

KAZAKHSTAN

Admin. level	Months	Year	Area	Sex	Age group	Sample size	Percentage below / above median															Notes	Ref
							Weight/age		Height/age		Weight/height					BMI / age							
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD			
National	MAY-SEP	1995			0. -2.99	729	1.7	6.7	5.8	19.0	2.3	7.3	26.0	5.9	1.6	1.4	5.3	31.3	8.4	1.5	Almaty Central North and East South West	01674	
					0. -2.99	30	1.5	7.4	1.6	8.1	0.0	3.2	30.6	6.5	0.0	0.0	3.2	41.9	8.1	1.6			
					0. -2.99	74	1.9	6.9	9.9	26.1	0.6	2.7	26.5	6.7	2.6	0.6	3.2	32.3	8.8	2.6			
					0. -2.99	204	1.0	4.0	2.9	8.0	2.1	7.0	28.4	8.5	2.2	0.0	3.0	32.4	10.5	2.2			
					0. -2.99	325	1.7	8.7	7.4	26.4	3.2	9.0	25.2	4.4	1.4	2.5	7.1	31.2	7.4	1.1			
					0. -2.99	96	2.7	5.4	4.7	15.4	1.7	6.6	22.0	4.4	0.7	1.7	6.1	25.3	6.7	0.7			
					0. -0.49	116	3.1	10.6	2.7	5.5	9.0	27.9	12.9	4.4	2.0	3.7	15.3	10.4	4.4	1.0			
					0.50-0.99	134	0.8	2.7	3.3	12.0	0.9	4.7	26.6	3.1	0.0	0.9	3.9	26.2	3.9	0.0			
					1. -1.99	253	1.8	6.8	4.4	26.7	1.7	3.3	33.2	9.2	1.7	1.6	3.6	41.6	14.2	2.3			
					2. -2.99	226	1.2	7.0	10.5	21.1	0.3	2.5	24.5	4.5	2.3	0.3	2.7	33.6	6.5	1.8			
					URBAN	0. -2.99	307	1.7	5.8	3.0	8.8	3.2	7.3	25.2	6.1	1.9	2.5	5.8	28.7	8.2			2.1
					RURAL	0. -2.99	422	1.7	7.4	7.8	26.3	1.6	7.3	26.6	5.7	1.4	0.6	4.9	33.2	8.5			1.1
					M	0. -2.99	334	1.8	8.7	8.4	23.2	3.1	7.5	29.0	7.1	2.0	1.1	6.0	34.4	11.3			2.0
					M	0. -0.49	51	1.9	8.7	1.9	2.7	13.6	26.0	14.7	5.5	0.0	0.9	19.3	11.5	5.5			0.0
					M	0.50-0.99	58	2.0	5.5	5.7	19.3	2.0	7.9	31.9	2.7	0.0	2.0	5.9	30.0	4.8			0.0
					M	1. -1.99	116	2.1	9.5	7.0	30.7	1.9	4.3	38.8	12.1	2.3	1.9	3.4	45.3	20.0			2.3
					M	2. -2.99	109	1.4	9.4	14.4	26.6	0.0	2.1	23.8	4.6	3.7	0.0	2.5	36.0	8.1			3.7
F	0. -2.99	395	1.5	5.1	3.6	15.4	1.6	7.0	23.5	4.8	1.3	1.6	4.6	28.6	5.9	1.1							
F	0. -0.49	65	4.1	12.0	3.3	7.7	5.3	29.5	11.5	3.5	3.5	6.0	12.1	9.6	3.5	1.7							
F	0.50-0.99	76	0.0	0.6	1.5	6.6	0.0	2.4	22.7	3.3	0.0	0.0	2.4	23.5	3.3	0.0							
F	1. -1.99	136	1.6	4.5	2.1	23.3	1.6	2.4	28.3	6.7	1.2	1.3	3.8	38.4	9.2	2.3							
F	2. -2.99	117	1.0	4.8	6.8	16.1	0.6	2.9	25.2	4.4	1.0	0.6	3.0	31.3	4.9	0.0							
National	JUL-SEP	1999			0. -5.00	626	1.2	3.8	3.9	13.9	1.0	2.5	23.9	5.3	0.9	1.1	2.6	27.3	6.7	0.8	Almaty city Central East North South West	02181	
					0. -5.00	20	0.0	2.3	4.3	17.4	0.0	4.5	22.7	4.5	2.3	0.0	4.5	27.3	4.5	2.3			
					0. -5.00	46	1.8	2.7	7.1	16.0	3.1	6.4	27.1	13.1	5.5	3.1	6.4	31.1	14.0	5.5			
					0. -5.00	65	0.8	0.8	1.6	13.3	0.0	0.8	27.6	2.3	1.1	0.8	1.7	31.0	5.9	2.3			
					0. -5.00	106	1.9	7.6	5.7	9.2	0.0	1.9	28.2	3.5	0.0	0.0	1.9	30.1	5.4	0.0			
					0. -5.00	305	1.4	3.4	1.8	11.7	1.4	2.1	22.5	5.9	0.5	1.4	2.1	26.0	7.1	0.0			
					0. -5.00	84	0.0	3.7	9.5	26.9	0.9	3.8	19.3	3.8	0.9	0.9	3.8	23.9	4.7	0.9			
					0. -0.49	56	6.6	11.0	3.5	4.8	4.0	12.4	17.4	3.9	0.0	5.0	12.5	16.0	2.7	1.3			

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							Weight/age		Height/age		Weight/height					BMI / age							
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD			
National	JUL-SEP	1999	URBAN RURAL		0.50-0.99	67	0.6	2.7	1.7	12.4	0.0	0.0	31.6	6.3	1.1	0.0	0.6	31.6	6.3	1.1		02181	
					1. -1.99	123	0.0	3.7	7.2	18.9	1.1	1.7	31.0	8.6	1.4	1.1	1.7	38.4	11.9	1.4			
					2. -2.99	129	1.6	2.1	3.5	11.9	0.9	1.3	23.5	2.7	0.5	0.9	1.3	29.9	4.2	0.5			
					3. -3.99	132	0.0	2.3	3.2	16.8	0.0	2.8	21.0	4.6	0.9	0.0	2.8	22.6	6.7	0.9			
					4. -5.00	119	1.2	4.7	3.3	12.9	1.2	1.2	19.1	5.7	1.2	1.2	1.2	21.3	6.3	0.0			
					0. -5.00	247	1.0	4.9	5.4	9.4	0.2	3.1	19.3	4.6	1.2	0.4	3.4	22.9	6.7	1.2			
					0. -5.00	379	1.3	3.1	3.0	16.9	1.5	2.1	26.9	5.7	0.8	1.5	2.1	30.2	6.8	0.6			
					M 0. -5.00	302	0.8	3.8	2.8	14.4	2.0	4.0	23.8	7.8	0.6	2.1	4.1	27.1	8.4	0.4			
					M 0. -0.49	27	7.0	15.9	2.0	4.8	6.9	16.3	20.3	8.2	0.0	8.7	16.3	27.7	5.5	2.8			
					M 0.50-0.99	32	1.3	5.5	1.3	6.9	0.0	0.0	28.9	8.7	0.0	0.0	1.3	28.9	8.7	0.0			
					M 1. -1.99	60	0.0	4.2	4.8	21.9	2.3	2.3	30.0	13.2	0.9	2.3	2.3	32.3	16.2	0.9			
					M 2. -2.99	57	0.0	1.2	2.0	11.4	2.2	2.9	26.5	4.9	0.0	2.2	2.9	29.6	4.9	0.0			
					M 3. -3.99	63	0.0	0.0	0.0	21.2	0.0	5.1	15.4	1.0	0.0	0.0	5.1	18.8	1.0	0.0			
					M 4. -5.00	61	0.0	3.4	5.7	10.7	2.3	2.3	22.4	11.3	2.3	2.3	2.3	26.8	12.5	0.0			
					F 0. -5.00	324	1.6	3.8	5.0	13.5	0.1	1.2	24.1	3.1	1.2	0.1	1.2	27.6	5.3	1.2			
					F 0. -0.49	29	6.3	6.3	4.8	4.8	1.4	8.9	14.7	0.0	0.0	1.4	8.9	5.0	0.0	0.0			
					F 0.50-0.99	35	0.0	0.0	2.1	17.6	0.0	0.0	34.2	4.0	2.1	0.0	0.0	34.2	4.0	2.1			
					F 1. -1.99	63	0.0	3.2	9.5	15.9	0.0	1.1	32.0	4.1	2.0	0.0	1.1	44.3	7.8	2.0			
F 2. -2.99	72	2.8	2.8	4.7	12.4	0.0	0.0	21.2	0.9	0.9	0.0	0.0	30.1	3.7	0.9								
F 3. -3.99	68	0.0	4.4	6.0	12.8	0.0	0.8	26.1	7.8	1.7	0.0	0.8	26.1	11.9	1.7								
F 4. -5.00	58	2.4	6.0	0.8	15.3	0.0	0.0	15.6	0.0	0.0	0.0	0.0	15.6	0.0	0.0								
National	JAN-MAR	2006			0. -5.00	4400	1.7	4.9	6.8	17.5	1.0	3.7	40.3	14.8	3.1	2.2	5.1	43.2	18.9	6.4		02860	
					0. -5.00	243	0.9	2.2	0.9	9.2	1.4	1.4	42.1	13.4	1.8	1.4	2.9	44.4	12.9	2.3			Akmola
					0. -5.00	181	0.9	4.4	14.9	29.3	0.6	2.0	47.3	23.0	9.4	0.6	2.0	50.9	24.6	12.1			Aktobe
					0. -5.00	542	4.1	10.3	10.4	27.0	2.9	7.2	42.1	18.0	7.7	3.1	7.1	44.6	21.2	7.5			Almaty
					0. -5.00	321	2.9	4.3	4.5	8.5	6.5	7.5	29.1	14.1	4.0	4.6	7.6	29.4	16.8	6.1			Almati city
					0. -5.00	90	2.7	5.9	7.8	14.4	1.7	5.7	37.7	17.7	9.1	4.5	9.0	35.0	16.4	9.6			Astana city
					0. -5.00	143	0.2	2.5	9.3	21.6	1.3	4.7	44.9	22.0	8.8	2.2	6.1	45.7	24.1	8.6			Atyrau
					0. -5.00	151	0.5	8.7	4.3	11.5	6.1	12.8	35.3	14.9	4.3	5.7	13.3	37.3	17.6	5.9			Batys-Kazakhstan
					0. -5.00	314	1.5	3.0	6.2	19.5	2.6	6.5	39.3	17.3	5.2	2.6	6.9	40.0	20.5	7.3			Karagandy

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							Weight/age		Height/age		Weight/height					BMI / age							
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD			
National	JAN-MAR	2006			0. -5.00	267	1.5	5.0	4.6	17.4	1.1	4.4	37.8	15.8	5.9	0.5	4.5	39.9	15.3	6.4	Kostanai Kyzylorda Mangystau Ontustik-Kazakhstan Pavlodar Shygys-Kazakhstan Soltustik-Kazakhstan Zhambyl	02860	
					0. -5.00	208	2.0	4.5	18.5	31.0	2.0	4.3	55.0	25.9	10.0	2.4	4.4	54.6	26.8	12.1			
					0. -5.00	109	1.3	2.5	7.8	16.8	6.0	12.3	34.8	17.1	6.4	7.6	12.7	38.3	19.4	6.2			
					0. -5.00	825	1.1	4.0	3.9	13.3	0.9	2.6	45.9	16.3	4.5	1.1	2.4	48.3	19.2	6.2			
					0. -5.00	197	0.7	4.3	5.1	12.6	1.2	2.3	45.1	17.0	8.0	1.9	2.3	49.3	19.1	6.8			
					0. -5.00	302	1.5	5.6	12.0	22.5	4.1	8.4	39.3	17.2	7.3	1.9	9.4	37.2	20.8	5.7			
					0. -5.00	163	2.5	5.7	3.2	11.1	0.5	1.1	36.9	12.8	3.4	1.1	1.1	38.3	13.0	2.8			
					0. -5.00	345	0.6	2.1	4.1	14.3	1.1	1.8	40.0	13.8	1.8	0.7	1.8	44.6	15.5	2.5			
					0. -0.49	413	4.2	11.3	5.8	13.9	5.7	12.6	27.5	14.1	5.4	5.0	12.1	25.6	11.0	4.6			
					0.50-0.99	461	2.0	3.8	7.3	12.5	2.0	5.1	43.2	18.9	7.5	3.0	5.8	40.2	19.4	6.8			
					1. -1.99	966	1.2	4.1	8.5	20.4	1.0	2.4	50.6	23.0	7.5	0.8	3.4	53.8	27.4	9.2			
					2. -2.99	936	1.2	4.6	7.8	18.5	0.0	1.8	39.1	11.5	0.0	1.8	3.9	47.0	21.2	8.2			
					3. -3.99	860	1.2	3.0	5.7	17.6	0.0	2.5	38.6	12.3	0.0	2.1	4.6	43.0	18.5	5.1			
					4. -5.00	764	1.9	5.5	5.2	17.5	0.0	3.0	35.4	8.2	0.0	2.5	5.2	37.2	10.3	3.3			
					URBAN	0. -5.00	2243	1.6	4.0	6.0	14.9	1.0	4.0	37.4	13.9	2.9	2.6	5.9	39.6	17.7			6.4
					RURAL	0. -5.00	2156	1.8	5.8	7.7	20.1	1.0	3.4	43.4	15.6	3.3	1.8	4.4	47.0	20.2			6.5
					M	0. -5.00	2317	2.1	5.4	7.5	17.9	1.3	4.5	41.0	15.1	3.4	2.3	5.7	44.2	20.1			7.1
					M	0. -0.49	223	4.9	10.7	6.7	14.8	6.3	13.3	31.6	17.5	7.5	4.8	12.5	29.4	14.8			5.6
					M	0.50-0.99	237	3.4	5.3	7.8	13.1	2.7	6.5	37.8	18.2	7.4	3.8	7.2	35.7	18.5			6.9
					M	1. -1.99	518	1.9	5.2	9.8	22.6	1.6	2.9	48.8	20.7	7.9	1.6	3.9	52.7	25.7			9.0
					M	2. -2.99	498	1.1	5.3	8.9	19.6	0.0	3.0	40.2	10.3	0.0	1.6	4.9	46.8	21.8			8.5
					M	3. -3.99	444	1.3	3.4	6.9	17.6	0.0	3.3	43.4	16.4	0.0	1.8	4.7	47.9	24.0			7.0
					M	4. -5.00	397	2.3	4.9	3.8	15.2	0.0	3.5	35.9	8.3	0.0	2.3	5.5	39.5	10.7			4.0
					F	0. -5.00	2082	1.2	4.3	6.1	16.9	0.7	2.8	39.7	14.5	2.7	2.1	4.5	42.1	17.6			5.8
					F	0. -0.49	191	3.3	12.0	4.7	12.8	5.1	11.8	22.7	10.0	3.1	5.2	11.6	21.2	6.5			3.4
					F	0.50-0.99	223	0.6	2.1	6.7	11.8	1.2	3.7	49.0	19.7	7.6	2.2	4.3	45.1	20.3			6.7
					F	1. -1.99	448	0.5	2.8	7.1	17.8	0.3	1.8	52.6	25.6	7.0	0.0	2.9	55.1	29.2			9.5
					F	2. -2.99	438	1.2	3.8	6.6	17.2	0.0	0.4	37.8	12.9	0.0	2.0	2.8	47.3	20.6			7.8
F	3. -3.99	415	1.1	2.6	4.5	17.7	0.0	1.7	33.6	8.0	0.0	2.3	4.6	37.7	12.7	3.1							
F	4. -5.00	367	1.5	6.2	6.7	19.9	0.0	2.5	34.9	8.0	0.0	2.6	4.8	34.6	9.8	2.5							



Percentage below / above median																						
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							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD		