

Health, Nutrition, Population and Poverty
Kazakhstan 1999 - ANNEX B: ASSETS AND FACTOR SCORES

Asset Variable	Unweighted		Quintiles						Average	Factor Score	Household score if:		
	Mean	Std. Deviation	Lowest	2nd	3rd	4th	Highest	has asset			no asset		
				Percentage of Population									
Has electricity	0.975	0.158	82.1%	99.2%	99.3%	98.9%	100.0%	95.9%	-0.04451	-0.00720	0.27514		
Has radio	0.445	0.497	14.6%	31.3%	45.7%	42.9%	64.6%	39.8%	-0.05865	-0.06551	0.05251		
Has television	0.931	0.253	72.4%	94.3%	96.7%	95.4%	99.1%	91.6%	-0.04415	-0.01201	0.16220		
Has refrigerator	0.845	0.362	24.3%	73.4%	87.1%	89.9%	98.7%	74.7%	-0.07941	-0.03403	0.18525		
Has bicycle	0.128	0.334	14.4%	21.0%	18.6%	16.5%	13.5%	16.8%	0.01334	0.03477	-0.00512		
Has motorcycle	0.074	0.262	21.8%	14.4%	9.0%	6.4%	2.9%	10.9%	0.03713	0.13108	-0.01052		
Has car	0.258	0.438	16.2%	34.4%	39.7%	30.0%	33.5%	30.7%	0.00020	0.00034	-0.00012		
Has telephone	0.456	0.498	3.1%	13.3%	40.3%	41.8%	77.0%	35.1%	-0.09056	-0.09883	0.08297		
HH owns a dacha	0.584	0.493	89.0%	81.1%	70.5%	61.2%	43.2%	69.0%	0.06266	0.05293	-0.07416		
HH owns animals	0.311	0.463	89.9%	79.8%	55.9%	20.6%	2.6%	49.8%	0.11595	0.17247	-0.07794		
If household works own or family's agric. land	0.003	0.055	2.5%	0.3%	0.0%	0.1%	0.1%	0.6%	0.00821	0.14766	-0.00046		
if piped drinking water in residence	0.623	0.485	0.0%	0.1%	6.1%	86.8%	99.7%	38.5%	-0.14959	-0.11648	0.19209		
if uses water that is piped into yard/plot	0.065	0.246	13.6%	17.3%	24.1%	3.0%	0.1%	11.6%	0.04437	0.16848	-0.01168		
if uses a public faucet (piped)	0.056	0.231	12.0%	16.5%	16.0%	1.9%	0.0%	9.3%	0.04461	0.18233	-0.01091		
if has an open well in residence	0.007	0.084	1.3%	2.2%	2.6%	0.4%	0.0%	1.3%	0.01588	0.18661	-0.00135		
if has an open well in yard/plot	0.080	0.272	21.6%	21.3%	20.2%	1.8%	0.0%	13.0%	0.06002	0.20317	-0.01773		
if has an open public well	0.129	0.335	41.6%	33.4%	20.9%	3.1%	0.0%	19.8%	0.08130	0.21169	-0.03122		
if uses river, canal or surface water for drinking	0.011	0.105	4.7%	2.5%	1.4%	0.0%	0.0%	1.7%	0.02565	0.24181	-0.00272		
if gets drinking water from tanker truck	0.023	0.149	3.5%	6.3%	7.7%	2.6%	0.0%	4.0%	0.02262	0.14821	-0.00345		
if uses bottled water	0.003	0.051	0.0%	0.0%	0.1%	0.2%	0.2%	0.1%	-0.00560	-0.11040	0.00028		
Other source of drinking water	0.004	0.061	1.8%	0.3%	1.0%	0.2%	0.0%	0.6%	0.01073	0.17462	-0.00066		
if uses own flush toilet	0.573	0.495	0.0%	0.1%	1.8%	75.9%	99.2%	35.4%	-0.15066	-0.13008	0.17448		
if uses a pit latrine	0.381	0.486	96.0%	95.9%	89.3%	18.8%	0.0%	60.0%	0.14411	0.18384	-0.11295		
if uses a shared flush toilet	0.009	0.092	0.0%	0.1%	0.4%	1.8%	0.5%	0.6%	-0.00467	-0.05026	0.00043		
if uses a shared pit latrine	0.029	0.167	3.0%	3.5%	7.2%	2.7%	0.0%	3.3%	0.02441	0.14229	-0.00419		
if uses bush,field as latrine	0.004	0.065	1.0%	0.5%	0.8%	0.0%	0.0%	0.5%	0.01393	0.21258	-0.00091		
if other type of latrine	0.000	0.018	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.00307	0.16605	-0.00006		
if has dirt, sand, dung as principal floor in dwelling	0.009	0.096	6.4%	1.2%	1.2%	0.1%	0.0%	1.8%	0.02514	0.26025	-0.00243		
if has wood, plank principal floor in dwelling	0.621	0.485	92.0%	95.8%	86.0%	78.3%	11.5%	72.7%	0.10459	0.08164	-0.13396		
if has parquet or polished wood floors	0.025	0.156	0.1%	0.0%	0.1%	0.7%	6.1%	1.4%	-0.02510	-0.15735	0.00400		
if has linoleum as flooring material	0.317	0.465	0.0%	0.4%	7.2%	17.8%	77.9%	20.6%	-0.10546	-0.15482	0.07182		
if has cement principal floor	0.005	0.069	0.4%	0.8%	1.3%	0.4%	0.2%	0.6%	0.00286	0.04125	-0.00020		
if has carpet for principal floor	0.001	0.037	0.0%	0.0%	0.0%	0.1%	0.3%	0.1%	-0.00578	-0.15601	0.00021		
if has other type of flooring	0.021	0.142	1.0%	1.9%	4.2%	2.6%	3.8%	2.7%	-0.00011	-0.00073	0.00002		
if uses electricity as cooking fuel	0.206	0.404	0.1%	0.7%	4.1%	22.6%	27.3%	10.9%	-0.05872	-0.11544	0.02986		
if uses gas as cooking fuel	0.303	0.459	0.0%	0.8%	9.0%	33.5%	58.5%	20.4%	-0.08393	-0.12737	0.05529		
if uses bio gas as cooking fuel	0.331	0.471	15.6%	47.0%	70.0%	42.3%	14.2%	37.8%	0.05158	0.07334	-0.03628		
if uses kerosene as cooking fuel	0.001	0.037	0.1%	0.5%	0.3%	0.0%	0.0%	0.2%	0.00635	0.17148	-0.00024		
if uses coal as cooking fuel	0.014	0.118	1.3%	3.3%	2.1%	0.1%	0.0%	1.3%	0.02422	0.20176	-0.00291		
if uses charcoal for cooking	0.003	0.057	0.3%	1.2%	0.5%	0.2%	0.0%	0.5%	0.00993	0.17394	-0.00057		

if uses wood as cooking fuel	0.087	0.282	56.7%	28.7%	10.9%	0.9%	0.0%	19.5%	0.07438	0.24080	-0.02297
if uses Tezek as cooking fuel	0.050	0.219	23.1%	14.4%	2.9%	0.2%	0.0%	8.1%	0.05667	0.24575	-0.01306
if uses other cooking fuel	0.004	0.065	2.9%	3.4%	0.3%	0.1%	0.0%	1.3%	0.01495	0.22809	-0.00098

Notes:

1. Household score for number of members per sleeping room is calculated as follows:
 $(\# \text{ people per room} - \text{unweighted mean}) / \text{unweighted standard deviation} \times \text{factor score}$; see Annex C.
2. Household score for size of land (irrigated or non-irrigated) is calculated as follows:
 $(\text{acres of land} - \text{unweighted mean}) / \text{unweighted standard deviation} \times \text{factor score}$; see Annex C.

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Annex B: Assets and Factor Scores

Wealth Quintile	<u>Asset Index Value</u>	
	Lowest	Highest
poorest	lowest	-1.39645
second	-1.39645	-1.13156
middle	-1.13156	-0.53381
fourth	-0.53381	0.69361
richest	0.69361	highest