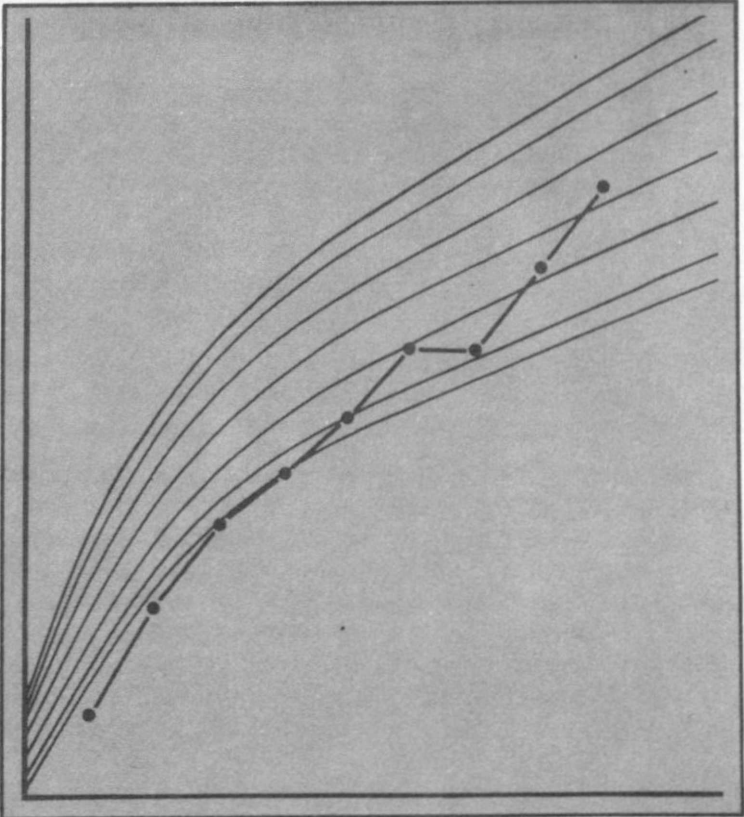


ANNUAL SUMMARY 1978

CENTER FOR DISEASE CONTROL

# NUTRITION

## SURVEILLANCE



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## PREFACE

This report summarizes information, including selected indices of nutrition status, received from 17 participating states which comprise a group of contributors to a developing program of nutrition surveillance in the United States. We will consider adding other indices as their utility and availability become evident. To the extent possible, tabulations in subsequent issues will be presented in the same format unless experience indicates a change is appropriate.

The data presented in these tabulations come from a variety of sources including health department clinics, WIC screening, Headstart programs, and other health care situations. Because of the lack of uniformity of data sources, as well as methodology, direct comparisons among states should be made with caution.

Contributions to NUTRITION SURVEILLANCE are welcome. Please submit to:

Center for Disease Control  
Attention: Nutrition Division, BSE  
Atlanta, Georgia 30333

Center for Disease Control . . . . . William H. Foege, M.D.  
Director

## NUTRITION INDICES

Data presented in Tables 1-6 represent children examined during the third and fourth quarters of 1978. Data presented in Tables 7-9b represent children examined during the first and second halves of 1978. They reflect initial visits to the health system and do not represent either the results of nutrition intervention or the nutritional status of the general population.

### CRITERIA FOR IDENTIFYING INDIVIDUALS WITH LOW OR HIGH VALUES

1. Low Hemoglobin and Low Hematocrit: Hemoglobin or hematocrit below the level specified in the following table for appropriate age and sex.

<u>Age</u>	<u>Hgb.</u>	<u>Hct.</u>
6-23 months	10 grams	31%
2-5 years	11 grams	34%
6-14 years	12 grams	37%
15 or more years (females)	12 grams	37%
15 or more years (males)	13 grams	40%

2. Low Height-For-Age: Height-for-age less than the 5th percentile of a person of the same sex and age in the reference population.
3. Low Weight-For-Age: Weight-for-age less than the 5th percentile of a person of the same sex and age in the reference population.
4. Low Weight-For-Height: Weight-for-height less than the 5th percentile of a person of the same sex and height in the reference population.
5. High Weight-For-Height: Weight-for-height greater than the 95th percentile of a person of the same sex and height in the reference population.

Reference Population: Smoothed distribution of percentiles of the following populations:

<u>Age</u>	<u>Reference Population Data</u>
Birth - 24 months	Fels Research Institute Growth Study
25 - 59 months	First Health and Nutrition Examination Survey (HANES)
60 -143 months	National Health Examination Survey, Cycle II; and HANES
144 -215 months	National Health Examination Survey, Cycle III; and HANES

Note: Growth percentiles represent heights and weights which have been standardized for sex and age, and sex and height (for weight-for-height). Therefore, height and weight comparisons may be made between groups of individuals using percentiles without being concerned about the age and sex distributions of groups being compared. However, comparisons of height and weight among groups with persons of diverse ethnic origins should be made with care because of possible genetic differences in growth potential. Differences observed between groups may be due to differences in nutritional status of the individuals or in possible differences in the ethnic makeup of the groups.

Table 1

Nutrition Indices by State, July-September 1978  
Persons Less than 18 Years of Age

State	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
Alabama	-	-	110	4.5	402	8.7	404	5.7	227	7.5	3.5
Arizona	1,241	6.4	2,201	15.7	4,531	10.8	4,561	8.2	2,776	5.4	10.1
California (Los Angeles County)		-	27	37.0	27	14.8	27	7.4	24	4.2	16.7
Colorado	2	-	209	12.9	385	15.8	385	10.4	290	2.4	3.8
Florida	626	25.7	711	29.8	1,953	10.1	1,995	7.9	1,438	6.9	7.7
Illinois	99	16.2	66	12.1	137	17.5	135	13.3	135	5.9	9.6
Kentucky	1,718	17.4	2,603	19.0	7,263	9.9	7,323	6.9	5,474	5.1	8.4
Louisiana	2,142	18.6	844	20.0	3,566	9.6	3,606	6.6	2,564	4.6	7.3
Michigan		-		-	28,683	7.6	28,617	5.2	19,632	3.1	6.5
Minnesota	154	9.1	205	7.3	545	8.6	588	7.5	423	5.4	9.0
Montana	9	11.1	676	16.0	1,102	9.2	1,043	6.8	928	3.0	7.2
New Jersey	10	10.0	80	48.7	163	23.9	166	10.8	118	5.1	15.3
Ohio	1,174	10.1	1,517	18.3	3,697	8.7	3,732	6.2	2,895	3.8	6.7
Oregon	174	12.6	1,622	13.4	2,776	11.4	2,788	7.2	2,419	3.8	8.9
Tennessee	87	5.7	5,444	19.1	7,798	11.0	7,886	6.9	6,054	4.4	9.4
Washington	186	18.3	2,124	18.5	3,199	11.0	3,198	6.2	2,610	3.6	10.5
Wisconsin	35	20.0	210	9.5	282	9.2	268	5.2	256	2.0	13.7
Total	7,657	15.1	18,649	18.1	66,509	9.2	66,722	6.3	48,263	4.0	7.8

Table 2

Nutrition Indices by Sex and Ethnic Group, July-September 1978  
Persons Less than 18 Years of Age

Sex and Ethnic Group	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
<b>Male</b>											
White	2,031	12.6	6,082	17.2	19,762	10.1	19,836	6.9	15,647	3.6	7.4
Black	1,215	22.4	1,789	22.2	9,972	8.6	10,037	6.0	7,321	4.6	6.1
Sp. American	417	7.9	940	16.5	2,259	11.1	2,239	5.6	1,716	3.4	10.0
Am. Indian	38	7.9	370	18.6	958	9.9	955	7.1	692	4.6	11.4
Oriental	21	4.8	131	6.9	194	18.0	197	13.7	171	5.8	7.0
Other	9	-	51	17.6	216	14.8	217	10.6	171	4.7	6.4
Unknown	9	-	29	10.3	53	5.7	53	5.7	41	4.9	7.3
Total	3,740	15.1	9,392	18.0	33,414	9.8	33,534	6.6	25,759	3.9	7.3
<b>Female</b>											
White	2,070	11.8	5,831	17.1	19,184	9.2	19,216	6.4	13,672	3.8	8.0
Black	1,292	22.5	1,801	21.1	10,189	6.5	10,238	4.8	6,372	4.6	7.5
Sp. American	449	8.7	981	20.0	2,239	10.4	2,245	5.9	1,481	3.2	11.4
Am. Indian	56	21.4	437	21.5	1,005	11.8	1,007	6.7	622	4.8	16.2
Oriental	24	16.7	134	10.4	194	17.0	198	14.1	165	2.4	15.2
Other	14	7.1	41	12.2	224	17.0	222	6.8	146	3.4	8.9
Unknown	12	-	32	3.1	60	11.7	62	6.5	46	2.2	2.2
Total	3,917	15.1	9,257	18.2	33,095	8.6	33,188	5.9	22,504	4.0	8.3

Table 3

Nutrition Indices by Sex and Age, July-September 1978  
Persons Less than 18 Years of Age

Sex and Age Group	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
<b>Male</b>											
< 1	561	8.6	1,365	9.2	9,224	12.5	9,319	7.2	6,344	4.6	8.6
1	739	11.8	2,045	8.2	3,632	14.2	3,667	8.6	3,623	5.8	10.0
2 - 5	1,555	18.3	4,270	23.1	9,893	8.8	9,932	6.8	9,886	3.2	6.6
6 - 9	390	19.0	943	28.7	4,880	5.8	4,841	4.2	4,777	3.3	5.4
10 - 12	217	18.9	366	22.4	2,831	7.1	2,831	5.0	1,129	3.3	5.6
13 - 17	278	10.8	403	14.4	2,954	8.2	2,944	7.5	-	-	-
Total	3,740	15.1	9,392	18.0	33,414	9.8	33,534	6.6	25,759	3.9	7.3
<b>Female</b>											
< 1	585	6.7	1,347	7.7	8,807	9.9	8,847	6.2	5,593	5.0	8.4
1	733	11.7	1,899	8.2	3,496	10.6	3,518	6.7	3,464	4.5	11.1
2 - 5	1,448	16.8	3,948	21.4	9,358	9.6	9,390	7.1	9,326	3.4	7.9
6 - 9	376	22.9	854	31.4	4,652	5.7	4,646	4.4	4,086	3.5	6.8
10 - 12	223	16.1	381	18.1	2,950	6.7	2,945	5.4	35	-	5.7
13 - 17	552	18.3	828	29.7	3,832	6.6	3,842	3.7	-	-	-
Total	3,917	15.1	9,257	18.2	33,095	8.6	33,188	5.9	22,504	4.0	8.3

Nutrition Indices by State, October-December 1978  
Persons Less than 18 Years of Age

State	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
Alabama	-	-	90	7.8	379	11.3	382	6.3	196	2.6	8.7
Arizona	411	3.6	709	11.4	1,600	12.1	1,594	8.7	986	5.0	10.6
California	-	-	20	30.0	20	-	20	-	20	-	15.0
Colorado	4	100.0	253	8.3	439	15.9	439	10.5	325	4.6	7.4
Florida	779	18.5	804	26.6	2,245	8.6	2,287	6.6	1,771	8.5	10.5
Kentucky	1,342	14.8	2,040	23.1	6,319	10.7	6,374	6.1	4,630	4.1	9.4
Louisiana	2,157	15.6	771	16.5	3,702	10.0	3,744	6.3	2,499	3.1	9.4
Michigan	-	-	-	-	24,176	8.0	24,133	5.1	16,776	2.5	7.4
Minnesota	296	7.4	346	7.2	644	9.8	673	8.3	468	3.4	8.8
Montana	4	-	447	11.4	727	8.3	711	4.4	610	2.0	8.7
New Jersey	158	4.4	141	39.0	583	15.8	600	12.3	447	6.7	11.6
Ohio	1,181	9.4	1,776	15.8	4,375	8.5	4,385	5.9	3,785	4.1	8.0
Oregon	245	13.1	1,266	14.0	2,410	11.0	2,415	7.5	2,072	3.1	9.8
Tennessee	82	6.1	4,903	17.9	7,345	10.8	7,424	5.6	5,715	2.8	10.7
Washington	210	21.9	2,250	20.9	3,252	10.5	3,256	6.5	2,713	3.0	11.1
Wisconsin	94	8.5	537	9.7	1,085	8.6	1,062	5.0	998	1.3	9.2
Total	6,963	13.3	16,353	17.8	59,301	9.4	59,499	5.9	44,011	3.3	8.9

Table 5

Nutrition Indices by Sex and Ethnic Group, October-December 1978  
Persons Less than 18 Years of Age

Sex and Ethnic Group	<u>Hemoglobin</u>		<u>Hematocrit</u>		<u>Height-for-Age</u>		<u>Weight-for-Age</u>		<u>Weight-for-Height</u>		
	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
<b>Male</b>											
White	1,940	11.8	5,335	17.2	18,097	10.0	18,153	6.1	14,549	3.0	8.3
Black	1,251	16.1	1,708	21.2	8,978	9.2	9,015	5.4	6,588	4.1	7.2
Sp. American	228	10.5	569	24.6	1,568	12.4	1,554	6.1	1,185	2.4	10.6
Am. Indian	55	7.3	301	12.0	594	10.3	587	5.8	483	1.7	15.5
Oriental	27	25.9	207	9.7	287	21.3	295	15.6	262	3.4	6.9
Other	7	-	47	21.3	198	20.2	200	14.0	156	6.4	7.1
Unknown	13	-	32	21.9	74	10.8	77	11.7	64	7.8	3.1
Total	3,521	13.2	8,199	18.2	29,796	10.1	29,881	6.1	23,287	3.3	8.2
<b>Female</b>											
White	1,830	11.4	5,194	16.1	17,507	9.0	17,595	5.8	12,839	2.9	9.3
Black	1,286	16.7	1,844	20.8	9,369	7.0	9,417	5.3	6,013	4.1	8.8
Sp. American	228	11.4	548	22.6	1,528	12.9	1,527	6.9	1,057	2.4	13.0
Am. Indian	56	10.7	276	15.9	547	8.0	525	3.8	384	2.3	18.2
Oriental	21	28.6	200	10.0	272	19.1	271	10.7	233	2.1	9.4
Other	7	14.3	41	7.3	184	11.4	185	9.2	123	4.1	9.8
Unknown	14	7.1	51	23.5	98	9.2	98	7.1	75	2.7	12.0
Total	3,442	13.5	8,154	17.5	29,505	8.6	29,618	5.7	20,724	3.2	9.5



Table 6

Nutrition Indices by Sex and Age, October-December 1978  
Persons Less than 18 Years of Age

Sex and Age Group	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High	
<b>Male</b>												
< 1	431	7.7	1,208	9.8	8,520	12.6	8,595	6.4	6,060	4.5	9.4	
1	757	7.8	1,732	9.1	3,268	13.7	3,297	7.6	3,279	5.2	10.6	
2 - 5	1,496	16.8	3,842	22.6	9,154	9.0	9,176	6.0	9,145	2.3	8.1	
6 - 9	364	20.9	682	32.1	3,923	5.8	3,900	3.5	3,836	2.2	5.3	
10 -12	221	10.0	365	24.4	2,330	7.6	2,310	5.6	967	3.0	6.0	
13 -17	252	9.1	370	10.5	2,601	9.5	2,603	7.4	-	-	-	
<b>Total</b>	<b>3,521</b>	<b>13.2</b>	<b>8,199</b>	<b>18.2</b>	<b>29,796</b>	<b>10.1</b>	<b>29,881</b>	<b>6.1</b>	<b>23,287</b>	<b>3.3</b>	<b>8.2</b>	
<b>Female</b>												
< 1	458	8.3	1,137	9.0	8,251	10.2	8,307	6.5	5,348	4.6	9.5	
1	737	9.0	1,756	7.9	3,259	9.5	3,282	5.8	3,236	3.6	12.9	
2 - 5	1,401	15.8	3,559	21.0	8,685	9.1	8,715	6.3	8,683	2.3	9.3	
6 - 9	289	21.1	640	28.0	3,900	5.0	3,890	4.4	3,432	3.1	7.1	
10 -12	206	12.1	345	17.7	2,261	7.4	2,260	5.4	25	4.0	-	
13 -17	351	14.8	717	27.5	3,149	7.9	3,164	4.0	-	-	-	
<b>Total</b>	<b>3,442</b>	<b>13.5</b>	<b>8,154</b>	<b>17.5</b>	<b>29,505</b>	<b>8.6</b>	<b>29,618</b>	<b>5.7</b>	<b>20,724</b>	<b>3.2</b>	<b>9.5</b>	

Nutrition Indices by State, January-December 1978  
Persons Less than 18 Years of Age

Table 7a

State	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High	
Alabama	1978	1st	-	-	336	14.9	816	7.5	826	4.2	476	6.5	4.4
		2nd	-	-	200	6.0	781	10.0	786	6.0	423	5.2	5.2
	Total	-	-	536	11.6	1,597	8.7	1,612	5.1	899	5.9	5.1	
Arizona	1978	1st	3,028	5.6	4,919	15.2	9,637	12.4	9,654	8.8	6,278	5.2	10.9
		2nd	1,652	5.7	2,910	14.6	6,131	11.2	6,155	8.3	3,762	5.3	10.2
	Total	4,680	5.7	7,829	15.0	15,768	11.9	15,809	8.6	10,040	5.2	10.6	
California	1978	1st	-	-	37	18.9	37	5.4	37	8.1	32	9.4	3.1
		2nd	-	-	47	34.0	47	8.5	47	4.3	44	2.3	15.9
	Total	-	-	84	27.4	84	7.1	84	6.0	76	5.3	10.5	
Colorado	1978	1st	4	-	211	11.8	386	12.2	393	9.9	291	8.9	8.2
		2nd	6	66.7	462	10.4	824	15.9	824	10.4	615	3.6	5.7
	Total	10	40.0	673	10.8	1,210	14.7	1,217	10.3	906	5.3	6.5	
Florida	1978	1st	1,187	25.7	1,368	28.7	5,223	8.8	5,241	5.6	3,986	5.8	12.1
		2nd	1,405	21.7	1,515	28.1	4,198	9.3	4,282	7.2	3,209	7.8	9.3
	Total	2,592	23.5	2,883	28.4	9,421	9.1	9,523	6.3	7,195	6.7	10.8	
Illinois	1978	1st	1,190	19.5	2,043	21.7	2,726	14.9	2,752	7.3	2,711	4.9	13.1
		2nd	99	16.2	66	12.1	137	17.5	135	13.3	135	5.9	9.6
	Total	1,289	19.2	2,109	21.4	2,863	15.0	2,887	7.6	2,846	4.9	12.9	
Kentucky	1978	1st	3,154	15.9	3,907	21.2	12,074	10.6	12,225	6.2	8,873	4.6	10.5
		2nd	3,060	16.2	4,643	20.8	13,582	10.3	13,697	6.5	10,104	4.6	8.8
	Total	6,214	16.1	8,550	21.0	25,656	10.4	25,922	6.4	18,977	4.6	9.6	
Louisiana	1978	1st	4,920	17.1	1,225	16.8	-7,271	10.6	7,323	6.1	5,282	4.4	8.8
		2nd	4,299	17.1	1,615	18.3	7,268	9.8	7,350	6.4	5,063	3.9	8.3
	Total	9,219	17.1	2,840	17.7	14,539	10.2	14,673	6.3	10,345	4.1	8.6	
Michigan	1978	1st	-	-	-	-	49,932	8.5	49,781	4.9	34,515	2.3	8.4
		2nd	-	-	-	-	52,859	7.8	52,750	5.2	36,408	2.8	6.9
	Total	-	-	-	-	102,791	8.1	102,531	5.1	70,923	2.6	7.7	

Nutrition Indices by State, January-December 1978  
Persons Less than 18 Years of Age (Continued)

Table 7b

State	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	%	No. Exam.	% Low	No. Exam.	% Low	High	
Minnesota	1978	1st	654	9.3	891	8.9	1,361	7.1	1,406	6.3	987	3.7	8.4
		2nd	450	8.0	551	7.3	1,189	9.3	1,261	7.9	891	4.4	8.9
	Total	1,104	8.8	1,442	8.3	2,550	8.1	2,667	7.1	1,878	4.0	8.6	
Montana	1978	1st	21	4.8	726	14.3	1,333	10.5	1,296	5.9	1,114	1.7	8.2
		2nd	13	7.7	1,123	14.2	1,829	8.8	1,754	5.8	1,538	2.6	7.8
	Total	34	5.9	1,849	14.2	3,162	9.5	3,050	5.9	2,652	2.2	8.0	
New Jersey	1978	1st	48	6.3	152	30.3	296	18.6	306	8.2	235	3.4	13.6
		2nd	168	4.8	221	42.5	746	17.6	766	12.0	565	6.4	12.4
	Total	216	5.1	373	37.5	1,042	17.9	1,072	10.9	800	5.5	12.7	
Ohio	1978	1st	1,408	7.4	2,697	14.5	6,079	8.5	6,134	6.2	4,724	4.0	8.5
		2nd	2,355	9.8	3,293	16.9	8,072	8.6	8,117	6.0	6,680	4.0	7.4
	Total	3,763	8.9	5,990	15.8	14,151	8.5	14,251	6.1	11,404	4.0	7.9	
Oregon	1978	1st	385	9.9	2,592	13.4	4,595	11.1	4,626	6.7	4,016	2.9	9.9
		2nd	419	12.9	2,888	13.7	5,186	11.2	5,203	7.4	4,491	3.5	9.3
	Total	804	11.4	5,480	13.5	9,781	11.1	9,829	7.0	8,507	3.2	9.6	
Tennessee	1978	1st	330	5.8	11,826	20.2	17,114	10.6	17,254	5.3	13,222	3.3	11.0
		2nd	169	5.9	10,347	18.5	15,143	10.9	15,310	6.3	11,769	3.6	10.0
	Total	499	5.8	22,173	19.4	32,257	10.8	32,564	5.7	24,991	3.4	10.6	
Washington	1978	1st	434	13.1	4,325	17.8	6,213	11.3	6,279	5.8	5,133	3.6	11.7
		2nd	396	20.2	4,374	19.7	6,451	10.8	6,454	6.4	5,323	3.3	10.8
	Total	830	16.5	8,699	18.8	12,664	11.0	12,733	6.1	10,456	3.5	11.2	
Wisconsin	1978	1st	1	-	13	15.4	14	14.3	14	-	15	6.7	13.3
		2nd	129	11.6	747	9.6	1,367	8.7	1,330	5.0	1,254	1.4	10.1
	Total	130	11.5	760	9.7	1,381	8.8	1,344	5.0	1,269	1.5	10.2	
TOTAL	1978	1st	16,764	13.9	37,268	18.3	125,107	9.8	125,547	5.8	91,890	3.5	9.7
		2nd	14,620	14.3	35,002	18.0	125,810	9.5	126,221	6.1	92,274	3.6	8.3
	TOTAL	31,384	14.1	72,270	18.2	250,917	9.6	251,768	5.9	184,164	3.5	9.0	

Nutrition Indices by Ethnic Group, January-December 1978  
Males Less than 18 Years of Age

Table 8a

Ethnic Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
<u>Black</u>												
	1978 1st	2,894	19.6	4,235	22.9	18,378	9.7	18,453	5.6	13,696	4.1	8.6
	2nd	2,466	19.2	3,497	21.7	18,950	8.9	19,052	5.7	13,909	4.3	6.6
	Total	5,360	19.4	7,732	22.4	37,328	9.3	37,505	5.7	27,605	4.2	7.6
<u>White</u>												
	1978 1st	4,258	10.8	11,457	16.4	37,552	10.2	37,689	5.9	29,958	3.2	9.1
	2nd	3,971	12.2	11,417	17.2	37,859	10.0	37,989	6.5	30,196	3.3	7.9
	Total	8,229	11.5	22,874	16.8	75,411	10.1	75,678	6.2	60,154	3.3	8.5
<u>Sp. American</u>												
	1978 1st	929	8.4	1,637	18.1	3,940	12.7	3,946	7.2	2,954	3.5	13.5
	2nd	645	8.8	1,509	19.5	3,827	11.6	3,793	5.8	2,901	3.0	10.3
	Total	1,574	8.6	3,146	18.8	7,767	12.2	7,739	6.5	5,855	3.2	11.9
<u>Am. Indian</u>												
	1978 1st	81	2.5	812	19.0	1,903	12.7	1,901	9.1	1,376	5.7	11.7
	2nd	93	7.5	671	15.6	1,552	10.1	1,542	6.6	1,175	3.4	13.1
	Total	174	5.2	1,483	17.5	3,455	11.5	3,443	8.0	2,551	4.6	12.3
<u>Orient., other &amp; unknown</u>												
	1978 1st	68	7.4	237	10.5	658	12.6	656	7.6	562	3.3	9.6
	2nd	86	9.3	497	11.7	1,022	17.5	1,039	13.1	865	5.1	6.6
	Total	154	8.4	734	11.3	1,680	15.6	1,695	11.0	1,427	4.4	7.8
<u>TOTAL</u>												
	1978 1st	8,230	13.5	18,378	18.1	62,431	10.3	62,645	6.0	48,546	3.5	9.3
	2nd	7,261	14.2	17,591	18.1	63,210	9.9	63,415	6.4	49,046	3.6	7.8
	Total	15,491	13.8	35,969	18.1	125,641	10.1	126,060	6.2	97,592	3.6	8.5

Table 8b

Nutrition Indices by Ethnic Group, January-December 1978  
Females Less than 18 Years of Age

Ethnic Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
<u>Black</u>												
	1978 1st	3,092	21.3	4,368	22.8	18,929	8.1	19,002	4.8	12,413	4.1	9.5
	2nd	2,578	19.6	3,645	21.0	19,558	6.8	19,655	5.0	12,385	4.3	8.1
	Total	5,670	20.5	8,013	22.0	38,487	7.4	38,657	4.9	24,798	4.2	8.8
<u>White</u>												
	1978 1st	4,297	11.2	11,594	16.7	36,902	9.4	37,054	5.7	26,390	3.1	9.7
	2nd	3,900	11.6	11,025	16.6	36,691	9.1	36,811	6.1	26,511	3.4	8.6
	Total	8,197	11.4	22,619	16.7	73,593	9.3	73,865	5.9	52,901	3.2	9.2
<u>Sp. American</u>												
	1978 1st	993	6.8	1,746	18.7	4,103	12.6	4,108	6.1	2,647	2.8	13.8
	2nd	677	9.6	1,529	20.9	3,767	11.4	3,772	6.3	2,538	2.8	12.1
	Total	1,670	8.0	3,275	19.7	7,870	12.0	7,880	6.2	5,185	2.8	13.0
<u>Am. Indian</u>												
	1978 1st	87	9.2	958	22.2	2,050	11.0	2,048	6.2	1,324	4.9	18.3
	2nd	112	16.1	713	19.4	1,552	10.5	1,532	5.7	1,006	3.9	17.0
	Total	199	13.1	1,671	21.0	3,602	10.8	3,580	6.0	2,330	4.5	17.7
<u>Orient., Other &amp; Unknown</u>												
	1978 1st	65	6.2	224	13.8	692	14.0	690	9.6	570	3.3	10.9
	2nd	92	14.1	499	11.0	1,032	15.5	1,036	9.7	788	2.8	10.4
	Total	157	10.8	723	11.9	1,724	14.9	1,726	9.6	1,358	3.0	10.6
<u>TOTAL</u>												
	1978 1st	8,534	14.3	18,890	18.5	62,676	9.3	62,902	5.5	43,344	3.4	10.2
	2nd	7,359	14.3	17,411	17.9	62,600	8.6	62,806	5.8	43,228	3.6	8.9
	TOTAL	15,893	14.3	36,301	18.2	125,276	9.0	125,708	5.7	86,572	3.5	9.5

Table 9a

Nutrition Indices by Age, January-December 1978  
Males Less than 18 Years of Age

Age Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No.	%	No.	%	No.	%	No.	%	No.	%	%	
		Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High	
<1	1978	1st	1,307	7.7	2,889	9.6	17,632	12.4	17,801	6.7	12,761	5.0	9.7
		2nd	992	8.2	2,573	9.5	17,744	12.6	17,914	6.8	12,404	4.5	9.0
	Total	2,299	7.9	5,462	9.5	25,376	12.5	35,715	6.8	25,165	4.8	9.4	
1	1978	1st	1,713	11.3	4,039	9.5	7,255	13.4	7,367	7.7	7,262	5.1	12.9
		2nd	1,496	9.8	3,777	8.6	6,900	14.0	6,964	8.2	6,902	5.5	10.3
	Total	3,209	10.6	7,816	9.1	14,155	13.7	14,331	7.9	14,164	5.3	11.6	
2-5	1978	1st	3,275	16.6	8,112	23.7	18,109	10.1	18,161	5.9	18,060	2.5	9.2
		2nd	3,051	17.6	8,112	22.9	19,047	8.9	19,108	6.4	19,031	2.8	7.3
	Total	6,326	17.1	16,224	23.3	37,156	9.5	37,269	6.1	37,091	2.7	8.2	
6-9	1978	1st	816	15.9	1,352	31.8	8,411	6.1	8,339	3.8	8,213	2.3	6.4
		2nd	754	19.9	1,625	30.2	8,803	5.8	8,741	3.9	8,613	2.8	5.4
	Total	1,570	17.8	2,977	30.9	17,214	5.9	17,080	3.8	16,826	2.6	5.9	
10-12	1978	1st	515	14.8	813	20.9	5,399	7.2	5,355	4.4	2,250	2.5	7.3
		2nd	438	14.4	731	23.4	5,161	7.3	5,141	5.3	2,096	3.1	5.8
	Total	953	14.6	1,544	22.1	10,560	7.3	10,496	4.8	4,346	2.8	6.6	
13-17	1978	1st	604	11.1	1,173	11.7	5,625	9.7	5,622	6.7	-	-	-
		2nd	530	10.0	773	12.5	5,555	8.8	5,547	7.5	-	-	-
	Total	1,134	10.6	1,946	12.0	11,180	9.2	11,169	7.1	-	-	-	
TOTAL	1978	1st	8,230	13.5	18,378	18.1	62,431	10.3	62,645	6.0	48,546	3.5	9.3
		2nd	7,261	14.2	17,591	18.1	63,210	9.9	63,415	6.4	49,046	3.6	7.8
	Total	15,491	13.8	35,969	18.1	125,641	10.1	126,060	6.2	97,592	3.6	8.5	

Table 9b

Nutrition Indices by Age, January-December 1978  
Females Less than 18 Years of Age

Age Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No.	%	No.	%	No.	%	No.	%	No.	%	%	
		Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High	
<1	1978	1st	1,218	7.3	2,725	9.0	16,887	10.7	17,005	6.0	11,384	4.6	10.3
		2nd	1,043	7.4	2,484	8.3	17,058	10.1	17,154	6.3	10,941	4.8	8.9
	Total	2,261	7.3	5,209	8.7	33,945	10.4	34,159	6.2	22,325	4.7	9.6	
1	1978	1st	1,671	11.7	4,011	9.2	7,016	12.1	7,101	6.5	7,001	4.1	13.6
		2nd	1,470	10.3	3,655	8.0	6,755	10.1	6,800	6.3	6,700	4.0	12.0
	Total	3,141	11.1	7,666	8.6	13,771	11.1	13,901	6.4	13,701	4.1	12.8	
2-5	1978	1st	3,074	17.7	7,932	22.1	17,572	10.1	17,609	6.3	17,487	2.8	9.9
		2nd	2,849	16.3	7,507	21.2	18,043	9.3	18,105	6.7	18,009	2.9	8.6
	Total	5,923	17.0	15,439	21.7	35,615	9.7	35,714	6.5	35,496	2.8	9.2	
6-9	1978	1st	801	19.0	1,293	32.8	8,422	5.3	8,371	3.6	7,408	2.6	7.6
		2nd	665	22.1	1,494	29.9	8,552	5.3	8,536	4.4	7,518	3.3	7.0
	Total	1,466	20.4	2,787	31.3	16,974	5.3	16,907	4.0	14,926	2.9	7.3	
10-12	1978	1st	494	13.0	799	20.2	5,302	8.3	5,282	5.8	64	3.1	9.4
		2nd	429	14.2	726	17.9	5,211	7.0	5,205	5.4	60	1.7	3.3
	Total	923	13.5	1,525	19.1	10,513	7.6	10,487	5.6	124	2.4	6.5	
13-17	1978	1st	1,276	13.8	2,130	25.8	7,477	7.1	7,534	3.8	-	-	-
		2nd	903	16.9	1,545	28.7	6,981	7.2	7,006	3.8	-	-	-
	Total	2,179	15.1	3,675	27.0	14,458	7.1	14,540	3.8	-	-	-	
TOTAL	1978	1st	8,534	14.3	18,890	18.5	62,676	9.3	62,902	5.5	43,344	3.4	10.2
		2nd	7,359	14.3	17,411	17.9	62,600	8.6	62,806	5.8	43,228	3.6	8.9
	TOTAL	15,893	14.3	36,301	18.2	125,276	9.0	125,708	5.7	86,572	3.5	9.5	

# SPECIAL REPORT

## THREE YEAR TABULAR SUMMARY OF NUTRITION INDICES, 1976 - 1978

COUNTRY	POPULATION	1976			1977			1978		
		PROTEIN	ENERGY	WATER	PROTEIN	ENERGY	WATER	PROTEIN	ENERGY	WATER
ALGERIA	15,000,000	10.0	2,000	100	10.0	2,000	100	10.0	2,000	100
ARGENTINA	25,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
AUSTRALIA	18,000,000	12.0	2,500	120	12.0	2,500	120	12.0	2,500	120
BELGIUM	10,000,000	8.0	1,500	80	8.0	1,500	80	8.0	1,500	80
BRAZIL	120,000,000	12.0	2,500	120	12.0	2,500	120	12.0	2,500	120
CHINA	1,000,000,000	10.0	2,000	100	10.0	2,000	100	10.0	2,000	100
FRANCE	55,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
GERMANY	45,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
INDIA	750,000,000	10.0	2,000	100	10.0	2,000	100	10.0	2,000	100
INDONESIA	150,000,000	10.0	2,000	100	10.0	2,000	100	10.0	2,000	100
ITALY	55,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
JAPAN	120,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
NETHERLANDS	15,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
RUSSIA	200,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
UNITED STATES	220,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
U.S.S.R.	200,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
WEST GERMANY	55,000,000	15.0	3,000	150	15.0	3,000	150	15.0	3,000	150
YUGOSLAVIA	20,000,000	10.0	2,000	100	10.0	2,000	100	10.0	2,000	100



Nutrition Indices by State, January 1976-December 1978  
Persons Less than 18 Years of Age

Table 10a

State	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High	
Alabama	1976	1st	-	-	-	-	-	-	-	-	-	-	-
		2nd	-	-	-	-	-	-	-	-	-	-	-
	1977	1st	-	-	93	6.5	145	5.5	151	6.6	86	11.6	3.5
		2nd	-	-	1	-	1	-	1	-	1	-	-
	1978	1st	-	-	336	14.9	816	7.5	826	4.2	476	6.5	4.4
		2nd	-	-	200	6.0	781	10.0	786	6.0	423	5.2	5.9
Total		-	-	630	10.8	1,743	8.4	1,764	5.2	986	6.4	5.0	
Arizona	1976	1st	4,102	10.1	5,437	14.9	9,546	13.5	9,615	7.9	7,486	4.9	13.8
		2nd	2,690	8.6	3,457	12.5	6,784	14.3	6,715	9.7	4,890	6.9	10.9
	1977	1st	3,278	7.6	4,872	16.9	8,716	14.7	8,711	9.5	5,979	5.7	12.7
		2nd	3,299	5.7	4,697	13.7	8,286	11.4	8,798	9.0	5,863	5.4	10.5
	1978	1st	3,028	5.6	4,919	15.2	9,637	12.4	9,654	8.8	6,278	5.2	10.9
		2nd	1,652	5.7	2,910	14.6	6,137	11.2	6,155	8.3	3,762	5.3	10.2
Total		18,049	7.5	26,292	14.8	49,640	13.0	49,648	8.8	34,258	5.5	11.7	
California	1976	1st	848	8.4	765	28.9	1,763	8.0	1,737	4.7	1,677	1.5	7.6
		2nd	182	13.7	455	28.8	1,058	7.2	1,058	4.4	891	2.1	7.2
	1977	1st	114	3.5	225	26.2	392	9.7	393	5.9	300	2.0	13.3
		2nd	68	32.4	181	28.7	451	9.8	449	5.3	412	1.5	9.7
	1978	1st	-	-	37	18.9	37	5.4	37	8.1	32	9.4	3.1
		2nd	-	-	47	34.0	47	8.5	47	4.3	44	2.3	15.9
Total		1,212	10.1	1,710	28.4	3,748	8.1	3,721	4.8	3,356	1.8	8.3	
Colorado	1976	1st	-	-	-	-	-	-	-	-	-	-	-
		2nd	-	-	-	-	-	-	-	-	-	-	-
	1977	1st	-	-	-	-	-	-	-	-	-	-	-
		2nd	-	-	-	-	-	-	-	-	-	-	-
	1978	1st	4	-	211	11.8	386	12.2	393	9.9	291	8.9	8.2
		2nd	6	66.7	462	10.4	824	15.9	824	10.4	615	3.6	5.7
Total		10	40.0	673	10.8	1,210	14.7	1,217	10.3	906	5.3	6.5	
Florida	1976	1st	30	-	43	9.3	109	5.5	149	9.4	80	3.7	10.0
		2nd	52	11.5	161	21.1	646	6.5	776	6.3	453	4.6	7.3
	1977	1st	304	18.8	270	22.6	1,054	13.4	1,121	6.7	729	4.9	13.2
		2nd	837	17.9	699	24.9	1,973	11.5	2,011	7.8	1,510	7.2	10.3
	1978	1st	1,187	25.7	1,368	28.7	5,223	8.8	5,241	5.6	3,986	5.8	12.1
		2nd	1,405	21.7	1,515	28.1	4,198	9.3	4,282	7.2	3,209	7.8	9.3
Total		3,815	21.6	4,056	26.9	13,203	9.6	13,580	6.6	9,967	6.5	10.8	

Nutrition Indices by State, January 1976-December 1978  
Persons Less than 18 Years of Age (Continued)

Table 10b

State	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High	
Illinois	1976	1st	545	18.0	207	30.0	746	12.6	760	4.7	740	5.0	13.5
		2nd	343	21.6	1,019	20.1	1,275	12.2	1,291	5.3	1,279	3.2	11.4
	1977	1st	1,585	14.6	2,416	22.3	3,445	12.2	3,507	6.8	3,421	3.8	13.2
		2nd	1,587	14.7	2,387	18.3	3,409	12.3	3,451	6.2	3,397	4.4	13.2
	1978	1st	1,190	19.5	2,043	21.7	2,726	14.9	2,752	7.3	2,711	4.9	13.1
		2nd	99	16.2	66	12.1	137	17.5	135	13.3	135	5.9	9.6
	Total		5,349	16.5	8,138	20.8	11,738	12.9	11,896	6.5	11,683	4.3	12.9
Kentucky	1976	1st	1,857	13.0	2,404	14.3	6,247	11.7	6,301	6.5	4,196	4.7	11.2
		2nd	2,301	15.3	3,595	17.4	8,567	10.9	8,634	6.8	6,137	5.7	10.7
	1977	1st	4,300	19.0	4,178	22.4	12,503	11.4	12,580	6.5	9,772	5.6	11.3
		2nd	3,121	18.5	6,450	22.7	14,538	10.9	14,621	7.6	11,338	6.6	9.1
	1978	1st	3,154	15.9	3,907	21.2	12,074	10.6	12,225	6.2	8,873	4.6	10.5
		2nd	3,060	16.2	4,643	20.8	13,582	10.3	13,697	6.5	10,104	4.6	8.8
	Total		17,793	16.8	25,177	20.5	67,511	10.9	68,058	6.7	50,420	5.4	10.1
Louisiana	1976	1st	7,332	16.0	11,937	31.0	20,875	10.6	21,330	7.4	11,450	4.2	7.5
		2nd	6,020	18.9	3,192	15.9	10,438	8.8	10,772	6.6	6,617	5.4	8.3
	1977	1st	5,662	19.7	3,263	23.4	10,483	9.7	10,803	6.5	6,922	4.7	9.0
		2nd	5,246	18.0	3,971	16.9	12,730	11.6	13,014	7.2	9,998	5.0	9.7
	1978	1st	4,920	17.1	1,225	16.8	7,271	10.6	7,323	6.1	5,282	4.4	8.8
		2nd	4,299	17.1	1,615	18.3	7,268	9.8	7,350	6.4	5,043	3.9	8.3
	Total		33,479	17.7	25,203	24.4	69,065	10.3	70,592	6.9	45,332	4.6	8.6
Michigan	1976	1st	-	-	-	-	799	9.0	804	6.2	631	3.3	7.4
		2nd	-	-	-	-	11,792	9.0	11,773	5.5	8,576	2.4	8.1
	1977	1st	-	-	-	-	53,734	8.9	53,638	5.1	36,357	2.2	8.3
		2nd	-	-	-	-	51,710	8.3	51,596	5.2	35,031	2.6	7.1
	1978	1st	-	-	-	-	49,932	8.5	49,781	4.9	34,515	2.3	8.4
		2nd	-	-	-	-	52,859	7.8	52,750	5.2	36,408	2.8	6.9
	Total		0		0		220,826	8.4	220,342	5.1	151,518	2.5	7.7

Nutrition Indices by State, January 1976-December 1978  
 Persons Less than 18 Years of Age (Continued)

State	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High	
Minnesota	1976	1st	1	-	-	-	-	-	-	1	-	-	
		2nd	1	-	-	-	3	-	3	33.3	3	33.3	
	1977	1st	337	14.2	200	21.5	512	8.6	572	5.9	471	4.2	10.0
		2nd	274	16.1	326	10.1	641	4.7	681	6.3	617	6.5	5.7
	1978	1st	654	9.3	891	8.9	1,361	7.1	1,406	6.3	987	3.7	8.4
		2nd	450	8.0	551	7.3	1,189	9.3	1,261	7.9	891	4.4	8.9
Total		1,717	11.0	1,968	9.9	3,706	7.6	3,923	6.8	2,970	4.6	8.2	
Montana	1976	1st	1	-	2,500	11.7	2,882	8.7	2,851	5.9	2,069	2.5	6.4
		2nd	37	-	2,107	14.0	2,638	11.2	2,667	6.6	2,294	3.0	6.6
	1977	1st	13	15.4	1,846	18.0	2,553	9.8	2,570	6.9	2,098	3.1	6.6
		2nd	16	56.3	991	21.6	1,660	9.9	1,642	5.7	1,402	2.4	7.1
	1978	1st	21	4.8	726	14.3	1,333	10.5	1,296	5.9	1,114	1.7	8.2
		2nd	13	7.7	1,123	14.2	1,829	8.8	1,754	5.8	1,538	2.6	7.8
Total		101	12.9	9,293	15.0	12,895	9.8	12,780	6.2	10,515	2.6	7.0	
New Jersey	1976	1st	-	-	-	-	-	-	-	-	-	-	
		2nd	-	-	-	-	-	-	-	-	-	-	
	1977	1st	13	15.4	6	33.3	45	24.4	45	15.6	28	3.6	14.3
		2nd	139	5.0	108	36.1	390	19.0	396	9.1	301	4.7	13.6
	1978	1st	48	6.3	152	30.3	296	18.6	306	8.2	235	3.4	13.6
		2nd	168	4.8	221	42.5	746	17.6	766	12.0	565	6.4	12.4
Total		368	5.4	487	37.2	1,477	18.3	1,513	10.6	1,129	5.2	13.0	
Nevada	1976	1st	-	-	-	-	-	-	-	-	-	-	
		2nd	46	2.2	299	20.1	470	10.6	477	5.5	431	7.7	8.4
	1977	1st	96	7.3	227	7.9	492	12.6	500	7.8	422	7.3	8.5
		2nd	-	-	-	-	-	-	-	-	-	-	
	1978	1st	-	-	-	-	-	-	-	-	-	-	
		2nd	-	-	-	-	-	-	-	-	-	-	
Total		142	5.6	526	14.8	962	11.6	977	6.7	853	7.5	8.4	
Ohio	1976	1st	28	10.7	-	-	28	3.6	28	3.6	28	3.6	14.3
		2nd	739	5.3	2,165	14.7	3,924	7.2	3,948	6.2	3,241	6.0	7.1
	1977	1st	1,009	4.7	1,797	16.5	3,955	7.5	3,980	5.1	3,105	4.7	7.3
		2nd	1,444	9.8	2,002	13.9	4,825	7.7	4,863	6.0	3,689	5.7	6.8
	1978	1st	1,408	7.4	2,697	14.5	6,079	8.5	6,134	6.2	4,724	4.0	8.5
		2nd	2,355	9.8	3,293	16.9	8,072	8.6	8,117	6.0	6,680	4.0	7.4
Total		6,983	8.1	11,954	15.4	26,863	8.0	27,070	5.9	21,467	4.7	7.5	

Nutrition Indices by State, January-1976-December 1978  
Persons Less than 18 Years of Age (Continued)

Table 10d

State	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High	
Oregon	1976	1st	89	15.7	1,447	16.5	2,323	7.8	2,314	4.4	1,702	1.6	8.4
		2nd	465	14.0	1,400	10.2	2,469	8.6	2,490	5.0	2,060	2.6	9.2
	1977	1st	595	16.8	1,368	11.5	2,991	10.0	3,014	5.9	2,628	3.3	9.3
		2nd	543	9.4	2,169	17.1	4,525	9.0	4,551	6.2	3,788	3.9	9.9
	1978	1st	385	9.9	2,592	13.4	4,595	11.1	4,626	6.7	4,016	2.9	9.9
		2nd	419	12.9	2,888	13.7	5,186	11.2	5,203	7.4	4,491	3.5	9.3
	Total		2,496	12.9	11,864	13.9	22,089	9.9	22,198	6.2	18,685	3.2	9.5
Tennessee	1976	1st	245	7.8	6,422	18.3	8,047	10.3	8,205	5.8	5,733	4.0	11.1
		2nd	279	3.6	10,323	19.2	13,208	9.9	13,437	5.4	9,818	4.1	11.1
	1977	1st	304	4.9	14,092	23.0	17,801	10.2	18,085	5.2	14,341	3.8	12.2
		2nd	218	3.7	12,998	20.1	17,763	10.2	18,003	5.6	13,751	4.2	10.9
	1978	1st	330	5.8	11,826	20.2	17,114	10.6	17,254	5.3	13,222	3.3	11.0
		2nd	169	5.9	10,347	18.5	15,143	10.9	15,310	6.3	11,769	3.6	10.0
	Total		1,545	5.2	66,008	20.2	89,076	10.4	90,294	5.6	68,634	3.8	11.1
Washington	1976	1st	422	11.8	4,137	14.6	6,025	11.7	6,094	6.3	5,167	3.1	12.2
		2nd	438	8.9	4,858	11.3	7,274	10.8	7,351	5.3	6,403	3.0	11.3
	1977	1st	387	14.5	3,757	12.1	5,518	11.5	5,568	6.5	4,725	3.3	12.4
		2nd	629	14.0	5,639	12.2	8,661	11.3	8,742	6.4	7,324	3.2	11.5
	1978	1st	434	13.1	4,325	17.8	6,213	11.3	6,279	5.8	5,133	3.6	11.7
		2nd	396	20.2	4,374	19.7	6,451	10.8	6,454	6.4	5,323	3.3	10.8
	Total		2,706	13.7	27,090	14.5	40,142	11.2	40,488	6.1	34,075	3.3	11.6
Wisconsin	1976	1st	-	-	-	-	-	-	-	-	-	-	-
		2nd	-	-	-	-	-	-	-	-	-	-	-
	1977	1st	-	-	-	-	-	-	-	-	-	-	-
		2nd	-	-	-	-	-	-	-	-	-	-	-
	1978	1st	1	-	13	15.4	14	14.3	14	-	15	6.7	13.3
		2nd	129	11.6	747	9.6	1,367	8.7	1,330	5.0	1,254	1.4	10.1
	Total		130	11.5	760	9.7	1,381	8.8	1,344	5.0	1,269	1.5	10.2
TOTAL	1976	1st	15,500	13.4	35,299	21.1	59,390	11.0	60,188	6.7	40,960	3.9	10.2
		2nd	13,593	14.6	33,031	16.0	70,526	10.0	71,392	6.2	53,093	4.3	9.6
	1977	1st	17,997	15.3	38,610	20.0	124,399	10.1	125,238	5.9	91,384	3.6	10.0
		2nd	17,421	14.1	42,619	18.0	132,103	9.7	132,819	6.2	98,422	4.1	9.1
	1978	1st	16,764	13.9	37,268	18.3	125,107	9.8	125,547	5.8	91,890	3.5	9.7
		2nd	14,620	14.3	35,002	18.0	125,810	9.3	126,221	6.1	92,274	3.6	8.3
	Total		95,895	14.3	221,829	18.6	637,275	9.9	641,405	6.1	468,023	3.8	9.4

Table 11a

Nutrition Indices by Ethnic Group, January 1976-December 1978  
Males Less than 18 Years of Age

Ethnic Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% Low
Black	1976 1st	3,414	17.8	6,016	31.2	10,826	11.5	11,027	7.3	6,986	4.0	7.4
	2nd	2,776	19.5	3,176	19.2	10,226	9.5	10,452	6.3	7,399	4.1	8.7
	1977 1st	3,433	18.6	4,792	24.7	19,473	9.6	19,704	5.7	14,271	3.9	8.6
	2nd	3,302	18.1	5,556	20.3	20,929	9.6	21,114	6.1	16,116	4.4	8.2
	1978 1st	2,894	19.6	4,235	22.9	18,378	9.7	18,453	5.6	13,696	4.1	8.6
	2nd	2,466	19.2	3,497	21.7	18,950	8.9	19,052	5.7	13,909	4.3	6.6
	Total	18,285	18.7	27,272	24.0	98,782	9.7	99,802	6.0	72,377	4.2	8.0
White	1976 1st	2,859	9.8	8,198	16.2	13,057	11.3	13,191	6.6	10,205	3.6	9.5
	2nd	2,955	11.3	10,992	15.9	20,421	10.7	20,663	6.4	16,482	4.1	9.4
	1977 1st	4,362	14.6	11,792	19.0	36,586	10.6	36,762	6.0	29,281	3.4	9.6
	2nd	3,991	12.5	12,898	17.8	38,344	9.8	38,533	6.3	30,652	3.9	8.4
	1978 1st	4,258	10.8	11,457	16.4	37,552	10.2	37,689	5.9	29,958	3.2	9.1
	2nd	3,971	12.2	11,417	17.2	37,859	10.0	37,989	6.5	30,196	3.3	7.9
	Total	22,396	12.0	66,754	17.2	183,819	10.3	184,827	6.2	146,774	3.5	8.9
Sp. American	1976 1st	1,236	10.7	1,234	17.5	2,500	11.2	2,505	6.1	2,138	3.0	13.0
	2nd	837	10.8	1,092	14.4	2,200	13.8	2,191	7.6	1,769	3.3	9.5
	1977 1st	922	10.8	1,332	19.4	3,265	13.2	3,274	6.8	2,529	3.4	12.2
	2nd	1,005	7.7	1,620	16.0	3,811	14.0	3,824	7.0	2,922	3.3	12.9
	1978 1st	929	8.4	1,637	18.1	3,940	12.7	3,946	7.2	2,954	3.5	13.5
	2nd	645	8.8	1,509	19.5	3,827	11.6	3,793	5.8	2,901	3.0	10.3
	Total	5,574	9.6	8,424	17.6	19,543	12.8	19,533	6.7	15,213	3.3	12.0
Am. Indian	1976 1st	145	9.0	1,447	17.5	2,169	13.6	2,155	7.3	1,746	6.0	16.8
	2nd	100	4.0	799	14.6	1,548	15.6	1,560	8.7	1,222	7.5	13.6
	1977 1st	120	7.5	1,009	19.9	2,083	16.3	2,084	8.9	1,550	5.9	15.7
	2nd	100	11.0	836	14.2	1,841	11.5	1,831	7.8	1,390	4.2	13.7
	1978 1st	81	2.5	812	19.0	1,903	12.7	1,901	9.1	1,376	5.7	11.7
	2nd	93	7.5	671	15.6	1,552	10.1	1,542	6.6	1,175	3.4	13.1
	Total	639	7.2	5,574	17.0	11,096	13.4	11,073	8.1	8,459	5.5	14.3
Orient., other and unknown	1976 1st	120	11.6	435	18.1	916	11.9	924	8.8	667	2.2	8.2
	2nd	102	6.9	648	11.7	1,151	13.2	1,162	7.0	1,093	3.3	8.8
	1977 1st	92	13.0	331	17.2	742	16.2	750	12.1	630	5.2	8.7
	2nd	91	11.0	498	10.6	1,189	13.7	1,203	7.7	1,044	3.5	8.0
	1978 1st	68	7.4	237	10.5	658	12.6	656	7.6	562	3.3	9.6
	2nd	86	9.3	497	11.7	1,022	17.5	1,039	13.1	865	5.1	6.6
	Total	559	10.0	2,646	11.9	5,678	14.2	5,734	9.3	4,861	3.8	8.2
TOTAL	1976 1st	7,774	13.4	17,331	21.5	29,470	11.6	29,804	6.9	21,742	3.8	9.7
	2nd	6,770	14.4	16,707	16.2	35,546	10.8	36,028	6.5	27,965	4.2	9.4
	1977 1st	8,929	15.6	19,256	20.5	62,149	10.7	62,574	6.1	48,261	3.6	9.6
	2nd	8,489	14.1	21,408	18.0	66,114	10.1	66,505	6.4	52,124	4.0	8.7
	1978 1st	8,230	13.5	18,378	18.1	62,431	10.3	62,645	6.0	48,546	3.5	9.3
	2nd	7,261	14.2	17,591	18.1	63,210	9.9	63,415	6.4	49,046	3.6	7.8
	Total	47,453	14.2	110,671	18.7	318,290	10.4	320,971	6.3	247,684	3.8	9.0

Nutrition Indices by Ethnic Group, January 1976-December 1978  
Females Less than 18 Years of Age

Ethnic Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height		
		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High
Black	1976 1st	3,419	17.1	6,566	29.2	11,410	9.4	11,684	6.8	5,657	4.5	9.0
	2nd	2,869	20.1	3,234	18.5	10,448	7.7	10,639	5.6	6,702	4.8	9.2
	1977 1st	3,463	18.9	4,874	22.7	20,027	8.1	20,239	5.1	12,793	3.9	10.2
	2nd	3,405	18.2	5,463	20.0	21,351	8.6	21,509	5.7	14,471	4.3	9.5
	1978 1st	3,092	21.3	4,368	22.8	18,929	8.1	19,002	4.8	12,413	4.1	9.5
	2nd	2,578	19.6	3,645	21.0	19,558	6.8	19,655	5.0	12,385	4.3	8.1
	Total	18,826	19.1	28,140	23.0	101,723	8.0	102,728	5.4	64,421	4.3	9.3
White	1976 1st	2,710	10.3	8,146	15.4	12,821	10.3	12,986	6.3	9,088	4.3	10.1
	2nd	2,913	11.3	10,649	15.2	19,809	9.4	20,009	6.0	14,725	4.2	9.4
	1977 1st	4,403	13.1	11,634	18.3	36,055	9.5	36,295	5.6	26,117	3.3	9.8
	2nd	4,226	12.6	12,662	17.6	37,721	9.3	37,869	6.1	26,968	4.2	8.7
	1978 1st	4,297	11.2	11,594	16.7	36,902	9.4	37,054	5.7	26,390	3.1	9.7
	2nd	3,900	11.6	11,025	16.6	36,691	9.1	36,811	6.1	26,511	3.4	8.6
	Total	22,449	11.8	65,710	16.7	179,999	9.4	181,024	5.9	129,799	3.6	9.3
Sp. American	1976 1st	1,304	10.7	1,281	16.5	2,530	12.6	2,531	6.2	2,081	2.7	13.0
	2nd	809	9.4	1,069	16.2	2,143	11.5	2,132	6.8	1,591	4.5	12.1
	1977 1st	996	10.2	1,466	17.5	3,378	13.7	3,400	7.4	2,311	2.8	14.0
	2nd	1,065	8.0	1,737	16.9	3,877	13.0	3,872	6.9	2,628	3.2	13.1
	1978 1st	993	6.8	1,746	18.7	4,103	12.6	4,108	6.1	2,647	2.8	13.8
	2nd	677	9.6	1,529	20.9	3,767	11.4	3,772	6.3	2,538	2.8	12.1
	Total	5,844	9.2	8,828	17.9	19,798	12.5	19,815	6.6	13,796	3.1	13.1
Am. Indian	1976 1st	174	9.2	1,558	18.4	2,295	12.5	2,317	6.7	1,786	3.5	18.0
	2nd	138	7.2	807	14.5	1,520	13.2	1,524	7.3	1,149	5.7	17.0
	1977 1st	125	6.4	1,117	22.6	2,092	13.1	2,085	7.8	1,409	5.1	18.3
	2nd	124	12.9	883	17.4	1,852	9.4	1,852	6.9	1,219	4.4	14.6
	1978 1st	87	9.2	958	22.2	2,050	11.0	2,048	6.2	1,324	4.9	18.3
	2nd	112	16.1	713	19.4	1,552	10.5	1,532	5.7	1,006	3.9	17.0
	Total	760	10.0	6,036	19.2	11,361	11.7	11,358	6.8	7,893	4.5	17.3
Orient., Other and Unknown	1976 1st	119	11.8	427	13.3	864	12.4	866	7.4	606	2.6	9.6
	2nd	94	11.7	565	10.6	1,060	9.8	1,060	5.2	961	2.6	8.5
	1977 1st	81	16.0	263	17.5	638	12.9	645	9.9	493	3.8	9.1
	2nd	112	8.9	466	10.5	1,188	12.5	1,212	6.4	1,012	2.9	11.9
	1978 1st	65	6.2	224	13.8	692	14.0	690	9.6	570	3.3	10.9
	2nd	92	14.1	499	11.0	1,032	15.5	1,036	9.7	788	2.8	10.4
	Total	563	11.4	2,444	12.1	5,474	12.8	5,509	7.7	4,430	3.0	10.1
TOTAL	1976 1st	7,726	13.4	17,968	20.7	29,920	10.4	30,384	6.6	19,218	4.0	10.8
	2nd	6,823	14.7	16,324	15.7	34,980	9.2	35,364	6.0	25,128	4.4	9.8
	1977 1st	9,068	14.9	19,354	19.6	62,190	9.5	62,664	5.7	43,123	3.5	10.4
	2nd	8,932	14.2	21,211	18.0	65,989	9.4	66,314	6.0	46,298	4.1	9.4
	1978 1st	8,534	14.3	18,890	18.5	62,676	9.3	62,902	5.5	43,344	3.4	10.2
	2nd	7,359	14.3	17,411	17.9	62,600	8.6	62,806	5.8	43,228	3.6	8.9
	Total	48,442	14.3	111,158	18.5	318,355	9.3	320,434	5.9	220,339	3.8	9.8

Nutrition Indices by Age, January 1976-December 1978  
Males Less than 18 Years of Age

Table 12a

Age Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	No. Exam.	% Low	% High	
<1	1976	1st	754	9.3	1,555	8.3	7,608	13.7	7,721	6.8	5,229	5.0	11.8
		2nd	770	9.7	2,058	7.9	10,126	13.0	10,345	6.6	7,099	6.0	11.1
	1977	1st	1,198	9.2	2,707	10.1	14,554	13.4	14,802	6.8	10,836	5.5	11.3
		2nd	1,114	7.1	2,951	9.1	16,821	12.7	16,998	6.6	12,332	5.1	10.6
	1978	1st	1,307	7.7	2,889	9.6	17,632	12.4	17,801	6.7	12,761	5.0	9.7
		2nd	992	8.2	2,573	9.5	17,744	12.6	17,914	6.8	12,404	4.5	9.0
	Total		6,135	8.4	14,733	9.2	84,485	12.8	85,581	6.7	60,661	5.1	10.4
1	1976	1st	1,078	10.3	2,063	8.8	2,667	15.3	2,757	8.2	2,681	4.9	15.5
		2nd	1,033	11.0	2,767	9.1	3,988	15.1	4,102	8.4	3,991	5.5	14.3
	1977	1st	1,791	12.7	3,997	12.0	7,259	14.7	7,378	7.5	7,213	5.1	14.2
		2nd	1,789	9.8	4,357	9.8	7,551	14.1	7,667	7.7	7,577	5.2	12.7
	1978	1st	1,713	11.3	4,039	9.5	7,255	13.4	7,367	7.7	7,262	5.1	12.9
		2nd	1,496	9.8	3,777	8.6	6,900	14.0	6,964	8.2	6,902	5.5	10.3
	Total		8,900	10.9	21,000	9.8	35,620	14.3	36,235	7.9	35,626	5.2	13.0
2 - 5	1976	1st	2,772	13.0	5,532	17.3	7,783	10.2	7,875	5.9	7,804	2.9	10.1
		2nd	2,605	12.8	7,091	17.3	11,571	9.4	11,671	5.8	11,540	2.7	8.5
	1977	1st	3,789	17.0	8,438	24.2	19,253	9.9	19,360	5.9	19,205	2.8	9.1
		2nd	3,629	16.1	9,589	22.1	20,585	9.2	20,686	6.4	20,612	3.2	7.9
	1978	1st	3,275	16.6	8,112	23.7	18,109	10.1	18,161	5.9	18,060	2.5	9.2
		2nd	3,051	17.6	8,112	22.9	19,047	8.9	19,108	6.4	19,031	2.8	7.3
	Total		19,121	15.7	46,874	21.6	96,348	9.6	96,861	6.1	96,252	2.8	8.5
6 - 9	1976	1st	1,290	17.1	3,518	38.1	4,766	7.7	4,773	4.5	4,632	3.5	4.9
		2nd	961	23.9	2,304	29.5	4,485	7.4	4,505	5.4	4,414	3.9	5.4
	1977	1st	922	22.1	1,884	35.5	8,942	6.9	8,909	4.1	8,747	2.3	5.7
		2nd	906	20.4	2,316	30.3	9,506	6.2	9,517	4.5	9,368	3.7	5.4
	1978	1st	816	15.9	1,352	31.8	8,411	6.1	8,339	3.8	8,213	2.3	6.4
		2nd	754	19.9	1,625	30.2	8,803	5.8	8,741	3.9	8,613	2.8	5.4
	Total		5,649	19.8	12,999	33.2	44,913	6.5	44,784	4.3	43,987	3.0	5.6
10 - 12	1976	1st	924	14.3	2,576	27.6	3,421	11.1	3,429	8.5	1,366	4.1	4.4
		2nd	623	16.4	1,082	18.2	2,374	9.0	2,382	7.0	898	3.8	5.7
	1977	1st	561	16.9	1,116	26.3	5,764	7.9	5,754	4.9	2,260	2.3	5.8
		2nd	484	14.5	1,017	20.1	5,534	7.6	5,516	5.5	2,235	3.2	6.5
	1978	1st	515	14.8	813	20.9	5,399	7.2	5,355	4.4	2,250	2.5	7.3
		2nd	438	14.4	731	23.4	5,161	7.3	5,141	5.3	2,096	3.1	5.8
	Total		3,545	15.2	7,335	23.8	27,653	8.1	27,577	5.6	11,105	3.0	6.1
13 - 17	1976	1st	956	15.7	2,086	19.1	3,223	12.8	3,247	10.7	30	-	13.3
		2nd	778	15.6	1,405	13.7	3,002	10.1	3,023	7.8	23	4.3	4.3
	1977	1st	668	17.4	1,114	16.1	6,377	9.8	6,371	7.3	-	-	-
		2nd	567	17.5	1,178	11.9	6,117	9.5	6,121	7.4	-	-	-
	1978	1st	604	11.1	1,173	11.7	5,625	9.7	5,622	6.7	-	-	-
		2nd	530	10.0	773	12.5	5,555	8.8	5,547	7.5	-	-	-
	Total		4,103	14.8	7,729	14.8	29,899	9.9	29,931	7.7	53	1.9	9.4
TOTAL	1976	1st	7,774	13.4	17,330	21.5	29,468	11.5	29,802	6.9	21,742	3.8	9.7
		2nd	6,770	14.4	16,707	16.2	35,546	10.8	36,028	6.5	27,965	4.2	9.4
	1977	1st	8,929	15.6	19,256	20.5	62,149	10.7	62,574	6.1	48,261	3.6	9.6
		2nd	8,489	14.1	21,408	18.0	66,114	10.1	66,505	6.4	52,124	4.0	8.7
	1978	1st	8,230	13.5	18,378	18.1	62,431	10.3	62,645	6.0	48,546	3.5	9.3
		2nd	7,261	14.2	17,591	18.1	63,210	9.9	63,415	6.4	49,046	3.6	7.8
	Total		47,453	14.2	110,670	18.7	318,918	10.4	320,969	6.3	247,684	3.8	9.0

Nutrition Indices by Age, January 1976-December 1978  
Females Less than 18 Years of Age

Table 12b

Age Group	Date	Hemoglobin		Hematocrit		Height-for-Age		Weight-for-Age		Weight-for-Height			
		No. Exam.	% No.	No. Exam.	% No.	No. Exam.	% No.	No. Exam.	% No.	No. Exam.	Low	High	
<1	1976	1st	767	6.5	1,535	8.2	7,499	12.7	7,634	6.5	4,737	5.1	11.9
		2nd	787	7.4	1,932	9.1	9,720	11.0	9,864	6.1	6,365	5.8	11.5
	1977	1st	1,186	7.8	2,671	9.7	14,294	11.9	14,488	6.4	10,109	4.7	11.3
		2nd	1,139	6.2	2,880	8.8	16,642	11.6	16,778	6.5	11,313	5.6	9.6
	1978	1st	1,218	7.3	2,725	9.0	16,887	10.7	17,005	6.0	11,384	4.6	10.3
		2nd	1,043	7.4	2,484	8.3	17,058	10.1	17,154	6.3	10,941	4.8	8.9
	Total		6,140	7.1	14,227	8.9	82,100	11.2	82,923	6.3	54,849	5.0	10.3
	1	1976	1st	1,060	10.2	2,026	9.4	2,662	13.3	2,753	6.2	2,641	4.1
2nd			1,011	8.4	2,554	9.4	3,779	12.4	3,861	7.2	3,742	4.5	13.7
1977		1st	1,682	12.3	3,734	11.1	6,817	12.4	6,938	6.3	6,762	3.7	14.8
		2nd	1,643	8.9	4,100	8.8	7,072	11.6	7,169	6.5	7,001	4.4	13.4
1978		1st	1,671	11.7	4,011	9.2	7,016	12.1	7,101	6.5	7,001	4.1	13.6
		2nd	1,470	10.3	3,655	8.0	6,755	10.1	6,800	6.3	6,700	4.0	12.0
Total		8,537	10.5	20,080	9.3	34,101	11.8	34,622	6.5	33,847	4.1	13.8	
2 - 5		1976	1st	2,660	11.3	5,425	16.2	7,547	10.2	7,655	5.9	7,552	3.0
	2nd		2,524	12.2	6,847	16.1	11,213	9.1	11,324	6.0	11,174	3.3	9.2
	1977	1st	3,522	15.4	8,062	22.8	18,492	9.8	18,632	6.2	18,471	3.0	9.8
		2nd	3,590	15.2	9,183	20.6	19,909	9.5	19,999	6.4	19,873	3.2	9.1
	1978	1st	3,074	17.7	7,932	22.1	17,572	10.1	17,609	6.3	17,487	2.8	9.9
		2nd	2,849	16.3	7,507	21.2	18,043	9.3	18,105	6.7	18,009	2.9	8.6
	Total		18,219	14.9	44,956	20.1	92,776	9.7	93,324	6.3	92,566	3.0	9.5
	6 - 9	1976	1st	1,286	20.2	3,652	36.4	4,903	7.3	4,923	5.5	4,225	4.5
2nd			904	23.9	2,246	27.7	4,327	5.3	4,344	4.7	3,806	5.1	5.3
1977		1st	903	21.5	1,861	32.5	8,805	5.7	8,805	4.1	7,717	2.9	6.9
		2nd	822	23.5	2,088	29.8	9,087	6.0	9,088	5.3	8,047	4.3	6.7
1978		1st	801	19.0	1,293	32.8	8,422	5.3	8,371	3.6	7,408	2.6	7.6
		2nd	665	22.1	1,494	29.9	8,552	5.3	8,536	4.4	7,518	3.3	7.0
Total		5,381	21.6	12,634	32.0	44,096	5.8	44,067	4.5	38,721	3.6	6.6	
10 - 12		1976	1st	868	14.5	2,759	25.0	3,539	10.1	3,582	9.1	35	8.6
	2nd		614	21.8	1,088	16.1	2,468	8.2	2,479	6.6	31	6.5	-
	1977	1st	602	17.4	1,117	22.4	5,879	7.8	5,867	5.8	64	4.7	4.7
		2nd	531	20.0	1,005	21.0	5,535	8.3	5,523	6.3	64	3.1	9.4
	1978	1st	494	13.0	799	20.2	5,302	8.3	5,282	5.8	64	3.1	9.4
		2nd	429	14.2	726	17.9	5,211	7.0	5,205	5.4	60	1.7	3.3
	Total		3,538	16.8	7,494	21.6	27,934	8.2	27,938	6.3	318	4.1	5.3
	13 - 17	1976	1st	1,085	17.6	2,572	19.9	3,772	8.4	3,839	7.1	28	7.1
2nd			983	20.8	1,657	15.1	3,473	6.5	3,492	5.2	10	10.0	30.0
1977		1st	1,173	18.1	1,909	22.3	7,903	7.1	7,934	4.2	-	-	-
		2nd	1,207	16.9	1,955	24.1	7,744	7.1	7,757	4.1	-	-	-
1978		1st	1,276	13.8	2,130	25.8	7,472	7.1	7,534	3.8	-	-	-
		2nd	903	16.9	1,545	28.7	6,981	7.2	7,006	3.8	-	-	-
Total		6,627	17.2	11,768	22.5	37,350	7.2	37,562	4.4	38	7.9	15.8	
TOTAL		1976	1st	7,726	13.4	17,969	20.7	29,922	10.4	30,386	6.6	19,218	4.0
	2nd		6,823	14.7	16,324	15.7	34,980	9.2	35,364	6.0	25,128	4.4	9.8
	1977	1st	9,068	14.9	19,354	19.6	62,190	9.5	62,664	5.7	43,123	3.5	10.4
		2nd	8,932	14.2	21,211	18.0	65,989	9.4	66,314	6.0	46,298	4.1	9.4
	1978	1st	8,534	14.3	18,890	18.5	62,676	9.3	62,902	5.5	43,344	3.4	10.2
		2nd	7,359	14.3	17,411	17.9	62,600	8.6	62,806	5.8	43,228	3.6	8.9
	Total		48,442	14.3	111,159	18.5	318,357	9.3	320,436	5.9	220,339	3.8	9.8