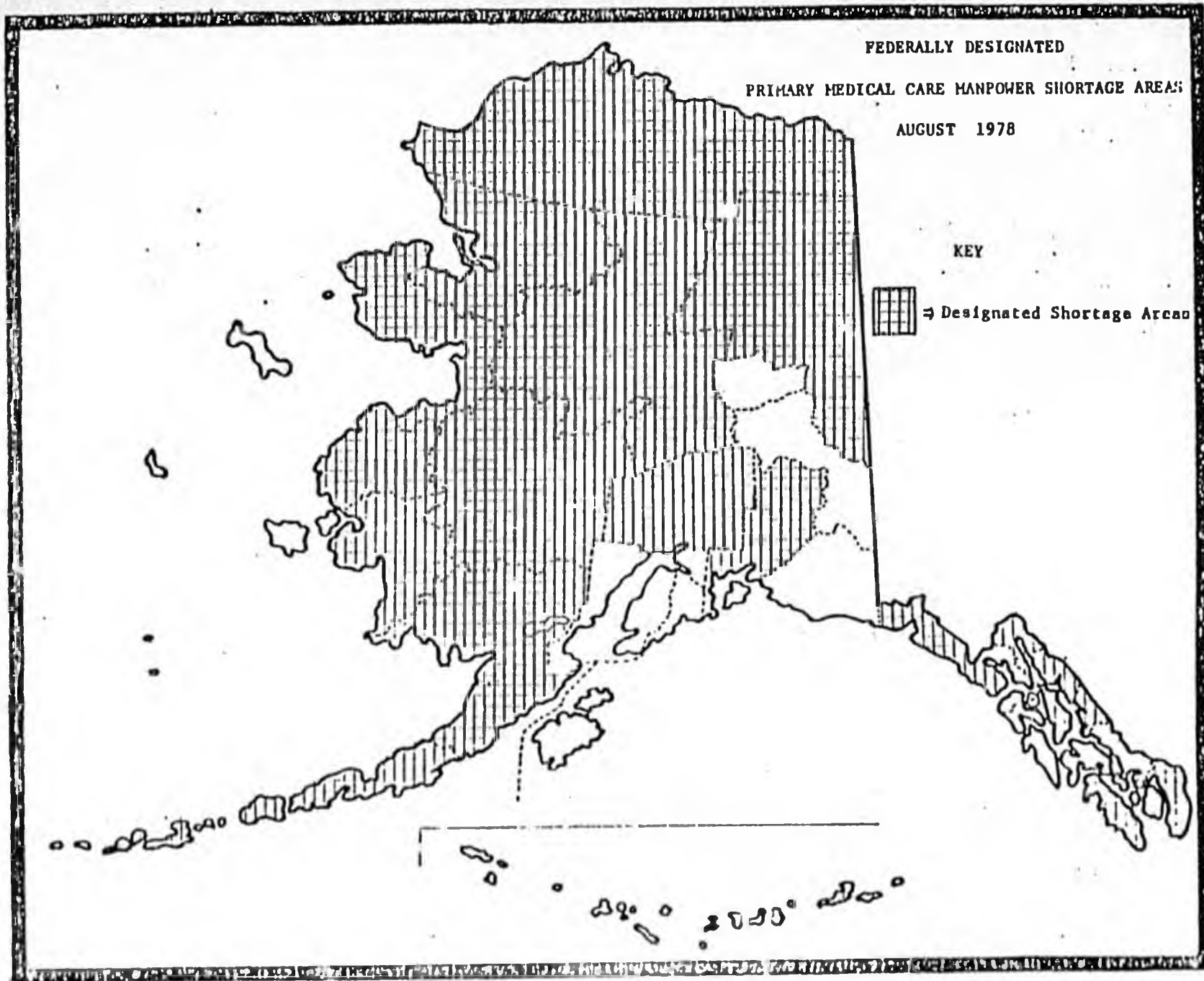
PHYSICIAN DISTRIBUTION IN ALASKA

SEPTEMBER 1977

	U.S. PHS	MILITARY	PRIVATE PRACTICE AND OTHER	TOTAL
SOUTHEAST				
Elfin Cove			1	1
Haines			2	2
Juneau	3		22	25
Ketchikan	4		15	19
Petersburg			2	2
Sitka	6		5	11
Wrangell			2	2
SOUTHCENTRAL				
Adak		4		4
Anchorage	50	44	223	317
Anchor Point			1	1
Bethel	8		1	9
Cordova			2	2
Dillingham-Kanakanak	3		1	4
Eagle River			3	3
Glennallen			1	1
Homer			3	3
Kenai			1	1
Kodiak		4	4	8
Nome			4	4
Palmer			3	3
Port Lions			1	1
Seldovia			1	1
Seward			2	2
Soldotna			7	7
St. Paul Island	1			1
Valdez			1	1
Wasilla			2	2
NORTHERN				
Barrow	4			4
Fairbanks	3	22	81	106
Kotzebue	2			2
Tanana	2			2
TOTAL STATEWIDE	86	74	391	551

IV-70

IV-83



Source: Bureau of Health Manpower, Health Resources Administration, U S. DHHS, Unpublished list, 1978.

Table A-IV-6. Active non-Federal osteopathic physicians and physician/population ratios, by State of practice: 1975

State of practice	Number of active non-Federal osteopathic physicians	Civilian population July 1, 1975 (000's)	Rate per 100,000 Population
United States	13,470	211,392	6.4
Alabama	5	3,577	0.1
Alaska	3	337	0.9
Arizona	363	2,153	16.9
Arkansas	11	2,062	0.5
California	118	20,907	0.6
Colorado	255	2,496	10.2
Connecticut	38	3,085	1.2
Delaware	43	593	7.5
District of Columbia .	9	723	1.3
Florida	736	8,040	9.1
Georgia	111	4,882	2.3
Hawaii	20	847	2.4
Idaho	20	799	2.5
Illinois	302	11,171	2.7
Indiana	170	5,330	3.2
Iowa	384	2,855	13.4
Kansas	183	2,270	8.1
Kentucky	36	3,357	1.1
Louisiana	13	3,764	0.4
Maine	179	1,047	14.1
Maryland	22	4,094	0.5
Massachusetts	152	5,800	2.6
Michigan	2,360	9,098	25.9
Minnesota	54	3,917	1.4
Mississippi	2	2,324	0.1
Missouri	1,053	4,777	22.2
Montana	19	735	2.6
Nebraska	27	1,543	1.8
Nevada	26	573	4.5
New Hampshire	14	808	1.7
New Jersey	860	7,330	11.7
New Mexico	124	1,120	11.1
New York	556	18,111	3.1
North Carolina	21	5,363	0.4
North Dakota	6	637	0.9
Ohio	1,193	10,737	11.1
Oklahoma	431	2,709	15.9
Oregon	66	2,266	7.3
Pennsylvania	1,734	11,835	14.8
Rhode Island	77	937	8.2
South Carolina	6	2,734	0.2
South Dakota	23	682	3.4
Tennessee	55	4,124	1.3
Texas	842	12,050	6.9
Utah	17	1,173	1.4
Vermont	30	470	6.4
Virginia	35	4,908	0.7
Washington	174	3,476	5.0
West Virginia	74	1,791	4.1
Wisconsin	172	4,506	3.8
Wyoming	7	359	2.1

Source: American Osteopathic Association directory: 1975.
U.S. Bureau of the Census, Series P-25, No. 601.

Table A-IV-5. Geographic distribution of non-Federal physicians (M.D.'s) in patient care by State, per 100,000 population: December 31, 1975

State	Patient care physicians per 100,000	GP/FP per 100,000	Internal medicine per 100,000	Pediatrics per 100,000	Primary care physicians per 100,000	Obs/gyn per 100,000	Other specialties per 100,000
United States.....	135	24	21	9	53	9	73
Alabama.....	86	19	11	6	36	7	43
Alaska.....	88	25	9	5	39	6	40
Arizona.....	139	28	17	10	57	10	75
Arkansas.....	85	26	8	3	39	5	42
California.....	173	31	25	11	67	11	95
Colorado.....	151	26	21	11	58	10	83
Connecticut.....	177	19	34	13	66	12	99
Delaware.....	127	22	17	9	48	11	68
District of Columbia.....	343	24	72	26	127	27	194
Florida.....	132	21	18	8	47	10	76
Georgia.....	106	18	15	7	40	9	56
Hawaii.....	148	24	22	13	59	12	77
Idaho.....	88	30	7	4	40	5	43
Illinois.....	132	25	21	9	54	9	68
Indiana.....	96	30	10	4	43	5	48
Iowa.....	95	30	10	4	44	5	46
Kansas.....	113	28	16	5	49	6	58
Kentucky.....	101	25	12	7	44	7	58
Louisiana.....	106	21	13	7	41	9	57
Maine.....	107	24	15	5	44	5	58
Maryland.....	165	19	29	14	63	15	88
Massachusetts.....	182	19	35	13	66	10	103
Michigan.....	119	18	21	7	46	10	64
Minnesota.....	138	33	22	6	61	7	69
Mississippi.....	81	23	8	5	36	6	38
Missouri.....	117	16	20	7	44	9	64
Montana.....	101	30	10	5	45	5	58
Nebraska.....	109	34	16	6	53	5	51
Nevada.....	109	26	8	5	38	7	64



OPTOMETRISTS
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DISTRIBUTION OF OPTOMETRISTS
ALASKA 1977

HEALTH SERVICE AREA	MSA SUBAREA	LOCAL COMMUNITY
SOUTHEAST	Ketchikan 2	Ketchikan 2
	Wrangell-Petersburg 0	
	Sitka 1	Sitka 1
	Juneau 3	Juneau 3
SOUTHCENTRAL	Chupcho 0	
	Atha 0	
	Cook Inlet 4	Lena 3 Palmer 1
	Anchorage 14	Anchorage 14
	Kodiak 1	Kodiak 1
	Aleut 0	
	Bristol Bay 0	
	Galista 1	Bethel 1
	Barling Straits 0	
NORTHERN MOUNTAIN HUT	UAA 0	
	Arctic Slope 0	
	Doyon 0	
	Fairbanks 6	Fairbanks 4 Ft. Wainwright 1 North Pole 1

NOTE: Numbers reflect numbers licensed, not necessarily numbers practicing.

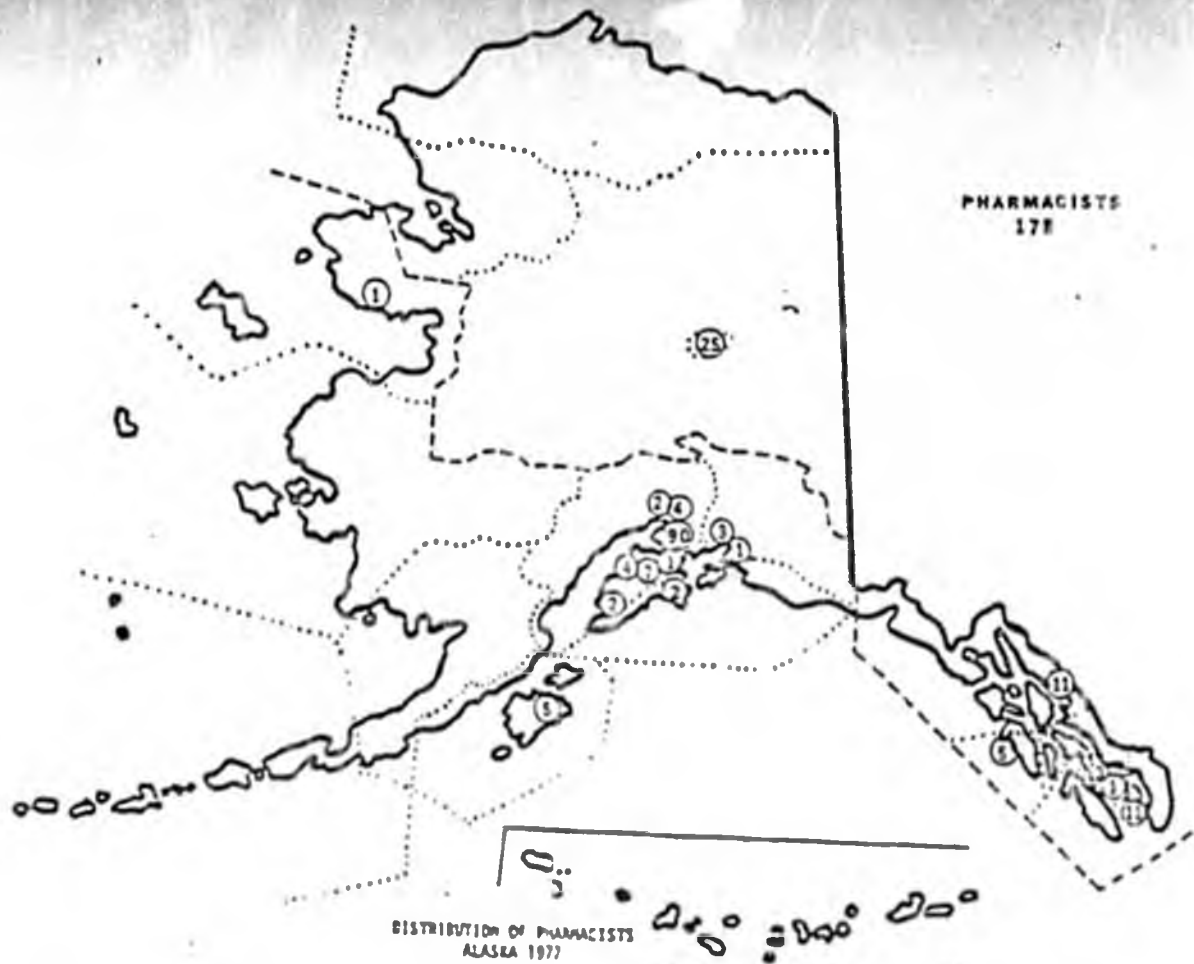
SOURCE: Occupational Statistics, Alaska State Department of Commerce and Economic Development, Statistics of Health Professions in Occupations, 1974.

Table A-VI-5. Number of active optometrists and optometrist/
population ratios, by geographic division and State
December 31, 1973 (cont)

Division and State	Number of active optometrists	Resident population July 1, 1974 (in 1,000's)	Rate per 100,000 population
<i>US</i>	<i>19,265</i>	<i>209,844</i>	<i>9.2</i>
East North Central.....	12,262	10,822	10.9
Illinois.....	1,549	11,175	10.0
Indiana.....	538	5,304	10.1
Michigan.....	745	9,061	8.2
Ohio.....	974	10,743	9.1
Wisconsin.....	436	4,539	4.6
West North Central.....	1,655	16,625	9.9
Iowa.....	314	2,863	11.0
Kansas.....	247	2,264	10.9
Minnesota.....	361	3,890	9.3
Missouri.....	422	4,760	8.9
Nebraska.....	149	1,513	9.7
North Dakota.....	74	635	11.7
South Dakota.....	87	602	12.9
Mountain.....	786	9,200	9.5
Arizona.....	149	2,073	7.2
Colorado.....	208	2,460	8.4
Idaho.....	85	776	11.0
Montana.....	101	730	13.8
Nevada.....	48	551	8.7
New Mexico.....	80	1,099	7.3
Utah.....	75	1,150	6.5
Wyoming.....	40	351	11.3
Pacific.....	3,202	27,971	11.7
Alaska.....	18	330	5.5
California.....	2,421	20,652	11.7
Hawaii.....	74	841	8.8
Oregon.....	305	2,219	13.7
Washington.....	385	3,431	11.2

Sources: DHEW, NHA, DHA. Optometrists and Optometrist/Population, 1973. DHEW Pub. No. 76-101.

PHARMACISTS
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DISTRIBUTION OF PHARMACISTS
ALASKA 1977

HEALTH SERVICE AREA	NSA SUBAREA	LOCAL COMMUNITY	
SOUTHEAST	Ketchikan 11	Ketchikan 11	
	Wrangell-Petersburg 4	Petersburg 3	
		Wrangell 1	
	Sitka 5	Sitka 4	
		Mt. Edgecumbe 1	
	Juneau 11	Juneau 10	
		Douglas 1	
	SOUTHCENTRAL	Chugach 8	Laredo 1
			Seward 2
			Soldotna 3
ATTA 0			
Cook Inlet 20		Nome 2	
		Wainwright 3	
		Long 4	
		Palmer 4	
		Seldovia 7	
		Ustilla 2	
	Anchorage 90	Anchorage 83	
		Chugiak 1	
		Eagle River 4	
		Ft. Richardson 1	
		Mountain View 1	
	Kenai 5	Kenai 5	
	Alut 0		
	Bristol Bay 0		
	Calista 0		
	Bering Straits 1	Nome 1	
WESTERN	BARA 0		
	Arctic Slope 0		
	Bayou 0		
	Fairbanks 23	College 1	
		Fairbanks 22	
	Ft. Belknap 1		
	North Pole 1		

Note: Numbers reflect numbers licensed, not necessarily numbers practicing.

SOURCE: Occupational Licensing, Alaska State Department of Commerce and Economic Development, Division of Staff of Pharmacy, 1978.

Table A-VII-2. Number and percent of active male and female pharmacists and pharmacist/population ratios, by geographic Division and State: December 31, 1973 (cont)

Division and State	Number of active pharmacists	Resident population July 1, 1973 (in 1,000's)	Rate per 100,000 population	Number of active pharmacists		PERCENT	
				male	female	Male	Female
Mountain.....	116,562	2,131,155	55	103,732	12,830	81.0	17.0
Arizona.....	2,678	2,200	62	2,045	633	89.8	11.2
Colorado.....	1,273	2,071	61	1,139	134	89.5	10.5
Idaho.....	1,640	2,468	66	1,423	217	86.8	13.2
Montana.....	473	776	61	412	61	81.1	12.9
Nevada.....	452	730	62	396	56	81.5	12.4
New Mexico.....	311	551	56	224	87	94.5	5.5
Utah.....	683	1,099	62	617	66	90.3	9.7
Wyoming.....	608	1,150	53	564	44	92.8	7.2
	238	353	67	200	38	84.0	16.0
Pacific.....	12,066	27,517	55	13,072	1,994	86.8	13.2
Alaska.....	153	320	46	120	33	78.8	21.6
California.....	11,025	20,652	53	9,770	1,255	80.6	11.4
Hawaii.....	246	441	29	197	49	80.1	19.9
Oregon.....	1,383	2,219	62	1,161	222	84.0	16.0
Washington.....	2,259	3,431	66	1,824	435	80.7	19.3
Puerto Rico.....	987	2,951	33	453	534	45.9	54.1
Virgin Islands.....	--	--	--	--	--	--	--

Source: Active Pharmacists: Unpublished data from HIM Contract No. 71-4178, Pharmacy Manpower Information Project, American Association of Colleges of Pharmacy, 1973.
 Population: U.S. Bureau of the Census. Current Population Reports, Series P-25, No. 513. Estimates of the Population of States 1973. Estimates of the population of Puerto Rico and Outlying Areas: 1960-1973.

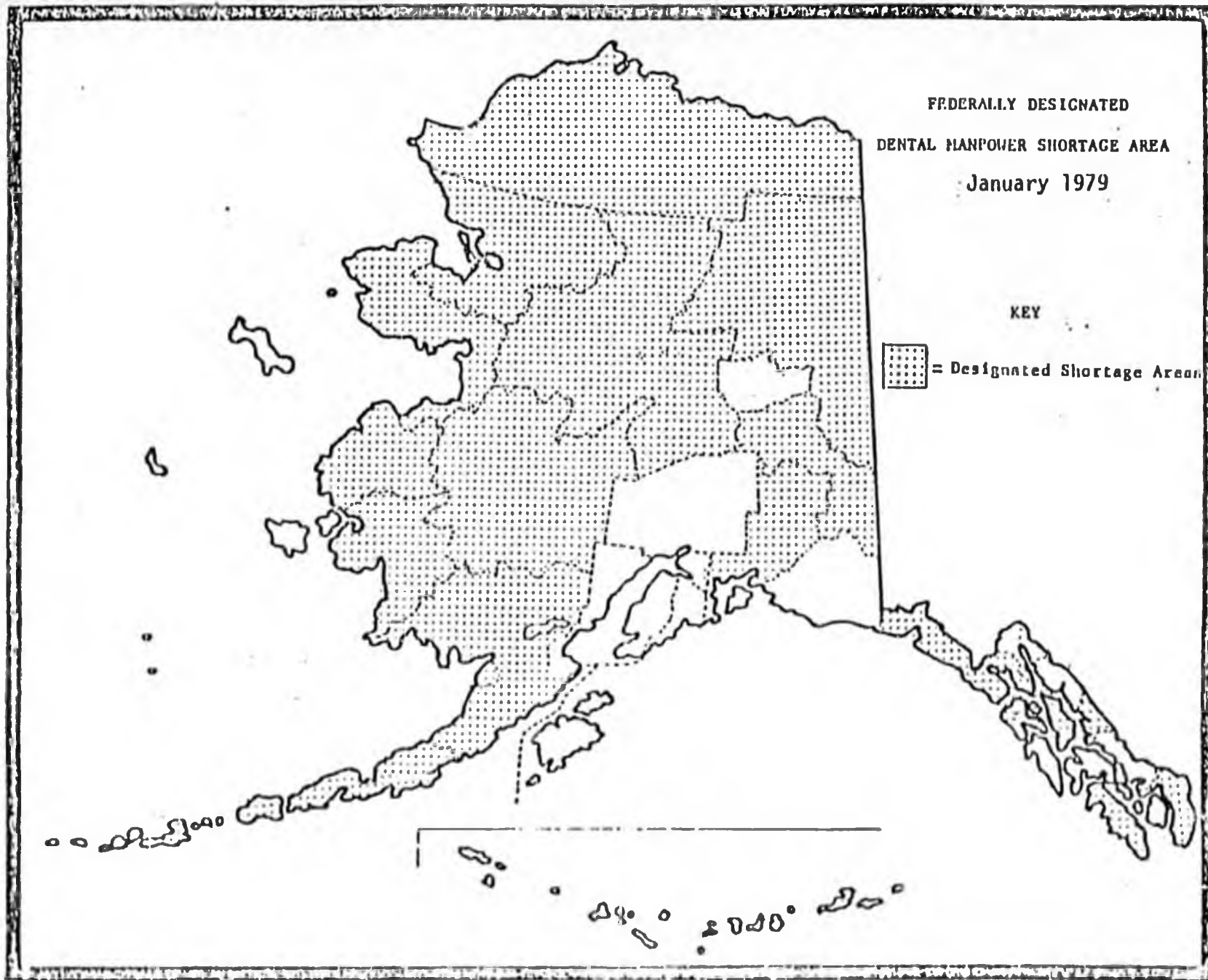
Table V-18. Number of active civilian dentists per 100,000 population in metropolitan areas and non-metropolitan counties, by region, division, and State: 1974 (cont)

Geographic area	All areas	Metropolitan areas by population			Non-metropolitan counties by size of central city				
		Total	1,000,000 or more	Under 1,000,000	Total	25,000 or more	10,000- 24,999	5,000- 9,999	Under 5,000
East South Central..... <i>US</i>	<i>50</i>	<i>56</i>	<i>42</i>	<i>48</i>	<i>34</i>	<i>43</i>	<i>36</i>	<i>32</i>	<i>26</i>
Alabama.....	35	46	32	37	25	37	28	22	18
Kentucky.....	31	38	--	38	21	32	21	17	15
Mississippi.....	37	52	32	56	24	39	30	26	19
Tennessee.....	27	36	--	36	24	35	29	19	17
Tennessee.....	42	52	--	52	29	46	32	26	22
West South Central.....	38	44	50	40	27	41	28	25	21
Arkansas.....	32	43	--	43	25	39	24	24	21
Louisiana.....	37	46	51	41	23	32	27	18	18
Oklahoma.....	38	44	--	44	31	46	30	29	21
Texas.....	40	44	50	38	27	42	28	27	23
West.....	60	65	67	58	45	48	49	41	39
Mountain.....	50	57	69	55	40	46	41	36	36
Arizona.....	43	49	--	49	27	36	24	26	19
Colorado.....	57	61	67	52	48	50	51	39	50
Idaho.....	49	72	--	72	45	67	47	30	34
Montana.....	48	57	--	57	46	73	58	45	30
Nevada.....	48	51	--	51	35	--	56	38	27
New Mexico.....	34	49	--	49	27	33	25	24	17
Utah.....	65	68	--	68	54	--	70	65	39
Wyoming.....	48	--	--	--	48	46	57	45	45
Pacific.....	64	69	60	60	51	50	51	42	36
Alaska.....	42	--	--	--	--	--	--	--	--
California.....	63	64	65	61	53	47	54	55	56
Hawaii.....	59	61	--	61	50	50	--	--	--
Oregon.....	67	78	85	62	51	58	53	40	44
Washington.....	67	74	84	59	48	49	51	51	36

Source: Health Resources Administration, Bureau of Health Manpower, Division of Dentistry, based on the 1974 Register of Licensed Dental Manpower.

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Source: Bureau of Health Manpower, Health Resources Administration, U.S. DHHS, Unpublished List, 1978.

Table V-19. Distribution of counties according to ratio of persons per active civilian dentist, by State: 1974

State	Number of counties by persons-per-dentist ratio						All counties
	Without any dentist	5,000 and over	4,000-4,999	3,000-3,999	2,000-2,999	Under 2,000	
United States.....	234	579	330	554	842	537	3,076
Alabama.....	--	33	9	12	11	2	67
Alaska.....	--	--	--	--	1	--	1
Arizona.....	1	1	2	4	2	4	14
Arkansas.....	3	19	18	17	15	3	75
California.....	1	--	--	4	14	39	58
Colorado.....	12	1	1	4	19	26	63
Connecticut.....	--	--	--	1	2	5	8
Delaware.....	--	--	--	2	--	1	3
District of Columbia.....	--	--	--	--	--	1	1
Florida.....	5	12	12	11	20	7	67
Georgia.....	43	64	23	16	9	4	159
Hawaii.....	--	--	--	--	--	4	4
Idaho.....	3	2	3	8	17	11	44
Illinois.....	3	15	11	25	42	6	102
Indiana.....	2	9	13	30	34	4	92
Iowa.....	--	11	7	26	38	17	99
Kansas.....	9	6	7	28	43	12	105
Kentucky.....	6	33	24	36	14	7	120
Louisiana.....	4	32	9	7	11	1	64
Maine.....	--	--	2	3	6	5	16
Maryland.....	--	2	5	4	7	6	24
Massachusetts.....	--	--	--	--	2	12	14
Michigan.....	2	4	11	12	32	22	83
Minnesota.....	--	1	5	11	37	30	87
Mississippi.....	4	38	12	16	10	2	82
Missouri.....	5	30	12	25	29	14	115
Montana.....	11	6	4	6	14	15	56
Nebraska.....	13	8	4	7	28	33	93
Nevada.....	7	--	1	1	5	3	17
New Hampshire.....	--	--	--	--	4	6	10
New Jersey.....	--	--	--	1	6	14	21
New Mexico.....	6	9	2	7	5	3	32
New York.....	--	2	3	10	25	22	62
North Carolina.....	5	38	13	18	21	5	100
North Dakota.....	8	12	3	9	14	7	53
Ohio.....	--	15	9	22	34	8	88
Oklahoma.....	4	19	13	19	15	7	77
Oregon.....	2	1	1	2	9	21	36

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FEDERALLY DESIGNATED
DENTAL MANPOWER SHORTAGE AREAS

JANUARY 1979

Service Area	Division	Parts	Population-to-Dentist Ratio: 1977	Unusually High Needs and/or Insufficient Capacity Indicated (yes/no)	Degree of Shortage Group
Southeast	Angoon	All	555:0	Yes	1
	Outer Ketchikan	All	2019:0	No	1
	Prince of Wales	All	2639:0	No	1
	Skagway-Yakutat	All	2960:0	No	1
Southcentral	Aleutian Islands	All	4896:0	No	1
	Bethel	All	6910:1	Yes	1
	Bristol Bay Borough	}	4164:0	Yes	1
	Bristol Bay				
	Kobuk	All	5022:1	Yes	3
	Kuskokwim	All	2247:0	Yes	1
	Nome	All	5704:1	Yes	3
	Valdez-Chitina-Whittier	All	9905:0	No	1
Wade Hampton	All	3507:0	Yes	1	
Northern	Darrow	All	9497:0	-	1
	S.E. Fairbanks	All	4100:0	No	1
	Upper Yukon	All	1114:0	No	1
	Yukon-Koyukuk	All	4240:0	No	1

Note: Manpower shortage area designations are subject to change as new applications are processed.

Source: Bureau of Health Manpower, Health Services Administration, U.S. DHEW, Unpublished H. S., 1979.

HEALTH MANPOWER RATIOS¹
 ALASKA 1977² & U.S. 1974
 (Excluding Military)

SPECIALTY	SOUTHEAST RATIO	SOUTHCENTRAL RATIO	NORTHERN RATIO	STATE RATIO	U.S. RATIO
Family Practice	1,871:1	3,000:1	2,701:1	2,739:1	4,135:1
Internal Medicine	13,095:1	6,358:1	6,067:1	6,775:1	5,029:1
Pediatrics	17,460:1	11,127:1	9,534:1	11,358:1	11,902:1
Obstetrics/Gynecology	52,381:1	14,836:1	9,534:1	14,852:1	11,080:1
Acupuncture	--	267,041:1	--	386,157:1	
Anesthesiology	52,381:1	26,704:1	33,368:1	29,704:1	19,007:1
Cardio-Vascular & Thoracic Surgery	--	267,041:1	--	386,157:1	
Dermatology	--	267,041:1	--	386,157:1	54,447:1
Doctor of Osteopathy	--	53,408:1	--	77,231:1	
Emergency Medicine	--	53,408:1	66,735:1	64,360:1	
General Surgery	0,730:1	11,127:1	11,123:1	10,727:1	7,547:1
Industrial Medicine	--	--	33,368:1	193,079:1	
Neurological Surgery	--	133,520:1	66,735:1	128,719:1	
Neurology	--	89,014:1	66,735:1	96,539:1	
Ophthalmology	26,191:1	17,803:1	13,347:1	17,553:1	21,271:1
Orthopedic Surgery	26,191:1	(15,700:1)*	11,123:1	15,446:1	21,411:1
Otolaryngology	26,191:1	29,671:1	16,684:1	25,744:1	42,452:1
Pathology	--	38,149:1	33,368:1	42,906:1	25,512:1
Physical Medicine & Rehabilitation	--	267,041:1	--	386,157:1	
Plastic & Reconstructive Surgery	52,381:1	133,520:1	66,735:1	96,539:1	
Psychiatry	--	14,836:1	22,245:1	18,380:1	11,379:1
Radiology	52,381:1	22,253:1	16,684:1	22,715:1	15,711:1
Urology	26,191:1	66,760:1	66,735:1	55,165:1	35,829:1

¹ Excluding retired and semi-retired physicians.

² Numbers reflect September 1977 figures. It is understood that several physicians have retired or left the state. Updated lists will be forthcoming.

* Two Southcentral Otolaryngologists are also practicing Ophthalmologists. They are included in both categories in this table.

Source: Alaska State Medical Association, 1977 Medical Directory, September 1977. Applied Management Sciences, Inc. for the Bureau of Health Manpower, U.S. DHEW, Manpower/Population Ratios for Calculating Needs Standards, May 1976.

FEDERALLY DESIGNATED
PRIMARY MEDICAL CARE MANPOWER SHORTAGE AREAS

AUGUST 1978
ALASKA

Service Area	Division	Parts	Population-to-Primary Care Phys. Ratio! 1977	Unusually High Needs and/or Insufficient Capacity Indicated (yes/no)	Degree of Shortage Group
Southeast	Prince of Wales	All	2639:0	No	1
	Outer Ketchikan	All	2019:0	No	1
	Angoon Juneau Skagway Yukutat	All All All	3975:1	No	4
Southcentral	Valdez- Chitina- Whittier	All	4952:1	No	2
	Aleutian Islands	All	4896:0	No	1
	Hatanuska-Susitna Bristol Bay Bristol Bay Dorough	All All	3893:1 4164:1	No	4 3
Northern	Nome	All	5704:0	Yes	1
	Bethel	All	7956:0	Yes	1
	Wade Hampton	All	3587:0	Yes	1
	Kuskokwin	All	2247:0	Yes	1
	Yukon- Koyukuk	All	4240:0	No	1
	Upper Yukon	All	1114:0	No	1
	Kobuk Barrow	All All	5022:0 9497:0	No Yes	1 1

Notes: Manpower shortage area designations are subject to change as new applications are processed.

Source: Bureau of Health Manpower, Health Services Administration, U.S. DHEW, Unpublished list, 1970.

Table A-VIII-3. Number of active podiatrists and podiatrist/population ratios, by geographic division and State: December 31, 1974 (cont)

Division and State	Number of active podiatrists	Resident population July 1, 1974 (in 1,000's)	Rate per 100,000 population
<i>47</i> East North Central.....	<i>7,085</i> 1,636	<i>211,381</i> 50,202	<i>3.4</i> 3.0
Illinois.....	570	11,160	5.1
Indiana.....	120	5,313	2.4
Michigan.....	296	9,117	3.2
Ohio.....	515	10,745	4.8
Wisconsin.....	126	4,566	2.8
West North Central.....	333	16,657	2.0
Iowa.....	84	2,857	2.9
Kansas.....	42	2,266	1.8
Minnesota.....	70	3,905	1.8
Missouri.....	82	4,772	1.7
Nebraska.....	37	1,541	2.4
North Dakota.....	5	636	0.8
South Dakota.....	12	681	1.8
Mountain.....	278	9,440	2.9
Arizona.....	55	2,160	2.5
Colorado.....	64	2,515	2.5
Idaho.....	15	796	1.9
Montana.....	14	737	1.9
Nevada.....	15	574	2.6
New Mexico.....	27	1,119	2.4
Utah.....	32	1,179	2.7
Wyoming.....	7	302	1.9
Pacific.....	877	27,821	3.2
Alaska.....	3	341	0.9
California.....	764	20,876	3.7
Hawaii.....	4	854	0.9
Oregon.....	37	2,255	1.6
Washington.....	66	3,494	1.9

US rate 3.4

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Source: Based on data in NCNS, Monthly Vital Statistics Report, Preliminary data from the Survey of Podiatrists, U.S., 1974.

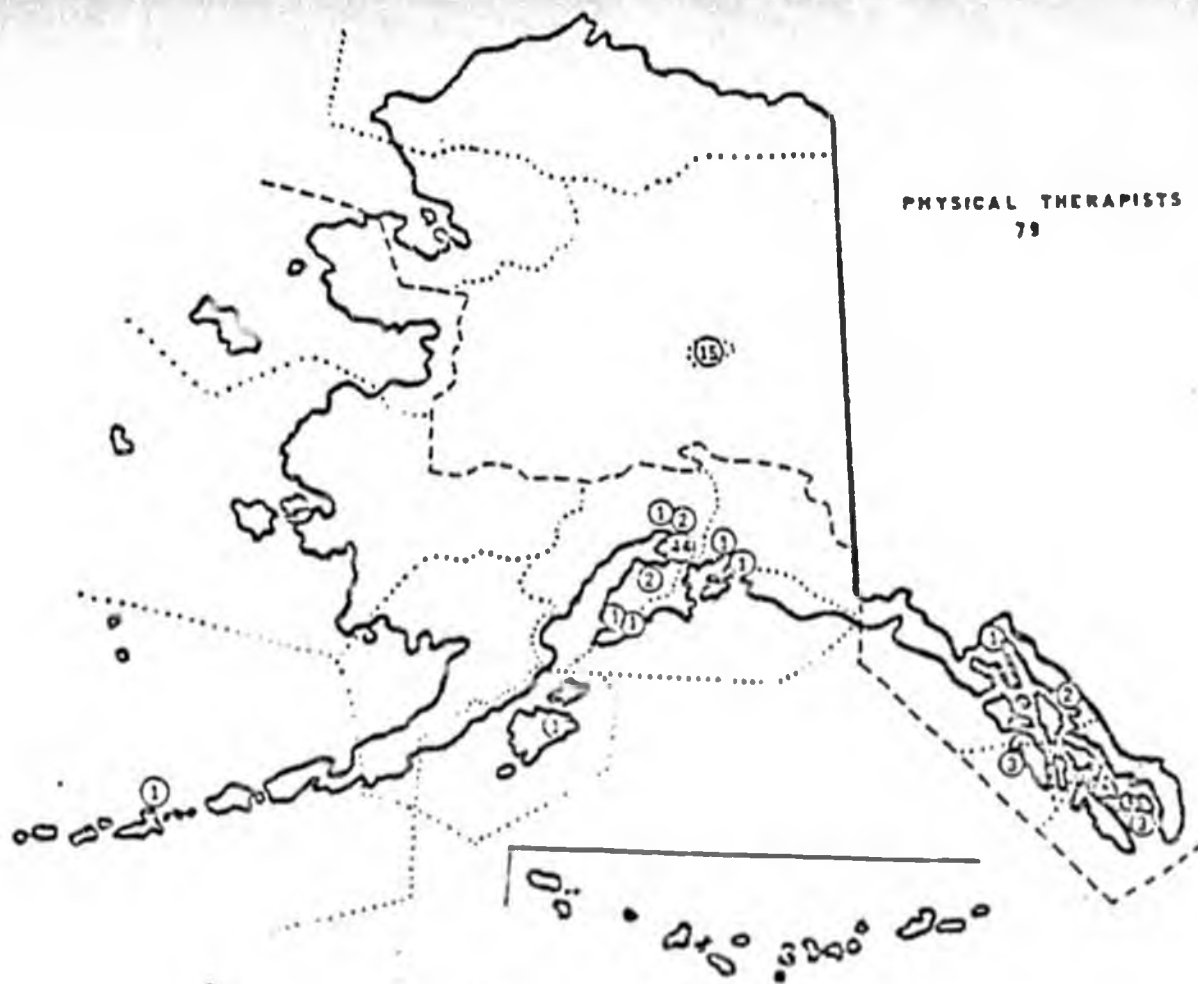
Population: U.S. Bureau of the Census Population Reports, Series P-25, No. 615.

Note: Figures may not add to totals and subtotals due to independent rounding.

Table A-II-1. Number of health practitioners short and shortage areas by State and discipline 1/

State	M.O./D.O.		Dentistry		Optometry		Pharmacy		Podiatry		Vet. Med.	
	# prac	# areas	# prac	# areas	# prac	# areas	# prac	# areas	# prac	# areas	# prac	# areas
U.S. Total.....	10261	2107	5053	1639	1524	848	333	205	2750	1407	966	501
Alabama.....	506	55	231	56	56	48	6	3	114	7	13	12
Alaska.....	42	21	18	15	4	4	8	7	7	4	2	2
Arizona.....	40	22	33	17	9	6	-	-	16	11	1	1
Arkansas.....	250	54	106	42	21	21	-	-	63	44	17	17
California.....	104	55	10	4	4	4	3	2	65	33	-	-
Colorado.....	46	17	15	20	15	14	1	1	32	14	1	1
Connecticut.....	92	33	3	2	1	1	-	-	3	1	6	2
Delaware.....	14	3	13	2	-	-	-	-	4	2	-	-
Dist. of Columb'ia...	87	5	27	3	-	-	-	-	-	-	31	7
Florida.....	93	26	125	33	25	24	4	5	97	42	8	9
Georgia.....	654	126	432	136	101	65	5	3	111	76	22	20
Hawaii.....	3	2	-	-	2	2	3	1	26	4	-	-
Idaho.....	68	21	25	20	5	5	-	-	10	10	3	3
Illinois.....	254	62	59	26	12	12	10	11	49	36	1	1
Indiana.....	296	55	130	45	10	10	42	23	74	53	3	2
Iowa.....	157	49	50	26	12	12	2	2	44	41	44	44
Kansas.....	170	74	63	51	30	19	-	-	30	27	-	-
Kentucky.....	410	87	244	84	51	46	9	14	63	53	42	20
Louisiana.....	355	49	161	40	34	20	17	7	116	57	26	20
Maine.....	11	5	51	12	1	1	-	-	19	9	7	4
Maryland.....	156	12	136	14	62	14	7	2	30	15	15	5
Massachusetts.....	-	-	-	-	-	-	-	-	-	-	-	-
Michigan.....	195	34	84	21	21	13	8	3	79	44	21	9
Minnesota.....	256	55	21	10	9	8	2	1	120	45	3	3
Mississippi.....	312	66	199	69	52	47	5	3	83	64	26	23
Missouri.....	355	70	190	67	15	13	20	22	85	47	9	7
Montana.....	50	34	17	17	9	9	2	2	7	7	1	1
Nebraska.....	116	52	40	24	27	20	4	4	11	9	-	-
Nevada.....	10	12	10	9	2	5	1	1	9	2	-	-
New Hampshire.....	2	1	4	4	4	4	1	1	11	9	-	-
New Jersey.....	-	-	15	3	3	2	-	-	22	6	-	-
New Mexico.....	90	19	84	23	7	6	2	2	10	15	3	3
New York.....	407	21	20	7	19	9	-	-	42	24	175	6
North Carolina.....	926	256	471	143	76	56	40	20	152	70	86	65
North Dakota.....	70	35	31	22	6	6	1	1	-	3	7	5
Ohio.....	277	36	102	42	19	6	-	-	42	30	10	7
Oklahoma.....	243	48	89	36	4	4	-	-	45	34	4	4
Oregon.....	20	0	6	3	1	1	-	-	56	23	3	3
Pennsylvania.....	165	25	10	9	10	9	9	3	20	19	61	17
Rhode Island.....	70	4	21	3	3	3	-	-	2	2	11	3
South Carolina.....	276	43	190	39	26	10	5	1	101	42	15	13
South Dakota.....	110	40	42	33	7	7	7	5	9	7	7	6
Tennessee.....	370	75	140	65	35	37	12	7	110	60	23	22
Texas.....	719	156	401	133	110	83	-	-	220	113	19	15

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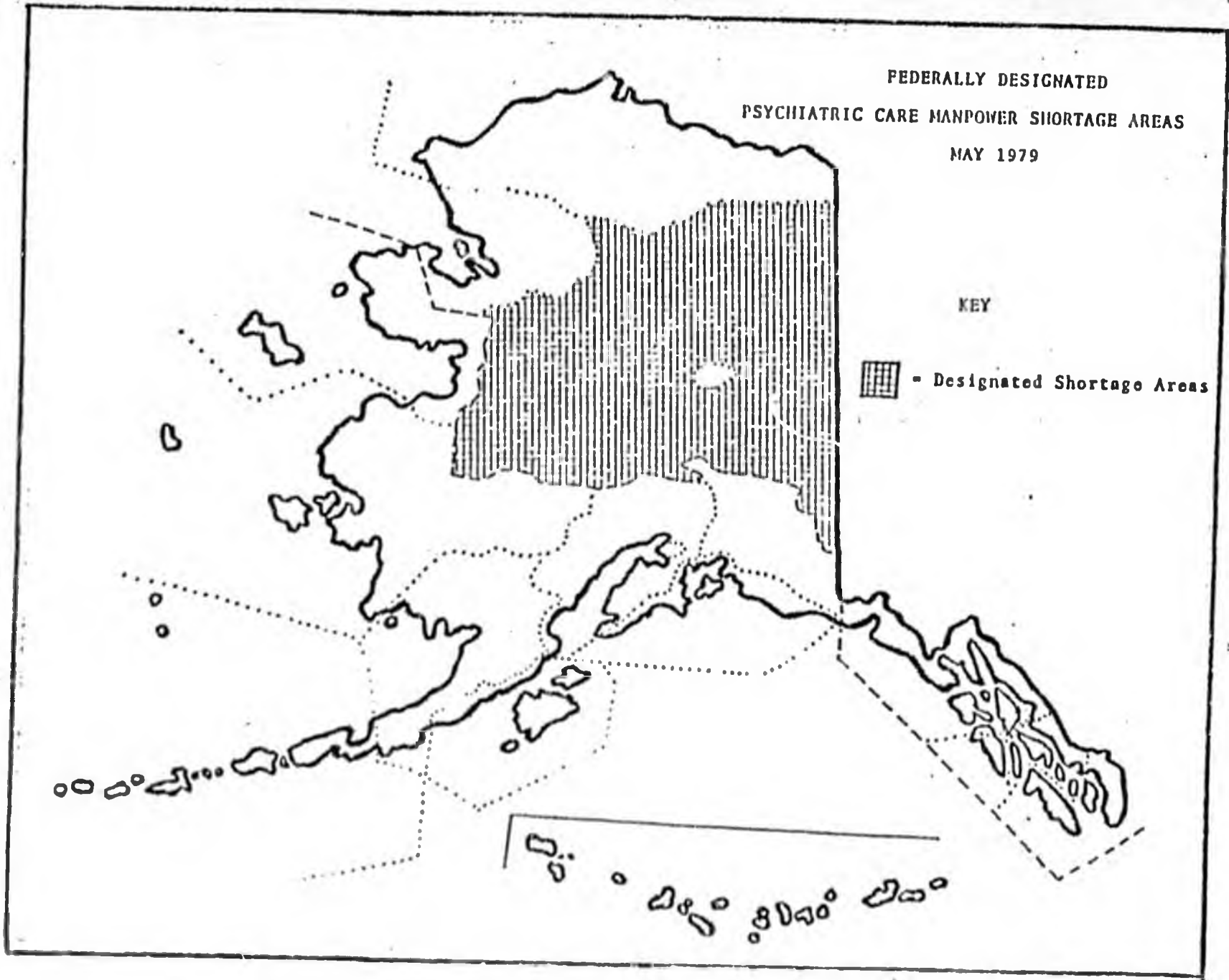


PHYSICAL THERAPISTS
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DISTRIBUTION OF PHYSICAL THERAPISTS
ALASKA 1977

HEALTH SERVICE AREA	PSA SUBAREA	LOCAL COMMUNITY	
SOUTHEAST	Etchikan	Etchikan	
	Kranzall-Fitersburg		
	Sitka	Sitka	
	Juneau	Palmetto Juneau	
SOUTHCENTRAL	Chugach	Comrade Valdez	
	Anchorage		
	Leak Inlet	Millport Cove Nemah Palmer Soldotna Wasilla	
	Anchorage	Anchorage Chugiak Girdwood	
	Ladue	Ladue	
	Alut	Dutch Harbor	
	Orizaba Bay		
	Colville		
	Barrow Circle		
	NORTH CENTRAL	UAAU	
		Arctic Slope	
		Etowah	
		Fairbanks	Colville Fairbanks North Pole

(*) Numbers in circles indicate number licensed, not necessarily number practicing.
Source: Bureau of Census, Alaska State Department of Economic Development, unpublished data, 1977.



Source: Bureau of Health Manpower, Health Resources Administration, U.S. DHEW, Unpublished data, 1979.

REGISTERED PROFESSIONAL AND PRACTICAL NURSES*

Alaska

December 1978

	<u>RN's</u>	<u>LPN's</u>	<u>Total Nurses</u>
SOUTHEAST HSA			
Ketchikan	100	17	117
Wrangell-Petersburg	37	9	46
Sitka	75	25	100
Juneau	128	32	220
Total	400	83	483
SOUTHCENTRAL HSA			
Chugach	84	16	100
Ahtna	24	2	26
Cook Inlet (-Anchorage)	208	61	269
Anchorage	1,235	406	1,641
Koniag	35	10	45
Aleut	9	2	11
Bristol Bay	17	3	20
Calista	33	8	41
Bering Straits	29	5	34
Total	1,674	513	2,187
NORTHERN HSA			
Nana	14	4	18
Arctic Slope	5	0	5
Doyon (-Fairbanks)	35	8	43
Fairbanks	354	80	434
Total	408	92	500
TOTAL NURSES RESIDING IN ALASKA	2,482	668	3,170
OUTSIDE ALASKA	421	133	554
UNKNOWN	1	0	1
TOTAL NURSES LICENSED IN ALASKA	2,904	801	3,725

*This is a listing of nurses licensed by the State of Alaska by mailing address. Because not all licensed nurses practice, and those that do may not practice where they receive mail, this listing does not necessarily reflect actual numbers of practicing nurses in the given sub-areas.

Source: Board of Nursing, Occupational Licensing, Alaska Department of Commerce and Economic Development, Directory of Registered Professional and Practical Nurses, September 1978 and Supplement, December 1978.



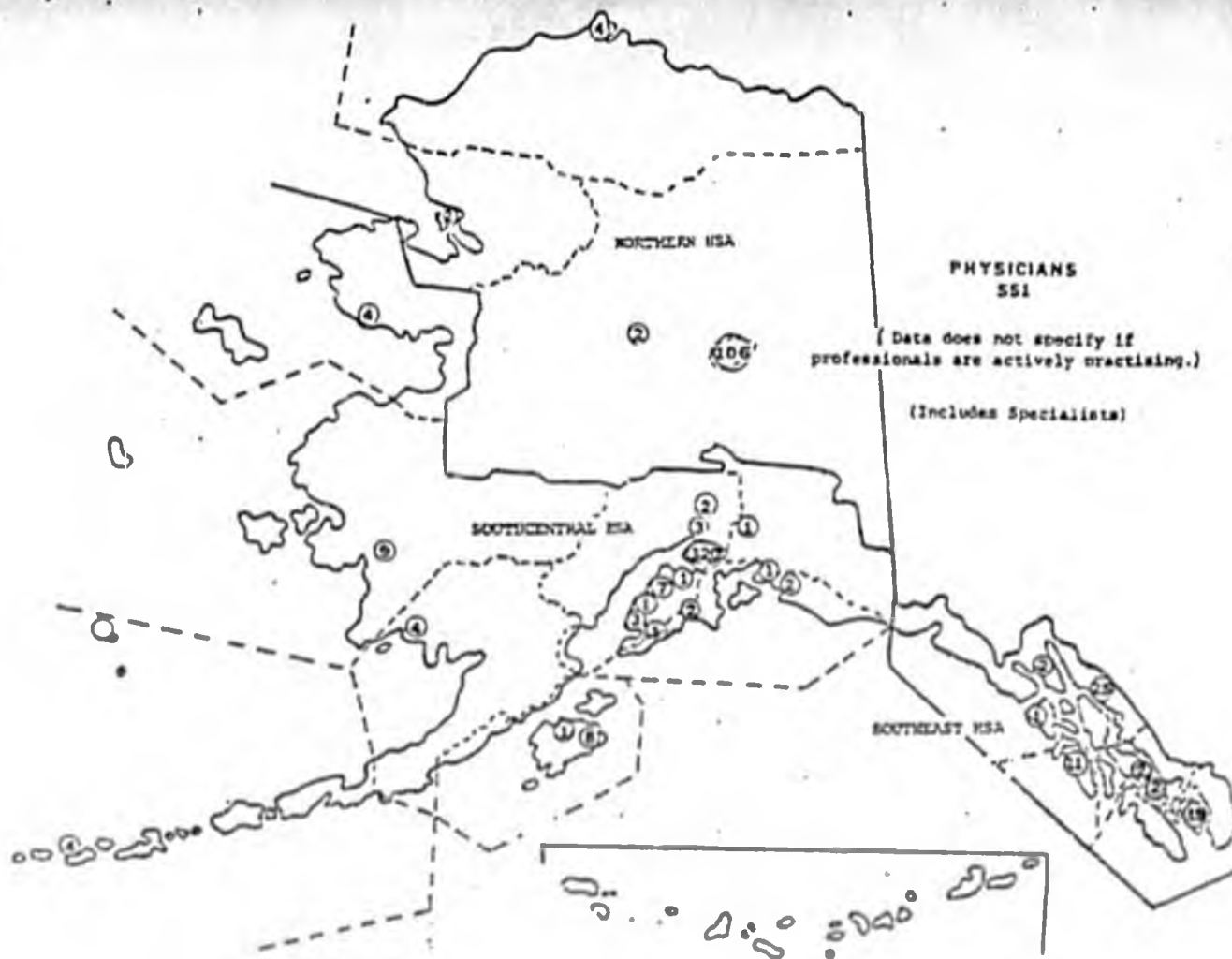
**PHYSICIAN EXTENDERS
114**

(Data does not specify if professionals
are actively practicing.)

**DISTRIBUTION OF PHYSICIAN EXTENDERS
ALASKA 1977**

HEALTH SERVICE AREA	MSA (SIC/ASA)	LOCAL COMMUNITY	
		PHYSICIAN ASSISTANTS	NURSE PRACTITIONERS
SOUTHEAST	Ketchikan.....2	Ketchikan.....2	
	Wrangell-Petersburg...0	Wrangell-Petersburg...0	
	Sitka.....1	St. Ignace.....1	
	Juneau.....4	Juneau.....4	
		Palca.....1	
SOUTHCENTRAL	Valdez.....0	Valdez.....0	
	Chugiach.....5	Chugiach.....5	
	Leona Inlet (within Anch.).....6	Leona Inlet (within Anch.).....6	
	Anchorage.....46	Anchorage.....46	
		St. Ignace.....1	
		Palca.....1	
		St. Ignace.....1	
		Palca.....1	
		St. Ignace.....1	
		Palca.....1	
		St. Ignace.....1	
		Palca.....1	
NORTHERN	NASU.....1	NASU.....1	
	Arctic Slope.....0	Arctic Slope.....0	
	Doyon (incl. Fba.).....12	Doyon (incl. Fba.).....12	
		Clear.....1	
		Chitina Junction.....1	
		Galena.....1	
		Healy.....1	
		McGrath.....1	
		Tanana.....1	
		Yukon.....1	
	Fairbanks.....29	Fairbanks.....29	

Source: Alaska Division of Statistics, unpublished data, 1977.



**DISTRIBUTION OF PHYSICIANS
SEPTEMBER 1977**

HEALTH SERVICE AREA	NATIVE REGIONAL CORPORATION	%AL COMMUNITY	
SOUTHEAST	Aleutika 62	Elfin Cove 1	
		Haines 2	
		Juneau 25	
		Ketchikan 19	
		Petersburg 2	
		Sitka 11	
		Wrangell 2	
SOUTHCENTRAL	Arctic 1	Glennallen 1	
		Aleut 5	Adak 4
		St. Paul Island 1	
	Barrow Straits 4	Nome 4	
		Bristol Bay 4	Dillingham 1
	Cordova 9	Kanotank 3	
		Chugach 5	Bethel 8
	Cook Inlet 130	Cordova 2	
		Seward 2	
		Valdez 1	
		Anchorage 317	
		Anchor Point 1	
		Eagle River 3	
		Homer 3	
		Kenai 1	
Palmer 3			
Seldovia 1			
Soldotna 2			
Wasilla 2			
Kenai 9	Kodiak 8		
	Port Lions 1		
NORTHERN	Arctic Slope 4	Barrow 4	
		DeWitt 100	
		Nome 2	
Nome 2	Barrow 4		
	Ikroavik 106		
	Lititsook 2		

SOURCE: 1977 Medical Directory - Alaska State Medical Association.

LEADING CAUSES OF DEATH BY REGIONRATE PER 100,000

KETCHIKAN

1. Heart disease and hypertension	157.1
2. Accidents	107.6
3. Malignant neoplasms	82.9
4. Vascular lesions of CNS	44.5
5. Degenerative diseases	21.0

WRANGELL-PETERSBURG

1. Heart disease and hypertension	173.0
2. Accidents	150.0
3. Malignant neoplasms	110.4
4. Suicide	29.4
5. Vascular lesions of CNS	22.1

SITKA

1. Heart disease and hypertension	114.2
2. Accidents	108.3
3. Malignant neoplasms	93.7
4. Vascular lesions of CNS	32.2
5. Alcoholism/diseases of early infancy	23.4

JUNEAU

1. Heart disease and hypertension	122.0
2. Accidents	104.1
3. Malignant neoplasms	75.1
4. Vascular lesions of CNS	32.4
5. Respiratory/ill-defined	17.1

CHUGACH

1. Accidents	173.8
2. Heart Disease and hypertension	120.8
3. Malignant neoplasms	108.1
4. Influenza pneumonia/Respiratory	21.2
5. Vascular lesions of CNS/Cirrhosis	17.0

AHTNA

1. Accidents	160.9
2. Malignant neoplasms	47.3
3. Heart disease and hypertension	42.6
4. Diseases of early infancy/Ill-defined	23.7
5. Suicide	14.2

COOK-INLET

1. Accidents	125.5
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2. Heart disease and hypertension	103.7
3. Malignant neoplasms	81.3
4. Vascular lesions of CNS	24.3
5. Ill-defined	22.4

ANCHORAGE

1. Accidents	74.9
2. Heart disease and hypertension	54.6
3. Malignant neoplasms	46.2
4. Suicide	16.5
5. Cirrhosis	13.1

KONIAG

1. Accidents	191.8
2. Heart disease and hypertension	93.7
3. Malignant neoplasms	56.7
4. Alcoholism	26.1
5. Vascular lesions of CNS	21.8

ALEUTIANS

1. Accidents	81.4
2. Heart disease and hypertension	65.1
3. Malignant neoplasms	32.5
4. Vascular lesions of CNS	24.4
5. Diseases of early infance/Ill-defined	10.8

BRISTOL BAY

1. Accidents	204.0
2. Heart disease and hypertension	61.9
3. Malignant neoplasms	51.0
4. Ill-defined	32.8
5. Vascular lesions CNS/Respiratory	25.5

CALISTA

1. Accidents	181.7
2. Heart disease and hypertension	43.7
3. Influenza Pneumonia	31.0
4. Ill-defined	29.6
5. Diseases of early infancy	26.8

BERING STRAITS

1. Accidents	158.0
2. Heart disease and hypertension	105.0
3. Malignant neoplasms	96.0

4. Suicide	57.0
5. Homicide/Ill-defined	30.0

NANA

1. Accidents	149.2
2. Suicide	78.8
3. Heart disease and hypertension	66.3
4. Ill-defined	45.6
5. Malignant neoplasms	51.5

DOYON

1. Accidents	142.1
2. Heart disease and hypertension	72.9
3. Malignant neoplasms	37.1
4. Homicide	27.2
5. Suicide	21.0

FAIRBANKS

1. Accidents	76.8
2. Heart disease and hypertension	68.7
3. Malignant neoplasms	54.5
4. Vasculer lesiona of CNS	20.0
5. Diseases of early infancy	17.3

Average annual rate 1974-1977 per 100,000 from DHEW statistics

1977 LEADING CAUSES OF DEATH - UNITED STATES	RATE PER 100,000
1. Diseases of the heart	331.3
2. Malignant neoplasms	183.5
3. Cerebrovascular disease	76.9
4. Accidents	47.9
5. Pulmonary disease	22.7
6. Pneumonia/Influenza	20.0
7. Diabetes mellitus	15.0
8. Chronic liver disease	13.6
9. Atherosclerosis	13.0
10. Suicide	12.6

CAUSE OF DEATH	RATE/100,000 ALASKA	RATE/100,000 U.S.
Congenital Abnormalities		6.0
1. Nana	12.4	
2. Sitka	11.7	
3. Calista	11.3	
4. Bristol Bay	10.9	
5. Doyon	9.9	
Vascular Lesions of CNS		3.4
1. Ketchikan	44.5	
2. Juneau	32.4	
3. Sitka	32.2	
4. Bristol Bay	25.5	
5. Aleutians	24.4	
Accidents		47.7
1. Bering Straits	258.0	
2. Bristol Bay	204.0	
3. Koniag	191.8	
4. Calista	181.7	
5. Chugach	173.8	
6. Ahtna	160.9	
Homicide		9.1
1. Bering Straits	30.0	
2. Doyon	27.2	
3. Calista	19.7	
4. Nana	16.6	
5. Arctic Slope	13.1	
Suicide		13.3
1. Nana	78.8	
2. Bering Straits	57.0	
3. Wrangell-Petersburg	29.4	
4. Calista	23.9	
5. Doyon	21.0	
Alcoholism		2.4
1. Koniag	26.1	
2. Sitka	23.4	
3. Nana	20.7	
4. Ketchikan	19.8	
5. Bering Straits	18.0	

LEADING CAUSES OF DEATH BY AGE

Alaska and U.S. 1976 & 1977

(Average Annual Rate* per 100,000)

	Alaska	U.S.	% Difference
UNDER AGE 1			
1. Diseases of Early Infancy	546.3	778.6	Alaska 30% lower
2. Ill-Defined	362.2	174.3	Alaska 108% higher
3. Congenital Abnormalities	319.2	271.0	Alaska 18% higher
4. Influenza and Pneumonia	73.7	59.0	Alaska 25% higher
5. Accidents	55.2	39.2	Alaska 41% higher
All causes	1,540.8	1,540.3	Alaska <1% higher
AGE 1-4			
1. Accidents	56.5	27.6	Alaska 105% higher
2. Homicide	9.2	2.6	Alaska 254% higher
3. Congenital Abnormalities	6.1	8.9	Alaska 32% lower
3. Ill-Defined	6.1	2.6	Alaska 135% higher
All causes	109.9	69.4	Alaska 58% higher
AGE 5-14			
1. Accidents	23.9	17.2	Alaska 39% higher
2. Malignant Neoplasms	3.9	4.9	Alaska 20% lower
3. Homicide	2.2	1.2	Alaska 83% higher
3. Suicide	2.2	0.4	Alaska 450% higher
3. Congenital Abnormalities	2.2	2.0	Alaska 10% higher
3. Inflammatory Diseases of CNS	2.2	0.3	Alaska 633% higher
All causes	43.3	34.7	Alaska 25% higher
AGE 15-24			
1. Accidents	149.1	61.2	Alaska 144% higher
2. Suicide	32.1	12.6	Alaska 155% higher
3. Homicide	11.9	12.6	Alaska 6% lower
4. Malignant Neoplasms	7.1	6.5	Alaska 9% higher
5. Heart Disease & Hypertension	2.4	2.6	Alaska 8% lower
All causes	218.0	115.3	Alaska 89% higher

	Alaska	U.S.	% Difference
AGE 25-34			
1. Accidents	151.9	43.8	Alaska 247% higher
2. Suicide	36.6	16.8	Alaska 118% higher
3. Homicide	13.6	16.5	Alaska 17% lower
4. Malignant Neoplasms	9.5	14.5	Alaska 34% lower
5. Heart Disease & Hypertension	8.1	8.7	Alaska 7% lower
All causes	253.6	136.2	Alaska 86% higher
AGE 35-44			
1. Accidents	90.0	37.4	Alaska 141% higher
2. Heart Disease & Hypertension	36.0	50.7	Alaska 29% lower
3. Malignant Neoplasms	23.7	51.2	Alaska 54% lower
4. Cirrhosis of Liver	16.4	16.1	Alaska 2% higher
5. Homicide	14.7	14.4	Alaska 2% higher
All causes	243.0	250.8	Alaska 3% lower
AGE 45-54			
1. Malignant Neoplasms	127.8	182.2	Alaska 20% lower
2. Heart Disease & Hypertension	125.1	198.4	Alaska 37% lower
2. Accidents	125.1	40.1	Alaska 212% higher
3. Cirrhosis of Liver	46.2	34.4	Alaska 34% higher
4. Suicide	20.4	19.0	Alaska 7% higher
4. Homicide	20.4	9.9	Alaska 106% higher
All causes	589.9	627.8	Alaska 6% lower
AGE 55-64			
1. Heart Disease & Hypertension	469.5	544.9	Alaska 14% lower
2. Malignant Neoplasms	389.7	439.4	Alaska 11% lower
3. Accidents	168.3	47.8	Alaska 252% higher
4. Cirrhosis of Liver	67.9	46.5	Alaska 46% higher
5. Vascular Lesions of CNS	47.2	82.6	Alaska 43% lower
All causes	1,491.0	1,455.2	Alaska 3% higher
AGE 65+			
1. Heart Disease & Hypertension	1,801.9	2,383.3	Alaska 24% lower
2. Malignant Neoplasms	1,097.3	983.8	Alaska 12% higher
3. Vascular Lesions of CNS	433.2	676.2	Alaska 36% lower
4. Accidents	196.4	103.5	Alaska 90% higher
5. General Arteriosclerosis	179.0	119.3	Alaska 50% higher
All causes	4,880.2	5,357.7	Alaska 9% lower

AGE-SPECIFIC DEATH RATES

ALASKA & THE U.S. 1970

Age-Specific rate per 100,000

Age	Alaska	U.S.	Percent Difference In Age-Adjusted Rates
0 - 4 years	635.8	494.7	Alaska 29% higher
5 - 14 years	56.4	41.4	Alaska 36% higher
15 - 24 years	221.2	126.7	Alaska 75% higher
25 - 34 years	217.5	159.8	Alaska 36% higher
35 - 44 years	391.9	314.1	Alaska 12% higher
45 - 54 years	785.1	724.9	Alaska 8% higher
55 - 64 years	1657.1	1662.4	Alaska 1% lower
65 + years	5340.4	5890.1	Alaska 9% lower
All age groups	476.4	940.4	Alaska 49% lower

Alaska & U.S. 1977
(Age-Specific Rate per 100,000)

Age	Alaska	U.S.	
<1	1,480.1	1,485.6	Alaska <1% lower
1 - 4	106.3	68.8	Alaska 55% higher
5 - 14	39.4	34.6	Alaska 14% higher
15 - 24	207.4	117.1	Alaska 77% higher
25 - 34	268.5	136.2	Alaska 97% higher
35 - 44	255.8	247.5	Alaska 3% higher
45 - 54	549.4	620.7	Alaska 11% lower
55 - 64	1,450.1	1,434.9	Alaska 1% higher
65+	5,003.4	5,288.1	Alaska 5% lower
All Age Groups	390.6	878.1	Alaska 56% lower

Source: Office of Information Systems, Alaska Department of Health and Social Services, Alaska Vital Statistics for Health Systems Agencies, 1977. Office of State Health Planning and Development, Alaska Department of Health and Social Services, Unpublished Data, 1979. National Center for Health Statistics, U.S. DHEW, Monthly Vital Statistics Report, Final Mortality Statistics, 1977.

RESIDENT DEATHS BY CAUSE 1976
(Rate per 100,000)

RESIDENT DEATHS BY CAUSE 1977
(Rate per 100,000)

RESIDENT DEATHS BY CAUSE 1978
(Rate per 100,000)

ALASKA

1974	1975	CAUSE OF DEATH	HSA			PERCENT DIFFERENCE U.S.	HSA			PERCENT DIFFERENCE U.S.	HSA		
			SE	SC	N		SE	SC	N		SE	SC	N
2.3	1.5	Tuberculosis	2.0°	0.7°	1.2°	Alaska 33% lower	1.9°	0.4°	0.0°	Alaska 64% lower	0.0°	1.1°	0.0°
1.7	2.7	Other Infections	9.8	2.5	5.9	Alaska 35% lower	1.9°	3.9	4.1°	Alaska 45% lower	5.5°	10.0	14.6
1.1°	1.5	Inflammatory Disease of CNS	0.0°	3.2	2.4°	Alaska 27% lower	0.0°	1.6	2.7°	Alaska 50% lower	0.0°	3.1°	3.6°
0.3°	0.7°	Gastritis and Enteritis	0.0°	0.7°	0.0°	N/A	0.0°	0.0°	0.0°	N/A	0.0°	0.0°	0.0°
12.2	11.6	Influenza and Pneumonia	19.5	10.4	10.7	Alaska 60% lower	13.2	4.6	10.8	Alaska 71% lower	11.0	11.8	19.4
10.0	10.9	Other Respiratory	11.7	7.2	2.4°	N/A	11.3	8.1	4.1°	N/A	16.5	6.4	7.3
0.0°	0.0°	Maternal	0.0°	0.0°	0.0°	Alaska 100% lower	1.9°	0.0°	0.0°	No difference	0.0°	0.4°	0.0°
5.7	5.4	Congenital Abnormalities	9.8	9.0	8.3	Alaska 48% higher	11.3	6.7	10.8	Alaska 33% higher	7.4°	7.9	3.6°
19.1	12.6	Diseases of Early Infancy	5.9°	12.6	10.7	Alaska 2% lower	5.6°	9.9	14.9	Alaska 6% lower	18.4	12.5	8.5
14.0	12.6	Ill-Defined	9.8°	13.7	21.4	Alaska 3% higher	20.7	12.3	29.7	Alaska 13% higher	5.5°	14.3	18.2
83.7	64.7	Heart Disease and Hypertension	156.3	63.0	67.7	Alaska 78% lower	131.7	68.7	64.9	Alaska 77% lower	136.0	61.9	75.3
51.0	52.9	Malignant Neoplasms	95.8	50.0	53.5	Alaska 68% lower	88.4	58.1	50.0	Alaska 66% lower	90.1	65.4	53.5
4.3	3.5	Diabetes	5.9°	1.4°	5.9	Alaska 82% lower	1.9°	2.1	1.4°	Alaska 80% lower	3.7°	1.8	4.9°
27.1	16.3	Vascular Lesions of CNS	17.8	11.2	10.7	Alaska 82% lower	26.3	11.6	18.9	Alaska 82% lower	31.2	13	14.6
2.8	3.5	General Arteriosclerosis	17.6	0.7°	0.0°	Alaska 80% lower	26.3	2.5	8.1	Alaska 50% lower	5.5°	1.4°	4.9°
0.6°	0.5°	Chronic Nephritis	0.0°	0.4°	0.0°	Alaska 94% lower	0.0°	0.4°	0.0°	Alaska 94% lower	1.8°	0.4°	0.0°
10.5	12.1	Cirrhosis of Liver	19.5	13.7	3.6°	Alaska 16% lower	9.4	8.8	9.5	Alaska 37% lower	14.7	7.5	12.2
8.5	7.9	Other Degenerative	11.7	6.5	3.6°	N/A	18.8	9.5	6.8	N/A	20.2	8.2	6.1
110.8	101.3	Accidents	133.6	108.7	90.3	Alaska 122% higher	75.2	83.8	117.5	Alaska 80% higher	119.5	113.5	89.9
12.2	18.3	Suicide	15.6	18.0	10.7	Alaska 30% higher	22.6	21.5	21.6	Alaska 62% higher	16.5	15.7	7.3
9.7	6.4	Homicide	2.0°	15.1	9.5	Alaska 37% higher	0.0°	9.5	12.2	Alaska 3% lower	9.2	12.5	24.3
5.7	2.2	Other External Causes	3.9°	0.7°	15.4	Alaska 86% higher	11.3	8.1	20.3	Alaska 410% higher	3.7°	0.7°	27.9
10.0	11.4	Alcoholism	13.7	5.8	4.8°	Alaska 183% higher	18.8	4.2	12.2	Alaska 215% higher	7.4°	4.3	1.2°
14.8	13.6	All Other Causes	25.4	10.8	15.4	N/A	28.2	15.5	21.6	N/A	18.4	11.1	12.2
418.0	376.1	TOTAL	590.2	365.9	354.1	Alaska 5% lower	526.7	351.7	441.8	Alaska 56% lower	542.3	381.1	409.5

RESIDENT DEATHS BY CAUSE

ALASKA 1950 - 1978

SELECTED CAUSES OF DEATH	1950	1951	1952	1955	1956	1957	1960	1961	1962	1965	1966	1967	1970	1971	1972	1975	1976	1977	1978
Tuberculosis -----	177.0	145.7	97.4	24.4	22.7	24.6	8.8	8.1	7.8	5.3	3.7	3.6	3.0	1.6	1.5	1.5	1.0	.5	0.7
Other Infectious -----	31.1	18.9	17.3	7.7	19.1	7.4	6.1	12.7	14.4	9.4	6.2	5.3	3.6	3.9	5.6	2.7	4.1	3.6	10.3
Inflammatory Diseases of CNS -	6.7	6.7	5.1	2.3	2.7	4.0	3.9	5.5	6.6	3.4	3.3	5.3	1.3	1.3	1.5	1.5	2.7	1.7	1.4
Gastritis and Enteritis -----	5.2	3.7	4.1	3.6	5.8	6.6	10.5	5.5	6.2	9.8	1.5	3.2	1.6	.0	.9	.7	.5	0.0	0.0
Influenza and Pneumonia -----	57.0	40.2	25.5	29.4	36.8	39.5	43.4	31.0	27.1	25.9	22.7	13.9	17.9	17.0	11.8	11.6	11.6	6.8	13.2
Other Respiratory -----	9.6	13.4	12.8	18.6	14.5	15.8	12.7	6.4	14.0	14.7	9.5	8.5	13.2	13.8	6.8	10.9	6.8	7.8	7.9
Maternal -----	6.7	2.4	2.6	1.8	2.3	1.8	0.4	1.3	2.1	1.1	0.4	0.7	.7	.0	.0	.0	0	.2	0.2
Congenital Abnormalities -----	10.4	12.0	13.3	12.2	10.9	12.7	17.5	12.3	9.5	15.8	12.4	11.4	12.9	6.4	8.7	5.4	9.0	8.0	7.0
Diseases of Early Infancy -----	45.2	63.4	50.0	57.0	64.5	64.0	63.1	59.0	49.7	40.2	34.3	34.1	25.5	22.8	19.6	12.6	11.4	10.2	12.5
Ill Defined -----	34.8	41.5	32.1	25.3	21.4	21.1	19.7	21.2	18.5	12.0	10.6	22.8	14.2	8.8	13.3	12.6	14.8	16.5	13.9
Heart Disease and Hypertension	169.6	139.0	111.2	106.3	103.6	96.0	107.4	103.5	109.3	103.7	87.7	94.6	87.3	86.5	99.0	64.7	75.5	76.1	74.2
Malignant Neoplasms -----	66.7	43.9	42.3	39.4	47.7	50.0	50.9	54.7	50.6	62.8	54.4	54.4	61.5	65.3	65.0	52.9	56.4	60.6	66.3
Diabetes -----	3.0	2.4	3.1	2.7	3.6	3.5	3.9	3.8	3.3	2.6	3.7	3.9	2.6	3.5	2.2	3.5	2.9	1.9	2.6
Vascular Lesions of CNS -----	48.1	44.5	38.8	29.9	27.7	32.0	29.8	23.3	44.0	28.6	24.1	30.9	26.1	27.0	30.4	18.3	16.0	14.0	15.9
General Arteriosclerosis -----	5.9	8.5	4.1	3.6	2.7	6.1	8.3	12.7	11.5	9.4	8.0	9.6	7.6	3.2	6.2	3.5	2.7	6.6	2.6
Chronic Nephritis -----	3.7	4.3	4.1	5.9	3.2	4.4	2.2	3.8	3.3	1.1	1.1	2.8	1.6	.6	1.2	.5	.2	.2	0.5
Cirrhosis of Liver -----	5.2	9.1	8.7	5.4	5.9	7.0	6.1	3.4	9.9	7.9	8.0	5.7	11.2	11.5	11.8	12.1	12.3	9.0	9.4
Other Degenerative -----	12.6	11.0	12.2	12.2	10.0	12.7	10.5	10.2	9.9	16.5	7.1	11.0	13.9	10.9	12.1	7.9	6.5	10.2	9.4
Accidents* -----	155.6	149.4	117.3	127.9	109.1	103.9	100.4	107.3	95.4	104.5	125.7	90.7	116.7	128.6	104.9	103.5	108.4	99.5	114.8
Suicides -----	24.4	16.5	16.3	16.3	14.5	11.8	14.0	16.5	16.0	17.7	17.7	16.4	13.2	15.4	11.2	18.3	16.2	21.6	14.2
Homicides -----	12.6	9.1	6.6	7.2	10.5	8.8	8.8	10.2	4.5	8.6	9.5	10.0	10.6	8.4	9.6	6.4	12.3	8.8	14.4
Alcoholism -----	0.1	15.2	10.2	6.8	5.5	5.3	7.0	6.8	4.1	6.4	5.5	6.8	10.9	14.5	11.8	11.4	6.5	7.5	4.1
ALL OTHER CAUSES	40.7	39.0	24.0	18.1	17.7	21.1	18.9	24.2	20.1	18.8	20.1	15.6	15.9	15.4	19.2	13.6	13.5	18.2	12.2
TOTAL	940.0	840.0	659.2	566.1	563.6	561.0	554.6	544.3	537.6	526.1	487.0	461.1	473.3	467.7	455.4	376.1	391.3	390.6	407.8

Source: Office of Information Systems, Alaska Department of Health and Social Services, Alaska Vital Statistics, 1966, 1974-1977 and unpublished data 1977, 1978, 1979.

*Because Accidents and Other External Causes are grouped together in early Alaska mortality data, Accidents and Other External Causes are grouped together in this table.

LEADING CAUSES OF DEATH BY AGE

Alaska and U.S. 1976 & 1977

(Average Annual Rate* per 100,000)

	Alaska	U.S.	% Difference
UNDER AGE 1			
1. Diseases of Early Infancy	546.3	778.6	Alaska 30% lower
2. Ill-Defined	362.2	174.3	Alaska 108% higher
3. Congenital Abnormalities	319.2	271.0	Alaska 18% higher
4. Influenza and Pneumonia	73.7	59.0	Alaska 25% higher
5. Accidents	55.2	39.2	Alaska 41% higher
All causes	1,540.8	1,540.3	Alaska <1% higher
AGE 1-4			
1. Accidents	56.5	27.6	Alaska 105% higher
2. Homicide	9.2	2.6	Alaska 254% higher
3. Congenital Abnormalities	6.1	8.9	Alaska 32% lower
3. Ill-Defined	6.1	2.6	Alaska 135% higher
All causes	109.9	69.4	Alaska 58% higher
AGE 5-14			
1. Accidents	23.9	17.2	Alaska 39% higher
2. Malignant Neoplasms	3.9	4.9	Alaska 20% lower
3. Homicide	2.2	1.2	Alaska 83% higher
3. Suicide	2.2	0.4	Alaska 450% higher
3. Congenital Abnormalities	2.2	2.0	Alaska 10% higher
3. Inflammatory Diseases of CNS	2.2	0.3	Alaska 633% higher
All causes	43.3	34.7	Alaska 25% higher
AGE 15-24			
1. Accidents	149.1	61.2	Alaska 144% higher
2. Suicide	32.1	12.6	Alaska 155% higher
3. Homicide	11.9	12.6	Alaska 6% lower
4. Malignant Neoplasms	7.1	6.5	Alaska 9% higher
5. Heart Disease & Hypertension	2.4	2.6	Alaska 8% lower
All causes	218.0	115.3	Alaska 89% higher

	Alaska	U.S.	% Difference
AGE 25-34			
1. Accidents	51.9	43.8	Alaska 247% higher
2. Suicide	36.6	16.8	Alaska 118% higher
3. Homicide	13.6	16.5	Alaska 17% lower
4. Malignant Neoplasms	9.5	14.5	Alaska 34% lower
5. Heart Disease & Hypertension	5.1	8.7	Alaska 7% lower
All causes	253.6	136.2	Alaska 86% higher
AGE 35-44			
1. Accidents	90.0	37.4	Alaska 141% higher
2. Heart Disease & Hypertension	36.0	50.7	Alaska 29% lower
3. Malignant Neoplasms	23.7	51.2	Alaska 54% lower
4. Cirrhosis of Liver	16.4	16.1	Alaska 2% higher
5. Homicide	14.7	14.4	Alaska 2% higher
All causes	243.0	250.8	Alaska 3% lower
AGE 45-54			
1. Malignant Neoplasms	127.8	182.2	Alaska 20% lower
2. Heart Disease & Hypertension	125.1	198.4	Alaska 37% lower
2. Accidents	125.1	40.1	Alaska 212% higher
3. Cirrhosis of Liver	46.2	34.4	Alaska 34% higher
4. Suicide	20.4	9.0	Alaska 7% higher
4. Homicide	20.4	9.9	Alaska 106% higher
All causes	589.9	627.8	Alaska 6% lower
AGE 55-64			
1. Heart Disease & Hypertension	469.5	544.9	Alaska 14% lower
2. Malignant Neoplasms	389.7	439.4	Alaska 11% lower
3. Accidents	168.3	47.8	Alaska 252% higher
4. Cirrhosis of Liver	67.9	46.5	Alaska 46% higher
5. Vascular Lesions of CNS	47.2	82.6	Alaska 43% lower
All causes	1,491.0	1,455.2	Alaska 3% higher
AGE 65+			
1. Heart Disease & Hypertension	1,801.9	2,383.3	Alaska 24% lower
2. Malignant Neoplasms	1,097.3	983.8	Alaska 12% higher
3. Vascular Lesions of CNS	433.2	676.2	Alaska 36% lower
4. Accidents	196.4	103.5	Alaska 90% higher
5. General Arteriosclerosis	179.0	119.3	Alaska 50% higher
All causes	4,880.2	5,357.7	Alaska 9% lower

ALASKA & THE U.S. 1970

Age-specific rate per 100,000

Age	Alaska	U.S.	Percent Difference In Age-Adjusted Rates
0 - 4 years	635.8	494.7	Alaska 29% higher
5 - 14 years	56.4	41.4	Alaska 36% higher
15 - 24 years	221.2	126.7	Alaska 75% higher
25 - 34 years	217.5	159.8	Alaska 36% higher
35 - 44 years	351.9	314.1	Alaska 12% higher
45 - 54 years	785.1	724.9	Alaska 8% higher
55 - 64 years	1657.1	1662.4	Alaska 1% lower
65 + years	5340.4	5890.1	Alaska 9% lower
All age groups	476.4	940.4	Alaska 49% lower

Alaska & U.S. 1977
(Age-Specific Rate per 100,000)

Age	Alaska	U.S.	
<1	1,480.1	1,485.6	Alaska <1% lower
1 - 4	106.3	68.8	Alaska 55% higher
5 - 14	39.4	34.6	Alaska 14% higher
15 - 24	207.4	117.1	Alaska 77% higher
25 - 34	268.5	136.2	Alaska 97% higher
35 - 44	255.8	247.5	Alaska 3% higher
45 - 54	549.4	620.7	Alaska 11% lower
55 - 64	1,450.1	1,434.9	Alaska 1% higher
65+	5,003.4	5,288.1	Alaska 5% lower
All Age Groups	390.6	878.1	Alaska 56% lower

Source: Office of Information Systems, Alaska Department of Health and Social Services, Alaska Vital Statistics for Health Systems Agencies, 1977. Office of State Health Planning and Development, Alaska Department of Health and Social Services, Unpublished Data, 1979. National Center for Health Statistics, U.S. CHER, Monthly Vital Statistics Report, Final Mortality Statistics, 1977.

RESIDENT DEATHS BY CAUSE 1976

(Rate per 100,000)

RESIDENT DEATHS BY CAUSE 1977

(Rate per 100,000)

RESIDENT DEATHS BY CAUSE 1978

(Rate per 100,000)

ALASKA

1974	1975	CAUSE OF DEATH	HSA			PERCENT DIFFERENCE U.S.	HSA			PERCENT DIFFERENCE U.S.	HSA		
			SE	SC	N		SE	SC	N		SE	SC	N
2.3	1.5	Tuberculosis	2.0°	0.7°	1.2°	Alaska 33% lower	1.9°	0.4°	0.0°	Alaska 64% lower	0.0°	1.1°	0.0°
1.7	2.7	Other Infections	9.8	2.5	5.9	Alaska 35% lower	1.5°	3.2°	4.1°	Alaska 45% lower	5.5°	10.0	14.6
1.1°	1.5	Inflammatory Disease of CNS	0.0°	3.2	2.4°	Alaska 27% lower	0.0°	1.8	2.7°	Alaska 50% lower	0.0°	1.1°	3.6°
0.3°	0.7°	Gastritis and Enteritis	0.0°	0.7°	0.0°	N/A	0.0°	0.0°	0.0°	N/A	0.0°	0.0°	0.0°
12.2	11.6	Influenza and Pneumonia	19.5	10.4	10.7	Alaska 60% lower	13.2	4.6	10.8	Alaska 71% lower	11.0	11.8	19.4
10.0	10.9	Other Respiratory	11.7	7.2	2.4°	N/A	11.3	8.1	4.1°	N/A	16.5	6.4	7.3
0.0°	0.0°	Maternal	0.0°	0.0°	0.0°	Alaska 100% lower	1.9°	0.0°	0.0°	No difference	0.0°	0.4°	0.0°
5.7	5.4	Congenital Abnormalities	9.8	9.0	8.3	Alaska 48% higher	11.3	6.7	10.8	Alaska 33% higher	7.4°	7.9	3.6°
19.1	12.6	Diseases of Early Infancy	5.9°	12.6	10.7	Alaska 2% lower	5.6°	9.9	14.9	Alaska 6% lower	18.4	12.5	8.5
14.0	12.6	Ill-Defined	9.8°	13.7	21.4	Alaska 3% higher	20.7	12.3	29.7	Alaska 11% higher	5.5°	14.3	18.2
83.7	64.7	Heart Disease and Hypertension	156.3	63.0	67.7	Alaska 78% lower	131.7	68.7	64.9	Alaska 77% lower	136.0	61.9	75.3
51.0	52.9	Malignant Neoplasms	95.8	50.0	53.5	Alaska 68% lower	88.4	58.1	50.0	Alaska 66% lower	90.1	65.4	53.5
4.3	3.5	Diabetes	5.0°	1.4°	5.9	Alaska 82% lower	1.9°	2.1	1.4°	Alaska 80% lower	3.7°	1.8	4.9°
27.1	18.3	Vascular Lesions of CNS	50.8	11.2	10.7	Alaska 82% lower	26.3	11.6	18.9	Alaska 82% lower	31.2	13.2	14.6
2.8	3.5	General Arteriosclerosis	17.6	0.7°	0.0°	Alaska 86% lower	26.3	2.5	2.1	Alaska 50% lower	5.5°	1.4°	4.9°
0.6°	0.5°	Chronic Nephritis	0.0°	0.4°	0.0°	Alaska 94% lower	0.0°	0.4°	0.0°	Alaska 94% lower	1.8°	0.4°	0.0°
10.5	12.1	Cirrhosis of Liver	19.5	13.7	3.6°	Alaska 16% lower	9.4	8.8	9.5	Alaska 37% lower	14.7	7.5	17.2
8.5	7.9	Other Degenerative	11.7	6.5	3.6°	N/A	18.8	9.5	6.8	N/A	20.7	8.2	6.1
110.8	101.3	Accidents	103.6	108.7	90.3	Alaska 122% higher	75.2	83.8	117.5	Alaska 86% higher	119.5	111.5	89.9
12.2	18.3	Suicide	15.6	18.0	10.7	Alaska 30% higher	22.6	21.5	21.6	Alaska 62% higher	16.3	15.7	7.3
9.7	8.4	Homicide	2.0°	15.1	9.5	Alaska 37% higher	0.0°	9.5	12.2	Alaska 3% lower	9.2	12.5	24.3
5.7	2.2	Other External Causes	3.9°	0.7°	15.4	Alaska 86% higher	11.3	8.1	20.3	Alaska 410% higher	3.7°	0.7°	27.9
10.0	11.4	Alcoholism	13.7	5.8	4.8°	Alaska 183% higher	18.8	4.2	12.2	Alaska 212% higher	7.4°	4.3	1.2°
14.8	13.6	All Other Causes	25.4	10.8	15.4	N/A	28.2	15.5	21.6	N/A	18.4	11.1	12.2
418.0	376.1	TOTAL	590.2	365.9	354.1	Alaska 56% lower	526.7	351.7	441.8	Alaska 56% lower	542.3	381.1	409.5

RESIDENT DEATHS BY CAUSE

ALASKA 1950 - 1978

SELECTED CAUSES OF DEATH	1950	1951	1952	1955	1956	1957	1960	1961	1962	1965	1966	1967	1970	1971	1972	1975	1976	1977	1978
Tuberculosis -----	177.0	145.7	97.4	24.4	22.7	24.6	8.8	8.1	7.8	5.3	3.7	3.6	3.0	1.6	1.5	1.5	1.0	.5	0.7
Other Infectious -----	31.1	18.9	17.3	7.7	19.1	7.4	6.1	12.7	14.4	9.4	6.2	5.3	3.6	3.9	5.6	2.7	4.1	3.6	10.3
Inflammatory Diseases of CNS -	6.7	6.7	5.1	2.3	2.7	4.8	3.9	5.5	6.6	3.4	3.3	5.3	1.3	1.3	1.5	1.5	2.7	1.7	1.4
Gastritis and Enteritis -----	5.2	3.7	4.1	3.6	6.8	6.6	10.5	5.5	6.2	9.8	1.5	3.2	1.6	.0	.9	.7	.5	0.0	0.0
Influenza and Pneumonia -----	57.0	40.2	25.5	29.4	36.8	39.5	43.4	31.0	27.1	25.9	22.7	13.9	17.9	17.0	11.8	11.6	11.6	6.8	13.2
Other Respiratory -----	9.6	13.4	12.0	18.6	14.5	15.0	12.7	6.4	14.0	14.7	9.5	8.5	13.2	13.8	6.8	10.9	6.8	7.8	7.9
Maternal -----	6.7	2.4	2.6	1.8	2.3	1.8	0.4	1.3	2.1	1.1	0.4	0.7	.7	.0	.0	.0	0	.2	0.2
Congenital Abnormalities -----	10.4	12.0	13.3	12.2	10.9	12.7	17.5	12.3	9.5	15.8	12.4	11.4	12.9	6.4	8.7	5.4	9.0	8.0	7.0
Diseases of Early Infancy -----	45.2	63.4	50.0	57.0	64.5	64.0	63.1	59.8	49.7	40.2	34.3	34.1	25.5	22.8	19.6	12.6	11.4	10.2	12.5
Ill Defined -----	34.8	41.5	32.1	25.3	21.4	21.1	19.7	21.2	18.5	12.0	18.6	22.8	14.2	8.8	13.3	12.6	14.8	16.5	13.9
Heart Disease and Hypertension	169.6	139.0	111.2	106.3	103.6	96.0	107.4	103.5	109.3	103.7	87.7	94.6	87.3	86.5	99.0	64.7	75.5	76.1	74.2
Malignant Neoplasms -----	66.7	43.9	42.3	39.4	47.7	50.0	50.9	54.7	50.6	62.8	54.4	54.4	61.5	65.3	65.8	52.9	56.4	60.6	66.3
Diabetes -----	3.0	2.4	3.1	2.7	3.6	3.5	3.9	3.8	3.3	2.6	3.7	3.9	2.6	3.5	2.2	3.5	2.9	1.9	2.6
Vascular Lesions of CNS -----	48.1	44.5	38.8	29.9	27.7	32.0	29.8	23.3	44.0	28.6	24.1	30.9	26.1	27.0	30.4	18.3	16.0	14.8	15.9
General Arteriosclerosis -----	5.9	8.5	4.1	3.6	2.7	6.1	8.3	12.7	11.5	9.4	0.0	9.6	7.6	3.2	5.2	3.5	2.7	6.6	2.6
Chronic Nephritis -----	3.7	4.3	4.1	5.9	3.2	4.4	2.2	3.8	3.3	1.1	1.1	2.8	1.6	.6	1.2	.5	.2	.2	0.5
Cirrhosis of Liver -----	5.2	9.1	8.7	5.4	5.9	7.0	6.1	3.4	9.9	7.9	8.0	5.7	11.2	13.5	11.8	12.1	12.3	9.0	9.4
Other Degenerative -----	12.6	11.0	12.2	12.2	10.0	12.7	10.5	10.2	9.9	16.5	9.1	11.0	13.9	10.9	12.1	7.9	6.5	10.2	9.4
Accidents* -----	155.0	149.4	117.3	129.9	109.1	103.9	100.4	107.3	95.4	104.5	125.7	90.7	116.7	128.6	104.9	103.5	108.4	99.5	114.8
Suicides -----	24.4	16.5	16.3	16.3	14.5	11.8	14.0	16.5	16.0	17.7	17.7	16.4	13.2	15.4	11.2	18.3	16.2	21.6	14.2
Homicides -----	12.6	9.1	6.6	7.2	10.5	8.8	8.8	10.2	4.5	8.6	9.5	10.0	10.6	8.4	9.6	6.4	12.3	8.8	14.4
Alcoholism -----	0.1	15.2	10.2	6.8	5.5	5.3	7.0	6.8	4.1	6.4	5.5	6.8	10.9	14.5	11.8	11.4	6.5	7.5	4.1
ALL OTHER CAUSES	40.7	39.0	24.0	18.1	17.7	21.1	18.9	24.2	20.1	18.8	20.1	15.6	15.9	15.4	19.2	13.6	13.5	18.2	12.2
TOTAL	940.0	840.0	659.2	566.1	563.6	561.0	554.6	544.3	537.6	526.1	487.0	461.1	473.3	467.7	455.4	376.1	391.3	390.6	407.8

Source: Office of Information Systems, Alaska Department of Health and Social Services, Alaska Vital Statistics, 1966, 1974-1977 and unpublished data 1977, 1978, 1979.

*Because Accidents and Other External Causes are grouped together in early Alaska mortality data, Accidents and Other External Causes are grouped together in this table.

RESIDENT DEATHS BY ACCIDENT

Alaska 1974-1978

(Rate per 100,000)

TYPE OF ACCIDENT	1974	1975	1976	1977	1978	U.S. 1977
Other Transport	0.0*	0.0*	0.2*	0.2*	0.2*	0.4
Motor Vehicle	20.5	29.4	27.6	32.3	29.1	22.9
Water Transport--Drown	8.3	12.1	7.7	7.5	14.4	0.6
Water Transport--Other	0.6*	0.5*	1.0*	0.2*	0.5*	0.0
Aircraft	14.5	16.8	14.5	10.2	23.8	0.8
Poisoning	4.0	5.2	5.1	2.7	3.6	2.2
Falls	6.3	3.0	5.6	5.8	4.1	6.4
Fire	10.5	5.4	5.6	5.4	4.8	2.9
Exposure	1.1*	2.5	3.6	2.9	1.7	0.3
Other Environment	6.8	3.0	1.5	1.0*	2.2	0.5
Drown--Non-transport	13.7	9.1	10.6	8.8	8.2	2.8
Suffocation	2.8	2.5	1.7	0.5*	2.2	1.4
Firearms	8.3	4.0	5.8	2.4	4.1	0.9
Other Accidents	13.4	7.9	13.8	8.8	9.6	5.5
TOTAL ALL ACCIDENTS	110.8	101.3	104.3	88.8	108.3	47.7

Source: Office of Information Systems, Alaska Department of Health and Social Services, Unpublished Data.

RESIDENT DEATHS BY CAUSE BY RACE

Alaska Natives

1976-1978

	Alaska Natives				NON-NATIVES					TOTAL ALL RACES
	Number of Deaths			Rate per 100,000 Two Year Average 1977 and 1978	Number of Deaths			Rate per 100,000 Two Year Average 1977 and 1978	Rate per 100,000 Two Year Average 1977 and 1978	
	1976	1977	1978		1976	1977	1978			
Tuberculosis	2	2	2	2.9*	Tuberculosis	2	0	1	0.1*	0.6
Other Infections	8	6	16	16.0	Other Infections	9	8	26	4.9	7.0
Inflammatory Diseases of CNS	7	5	0	3.6	Inflammatory Diseases of CNS	4	2	6	1.2	1.6
Gastritis and Enteritis	1	0	0	0.0*	Gastritis and Enteritis	1	0	0	0.0*	0.0*
Influenza and Pneumonia	26	8	25	24.1	Influenza and Pneumonia	22	20	29	7.1	10.0
Other Respiratory	9	7	10	12.4	Other Respiratory	19	25	23	7.0	7.9
Maternal	0	0	0	0.0*	Maternal	0	1	1	0.3*	0.2*
Congenital Abnormalities	9	6	4	7.3	Congenital Abnormalities	28	26	25	7.4	7.5
Diseases of Early Infancy	21	10	13	16.8	Diseases of Early Infancy	26	32	39	10.3	11.4
Ill-Defined	26	27	17	32.1	Ill-Defined	34	41	40	11.7	15.2
Heart Disease and Hypertension	69	57	65	89.0	Heart Disease and Hypertension	243	256	244	72.4	75.2
Malignant Neoplasms	55	60	54	83.2	Malignant Neoplasms	178	188	222	59.4	63.4
Diabetes	2	1	1	1.5*	Diabetes	10	7	10	2.5	2.3
Vascular Lesions of CNS	15	19	13	23.3	Vascular Lesions of CNS	51	42	53	13.8	15.3
General Arteriosclerosis	3	4	2	4.4	General Arteriosclerosis	8	23	9	4.6	4.6
Chronic Nephritis	1	0	1	0.7*	Chronic Nephritis	0	1	1	0.3*	0.4*
Cirrhosis of Liver	19	10	12	16.0	Cirrhosis of Liver	32	27	27	7.8	9.2
Other Degenerative	7	15	6	15.3	Other Degenerative	20	27	33	8.7	9.8
Accidents	131	110	122	169.2	Accidents	298	255	328	84.4	98.6
Suicide	21	25	13	27.7	Suicide	46	64	46	15.9	17.9
Homicide	20	11	25	26.3	Homicide	31	25	35	8.7	11.6
Other External Causes	9	23	7	21.9	Other External Causes	10	21	20	5.9	8.6
Alcoholism	22	17	10	19.7	Alcoholism	5	14	7	3.0	5.8
All Other Causes	14	24	19	31.4	All Other Causes	40	51	32	11.0	15.2
TOTAL	497	447	437	644.8	TOTAL	1,137	1,156	1,257	349.5	399.2

*Rate based on number less than 5.

Source: Office of Information Systems, Alaska Dept. of Health and Social Services, Alaska Vital Statistics, 1976 and 1977, and the Alaska Dept. of Health, 1978.

MALE 1976-1977	Number of Deaths			Rate per 100,000 Two Year Average 1977 and 1978		FEMALE			Rate per 100,000 Two Year Average 1977 and 1978	TOTAL BOTH SEXES	
	1976	1977	1978			Number of Deaths				Rate per 100,000 Two Year Average 1977 and 1978	Rate per 100,000 Two Year Average 1977 and 1978
						1976	1977	1978			
Tuberculosis	3	1	0	0.2*	Tuberculosis	1	1	3	1.1*	0.6	
Other Infections	6	5	27	7.1	Other Infections	9	10	16	6.9	7.0	
Inflammatory Diseases of CNS	8	4	2	1.3	Inflammatory Diseases of CNS	3	3	4	1.9	1.6	
Gastritis and Enteritis	0	0	0	0.0*	Gastritis and Enteritis	2	0	0	0.0*	0.0*	
Influenza and Pneumonia	30	20	35	12.2	Influenza and Pneumonia	18	8	20	7.4	10.0	
Other Respiratory	18	17	18	7.8	Other Respiratory	10	15	15	7.9	7.9	
Maternal	-	-	-	-	Maternal	0	1	1	0.5*	0.2*	
Congenital Abnormalities	15	12	10	4.9	Congenital Abnormalities	18	21	19	10.6	7.5	
Diseases of Early Infancy	31	27	37	14.2	Diseases of Early Infancy	16	15	15	7.9	11.4	
Ill-Defined	38	41	33	16.5	Ill-Defined	23	27	25	13.8	15.2	
Heart Disease and Hypertension	212	222	210	96.0	Heart Disease and Hypertension	100	91	99	50.3	75.2	
Malignant Neoplasms	133	133	159	64.9	Malignant Neoplasms	100	116	117	61.7	63.4	
Diabetes	8	3	6	2.0	Diabetes	4	5	5	2.6	2.3	
Vascular Lesions of the CNS	29	34	30	14.2	Vascular Lesions of CNS	37	27	36	16.7	15.3	
General Arteriosclerosis	6	18	7	5.6	General Arteriosclerosis	5	9	4	3.4	4.6	
Chronic Nephritis	0	0	2	0.4*	Chronic Nephritis	1	1	0	0.3*	0.4*	
Cirrhosis of Liver	33	17	26	9.6	Cirrhosis of Liver	18	20	13	8.7	9.2	
Other Degenerative	16	22	23	10.0	Other Degenerative	11	20	16	9.5	9.8	
Accidents	336	287	357	143.2	Accidents	95	78	94	45.5	98.6	
Suicide	51	73	50	27.3	Suicide	16	16	9	6.6	17.9	
Homicide	43	28	42	15.6	Homicide	8	8	18	6.9	11.6	
Other External Causes	13	32	22	12.0	Other External Causes	4	17	5	4.1	8.6	
Alcoholism	15	21	8	6.4	Alcoholism	12	10	9	5.0	5.8	
All Other Causes	38	43	22	14.5	All Other Causes	18	32	29	16.1	15.2	
TOTAL	1,088	1,060	1,126	486.0	TOTAL	529	546	572	295.9	299.2	

*Rate based on number less than 5.

Source: Office of Information Systems, Alaska Dept. of Health and Social Services, Alaska Vital Statistics, 1976 and 1977; and Unpublished Data, 1978. Population by sex derived by applying 1978 sex ratio to 1977 and 1978 total population.