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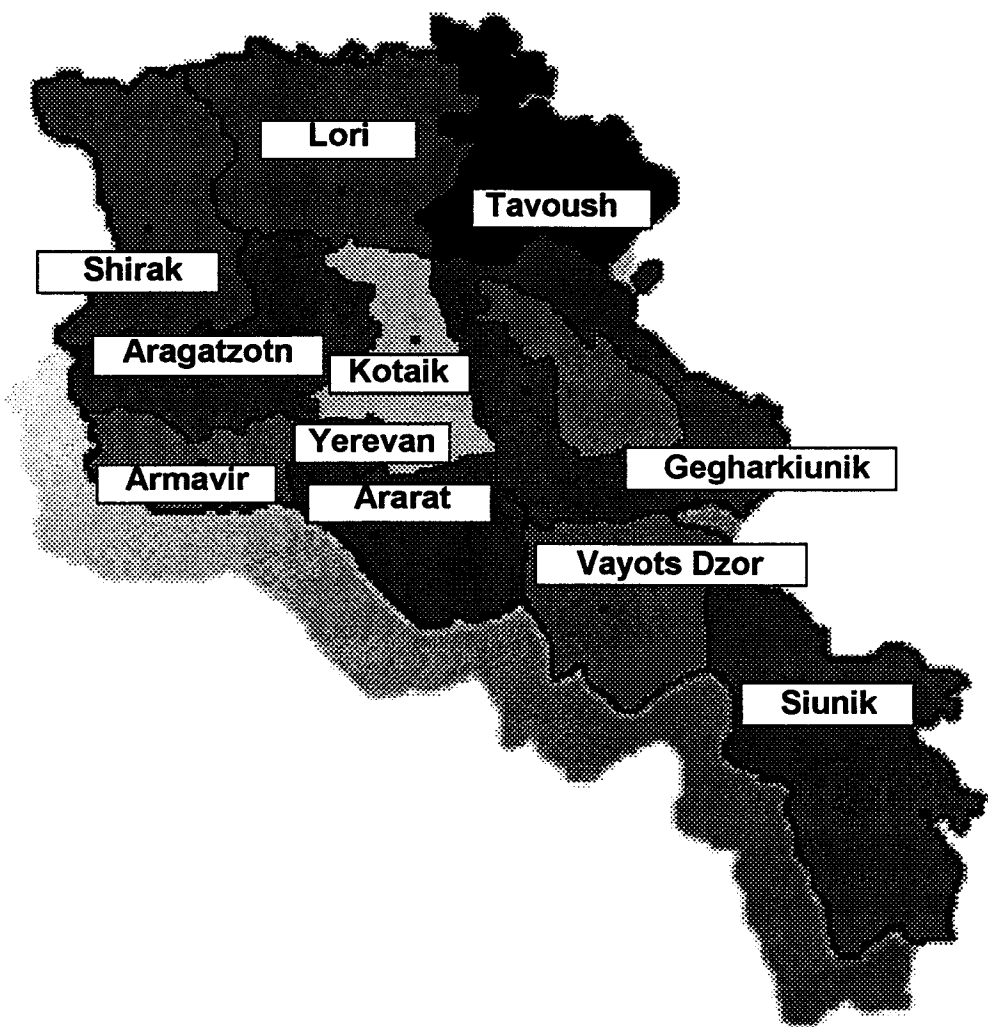


WFP



MOH-Armenia

The Health and Nutritional Status of Children and Women in Armenia



September 1998



National Institute of Nutrition-Italy

Number of Households by Population Strata

	Count	Cumulative Count	Target	% Target
<i>Urban Residents</i>	709	709	750	95
<i>Rural Residents</i>	742	1451	750	99
<i>Urban Refugees</i>	536	1987	720	74
<i>Rural Refugees</i>	640	2627	720	89

Number of children under 5 years by Population Strata

	Count	Cumulative Count	Target	% Target
<i>Urban Residents</i>	870	870	874	99
<i>Rural Residents</i>	1010	1880	874	116
<i>Urban Refugees</i>	654	2534	852	77
<i>Rural Refugees</i>	856	3390	852	101

Number of women 15-45 years by Population Strata

	Count	Cumulative Count	Target	% Target
<i>Urban Residents</i>	721	721	564	128
<i>Rural Residents</i>	749	1470	564	133
<i>Urban Refugees</i>	537	2007	560	96
<i>Rural Refugees</i>	642	2649	560	115

Fig 3.2.27 Weight for Age Z-Score by Sex

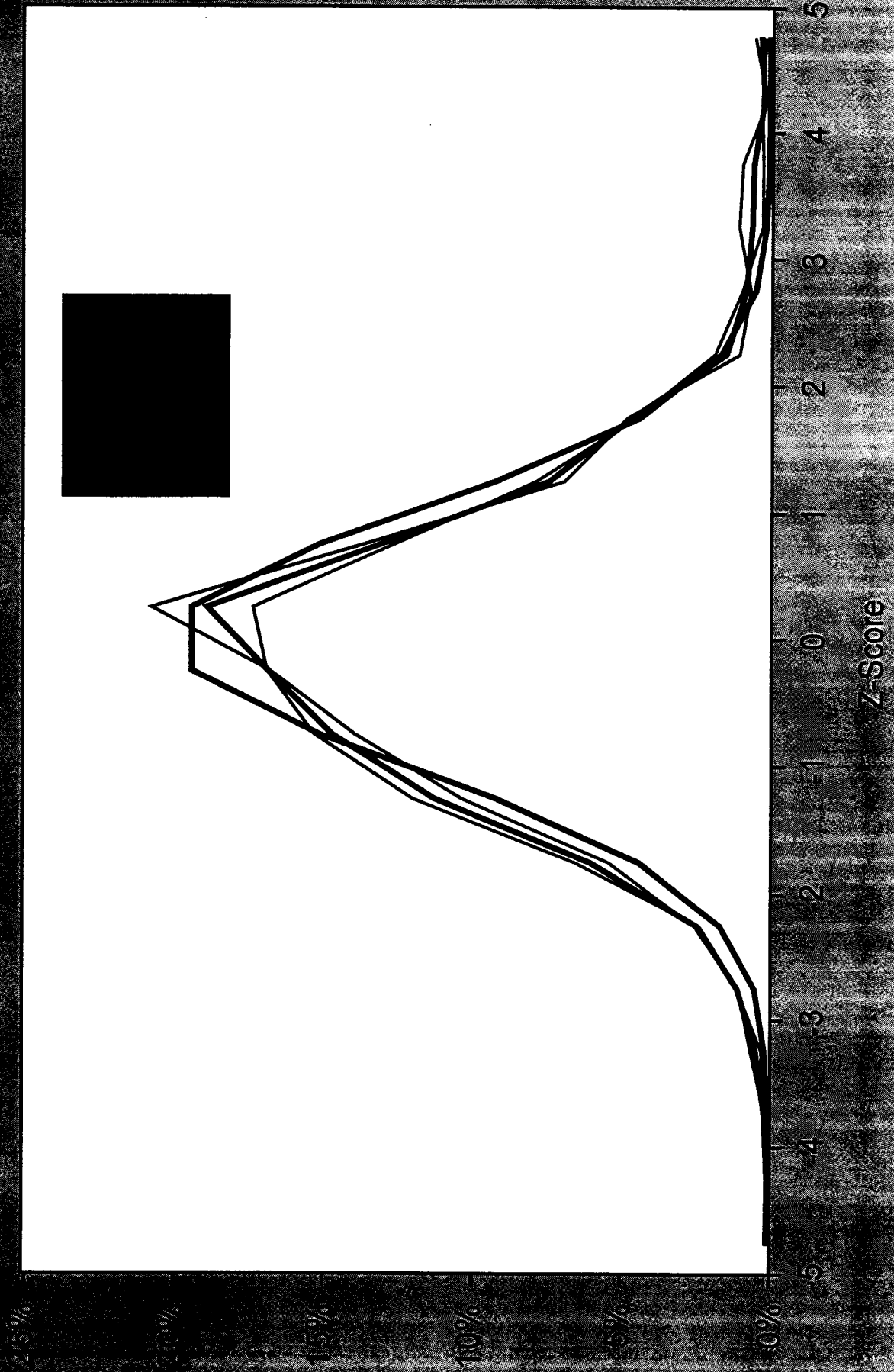
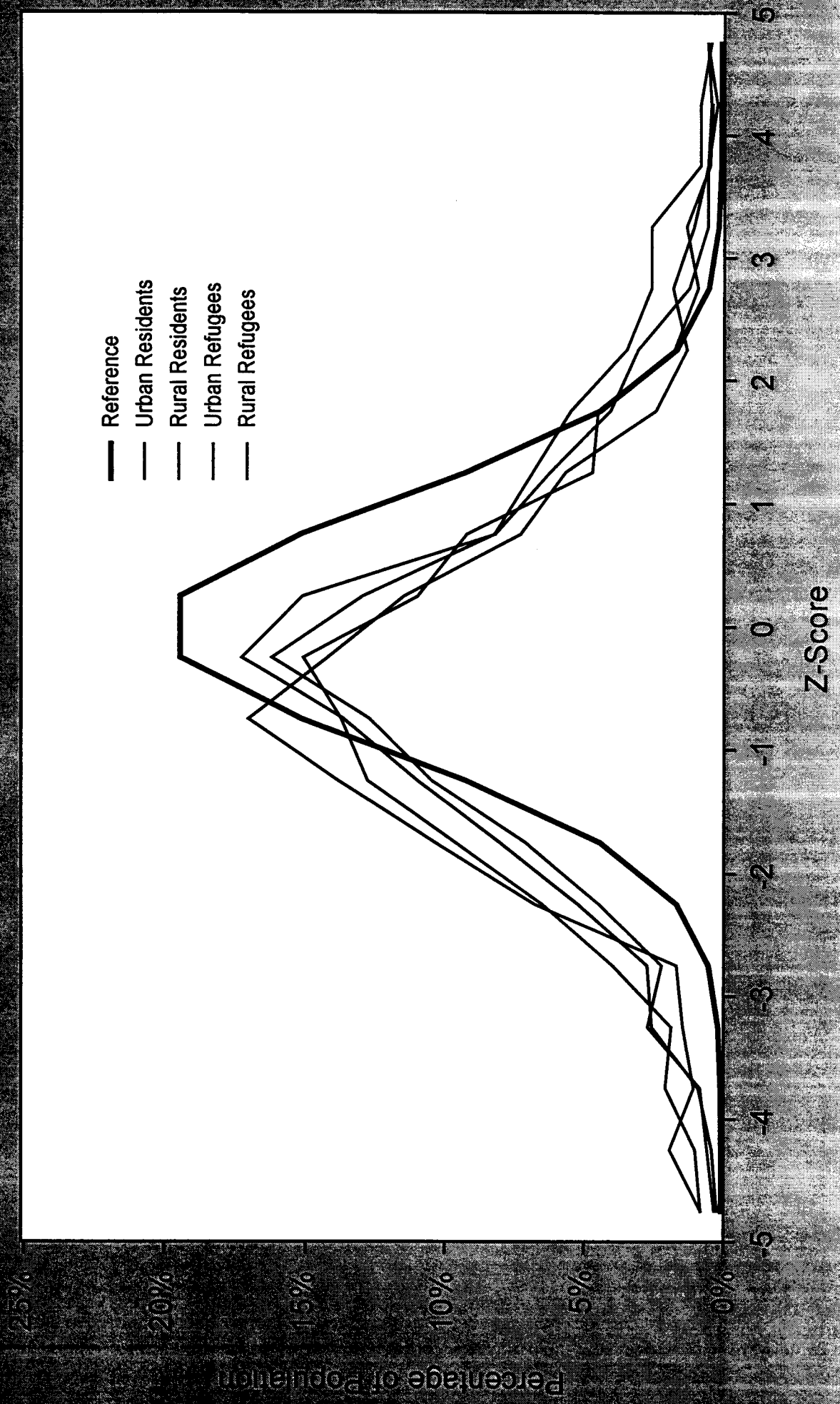
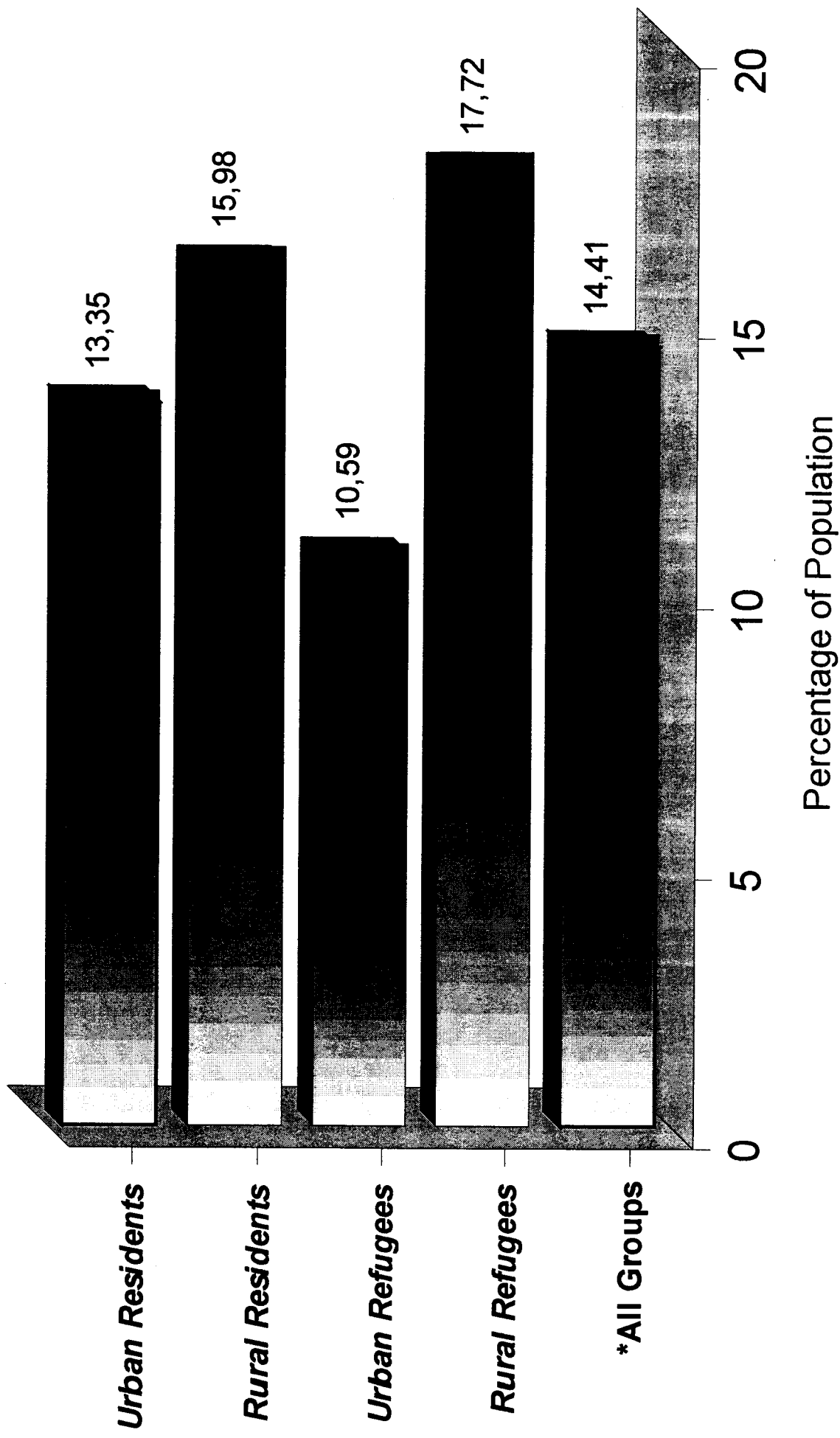


Fig. 3.2.2.3 - Height for Age Z-Score by Population Strata



**Fig.3.2.1.2 - Prevalence of Anaemia in NON-pregnant women
by Population Strata**



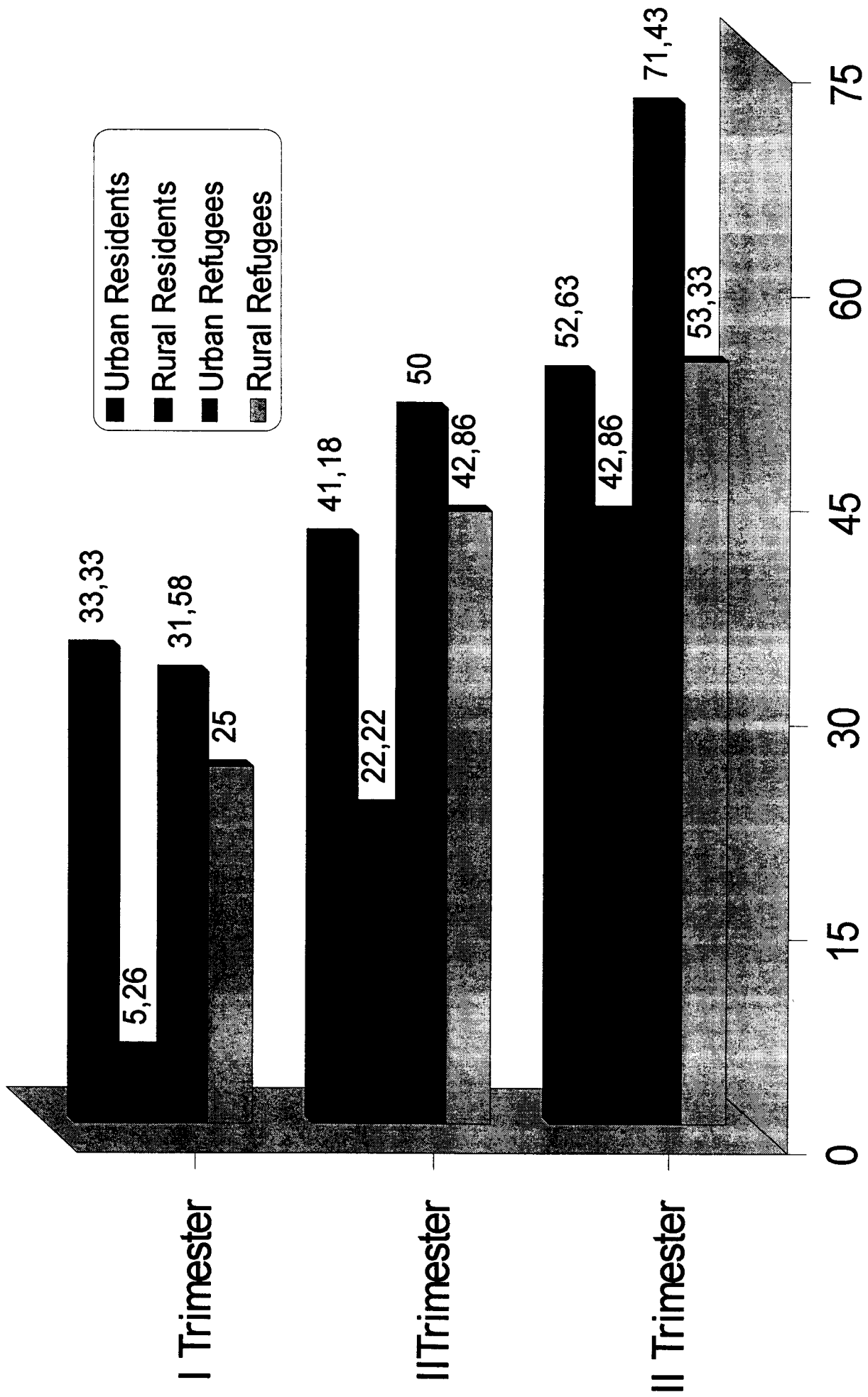
* weighted

Prevalence of Anaemia in Non pregnant Women 15-45 yrs by Population Strata

		Anaemia			Total
		Severe (Hb <7 g/dL)	Moderate (Hb 7-9.9 g/dL)	Mild (Hb 10-12 g/dL)	No Anaemia (Hb >12 g/dL)
Urban Residents		-	7	66	474
Row %		-	1.28%	12.07	86.65
*95% C.I.		-	(0.34-2.22)	(9.79-14.34)	(84.25-89.06)
Rural Residents		1	16	91	568
Row %		0.15%	2.37%	13.46%	84.02%
*95% C.I.		(-0.14-0.44)	(0.99-3.75)	(10.74-16.18)	(80.66-87.39)
Urban Refugees		1	4	42	397
Row %		0.22%	0.90%	9.46%	89.41%
*95% C.I.		(-0.22-0.67)	(0.07-1.73)	(5.70-13.21)	(85.20-93.62)
Rural Refugees		1	19	81	469
Row %		0.17%	3.33%	14.21%	82.28%
*95% C.I.		(-0.17-0.52)	(1.79-4.87)	(10.83-17.59)	(78.68-85.88)
Total		3	46	280	1908
*Total %		0.07%	1.76%	12.59%	85.59%
*95% C.I.		(-0.04-0.18)	(1.03-2.49)	(10.97-14.20)	(83.76-87.41)

***Pearson Chi-square: 53.4950, df=9, p=.000000 Missing Values=55 *weight**

3.2.1.3 - Prevalence of Anaemia in Pregnant Women 15-45 years by Population Strata



Prevalence of Anaemia in pregnant women by Population Strata

		Anaemia			
		Moderate (Hb 7-8.9 g/dL)	Mild (Hb 9-11 g/dL)	No Anaemia (Hb > 11 g/dL)	Total
Urban Residents		-	10	42	52
	Row %		19.23%	80.77%	100%
	*95% C.I.		(9.48-28.98)	(71.02-90.52)	
Rural Residents		2	4	45	51
	Row %	3.92%	7.84%	88.23%	100%
	*95% C.I.	(-1.55-9.40)	(0.76-14.93)	(79.76-96.71)	
Urban Refugees		-	7	27	34
	Row %		20.59%	79.41%	100%
	*95% C.I.		(7.95-33.22)	(66.78-92.05)	
Rural Refugees		2	7	33	42
	Row %	4.76%	16.67%	78.57%	100%
	*95% C.I.	(-2.08-11.60)	(5.06-28.27)	(65.74-91.41)	
Total		4	28	147	179
	*Total %	1.44%	15.51%	83.05%	100%
	*95% C.I.	(-0.30-3.18)	(8.95-22.06)	(76.35-89.75)	

***Pearson Chi-square: 50.5560, df=6, p=.000000** Missing Values=8 *weighted

Prevalence of Anaemia in Children 6-59.9 months by Population Strata

		Anaemia				
		Severe (Hb <7 g/dL)	Moderate (Hb 7-8.9 g/dL)	Mild (Hb 9-11 g/dL)	No Anaemia (Hb >11 g/dL)	Total
Urban Residents	Row %	-	3	93	659	755
	*95% C.I.	-	0.40% (-0.02-0.82)	12.32% (8.91-15.73)	87.28% (84.02-90.55)	100%
Rural Residents	Row %	1	31	197	690	919
	*95% C.I.	0.11% (-0.10-0.32)	3.37% (2.03-4.71)	21.44% (17.48-25.39)	75.08% (70.50-79.66)	100%
Urban Refugees	Row %	-	10	75	499	584
	*95% C.I.	-	1.71% (0.09-3.34)	12.84% (9.96-15.73)	85.44% (81.47-89.42)	100%
Rural Refugees	Row %	-	22	142	613	777
	*95% C.I.	-	2.83% (1.14-4.52)	18.27% (12.84-23.71)	78.89% (72.39-85.39)	100%
Total		1	66	507	2461	3035
	*Total %	0.04%	1.64%	15.93%	82.39%	100%
	*95% C.I.	(-0.04-0.12)	(1.08-2.19)	(13.54-18.32)	(79.91-84.88)	

***Pearson Chi-square: 510.821, df=9, p=0.00000** Missing Values=142 *weighted

Distribution of Haemoglobin (g/dl) in Women 15-45 yrs by Population Strata

	N	<u>*Mean±SD</u>
Urban Residents	691	13.27± 1.28 ^{a,b}
Rural Residents	720	13.29±1.45 ^{a,b}
Urban Refugees	517	13.36± 1.40 ^a
Rural Refugees	618	13.13±1.52 ^c
Total	2546	13.27±1.35

*weighted

***ANOVA: F=2.92 and p=0.032537**

Means not sharing common superscript are significantly different (Scheffe's test p<0.05). Missing Values=69

Distribution of Hb in Children <5 years by Population Strata

	N	<u>*Mean±SD</u>
Urban Resident	779	12.43±1.22 ^a
Rural Resident	943	11.98±1.53 ^b
Urban Refugees	601	12.38±1.38 ^a
Rural Refugees	792	12.13±1.43 ^c
Total	3115	12.25±1.38

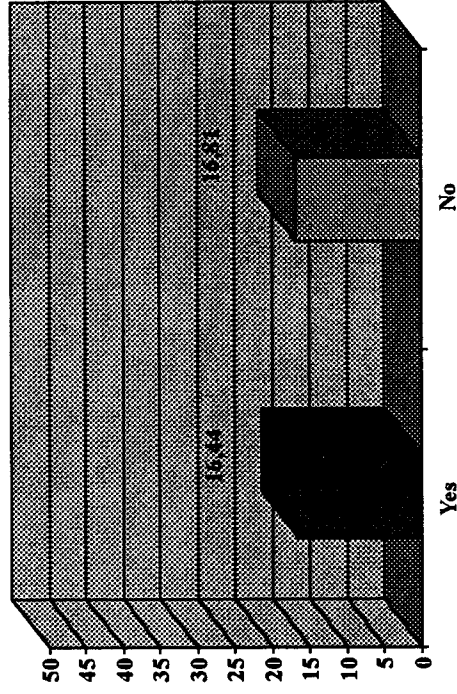
*weighted

***ANOVA: F=148.1420 and p=0.0000000**

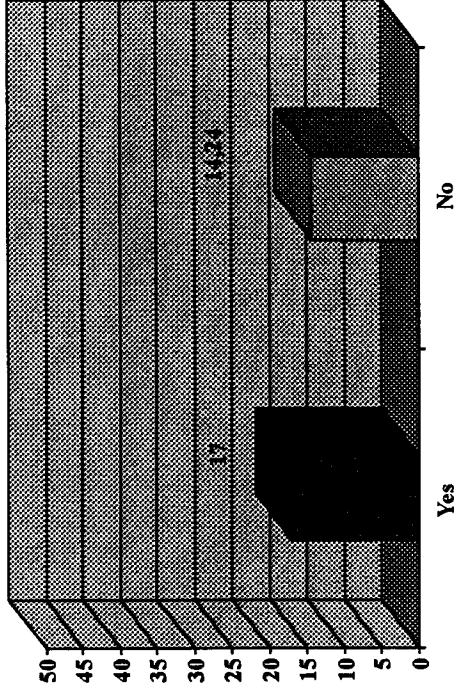
Means not sharing common superscript are significantly different (Scheffe's Test. p<0.05). **Missing Values = 318**

Anemia in Children 6-59 months in Armenia

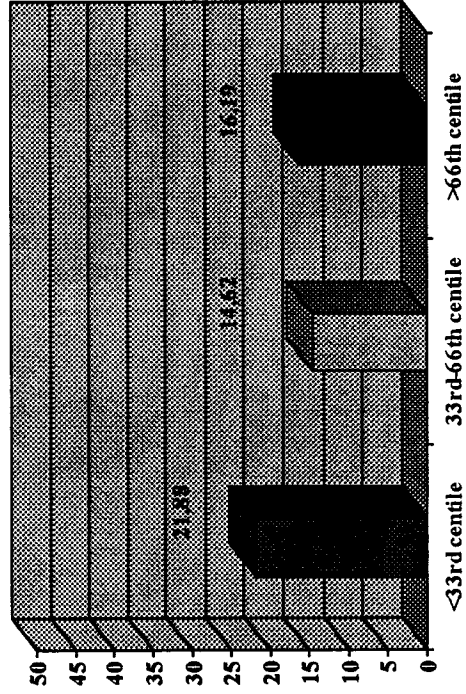
PAROS



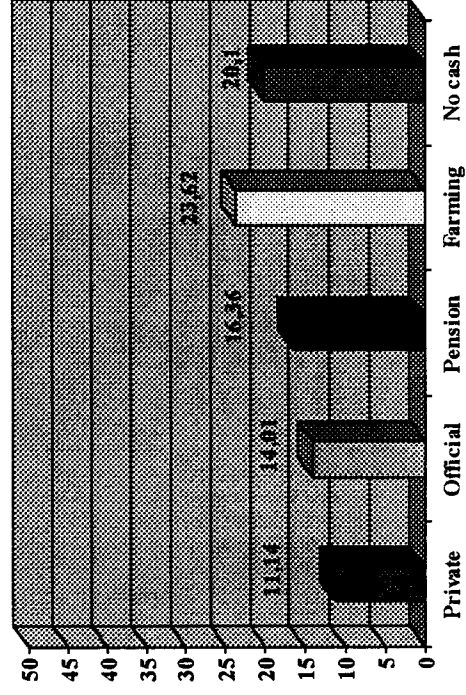
FOOD AID



Tertile Dependency Index



Household Income Source



Anaemia in children 6-59 months by PAROS registration status

	Anaemia		Total
	Yes	No	
PAROS			
S			
No	92	413	505
Row %	16.81%	83.19%	100%
Yes	319	1539	1858
Row %	16.44%	83.56%	100%
Total	411	1952	2363
Total %	16.55%	83.45%	100%

Pearson Chi-square: 0.2774037, df=1, p=0.59841. Missing Values=97

Anaemia in children 6-59 months in households benefiting from food aid vs. households non benefiting

	Anaemia		Total
	Yes	No	
Food			
Aid			
No	286	1332	1618
Row %	17.00%	83.00%	100%
Yes	122	622	744
Row %	14.24%	85.76%	100%
Total	408	1954	2362
Total %	16.41%	83.59%	100%

Pearson Chi-square: 0.5827, df=1, p=0.44523
Missing Values=68

Anaemia in children 6-59 months by tertile of the Dependency Index

Dep Ratio	Anaemia		Total
	Yes	No	
<33rd centile	91	334	425
Row %	21.88%	78.12%	100%
33rd-66th centile	214	1133	1347
Row %	14.62%	83.58%	100%
>66th centile	106	490	596
Row %	16.19%	83.81%	100%
Total	411	1957	2368
Total %	16.48%	83.52%	100%

Pearson Chi-square: 82.61898, df=2, p<0.0001
 Missing Values=92

**Anaemia in children 6-59 months
by household income source**

Source	Anaemia		Total
	Yes	No	
Income			
Private	49	307	356
Row %	11.14%	88.86%	100%
Official	87	501	588
Row %	14.01%	85.99%	100%
Pension	77	363	440
Row %	16.36%	83.64%	100%
Farming	122	466	588
Row %	23.62%	76.38%	100%
No cash	68	250	318
Row %	20.10%	79.90%	100%
Total	403	1887	2290
Total %	16.52%	83.48%	100%

Pearson Chi-square 182.7533, df=4, p<0.0001

Missing Values=170

Distribution of Serum Retinol in Children < 5 years by Pop Strata

	N	*Mean±SD
<i>Urban Resident</i>	511	45.27±11.40 ^a
<i>Rural Residents</i>	681	40.52±12.88 ^b
<i>Urban Refugees</i>	476	41.16±11.45 ^b
<i>Rural Refugees</i>	673	41.35±12.98 ^b
Total	2341	43.10±12.29

*weighted

***ANOVA: F=153.2459 and p=0.00000**

Means not sharing common superscript are significantly different

(Scheffe's test, p<0.05). Missing Values=1049

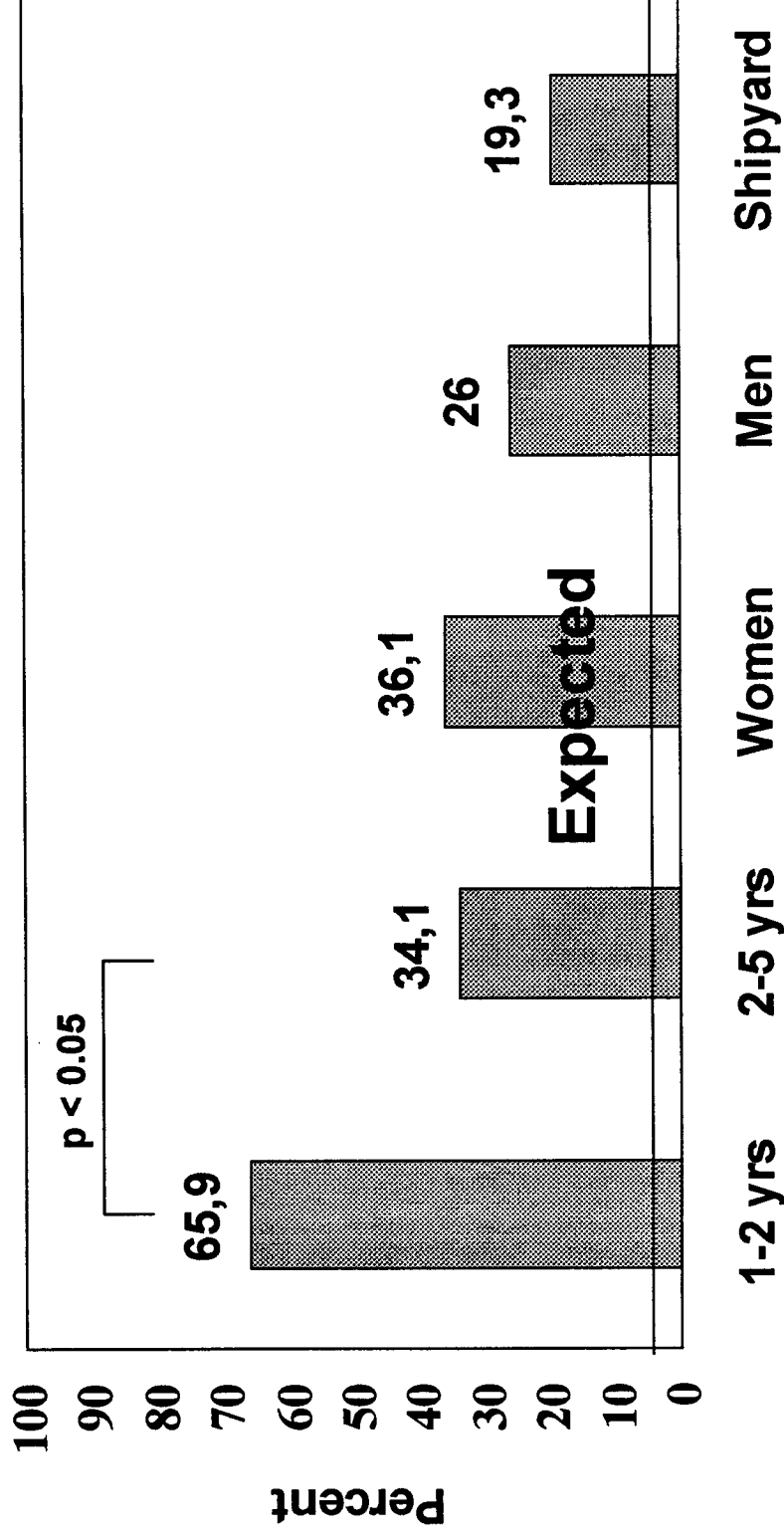
Prevalence of low Serum Retinol in children < 5 years by Pop Strata

	Serum Retinol		Total
	Low	Normal	
<i>Urban Residents</i>	1	510	511
Row %	0.20%	99,80%	100%
*95% C.I.	(-0.19-0.58)	(99,42-100,19)	
<i>Rural Residents</i>	7	674	681
Row %	1.03%	98,99%	100%
*95% C.I.	(0.05-2.00)	(98,00-99,95)	
<i>Urban Refugees</i>	4	472	476
Row %	0.84%	99,16%	100%
*95% C.I.	(-0.08-1.76)	(98,24-100,08)	
<i>Rural Refugees</i>	7	666	673
Row %	1.04%	98,96%	100%
*95% C.I.	(0.11-1.97)	(99,03-99,89)	
Total	19	2322	2341
*Total %	0.58%	99,42%	100%
*95% C.I.	(0.15-1.01)	(99,00-99,85)	

*weighted

*** Pearson Chi-square: 36.5503, df=3, p=.000000** Missing Values=1049

Prevalence of Anemia by Age Group in Azerbaijan



Source: Azerbaijan Health/Nutrition Survey, 1996

Prevalence of anaemia in women aged 15-49

COUNTRIES	Year	% ANAEMIC			
		Mild	Moderate	Severe	Total
Uzbekistan	1996	45	14	1	60
Kazakhstan	1995	37	11	1	49
Kyrgyzstan	1997	30	9	1	40
Azerbaijan	1996	28	8	0	36
Armenia	1998			0	15
Poland	1992				11
Russian Fed.	1993				6

Prevalence of anaemia in children < 5 years

COUNTRIES	DATE	AGE (years)	% ANEMIC			
			Mild	Moderate	Severe	Total
Kazakhstan	1995	<3	30	34	5	69
Uzbekistan	1996	<3	34	26	1	61
Kyrgyzstan	1997	<3	24	24	1	50
Azerbaijan	1996	1-2	31	32	3	36
Armenia	1998	<5	16	2	0	30
Bosnia and Herzegovina		<5	19	6	1	26
UK	1992/ 3	1.5-2.5 2.5-4.5				12 6

Figure 2.2.8 - Distribution of Hemoglobin in Children 6-59.9 months by Population Strata

