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CENTER FOR DISEASE CONTROL NUTRITION SURVEILLANCE

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

PREFACE

This report summarizes information, including selected indices of nutrition status, received from 11 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 (October-December 1976)

Data presented in Tables 1-3 represent children examined during the fourth quarter of 1976. 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.

Of the five states each submitting more than 3,000 new examinations, Arizona continues to have the lowest prevalence of low hematologic values, and the highest of low height-for-age, low weight-for-height, and high weight-for-height (Table 1).

Of the four most frequently represented ethnic groups, and with all ages combined, the same pattern - the least "anemia" and the most "stunting," "wasting" and overweight - is displayed, with two exceptions, in American Indians. The exceptions: for males, Spanish Americans have the same prevalence of low hematocrit values; for females, Blacks have a slightly higher prevalence of overweight (Table 2).

Of the various age groups, with all ethnic groups combined, this pattern is seen again, with one exception, among children less than 2 years of age. The exception: for females, 6-9 year olds have slightly more wasting (Table 3).

CRITERIA FOR IDENTIFYING INDIVIDUALS WITH LOW OR HIGH VALUES

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

Age	Hgb.	Hct.
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%

- 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.
- 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.
- 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. <u>High Weight-for-Height</u>: 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:

Age

Reference Population Data

Birth -	24		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.

		Hemogl		Hemato		Height	-For-Age	Weight-	-For-Age	Weight	-For-	Height
	State	No.	%	No.	%	No.	%	No.	%	No.	%	%
-	State	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High
	Arizona	1,249	7.2	1,671	12.3	3,423	16.8	3,292	10.2	2,369	7.0	13.3
	California (Los			,								
	Angeles County)	79	13.9	245	20.8	737	7.3	737	4.6	618	1.9	7.9
	Florida	26	11.5	49	20.4	322	6.8	370	4.6	210	5.2	6.7
	Kentucky	1,389	18.0	1,643	17.4	4,710	12.3	4,715	6.6	3,394	5.4	12.9
	Louisiana	2,676	18.4	1,492	16.8	4,933	10.3	5,021	7.0	3,115	5.2	9.7
	Montana	32	6.3	614	12.2	919	13.7	937	5.0	804	2.9	8.1
	Nevada	45	2.2	210	24.8	323	8.4	325	4.6	311	9.3	8.0
	Ohio	353	4.5	1,045	13.5	2,105	7.4	2,110	5.9	1,666	6.1	8.3
	Oregon	286	15.4	720	12.2	1,318	9.1	1,318	5.7	967	2.7	10.3
	Tennessee	99	4.0	5,201	18.3	7,008	11.3	7,064	5.8	5,275	4.2	13.2
1	Washington	230	8.7	2,586	9.7	4,110	12.6	4,110	5.7	3,603	2.9	12.5
	Total	6,464	14.4	15,476	15.3	29,908	11.6	29,999	6.5	22,332	4.6	11.6

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

		Hemos	lobin	Hemat	ocrit	Height-	For-Age	Weight-	For-Age	Weigh	t-For-l	
	Sex and	No.	%	No.	%	No.	%	No.	%	No.	%	%
	Ethnic Group	Exam.		Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High
		10										
	Male					0 (17	11 7	2 (00	7 0	2,548	4.4	10.8
	Black	1,173	19.7	1,519	20.5	3,617	11.7	3,690	7.0		4.4	11.5
	White	1,510	12.8	5,041	14.8	8,985	11.6	9,003	6.2	7,088		10.8
	Sp. American	371	9.7	499	12.6	988	14.3	962	7.0	793	4.0	
	Am. Indian	89	3.4	406	12.6	899	20.6	896	9.5	691	7.8	14.0
	Oriental	6	0.0	28	0.0	51	29.4	51	9.8	43	4.7	4.7
	Other	7	14.3	53	15.1	72	19.4	74	12.2	66	10.6	9.1
	Unknown	36	11.1	285	11.9	562	9.1	557	4.1	539	2.2	10.4
	Total	3,192	14.7	7,831	15.5	15,174	12.3	15,233	6.6	11,768	4.5	11.4
4	Female											
	Black	1,231	19.9	1,524	19.4	3,600	9.9	3,647	6.7	2,310	6.4	10.5
	White	1,532	11.8	4,848	14.1	8,623	10.9	8,647	6.3	6,295	4.6	11.4
	Sp. American	372	7.8	497	15.9	984	11.8	961	7.0	706	3.5	14.3
	Am. Indian	86	4.7	431	13.0	887	15.4	874	7.7	666	6.0	21.0
	Oriental	7	28.6	23	4.3	46	19.6	46	13.0	37	5.4	8.1
	Other	12	0.0	42	16.7	68	11.8	68	7.4	53	3.8	11.3
	Unknown	29	13.8	262	8.4	526	7.0	523	1.7	497	1.2	9.3
	Total	3,269	14.2	7,627	15.0	14,734	10.9	14,766	6.4	10,564	4.8	11.9

Nutrition Indices by Sex and Ethnic Group, October-December 1976 Persons Less than 18 Years of Age

		lobin	the second se	ocrit	Height-	For-Age	Weight-1	For-Age	Weight	-For-	Height
Sex and	No.	%	No.	%	No.	%	No.	%	No.	%	%
Age Group	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High
Male											
<1	395	11.4	1,008	9.5	5,368	14.7	5,395	6.4	3,613	6.2	11.8
1	501	12.6	1,360	8.9	1,793	16.0	1,815	9.1	1,770	5.9	16.9
2-5	1,301	13.8	3,363	17.0	4,737	10.7	4,739	5.5	4,693	2.8	10.2
6-9	402	23.6	884	28.8	1,426	6.6	1,432	5.1	1,397	3.9	7.7
10-12	259	15.4	485	17.5	769	10.4	771	9.5	295	4.4	7.8
13-17	334	14.1	731	11.6	1,081	10.9	1,081	8.3	_	_	-
Total	3,192	14.7	7,831	15.5	15,174	12.3	15,233	6.6	11,768	4.5	11.4
S											
Female											
<1	417	7.7	990	8.4	5,083	12.1	5,089	6.4	3,219	6.1	12.1
1	503	10.1	1,202	9.7	1,645	14.3	1,655	7.1	1,611	4.8	16.1
2-5	1,270	12.3	3,240	16.1	4,587	11.0	4,591	6.4	4,541	3.7	11.8
6-9	365	22.2	878	27.0	1,359	5.2	1,364	4.8	1,185	6.2	6.3
10-12	262	21.8	490	13.9	802	9.0	802	7.1	1,105	0.0	0.0
13-17	452	19.5	827	14.3	1,258	8.1	1,265	6.6	- 0	-	-
Total	3,269	14.2	7,627	15.0	14,734	10.9	14,766	6.4	10,564	4.8	11.9

Nutrition Indices by Sex and Age, October-December 1976 Persons Less than 18 Years of Age

NUTRITION INDICES (January-December 1976)

Data presented in Tables 4, 5a & b, and 6a & b, summarize, the results of all children examined on initial visits during calendar year 1976. Their numbers are higher than the combined numbers presented earlier by individual quarters, because additional data have been reported subsequent to publication of prior bulletins.

Table 4 makes evident the wide range in values of various nutrition indices among states, and for the two hematologic indices, within certain states. To what extent these variations are due to methodologic, rather than biologic differences is unknown.

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

			Hemog. No.	lobin %	Hemat No.	ocrit %	Height F	or Age	Weight H	For Age	Weight No.	For 1	Height %
State	Date		Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High
Arizona	1976	lst	4,053	10.1	5,360	14.9	9,708	15.8	9,636	8.5	7,529	5.3	15.3
		2nd	2,593	8.7	3,309	12.6	6,699	15.9	6,550	10.0	4,771	7.1	12.0
	Total		6,646	9.5	8,669	14.0	16,407	15.8	16,186	9.1	12,300	6.0	14.0
California	1976	lst	847	8.4	761	29.0	1,792	8.6	1,775	5.0	1,691	1.5	9.0
		2nd	182	13.7	453	28.7	1,074	7.9	1,073	4.4	901	2.1	8.5
	Total		1,029	9.3	1,214	28.9	2,866	8.4	2,848	4.8	2,592	1.7	8.9
Florida	1976	lst	29	0.0	41	9.8	111	6.3	149	9.4	78	3.8	10.3
		2nd	51	11.8	161	21.1	657	7.5	781	6.5	455	5.1	8.1
	Total		80	7.5	202	18.8	768	7.3	930	7.0	533	4.9	8.4
Kentucky	1976	lst	1,856	12.9	2,404	14.3	6,351	12.6	6,376	6.6	4,248	4.7	12.3
		2nd	2,300	15.3	3,592	17.4	8,694	11.7	8,709	6.8	6,222	5.8	11.7
	Total		4,156	14.2	5,996	16.1	15,045	12.1	15,085	6.7	10,470	5.3	12.0
Louisiana	1976	lst	7,322	16.0	11,920	31.0	21,489	11.7	21,669	7.6	11,614	4.3	8.7
		2nd	6,008	18.9	3,190	15.9	10,707	10.1	10,895	6.8	6,737	5.7	9.6
	Total		13,330	17.3	15,110	27.8	32,196	11.2	32,564	7.3	18,351	4.8	9.0
Montana	1976	lst	1	-	2,491	11.8	2,918	9.2	2,914	6.1	2,091	2.6	7.6
		2nd	37	8.1	1,308	11.9	1,885	13.3	1,900	6.8	1,672	3.2	8.1
	Total		38	7.9	3,799	11.8	4,803	10.8	4,814	6.4	3,763	2.9	7.8
Ohio	1976	lst	28	10.7	-	-	28	3.6	28	3.6	28	3.6	14.3
		2nd	738	5.3	2,164	14.7	3,997	8.2	4,013	6.4	3,288	6.1	8.3
	Total		766	5.5	2,164	14.7	4,025	8.2	4,041	6.3	3,316	6.1	8.4
Oregon	1976	lst	88	15.9	1,431	16.7	2,344	8.2	2,345	4.7	1,696	1.7	9.4
		2nd	462	14.1	1,382	10.2	2,515	9.6	2,515	5.3	2,056	2.7	10.1
	Total	a succession in the second	550	14.4	2,813	13.5	4,859	9.0	4,860	5.0	3,752	2.3	9.8
Tennessee	1976	lst	245	7.8	6,375	18.3	8,342	12.3	8,442	6.6	5,808	4.1	12.5
	-	2nd	279	3.6	10,290	19.2	13,524	11.0	13,668	5.6	9,964	4.2	12.3
	Total		524	5.5	16,665	18.9	21,866	11.5	22,110	6.0	15,772	4.2	12.4
Washington	1976	lst	420	11.9	4,131	14.6	6,280	13.9	6,271	7.2	5,280	3.7	13.7
		2nd	436	8.9	4,837	11.2	7,544	12.5	7,546	5.9	6,484	3.2	12.5
	Total		856	10.4	8,968	12.8	13,824	13.2	13,817	6.5	11,764	3.4	13.0
	1074	1	1/ 000	12 2	2/ 01/	01 1	50 262	10 /	50 (05	7 0	10.0(2	/ 1	11 5
TOTAL	1976	lst	14,889	13.3	34,914 30,686	21.1 15.8	59,363	12.4	59,605	7.2	40,063	4.1	11.5
	moment	2nd	13,086	14.5	65,600	18.6	57,296	11.4	57,650	6.6	42,550	4.9	11.1
	TOTAL		21,915	13.0	05,000	10.0	110,009	11.9	117,255	6.9	82,613	4.5	11.3

		Hemoglobin	Hematocrit	Height For Age	Weight For Age	Weight For Height
		No. %	No. %	No. %	No. %	No. % %
Ethnic Group	Date	Exam. Low	Exam. Low	Exam. Low	Exam. Low	Exam. Low High
Black	1976 1st 2nd	3,294 17.4 2,670 19.1	5,961 31.2 2,770 19.0	10,740 12.7 7,012 11.3	10,827 7.7 7,158 6.8	6,707 4.1 8.5 4,819 4.9 10.2
	Total	5,964 18.2	8,731 27.3	17,752 12.1	17,985 7.4	11,526 4.5 9.2
White	1976 lst 2nd Total	2,754 9.6 2,864 11.3 5,618 10.5	8,107 16.2 10,362 15.8 18,469 16.0	13,105 12.6 17,399 11.8 30,504 12.1	13,164 7.0 17,477 6.6 30,641 6.8	10,071 3.7 10.6 13,829 4.7 10.8 23,900 4.3 10.7
Sp. American	1976 lst 2nd Total	1,166 10.6 765 10.8 1,931 10.7	1,204 17.2 1,025 14.6 2,229 16.0	2,436 12.8 1,988 15.0 4,424 13.8	2,440 6.9 1,959 8.0 4,399 7.4	2,048 3.1 14.1 1,577 3.7 10.8 3,625 3.3 12.6
Am. Indian	1976 lst 2nd Total	$ \begin{array}{r} 144 & 9.0 \\ 123 & 5.7 \\ \hline 267 & 7.5 \end{array} $	1,425 17.6 745 14.8 2,170 16.6	2,217 16.0 1,545 18.6 3,762 17.0	2,164 8.0 1,537 9.4 3,701 8.6	1,762 6.8 18.3 1,199 7.8 14.8 2,961 7.2 16.9
Orient., Other & Unknown	1976 lst 2nd Total	109 11.9 98 7.1 207 9.7	415 10.8 612 10.3 1,027 10.5	922 12.6 1,106 12.9 2,028 12.8	925 9.1 1,105 6.2 2,030 7.5	655 2.4 8.9 1,031 3.5 9.2 1,686 3.1 9.1
TOTAL	1976 lst 2nd TOTAL	7,467 13.2 6,520 14.3 13,987 13.7	17,112 21.5 15,514 16.0 32,626 18.9	29,420 12.9 29,050 12.3 58,470 12.6	29,520 7.4 29,236 6.9 58,756 7.1	21,243 4.0 10.9 22,455 4.7 10.8 43,698 4.4 10.8

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

		Hemog	lobin	Hemato	ocrit	Height F	or Age	Weight Fo	r Age	Weight	For	Height
		No.	%	No.	%	No.	%	No.	%	No.	%	%
Ethnic Group	Date	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High
Black												
	1976 1st	3,281	16.9	6,506	29.2	11,316	10.9	11,419	7.0	5,387	4.5	10.3
	2nc	2,755	20.0	2,818	18.3	7,049	9.6	7,172	6.3	4,332	5.8	10.8
	Total	6,036	18.3	9,324	26.0	18,365	10.4	18,591	6.8	9,719	5.1	10.5
White												
	1976 ls	2,623	10.3	8,095	15.4	12,908	11.7	12,988	6.8	8,997	4.4	11.3
	2n	2,827	11.3	10,067	15.0	16,783	10.5	16,867	6.3	12,326	4.8	10.8
	Total	5,450	10.8	18,162	15.2	29,691	11.0	29,855	6.5	21,323	4.6	11.0
Sp. American												
	1976 ls	1,231	10.7	1,243	15.8	2,476	14.1	2,468	6.8	2,010	2.8	14.5
	2n	d 755	9.7	1,015	16.4	1,935	12.5	1,905	7.2	1,412	5.1	13.4
	Total	1,986	10.3	2,258	16.1	4,411	13.4	4,373	7.0	3,422	3.7	14.1
Am. Indian									,			
	1976 ls	t 171	9.4	1,534	18.4	2,372	15.7	2,342	7.4	1,823	4.3	20.4
	2n	d 136	7.4	734	14.2	1,465	14.8	1,457	7.4	1,103	5.5	19.3
	Total	307	8.5	2,268	17.0	3,837	15.4	3,799	7.4	2,926	4.8	20.0
Orient., Other												
& Unknown	1976 ls	t 116	12.1	423	13.0	869	13.0	866	7.3	602	2.3	10.6
	2n	d 93	11.8	538	10.2	1,014	10.0	1,013	4.8	922	2.8	9.5
	Total	209	12.0	961	11.4	1,883	11.4	1,879	6.0	1,524	2.6	10.0
										and the second secon		
TOTAL	1976 ls	t 7,422	13.3	17,802	20.7	29,943	11.9	30,085	7.0	18,820	4.2	12.2
	2r			15,172	15.5	28,246	10.6	28,414	6.4	20,095	5.0	11.4
	TOTAL	13,988		32,974	18.3	58,189	11.3	58,499	6.7	38,915	4.6	11.8

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

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

		Hemog No.	lobin %	Hemat No.	ocrit %	Height H	For Age	Weight No.	For Age %	Weight No.	For %	Height %
Age Group	Date	Exam.		Exam.		Exam.	Low	Exam.	Low	Exam.	Low	High
<u><1</u>	1976 1st 2nd	722 753	9.1 9.7	1,523 1,951	8.1 7.8	7,765	15.2	7,800 10,013	6.9 6.7	5,193 6,673	5.4 6.3	12.9 11.8
	Total	1,475	9.4	3,474	8.0	17,682	14.6	17,813	6.8	11,866	5.9	12.3
1	1976 lst	998	10.5	2,006	8.9	2,638	17.2	2,680	9.1 9.1	2,589 3,219	5.0 6.0	17.3 16.0
	2nd Total	<u>963</u> 1,961	10.9	2,493 4,499	8.6	3,257 5,895	16.5 16.8	3,294 5,974	9.1	5,808	5.6	16.6
2-5	1976 lst 2nd	2,580 2,456	12.2	5,434 6,489	17.1	7,517 8,773	11.3 10.6	7,536 8,797	6.0 5.9	7,469 8,713	2.9 3.1	11.1 9.8
	Total	5,036	12.3	11,923	17.0	16,290	10.9	16,333	5.9	16,182	3.0	10.4
6-9	1976 1st 2nd	1,289 952	17.1 24.1	3,508 2,210	38.1 29.3	4,778 3,299	8.2 7.7	4,777 3,316	4.6 5.6	4,624 3,244	3.5 4.7	6.1 6.9
	Total	2,241	20.1	5,718	34.7	8,077	8.0	8,093	5.0	7,868	4.0	6.4
10-12	1976 lst 2nd	924 618	14.3 16.0	2,558 1,024	27.7	3,412	11.6 10.1	3,417 1,655	8.6 8.0	1,368 606	4.2 4.6	5.9 7.8
	Total	1,542	15.0	3,582	25.0	5,061	11.1	5,072	8.4	1,974	4.4	6.5
13-17	1976 lst 2nd	954 778	15.6	2,083 1,347	19.1 13.9	3,310 2,155	16.1	3,310 2,161	13.3 9.7	-	-	_
	Total	1,732	15.6	3,430	17.1	5,465	14.7	5,471	11.8	-	-	-
TOTAL	1976 1st 2nd	7,467 6,520	13.2 14.3	17,112 15,514	21.5	29,420 29,050	12.9 12.3	29,520 29,236	7.4	21,243 22,455	4.0	10.9
and the second state of the	TOTAL	13,987	13.7	32,626	18.9	58,470	12.6	58,756	7.1	43,698	4.4	10.8

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

			Hemogl	lobin	Hemato	ocrit	Height F	or Age	Weight F	or Age	Weight		
			No.	%	No.	%	No.	%	No.	%	No.	%	%
Age Group	Date		Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High
<1	1976	lst	722	6.8	1,497	8.2	7,656	14.1	7,735	6.6	4,711	5.7	13.2
		2nd	760	7.2	1,828	8.9	9,434	12.1	9,516	6.2	5,914	6.0	12.4
	Total		1,482	7.0	3,325	8.6	17,090	13.0	17,251	6.4	10,625	5.9	12.8
1	1976	lst	972	10.3	1,983	9.4	2,618	15.5	2,647	6.6	2,568	3.7	19.6
_		2nd	946	8.1	2,309	9.2	3,047	14.4	3,082	7.6	2,993	5.0	15.9
	Total		1,918	9.2	4,292	9.3	5,665	14.9	5,729	7.1	5,561	4.4	17.6
2-5	1976	lst	2,493	10.4	5,344	15.8	7,352	11.7	7,371	6.2	7,296	3.2	12.5
		2nd	2,369	11.8	6,257	15.5	8,477	10.3	8,495	6.4	8,404	3.8	10.8
	Total		4,862	11.1	11,601	15.6	15,829	11.0	15,866	6.3	15,700	3.5	11.6
	1000 - 100 -	an a											
6-9	1976	lst	1,282	20.3	3,650	36.4	4,893	7.7	4,893	5.6	4,210	4.5	6.3
		2nd	900	23.9	2,136	27.9	3,119	5.8	3,130	5.3	2,762	6.2	6.4
	Total	L	2,182	21.8	5,786	33.2	8,012	7.0	8,023	5.5	6,972	5.2	6.4
10-12	1976	lst	868	14.5	2,758	25.1	3,556	10.9	3,562	9.4	35	8.6	0.0
		2nd	609	21.8	1,034	16.3	1,658	9.3	1,660	7.4	22	9.1	0.0
			1,477	17.5	3,792	22.7	5,214	10.4	5,222	8.8	57	8.8	
		2.2.3.1.2.2.2											
13-17	1976	lst	1,085	17.6	2,570	19.9	3,868	12.0	3,877	9.0	-	-	_
10 11		2nd	982	20.8	1,608	15.2	2,511	8.2	2,531	6.5	-	-	-
	Tota		2,067	19.1	4,178	18.1	6,379	10.5	6,408	8.0	-	-	_
TOTAL	1976	lst	7,422	13.3	17,802	20.7	29,943	11.9	30,085	7.0	18,820	4.2	12.2
LOTIN		2nd	6,566	14.7	15,172	15.5	28,246	10.6	28,414	6.4	20,095	5.0	11.4
	TOTA		13,988	13.9	32,974	18.3	58,189	11.3	58,499	6.7	38,915	4.6	11.8
						A DECEMBER OF							

SPECIAL REPORTS

THREE YEAR TABULAR SUMMARY OF NUTRITION INDICES

In the June and September 1976 issues of Nutrition Surveillance no narrative comment on the summarized tables was presented. Comment was omitted because it had become increasingly evident that differences in prevalence rates among states, and within states over short periods of time, were due not so much to biologic or socio-economic factors as to other causes, apparently random in nature. Prominent among these causes are variations in methodology, precision and accuracy in performing the anthropometric and hematologic determinations. These problems have been discussed previously and will be further discussed in future bulletins.

With this December 1976 issue, 3 full years of nutrition surveillance will have been completed. In the perspective of 3 years, certain trends in the various nutrition indices among the children whose measurements are submitted to the nutrition surveillance data bank seem more clearly discernible.

Data presented in Tables 7, 8a & b, and 9a & b summarize the results of all children examined on initial visits in Arizona, Kentucky, Louisiana, Tennessee, and Washington from January 1974 through December 1976.

Nutrition Indices by State, January 1974-December 1976 Persons Less than 18 Years of Age

			Hemog		Hemat		Height F	or Age	Weight	and the statement of th	Weight No.	For 1	Height %
State	Date		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	Low	No. Exam.	% Low	Exam.	Low	High
Arizona	1974	lst	4,252	17.2	2,777	18.3	6,207	16.5	6,249	9.2	5,198	5.9	16.6
AI 120Hd	1)/4	2nd	2,914	19.5	2,390	16.0	4,720	17.7	4,656	10.0	3,311	7.2	17.7
	1975	lst	4,135	15.2	7,485	18.9	13,059	18.8	13,028	8.8	10,959	5.0	18.5
	2010	2nd	3,362	12.7	3,237	16.2	7,356	17.0	7,305	9.3	5,624	6.3	14.1
	1976	lst	4,053	10.1	5,360	14.9	9,708	15.8	9,636	8.5	7,529	5.3	15.3
	2010	2nd	2,593	8.7	3,309	12.6	6,699	15.9	6,550	10.0	4,771	7.1	12.0
	Total		21,309	14.0	24,558	16.5	47,749	17.1	47,424	9.2	37,392	5.9	16.0
Kentucky	1974	lst	5,180	15.4	5,531	22.0	11,654	15.4	11,457	7.5	8,926	6.7	16.0
		2nd	2,669	18.7	1,930	24.7	6,132	15.0	6,134	8.3	4,159	8.6	13.7
	1975	lst	2,041	18.1	2,455	18.0	6,475	14.2	6,486	7.8	4,613	6.7	13.7
		2nd	2,750	14.7	3,690	18.3	8,477	10.7	8,511	6.7	5,725	6.0	9.3
	1976	lst	1,856	12.9	2,404	14.3	6,351	12.6	6,376	6.6	4,248	4.7	12.3
		2nd	2,300	15.3	3,592	17.4	8,694	11.7	8,709	6.8	6,222	5.8	11.7
	Total		16,796	15.8	19,602	19.3	47,783	13.3	47,673	7.2	33,893	6.4	13.0
Louisiana	1974	lst	249	26.5	24	45.8	278	10.4	280	7.1	144	4.2	17.4
		2nd	1,659	20.2	418	24.2	2,081	10.7	2,094	7.0	988	4.5	11.1
	1975	lst	10,556	20.1	3,048	17.1	14,037	10.9	14,197	7.4	7,121	5.0	9.5
		2nd	6,658	19.0	2,436	19.3	9,835	11.3	9,982	7.5	5,777	5.7	10.6
	1976	lst	7,322	16.0	11,920	31.0	21,489	11.7	21,669	7.6	11,614	4.3	8.7
		2nd	6,008	18.9	3,190	15.9	10,707	10.1	10,895	6.8	6,737	5.7	9.6
	Total		32,452	18.7	21,036	25.2	58,427	11.1	59,117	7.4	32,381	5.0	9.5
Tennessee	1974	lst	210	14.3	2,614	19.1	3,102	13.5	3,150	7.9	2,497	5.6	13.4
	1075	2nd	586	7.0	7,402	20.7	8,320	11.0	8,484	6.0	5,872	5.1	10.7
	1975	lst	980	6.3	12,143	20.7	14,481	10.6	14,795	6.3	10,339	4.9	11.3
	1976	2nd	777 245	6.8 7.8	10,293	20.4	12,847	11.2	12,980	6.6	9,115	5.1	10.7
	1970	lst 2nd	245	3.6	6,375 10,290	18.3	8,342	12.3	8,442	6.6	5,808	4.1	12.5
	Total	2110	3,077	7.0	49,117	19.2	13,524 60,616	11.0	13,668	5.6	9,964	4.2	12.3
Uschington	1974	lst	1,645	8.6	7,891	11.6	10,748	THE R. P. LEWIS CO., LANSING, MICH.	61,519	6.3	43,595	4.8	11.6
Washington	1974	2nd	561	9.1	4,755	10.3	6,591	13.8 12.9	10,682	6.1 6.1	9,981	3.7	15.4
	1975	lst	911	9.0	5,977	11.1	8,469	13.6	8,474	7.2	5,993 7,375	3.9	13.8 13.1
	2775	2nd	563	9.8	5,337	11.2	8,116	11.6	8,105	6.2	6,960	3.1	11.7
	1976	lst	420	-	4,131	14.6	6,280	13.9	6,271	7.2	5,280	3.7	13.7
		2nd	436	8.9	4,837	11.2	7,544	12.5	7,546	5.9	6,484	3.2	12.5
	Total		4,536		32,928	11.6	47,748	13.1	47,676	6.4	42,073	3.5	13.5
TOTAL	1974	lst	11,536	15.3	18,837	16.7	31,989	14.9	31,818	7.4	26,746	5.3	15.7
10110		2nd	8,389		16,895	17.7	27,844	13.4	27,966	7.3	20,323	5.8	13.4
	1975	lst	18,623		31,108		56,521	13.4	56,980	7.4	40,407	4.9	13.5
		2nd	14,110		24,993		46,631	12.1	46,883	7.2	33,201	5.1	11.2
	1976	lst	13,896		30,190		52,170	12.9	52,394	7.4	34,479	4.4	12.0
		2nd	11,616		25,218		47,168	11.9	47,368	6.8	34,178	5.0	11.7
	TOTAL		78,170	15.8	147,241	18.1	262,323	13.0	263,409	7.2	189,334	5.0	12,8

Nutrition Indices by Ethnic Group, January 1974-December 1976 Males Less than 18 Years of Age

				labda	Venet	andt	Height H	For Age	Weight	For Age	Weight	For I	Intakt
			Hemog. No.	2	Hemato No.	%	No.	%	No.	%	No.	%	ž
Ethnic Group	Date		Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	Exam.	Low	High
Black	Duce		Dital										
DIGCK	1974	lst	1,061	19.8	1,407	21.7	2,426	16.4	2,398	8.6	1,990	6.0	13.2
		2nd	1,187	20.1	1,193	23.9	2,640	15.1	2,646	8.2	1,730	5.2	12.0
	1975	lst	4,683	20.9	2,539	18.5	7,773	12.5	7,851	8.2	4,654	5.3	9.9
		2nd	3,426	18.1	2,287	20.4	6,409	12.2	6,470	7.4	4,154	6.1	10.1
	1976	lst	3,242	17.5	5,924	31.3	10,638	12.8	10,719	7.7	6,622	4.2	8.5
		2nd	2,633	19.3	2,561	18.4	6,600	11.6	6,707	6.9	4,488	4.9	10.5
	Total		16,232	19.2	15,911	24.2	36,486	12.8	36,791	7.7	23,638	5.1	10.1
White													1.123
	1974	lst	3,362	12.8	5,751	17.3	10,028	14.7	9,950	7.2	8,413	5.4	14.0
		2nd	1,938	14.4	5,696	18.9	8,758	12.9	8,822	7.1	6,654	6.6	11.9
	1975	lst	2,893	13.0	8,793	18.4	13,305	12.5	13,454	7.4	10,508	5.2	11.2
		2nd	2,489	12.1	8,208	17.7	13,059	11.6	13,146	6.8	10,167	4.8	10.4
	1976	lst	2,590	9.5	6,435	16.4	10,953	13.2	11,012	7.2	8,327	4.0	11.4
		2nd	2,330	12.4	8,129	16.4	13,451	12.4	13,503	6.8	10,488	4.8	11.8
	Total		15,602	12.3	43,012	17.5	69,554	12.8	69,887	7.1	54,557	5.1	11.7
Sp. American	107/							10 5		7.0	1 704	F (10.0
	1974	lst	943	18.5	999	17.1	1,941	18.5	1,952	7.9	1,736	5.4	19.0
	1075	2nd	829	24.2	857	15.5	1,614	19.7	1,603	8.7	1,319	6.7	18.0
	1975	lst 2nd	1,076	18.5	1,049	19.3	2,038	18.8	2,048	8.4	1,660 1,349	4.3	15.0 15.3
	1976	lst	753 918	13.1	723 972	14.4	1,695	15.6 13.8	1,699	7.7	1,555	3.6	14.3
	1970	2nd	647	10.0	845	13.5	1,564	15.7	1,532	8.7	1,197	4.3	10.4
	Total	Znu	5,166	16.4	5,445	16.1	10,761	17.1	10,748	8.1	8,816	5.0	15.6
Am. Indian	rocur	1215-71	5,100	1014	5,445	10.1	10,701	1/.1	10,740	0.1	0,010	510	
Aut. Indian	1974	lst	282	12.1	804	10.0	1,024	13.4	1,017	4.3	941	3.1	23.0
	2774	2nd	139	9.4	488	9.6	634	14.2	634	7.6	546	4.4	18.7
	1975	lst	234	10.7	2,487	19.3	3,913	20.0	3,867	9.0	3,491	4.5	20.4
		2nd	239	12.6	780	20.5	1,531	18.7	1,501	9.6	1,217	5.9	15.4
	1976	lst	143	8.4	1,106	18.6	1,853	18.0	1,801	8.9	1,506	7.5	19.0
		2nd	97	4.1	615	14.3	1,327	19.0	1,312	10.1	1,018	8.2	15.4
	Total		1,134	10.4	6,280	16.9	10,282	18.3	10,132	8.7	8,719	5.5	19.0
Orient., Other				100000000000000000000000000000000000000	CONTRACT STOLEN		And the second second		Contraction of Contract of Contract		and the second se		
& Unknown	1974	lst	207	10.6	566	10.2	769	17.7	769	9.8	716	6.4	13.7
		2nd	115	11.3	340	9.7	453	13.9	459	7.2	378	4.2	10.3
	1975	lst	375	17.3	670	14.9	1,083	12.9	1,095	6.8	801	4.4	9.6
		2nd	116	17.2	453	14.1	669	13.2	667	8.4	518	5.8	9.8
	1976	lst	80	12.5	302	9.9	430	17.2	433	12.0	358	3.4	11.5
		2nd	54	7.4	491	10.4	854	12.4	852	5.8	798	3.1	9.5
CALL OF COMPANY OF THE OWNER	Total		947	14.1	2,822	11.9	4,258	14.3	4,275	8.0	3,569	4.6	10.7
TOTAL							110000000000000000000000000000000000000						
	1974	lst	5,855	14.9	9,527	16.9	16,188	15.5	16,086	7.5	13,796	5.4	15.1
		2nd	4,208	17.7	8,574	18.4	14,099	14.2	14,164	7.5	10,627	6.2	12.9
													12.7
	1975	lst	9,261	17.8	15,538	18.5	28,112	14.0	28,315	7.9	21,114	5.0	
		2nd	7,023	15.3	12,451	18.5	28,112 23,363	14.0	28,315 23,483	7.9	21,114 17,405	5.3	11.0
	1975 1976	2nd 1st	7,023 6,973	15.3 13.5	12,451 14,739							5.3	11.0 11.2
		2nd	7,023	15.3	12,451	18.0 22.4 16.3	23,363	12.5	23,483	7.3	17,405	5.3	11.0

Nutrition Indices by Ethnic Group, January 1974-December 1976 Females Less than 18 Years of Age

			Hemos No.	lobin Z	Hema No.	tocrit Z		Height For Age No. Z		Weight For Age		for Height
Ethnic Group	Date		Exam.		Exam		Exam.	Z Low	No. Exam.	2 Low	No. Exam. I	X X ow High
Black					Dirtain		DAGE.	LOW	Exam,	LOW	Exam. 1	ow High
	1974	lst	1,064	20.2	1,469	21.5	2,474	14.0	2,453	8.0	1,981	.7 15.8
		2nd	1,239	17.9	1,244		2,739	12.6	2,740	7.8		.9 14.2
	1975	lst	4,705	20.6	2,531	19.2	7,811	11.0	7,897	6.4		.0 10.8
		2nd	3,347	19.2	2,435	20.7	6,402	10.6	6,475	6.6		.3 11.6
	1976	lst	3,199	17.0	6,473	29.3	11,182	10.9	11,273	7.1		.5 10.3
		2nd	2,708	20.1	2,612	17.8	6,622	9.8	6,709	6.4		.9 11.1
	Total		16,262	19.3	16,764	23.4	37,230	11.0	37,547	6.8		.2 11.6
White						A. 204 (212) 31	Designed and the set		CONTRACTOR OF STREET, STRE	A DESCRIPTION OF		A REAL PROPERTY AND
	1974	lst	3,111	13.4	5,524	16.2	9,597	14.0	9,532	7.4	7,689 5	.7 14.9
		2nd	1,847	17.0	5,484	17.1	8,372	11.8	8,436	6.5		.5 12.5
	1975	lst	2,902	13.1	8,756	16.5	13,428	11.5	13,600	7.2	9,582 5	.1 12.1
		2nd	2,581	12.6	8,217	16.1	13,104	11.5	13,197	7.1	9,230 5	.0 10.3
	1976	lst	2,476	10.3	6,438	15.1	10,801	12.3	10,870	7.1	7,358 4	.9 12.2
		2nd	2,317	11.7	8,006	15.9	13,072	10.9	13,120	6.4	9,337 4	.8 11.5
	Total	1	15,234	12.9	42,425	16.2	68,374	11.9	68,755	7.0	49,222 5	.2 12.1
Sp. American												
	1974	lst	1,022	20.2	1,005	20.4	1,980	16.5	1,997	7.0		.6 18.0
		2nd	855	20.8	823	16.8	1,632	17.6	1,612	8.9		.3 18.8
	1975	lst	1,163	15.0	1,115	18.8	2,150	15.5	2,169	6.9	1,617 4	
		2nd	767	13.7	708	13.7	1,621	13.4	1,624	7.5		.4 14.0
	1976	lst	981	11.7	1,000	14.3	1,928	15.4	1,929	7.2	1,501 3.	
	m 1	2nd	649	9.1	865	14.9	1,539	12.9	1,509	7.8	1,089 6	
Am Talla	Total	6 310 M 10 M	5,437	15.4	5,516	16.7	10,850	15.3	10,840	7.5	8,368 4.	7 15.9
Am. Indian	107/										00/ 0	/ 05 F
	1974	lst	286	8.4	819	8.9	1,089	14.0	1,090	5.1	986 2. 502 2.	
	1075	2nd	124	18.5	431	10.7	578	11.1	581	5.9		
	1975	lst	217	7.8	2,497	18.0	3,928	19.7	3,899	7.7	3,481 3. 1,202 4.	
	1076	2nd	286	11.5	797	17.7	1,553	15.5	1,512	7.0	1,202 4. 1,607 4.	
	1976	lst	170	9.4	1,218	20.0 14.8	2,011 1,294	17.6	1,982 1,283	7.8	957 6.	
	Total	2nd	120	7.5	630	16.4	10,453	17.1	10,347	7.3	8,735 4.	
	TOTAL		1,203	10.1	0,392	10.4	10,433	1/.1	10,547	7.5	0,755 4.	1 22.17
Orient., Other	107/				100			12.0	660	6.8	578 4.	0 14.0
& Unknown	1974	lst	198	16.7	493	10.1	661	13.0	660 433	6.2	349 2.	
	1075	2nd	116	10.3	339	10.3	424	11.3	1,100	6.2	733 4.	
	1975	lst	375	19.7	671	14.6	1,092 588	12.3	592	9.0	431 3.	
	1076	2nd	106	21.7	385	12.7	465	17.0	461	8.9	370 2.	
	1976	lst	97	11.3	322	14.6	845	9.1	841	4.2	770 2.	
	Tetel	2nd	<u>61</u> 953	11.5	2,674	12.3	4,075	12.5	4,087	6.6	3,231 3.	
TOTAT	Total	a a se travel	953	10.0	2,074	12.5	4,075	12.5	4,007	010	THE REAL PROPERTY AND	THE OWNER WHEN
TOTAL							15 001	1/ 2	15,732	7.3	12,950 5.	3 16.2
	1974	lst	5,681	15.8	9,310	16.5	15,801	14.3 12.6	13,802	7.0	9,696 5.	
	1075	2nd	4,181	17.9	8,321	17.0	13,745	12.8	28,665	7.0	19,293 4.	
	1975	lst	9,362	17.2	15,570	17.3	28,409 23,268	11.7	23,400	7.0	15,796 5.	
	1076	2nd	7,087	15.9	12,542	16.9 21.4	26,387	12.4	26,515	7.2	16,111 4.	
	1976	1st 2nd	6,923	13.6	15,451 12,577	16.0	23,372	10.9	23,462	6.5	16,189 5.	
	TOTAL	2nd	5,855	15.2	73,771	17.7	130,982	12.4	131,576	7.0	90,035 5.	
A THE PARTY OF A DECIMAL OF A DECIMAL OF A	TOTAL	1.1.1.1.1.1.1	39,009	13.9	13,111		2001702		COLUMN TWO IS NOT	CONTRACTOR	and the second se	A DESCRIPTION OF A DESC

Nutrition Indices by Age, January 1974-December 1976 Males Less than 18 Years of Age

			Hemoglobin		Hematocrit		Height For Age		Weight For Age		Weight For Height		
Age Group	Date		No. Exam.	% Low	No. Exam.	% Low	No. Exam.	Z Low	No. Exam.	% Low	No. Exam.	% Low	% High
N. C. Malana													
<1	1974	lst	773	10.7	1,519	9.8	4,930	16.0	4,870	6.6	3,820	7.7	13.7
		2nd	408	12.7	930	7.6	4,472	14.9	4,494	6.4	3,033	9.2	13.0
	1975	lst	736	13.9	2,010	10.3	8,178	15.4	8,256	7.4	5,752	7.0	11.6
	1074	2nd	670	10.6	1,404	9.8	7,497	14.2	7,555	7.0	5,012	7.1	12.2
	1976	lst	711	9.1	1,411	8.3	7,367	15.4	7,398	6.8	4,915	5.5	13.0
	Total	2nd	651 3,949	10.1	1,690 8,964	7.9	8,534 40,978	14.7	8,603	6.9	5,618	6.6	12.7
	IOLAI	ALC: NO.	5,545	11.11	0,904	7.1	40,970	15.0	41,170	0.7	20,250	7.0	12.0
1	1974	lst	1,286	13.8	2,360	10.2	3,129	19.6	3,112	8.0	3,046	5.8	20.6
		2nd	646	18.9	1,567	10.7	1,797	20.9	1,845	8.7	1,769	6.4	19.7
	1975	1st	1,197	16.2	3,073	10.7	3,826	19.2	3,889	8.4	3,778	5.8	19.2
		2nd	998	12.5	1,913	9.4	2,557	19.1	2,598	7.7	2,525	5.5	17.4
	1976	lst	972	10.5	1,820	9.0	2,428	17.4	2,466	9.3	2,381	5.2	17.5
		2nd	839	11.6	2,057	8.9	2,638	16.7	2,657	9.0	2,604	5.9	17.0
	Total		5,938	13.8	12,790	9.9	16,375	18.8	16,567	8.5	16,103	5.8	18.6
2-5	1974	lst	2,571	17.3	4,529	21.2	6,018	15.0	6,000	7.5	5,921	3.9	14.8
		2nd	1,597	16.7	3,730	19.0	4,369	14.1	4,373	7.6	4,303	4.1	12.5
	1975	lst	2,592	15.5	6,395	20.9	7,997	13.5	8,040	6.9	7,952	3.5	13.8
		2nd	2,218	14.1	5,025	18.7	6,651	11.7	6,673	6.4	6,598	3.8	10.2
	1976	1st	2,282	13.2	4,379	18.1	6,045	11.9	6,064	6.3	6,009	3.3	11.7
		2nd	2,060	13.4	5,227	17.6	6,936	11.1	6,939	5.8	6,884	3.0	10.3
	Total	-	13,320	15.1	29,285	19.3	38,016	12.8	38,089	6.7	37,667	3.6	12.2
6_0	1974	lst	498	19.1	550	30.0	875	9.5	870	6.8	841	3.9	6.3
<u>6-9</u>	19/4	2nd	551	25.6	924	34.2	1,225	9.0	1,214	6.3	1,167	5.7	6.5
	1975	lst	1,526	23.9	1,678	29.6	2,837	7.2	2,840	5.0	2,739	4.2	5.1
	2715	2nd	1,078	22.4	1,932	31.1	2,696	6.6	2,689	5.7	2,626	5.0	5.6
	1976	lst	1,143	17.1	2,970	39.6	3,928	8.5	3,931	4.8	3,785	3.9	5.8
		2nd	846	25.3	1,675	29.2	2,408	7.6	2,421	5.9	2,361	5.3	6.9
	Total		5,642	22.2	9,729	33.3	13,969	7.8	13,965	5.5	13,519	4.6	5.9
		and the second					and the second sec						
10-12	1974	lst	300	10.7	285	18.2	545	8.4	546	7.7	168	4.8	4.8
	1975	2nd	409	16.1	692	27.7	1,009	9.2	1,009	7.8	355	7.3	4.3
	19/5	1st 2nd	1,373 872	19.2	1,085	21.3	2,256	9.4	2,267	7.1	893	4.0	7.5
	1976	lst	917	17.2	993	20.0	1,725	8.8	1,723	8.5	544	4.1	5.9
	1970	2nd	597	16.2	2,343 901	29.0 18.6	3,177 1,441	11.8	3,181 1,445	8.7	522	5.2	6.9
	Total	LIIG	4,468	16.6	6,299	24.1	10,153	10.4	10,171	8.2	3,860	5.0	5.8
				And the second second	and the second				Contraction of the local division of the loc		No. of Concession, Name		
<u>13-17</u>	1974	lst	427	8.7	284	14.1	691	10.9	688	11.2	-	-	-
		2nd	597	16.2	731	16.4	1,227	11.7	1,229	10.3	-	-	-
	1975	lst	1,837	17.4	1,297	20.6	3,018	15.1	3,023	14.2	-	-	-
		2nd	1,187	14.5	1,184	15.9	2,237	12.0	2,245	11.3	-	-	-
	1976	lst	948	15.4	1,816	20.3	2,838	17.3	2,839	14.0	-	-	-
		2nd	768	15.5	1,091	14.7	1,839	12.9	1,841	10.1	-	-	-
	Total		5,764	15.5	6,403	17.9	11,850	14.1	11,865	12.4	-	-	-
TOTAL	1974	lst	5,855	14.9	9,527	16.9	16,188	15.5	16,086	7.5	13,796	5.4	15.1
		2nd	4,208	17.7	8,574	18.4	14,099	14.2	14,164	7.5	10,627	6.2	12.9
	1975	lst	9,261	17.8	15,538	18.5	28,112	14.0	28,315	7.9	21,114	5.0	12.7
		2nd	7,023	15.3	12,451	18.0	23,363	12.5	23,483	7.3	17,405	5.3	11.0
	1976	lst	6,973	13.5	14,739	22.4	25,783	13.5	25,879	7.6	18,368	4.3	11.2
		2nd	5,761	15.1	12,641	16.3	23,796	12.8	23,906	7.1	17,989	4.9	11.5
	TOTAL		39,081	15.7									12.3

Nutrition Indices by Age, January 1974-December 1976 Females Less than 18 Years of Age

		Hemo No.	globin %	Hematocrit No. %			Height For Age No. 7		For Age	Weight For Height			
Age Group	Date		Exam		Exan			Z Low	No. Exam.	7 Low	No. Exam.	Z Low	7 High
	107/								Dividini	LOW	LAam.	LOW	High
<u><1</u>	1974	1st 2nd	773 410	9.7	1,489			14.0	4,771	6.6	3,551		13.5
	1975	lst	744	12.0	972 1,924		4,448	12.6	4,467	6.5	2,771	8.3	13.3
		2nd	710	8.9	1,322	8.7	8,232 7,296	13.8 12.9	8,335 7,341	6.1 6.2	5,513	6.5	13.1
	1976	lst	709	6.9	1,398		7,270	14.3	7,339	6.7	4,514 4,458	6.0	12.4
		2nd	673	7.3	1,555		8,108	12.7	8,160	6.3	4,949	6.1	13.4
- Internet Manual Andrews	Total		4,019	9.1	8,660	9.4	40,156	13.4	40,413	6.4	25,756	6.7	13.1
1	1974	lst	1,194	13.1	2,190	10.2	2 022						
-	27/4	2nd	631	13.5	1,475		2,933 1,750	17.7	2,921 1,778	7.2	2,846	5.0	22.5 18.1
	1975	lst	1,116	13.0	2,871		3,595	17.2	3,676	7.0	3,546	4.5	21.0
		2nd	931	12.1	1,830		2,439	16.4	2,471	8.0	2,398	4.8	16.1
	1976	lst	957	10.3	1,815	9.7	2,428	15.9	2,447	6.6	2,380	3.7	20.3
		2nd	830	8.3	1,945		2,494	14.9	2,516	7.7	2,451	4.9	16.9
	Total		5,659	11.8	12,126	9.8	15,639	16.4	15,809	7.2	15,348	4.5	19.4
2-5	1974	lst	2,490	17.8	4,428	19.6	5,924	14.7	5,894	7.7	5,827	3.5	15.9
		2nd	1,526	18.3	3,616		4,255	13.9	4,245	7.2	4,168	4.2	14.5
	1975	lst	2,548	14.3	6,201	18.3	7,855	14.1	7,902	7.3	7,796	3.6	15.1
		2nd	2,227	15.0	4,945	17.1	6,541	12.7	6,576	7.4	6,503	3.7	10.9
	1976	lst	2,178	11.3	4,290	16.9	5,886	12.7	5,908	6.6	5,845	3.6	13.4
	Total	2nd	2,033	12.2	5,078	16.2	6,789	10.3	6,785	6.3	6,722	3.9	11.1
		1.1.4.1.4.1	10,001	2417	20,000	2/1/	51,250	10.0	57,520		50,001		1314
6-9	1974	lst	468	22.2	531	31.8	845	7.7	846	6.1	725	5.5	7.7
	1075	2nd	581	27.7	837	33.0	1,158	8.3	1,160	6.6	1,017	4.3	6.1
	1975	1st	1,530	22.3	1,735	30.9	2,889	6.9	2,890	5.3	2,415 2,354	5.2	6.1
	1976	2nd 1st	1,092	22.1 20.7	1,896 3,083	29.4 37.1	2,713 4,039	6.2 7.6	2,713 4,042	5.6	3,396	5.1	6.1
	2010	2nd	823	24.3	1,676	28.6	2,355	5.6	2,361	5.4	2,047	7.2	5.5
	Total		5,631	22.8	9,758	32.4	13,999	6.9	14,012	5.7	11,954	5.7	6.1
10.10									(0.0
10-12	1974	lst	250	14.0	279	18.6	485	10.1 9.9	487 869	11.5 9.8		0.0	0.0
	1975	2nd 1st	375 1,401	19.2	620 1,223	20.8	867 2,407	9.3	2,416	8.4		8.7	8.7
	1913	2nd	835	15.1	1,149	18.8	1,812	8.9	1,818	7.6	27 1		0.0
	1976	lst	867	14.5	2,552	26.2	3,320	11.1	3,325	9.5		9.4	0.0
		2nd	592	22.3	937	16.9	1,464	9.3	1,466	7.6		5.0	0.0
TTO PROVIDE TO PROVIDO PROVIDE TO PROVIDE TO PROVIDE TO PROVIDE TO PROVIDE TO	Total		4,320	17.5	6,760	21.4	10,355	9.9	10,381	8.8	116	8.6	2.6
13-17	1974	lst	506	16.2	393	19.6	812	9.4	813	7.4	-	-	-
	19/4	2nd	506 658	15.5	801	15.1	1,267	10.3	1,283	7.2	-	-	-
	1975	lst	2,023	20.8	1,616	18.6	3,431	10.4	3,446	8.7	-	-	-
		2nd	1,292	19.4	1,400	15.8	2,467	9.5	2,481	7.9	-	-	-
	1976	lst	1,075	17.4	2,313	20.7	3,444	12.5	3,454 2,174	9.5	_	-	-
	Total	2nd	904	21.1	1,386	15.1	2,162	8.6	13,651	8.2	-	-	-
	IOLAI		6,458	19.1	7,909	17.0	10,000		TRUE AND LES	ALC: NO.			
TOTAL	1974	lst	5,681	15.8	9,310	16.5	15,801	14.3	15,732	7.3		5.3	16.2
		2nd	4,181	17.9	8,321	17.0	13,745	12.6	13,802	7.0		5.3 4.8	13.9 14.5
	1975	lst	9,362	17.2	15,570	17.3	28,409	12.8	28,665 23,400	7.0		5.0	11.4
	1074	2nd	7,087	15.9	12,542	16.9	23,268 26,387	12.4	26,515	7.2		4.6	12.8
	1976	lst 2nd	6,923 5,855	13.6	15,451 12,577	16.0	23,372	10.9	23,462	6.5	16,189	5.1	11.9
And in case of the local division of the loc	TOTAL	2110	39,089	15.9	73,771	17.7	130, 382	12.4	131,576	7.0	90,035	5.0	13.4
	A DESCRIPTION OF TAXABLE PARTY.	1 2 2 4 1 K 100		COLUMN TWO IS NOT	1 T 104 112 112 1	And in case of the							

THREE YEAR GRAPHIC SUMMARY OF HEMATOLOGIC DATA

Inspection of Figures 1 and 2 permits the following conclusions. There is an impression of an overall slight downward trend in the prevalence rate of low values over the 3 years, but sharp, short-term fluctuations characterize all prevalence rates. Although these short-term fluctuations are probably random, the tendency for lower values in most rates is particularly evident during the early quarters of 1976. The overall mean prevalence rates for low hemoglobin values over the 3-year period are in the neighborhood of 18.5 and 12.5 percent, respectively for Blacks and Whites, and for low hematocrit, 19.5 and 16.5 percent, respectively. The differential between Black and White prevalence rates is greater for low hemoglobin than for low hematocrit. The differential between low hemoglobin and low hematocrit rates is greater for Whites than for Blacks. The problem of different prevalence rates based on hemoglobin and hematocrit determinations will be discussed in a future bulletin. It should be noted, however, that the hemoglobin and hematocrit determinations reported to the nutrition surveillance data bank are for the most part from different children and from different localities.

Sex differences in these prevalence rates are small. For low hemoglobin among both Blacks and Whites, the rates are slightly higher for females than for males. For low hematocrit, differential sex rates are reversed, with rates for males higher than for females, particularly among Whites. The rates depicted in these graphs are for all ages combined, so with only a small proportion being past puberty, relatively few females have low hematologic values because of menstruation.

Another factor of possible importance in the Black-White differential in prevalence rates of low hematologic values is the following: In one State, Louisiana, which contributes more than half of the total hemoglobin values, the determinations are predominately on Blacks, while in another, Tennessee, which contributes more than half of the hematocrit values, they are predominately on Whites. Systematic inter-state methodologic differences in these determinations could thus appreciably affect the observed ethnic differences in prevalence rates for all states combined.



