

Appendix D

Data Quality Tables

Table DQ.1. Age distribution of household members

Single-year age distribution of household population by sex (weighted), Kazakhstan, 2006

age	Males		Females		age	Males		Females	
	Number	Percent	Number	Percent		Number	Percent	Number	Percent
0	427	1.7	377	1.4	42	377	1.5	419	1.6
1	470	1.9	411	1.6	43	395	1.6	408	1.5
2	460	1.9	398	1.5	44	378	1.5	424	1.6
3	408	1.7	375	1.4	45	426	1.7	465	1.8
4	360	1.5	337	1.3	46	320	1.3	402	1.5
5	338	1.4	318	1.2	47	295	1.2	410	1.5
6	344	1.4	320	1.2	48	340	1.4	374	1.4
7	361	1.5	340	1.3	49	330	1.3	317	1.2
8	372	1.5	351	1.3	50	331	1.3	471	1.8
9	448	1.8	357	1.3	51	247	1.0	299	1.1
10	452	1.8	395	1.5	52	272	1.1	348	1.3
11	412	1.7	469	1.8	53	271	1.1	347	1.3
12	518	2.1	502	1.9	54	228	0.9	340	1.3
13	515	2.1	489	1.8	55	251	1.0	322	1.2
14	520	2.1	500	1.9	56	235	1.0	280	1.1
15	543	2.2	486	1.8	57	207	0.8	260	1.0
16	573	2.3	519	2.0	58	201	0.8	267	1.0
17	569	2.3	504	1.9	59	179	0.7	198	0.7
18	521	2.1	425	1.6	60	117	0.5	161	0.6
19	459	1.9	426	1.6	61	51	0.2	96	0.4
20	431	1.7	417	1.6	62	97	0.4	138	0.5
21	456	1.8	399	1.5	63	139	0.6	169	0.6
22	414	1.7	395	1.5	64	144	0.6	204	0.8
23	390	1.6	458	1.7	65	162	0.7	303	1.1
24	413	1.7	353	1.3	66	140	0.6	195	0.7
25	432	1.7	395	1.5	67	149	0.6	263	1.0
26	398	1.6	365	1.4	68	162	0.7	198	0.8
27	408	1.7	354	1.3	69	160	0.6	214	0.8
28	392	1.6	365	1.4	70	138	0.6	218	0.8
29	351	1.4	330	1.2	71	86	0.3	96	0.4
30	382	1.5	436	1.6	72	57	0.2	116	0.4
31	330	1.3	340	1.3	73	69	0.3	134	0.5
32	328	1.3	368	1.4	74	60	0.2	94	0.4
33	336	1.4	337	1.3	75	88	0.4	134	0.5
34	309	1.2	333	1.3	76	90	0.4	89	0.3
35	367	1.5	403	1.5	77	56	0.2	94	0.4
36	332	1.3	388	1.5	78	60	0.2	112	0.4
37	316	1.3	366	1.4	79	41	0.2	98	0.4
38	338	1.4	404	1.5	80 +	180	0.7	432	1.6
39	307	1.2	395	1.5	DK/ Missing	0	0.0	1	0.0
40	355	1.4	373	1.4	Total	24 724	100.0	26 537	100.0
41	340	1.4	354	1.3					

Table DQ.2. Age distribution of eligible and interviewed women

Household population of women age 10-54, interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by five-year age group, Kazakhstan, 2006

Age	Household population of women age 10-54	Interviewed women age 15-49		Percentage of eligible women interviewed
	Number	Number	Percent	
10-14	2 353	na	na	na
15-19	2 360	2 336	17.0	99.0
20-24	2 022	1 996	14.5	98.7
25-29	1 809	1 791	13.0	99.0
30-34	1 814	1 797	13.1	99.1
35-39	1 956	1 944	14.1	99.4
40-44	1 978	1 962	14.2	99.2
45-49	1 968	1 944	14.1	98.8
50-54	1 805	na	na	na
15-49	13 907	13 770	100,0	99,0

na: not applicable

Note. Weights for both household population of women and interviewed women are household weights. Age is based on the household schedule.

Table DQ.3. Age distribution of eligible and interviewed under-5s

Household population of children age 0-4, children whose mothers/caretakers were interviewed, and percentage of under-5 children whose mothers/caretakers were interviewed (weighted), by five-year age group, Kazakhstan, 2006

Age	Household population of children age 0-7	Interviewed children age 0-4		Percentage of eligible children interviewed
	Number	Number	Percent	
0	804	803	20.0	99.9
1	881	877	21.8	99.5
2	858	857	21.3	99.9
3	783	781	19.5	99.7
4	697	697	17.4	100.0
5	656	na	na	na
6	664	na	na	na
7	701	na	na	na
0-4	4 023	4 015	100,0	99,8

na: not applicable

Note: Weights for both household population of children and interviewed children are household weights. Age is based on the household schedule.

Table DQ.4. Age distribution of under 5 children

Age distribution of under-5 children by 3-month groups (weighted), Kazakhstan, 2006

Age in months	Males		Females		Total	
	Number	Percent	Number	Percent	Number	Percent
0-2	77	3.3	73	3.5	150	3.4
3-5	129	5.6	103	4.9	232	5.3
6-8	115	4.9	105	5.0	220	5.0
9-11	131	5.6	111	5.3	242	5.5
12-14	120	5.2	116	5.6	236	5.3
15-17	138	5.9	112	5.4	250	5.7
18-20	117	5.0	119	5.7	236	5.3
21-23	135	5.8	111	5.3	246	5.6
24-26	133	5.7	125	6.0	258	5.8
27-29	130	5.6	119	5.7	249	5.6
30-32	122	5.3	84	4.0	206	4.7
33-35	119	5.1	115	5.5	234	5.3
36-38	111	4.8	97	4.7	208	4.7
39-41	108	4.6	115	5.5	223	5.1
42-44	117	5.0	113	5.4	230	5.2
45-47	113	4.9	85	4.1	198	4.5
48-50	93	4.0	86	4.1	179	4.1
51-53	90	3.9	91	4.4	181	4.1
54-56	107	4.6	107	5.1	214	4.8
57-59	122	5.2	101	4.8	223	5.0
Total	2 327	100.0	2 088	100.0	4 415	100.0

Table DQ.5. Heaping on ages and periods

Age and period ratios at boundaries of eligibility by type of information collected (weighted), Kazakhstan, 2006

Age in household questionnaire	Age and period ratios *			Eligibility boundary (lower-upper)	Module or questionnaire
	Males	Females	Total		
1	1.04	1.04	1.04		
2	1.03	1.01	1.02	Lower	Child discipline and child disability
3	1.00	1.01	1.00		
4	0.98	0.98	0.98	Upper	Under-5 questionnaire
5	0.97	0.98	0.98	Lower	Child labour and education
6	0.99	0.98	0.99		
8	0.95	1.01	0.97		
10	1.03	0.97	1.00		
13	1.00	0.98	0.99		
14	0.99	1.02	1.00	Upper	Child labour and child discipline
15	1.00	0.97	0.98	Lower	Women's questionnaire
16	1.02	1.03	1.03		
18	1.10	1.12	1.11		
23	0.96	1.14	1.05		
24	1.00	0.88	0.94	Upper	Education
25	1.04	1.06	1.05		
48	1.06	1.02	1.04		
49	0.99	0.82	0.90	Upper	Women's questionnaire
50	1.10	1.30	1.21		
Age in women's questionnaire					
23	na	1.14	na		
25	na	1.06	na		
Months since last birth in women's questionnaire					
6-11	na	1.06	na		
12-17	na	1.02	na		
18-23					
24-29	na	1.04	na		
30-35	na	0.94	na		

na: not applicable

Age or period ratios are calculated as $x / ((x_{n-1} + x_n + x_{n+1}) / 3)$, where x – is age or period.

Table DQ.6. Completeness of reporting

Percentage of observations missing information for selected questions and indicators (weighted), Kazakhstan, 2006

Questionnaire and Subject	Reference group	Percent with missing information*	Number of cases
Household			
Salt testing	All households surveyed	0.0	14 564
Women			
Date of Birth	All women age 15-49		
Month only		0.0	14 558
Month and year missing		0.0	14 558
Date of first birth	All women age 15-49 with at least one live birth		
Month only		0.1	9 726
Month and year missing		0.1	9 726
Completed years since first birth	All women age 15-49 with at least one live birth	0.0	9
Date of last birth	All women age 15-49 with at least one live birth		
Month only		0.1	9 726
Month and year missing		0.0	9 726
Date of first marriage/union	All ever married women age 15-49		
Month only		0.8	10 398
Month and year missing		3.2	10 398
Age at first marriage/union	All ever married women age 15-49	0.3	10 398
Under-5			
Date of Birth	All under five children surveyed		
Month only		0.0	4 415
Month and year missing		0.0	4 415
Anthropometry	All under five children surveyed		
Height		0.1	4 415
Weight		0.1	4 415
Height or Weight		0.1	4 415

* Includes "Don't know" responses

Table DQ.7. Presence of mother in the household and the person interviewed for the under-5 questionnaire

Distribution of children under five by whether the mother lives in the same household, and the person interviewed for the under-5 questionnaire (weighted), Kazakhstan, 2006

Age	Mother in the household				Mother not in the household			Total	Number of children aged 0-4 years
	Mother interviewed	Father interviewed	Other adult female interviewed	Other adult male interviewed	Father interviewed	Other adult female interviewed	Other adult male interviewed		
0	98.9				0.0	0.9	0.2	100.0	804
1	98.0				0.0	2.0	0.0	100.0	881
2	96.8				0.2	3.0	0.0	100.0	858
3	97.0				0.4	2.6	0.0	100.0	783
4	97.5				0.0	2.4	0.1	100.0	697
Total	97.6				0.1	2.2	0.1	100.0	4 023

Table DQ.8. School attendance by single age

Distribution of household population age 5-24 by educational level and grade attended in the current year (weighted), Kazakhstan, 2006

Age	Preschool	Primary school					Secondary school								Specialized secondary	Higher	Not attending school	Total	Number	
		Grade					Grade													
		0	1	2	3	4	5	6	7	8	9	10	11							
5	18.7	2.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.6	100.0	656
6	27.5	5.5	35.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	100.0	664
7	2.9	0.4	64.6	28.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	100.0	700
8	0.2	0.2	5.8	70.2	22.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	100.0	724
9	0.0	0.0	0.2	11.3	65.4	22.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	100.0	805
10	0.0	0.0	0.1	0.0	10.6	64.7	23.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	100.0	847
11	0.0	0.0	0.0	0.0	0.1	12.2	69.1	17.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	100.0	881
12	0.0	0.0	0.0	0.1	0.0	0.1	13.6	71.2	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	100.0	1 020
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	68.8	15.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	100.0	1 004
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	13.2	66.8	17.0	1.0	0.0	0.0	0.0	0.0	0.0	0.8	100.0	1 019
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	12.9	64.3	17.7	0.7	2.7	0.0	1.4	100.0	1 029		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	48.5	18.0	17.1	0.4	3.2	100.0	1 093		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	51.0	20.5	6.2	14.4	100.0	1 073		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	8.3	24.2	28.7	37.7	100.0	946		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	16.0	31.6	52.0	100.0	885		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	30.7	62.2	100.0	848		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.4	21.8	75.7	100.0	855		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	11.7	87.1	100.0	809		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	91.6	100.0	847		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	5.0	94.4	100.0	766		
Total	1.9	0.3	4.2	4.6	4.5	4.8	5.5	6.0	5.6	5.5	5.6	4.7	4.8	5.2	7.2	29.6	100.0	17 471		

Table DQ.9. Sex ratio at birth among children ever born and living

Sex ratio at birth among children ever born, children living, and deceased children, by age of women (weighted), Kazakhstan, 2006

Age	Children Ever Born			Children Living			Children deceased			Number of women
	Number of sons ever born	Number of daughters ever born	Sex ratio	Number of sons living	Number of daughters living	Sex ratio	Number of deceased sons	Number of deceased daughters	Sex ratio	
15–19	43	34	1.26	42	32	1.31	1	2	0.50	2 469
20–24	570	499	1.14	559	489	1.14	11	10	1.10	2 108
25–29	1 288	1 191	1.08	1 239	1 144	1.08	49	46	1.07	1 894
30–34	1 878	1 721	1.09	1 764	1 677	1.05	114	44	2.59	1 900
35–39	2 367	2 216	1.07	2 250	2 133	1.05	117	84	1.39	2 055
40–44	2 785	2 532	1.10	2 614	2 419	1.08	172	113	1.52	2 076
45–49	2 895	2 733	1.06	2 664	2 566	1.04	231	167	1.38	2 056
Total	11 826	10 926	1.08	11 132	10 460	1.06	695	466	1.49	14 558

Note: Sex ratios are calculated as number of males/ number of females.

Table DQ.10. Distribution of women by time since last birth

Distribution of women aged 15-49 with at least one live birth, by months since last birth (weighted), Kazakhstan, 2006

Age	Months since last birth		Age (continued)	Months since last birth	
	Number	Percent		Number	Percent
0	18	0.8	19	77	3.2
1	64	2.7	20	62	2.6
2	68	2.8	21	82	3.4
3	80	3.4	22	59	2.5
4	83	3.5	23	67	2.8
5	66	2.8	24	69	2.9
6	84	3.5	25	79	3.3
7	64	2.7	26	56	2.3
8	64	2.7	27	58	2.4
9	83	3.5	28	56	2.3
10	81	3.4	29	68	2.8
11	74	3.1	30	47	2.0
12	66	2.8	31	50	2.1
13	83	3.5	32	57	2.4
14	63	2.6	33	45	1.9
15	81	3.4	34	56	2.3
16	80	3.3	35	55	2.3
17	74	3.1			
18	70	2.9	Total	2 389	100.0