

APPENDICES
TO SOCIAL-ECONOMIC INVESTIGATION OF
PRIMARY MERCURY PRODUCTION AT
KHAIDARKAN MERCURY PLANT

APENDIX 1

Production statistics of Khaidarkan Mercury Joint-stock Company

Showings	Measur.. unit	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Mercury production	tons	170,5	584	611	629	629	590	574,4	541,7	369,8	488,1	309,5
Fluorite concentrate output	tons	2556	2767	2417	2977	2977	3232	1175	2656	3339	3358	3139

Source: Statement on financial-economic activity of Khaidarkan Mercury Joint-Stock Company for 2007.

Key performance indicators Khaidarkan Mercury Joint Stock Company ²

<i>№</i>	Name of indicators	<i>Units</i>	<i>2006 z. report</i>	<i>2007 z. report</i>	<i>%</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
1	Sale of products	Thousand of soms	133600	222300	116,4
2	Sale of products in current prices	Thousand of soms	108373	169636	156,5
3	Sale of products in adjusted prices	Thousand of soms	108373	169636	160,4
4	Production in physical units	Tons	169,6	331,703	195,6
	- mercury				
	- fluorite	Tons	2845	898	31,6
	- antimony-mercury concentrate	Tons	111,8	437	39,1
5	Ore production:	Thousand of soms	156,3	104,5	66,9
	- monometallic ore	Thousand of soms	81,8	70,6	86,3
	- complex ore	Thousand of soms τ	74,5	33,9	45,5
6	Metal in the ore: monometallic ores (Hg)	Tons	182,8	161,2	88,2
		%	0,223	0,228	102,2
	<i>complex ore</i>	Tons	14,8	33,4	225,7
	- mercury	%	0,027	0,098	363,0
	- antimony	tons	341,6	420,5	123,1
		%	0,63	1,24	196,8
	- fluorite	Tons	7037	4301,9	61,1
		%	12,93	12,70	98,2

² National statistical committee. Chemical industry

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7	Underground mining works:	M	1671,1	1805,4	108,0
	- monometallic ores mine	M	1019	1337	131,2
	- complex ores mine	M	652,1	468,4	71,8
8	Balance: income (+), loss (-)	Thousand of soms	-10290	+3080	
9	Per unit cost (for 1 som of production)	Tyiin	1,36		
10	Employees, including technical personnel	Person	870	867	99,6
		Person	859	841	97,9
11	Average monthly salary	Som	3921	4587	117,0
	including technical personnel	Som	3930	4675	119,0

APPENDIX 2

Source: PASSPORT of Aidarken ayil kenesh. Brief statistical data according to ayil kenesh or quantitative data.

Information on population and households (number of residents)

2008				
		Number of population	Number of deputies	Number of households in private sector
1	Aidarken	10938	17	1341

2008

№	Gender:	Number:	№	Ethnic origin	Number
1	Male	4.950	1	Kyrgyz	6510
2	Female	5.988	2	Uzbek	35
	Age		3	Russian	250
3	0-7	2055	4	Dungan	
4	8-16	3120	5	Uigur	
5	17-65	4898	6	Tatar	
6	65 and older	865	7	Kazakh	
7	Single elderly citizens	13	8	Tajik	4020
8	Incomplete families (single-parent)		9	Others	123
9	Complete families				

Provision with housing habitation (number of families)

	In total quantity of families	3244	Have allotment	1341
	Have own house (apartment)	2637	Have no allotment	1903
	Have no own house (apartment)	607	Land resources	83 ha.
	From them:			
	The well arranged houses (apartment)	1347		
	Partially well arranged houses (apartment)			

Human resources (number of person)

Number of created working positions

		2008			
1	Able-bodied	4963	1	At the expense of businessmen	3
2	Disabled persons	5975	2	At the expense of development of small and medium business	12
	Including		3	At the expense of the	6

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				population employment promotion fund	
3	Retired	1380	4	At the expense of agricultural cooperative ventures	
	Women	828	5	At the expense of peasant (farmers') households	
4	Children under 16 years old		6	Other (add)	
5	Disabled person	117		Principal source of residents' revenue, a/κ (aiyl kenesh)	
6	Number of unemployed persons	186	1	Livestock farming	
7	Registered in placement service	90	2	Agriculture	
8	Not registered in placement service	96	3	Service industries (trade and etc.)	15
				Total	

Economic purpose facilities

	Object name	Total (number)	2008		2008	Number	
			Operating (number)	Not-operating (number)			Number of agricultural entities in A/K(Aiyl Kenesh)
1	Mill	4			1	Family farms	-
2	Blacksmith shops	-			2	Pedigree farms	-
3	Barn-floor	-			3	Collective farms	-
4	Family barn- floors	-			4	Farms	-
5	Machine-shop	1			5	Joint-stock companies	-
6	Feed processing [food mixing] building	-					
7	Automatic fueling stations	2					
8	Veterinary hospital	-					
9	Veterinary drugstore	-					
10	other	-					

Poverty rate:

	Family per-head revenue rate (monthly)	Number of families in 2008
1	Up to 140 Soms	212
	141-400 Soms	411
	401-600 Soms	385
	Totally:	1008

APPENDIX 3

Table 6
Mercury content in water for different purposes (microgram/l)

Sampling place	Concentration min.	Concentration max.	Concentration average
Main water intake	0.057	0.118	0.095±0.002
2 km down main water intake	0.024	0.057	0.053±0.001
6 km down main water intake	0.003	0.121	0.100±0.002
8 km down main water intake	0.021	0.076	0.054±0.001
Water supply system	0.015	0.132	0.055±0.001
Irrigation system	0.037	0.193	0.074±0.003
Discharge water	0.054	5.587	1.504±0.009
Water for field irrigation	0.084	0.476	0.254±0.015

APPENDIX 4

Source: PASSPORT of Aidarken Ayil Kenesh.

Educational institutions

	Type of educational institution	total	Availability of pre-school institution and year of building			What repair is needed?	
			Does not operate	operate	Year of building	Current	Overhaul
	State secondary school (1-11 year of study)	3		3	№7 1960 №19 1971 №20 1978	+	

Health institutions

	Type of medical institution	Total	Availability of pre-school institution and year of building			What repair is needed?	
			Does not operate	operate	Does not operate	operate	Does not operate
1	First-aid and obstetric(al) stations						
2	Pharmacies	3		3	1983		
3	Hospitals	1					
4	Number of medical personnel	242					

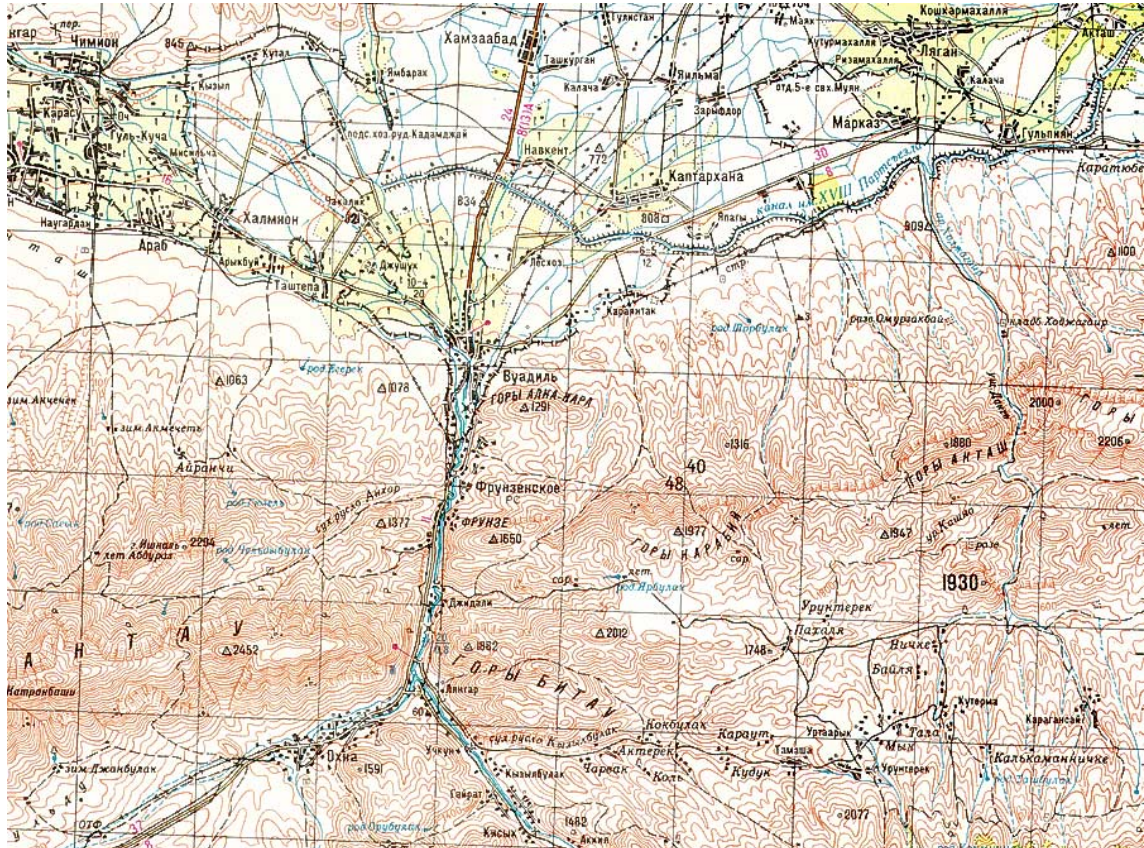
Cultural-entertainment centers

	Type of cultural-entertainment institution	Total	Availability of pre-school institution and year of building			What repair is needed?	
			Does not operate	operate	Does not operate	operate	Does not operate
1	Palace of culture	1		1	1985	+	
2	Club	-		0			
3	Libraries	1		1			+
4	Public bath	-	1	0			+
5	Private bath			6			

APPENDIX 5

Source: PASSPORT of Birlic Aiyl(Village)district (Aiyl Kenesh/ administration/-Birlik, Kadamjay region, Batken Oblast/province).. Brief statistical data on Aiyl Kenesh (administration) or quantitative data

Kadamjay district



Information on population and households (number of residents) in Batken oblast, Kadamjay district

№	Village name	2009		
		Population	Number of deputies	Number of households
		11824	15	2232
1	Including: Ormosh	1225		239
2	Sur	1696		321
3	Syrt	2126		405
4	Molo	524		102
5	Chechme	1033		191
6	Bel	853		167
7	Jany-Korgon	1152		216
8	Jal	1192		202

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9	Eshme	758		146
10	Kichi- Aidarken	1079		204
11	Teskey	186		39

Information on population in aiyl Kenesh (number of residents.)

№		2009 (number)	№		2009. (number)
	Gender:			Ethnic origin	
1	Male	6058	1	Kyrgyz	100%
2	Female	5766			
	Age				
3	0-7	2046			
4	8-16	2351			
5	17-65	6638			
6	65 and older	789			
7	Single elderly citizens	158			
8	Incomplete families (single-parent)	52			
9	Complete families	2115			

Economic purpose facilities available in Aiyl Kenesh

№	Object name	Total (number)	By 01.01.2009		By 01.01.2009		
			In operating condition (number)	In not-operating condition (number)	Number of agricultural entities in A/K(Aaiyl Kenesh)	Number	
1	Mill	22	22	6	1	Family farms	490
2	Blacksmith shops	1	1		2	Pedigree farms	-
3	Barn-floors				3	Collective farms	3
4	Family barn- floors				4	Farms	101
5	Machine-shop	1		1	5	Joint-stock companies	
6	Village garages	1	1			Creamery	
7	Feed processing [food mixing] building	1	1				12
8	Automatic fueling stations						
9	Veterinary hospitals						
	Total:	25	24	1		Total:	606

Human resources

Human resources (number of person)

Number of created working positions

№	Name	Number by 01.01.2009	№	Name	Number by 01.01.2008
1	Able-bodied	6119	1	At the expense of businessmen	25
2	Disabled persons	5705	2	At the expense of development of small	34

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				and medium business	
	Including		3	At the expense of the population employment promotion fund	
3	Retired	742	4	At the expense of agricultural cooperative ventures	
	Women	420	5	At the expense of peasant (farmers') households	
4	Children under 16 years	4397	6	Other (add)	
5	Disabled person	137	1	main source of income of the inhabitants of Ayil Kenesh	
6	Number of unemployed persons			Livestock farming	
7	Registered in Employment Service	24	2	Agriculture	
8	Not registered in Employment Service		3	Service industries (trade and etc.)	59
				Total	

Revenues of Aiyl Kenesh

№	Types of incomes	2006	2007	2008
1	Own (local) revenue sources:	737.5	1049,6	1114,3
	Transfers from the national budget	4872,1	9232,9	7173,0
2	Other sources of income			
	Total:	5609,8	10282,5	8287,3

Poverty level (number of families)

№	Family per-head revenue level (monthly)	Number of families
2009		
1	Up to 175 Soms	243
2	175-510 Soms	562
3	510-800 Soms	301
	TOTAL:	1106

Enterprises registered in Kadamjay district (incomplete data)

<u>A-Capital</u>	Batken oblast, Kadamjay district, Kadamjay settlement	General building construction, Manufacturing of plastic windows and doors, Computer and office equipment trade, including their repair and servicing
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Darazhan	Batken oblast, Kadamjay district, Karool village	Bottling of spring-table water “Bant’
Diydor	Batken oblast, Kadamjay district, Kadamjay settlement	Newspaper editorial office
Dil Azyk	Batken oblast, Kadamjay district, Kadamjay settlement	Newspaper editorial office
<u>Kadamjay Antimony Integrated Works</u>	Batken oblast, Kadamjay region, Kadamjay settlement	Development, mining and processing of antimony – metal deposits
<u>Savings bank 'Pulgon', № 040-2-59 'EcoBank' Open Join-Stock Company</u>	Batken oblast, Kadamjay district,, Pulgon village	Point of customers’ service
<u>TV- Center</u>	Batken oblast, Kadamjay district, Kadamjay settlement	
<u>Khaidarkan Mercury Plant</u>	Batken oblast, Kadamjay district, Khaidarkan settlement	Processing of metal mercury, fluorite, manufacturing of saw timber
El Zharchisy	Batken oblast, Kadamjay district, Kadamjay settlement	Newspaper editorial office

Number of Aiyl Kenesh residents, possessing motor-cars, farming machines and cartage in working condition

№	Machinery name	Total number	Private property	Technical condition	Total number of livestock	Private property
1	Motor car	184	184	Satisfactory.	Cows	3942
2	Motor truck	23	23	-	Horses	462
3	Motorcycle	9	9	-	Sheeps	5368
4	Farming machines	84	84	-	Goats	4437
5	CARTAGE	249	249	-	Poultry	7417
6	Other technical equipment/ machinery	55	55	-	Pigs	-

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					Rabbits	
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Roads

Description	Length (km)	Road condition	
Hard surface roads	10	Satisfactory	
Gravel roads	17	Unsatisfactory	
Earth road	10	Unsatisfactory	
Interior earth roads	91	Unsatisfactory	

Bridges

№	Bridges (location)				What maintenance is required?	
		Year of construction	Wooden	Reinforced-concrete	Current	Overhaul
1	Eshme	1966		1	1	
2	Sur	1966		1		1
3	Chechme	1967		1		1
4	Sur-Ormosh	1968		1	1	
5	Ormosh-Moldo	1970		1		1
6	Molo-Syrt	1972		1		1
7	Syrt	1972		1		1

Water recourses

Water resources. Drinking water

№	Name of settlements	Tap water	Aryk (irrigation ditch) water	Brought water
1	Ormosh	1		
2	Sur	1		
3	Bel	1		
4	Chechme	-	1	
5	Syrt		1	
6	Molo	1		
7	Jany-Korgon	1		
8	Jal	1		
9	Kich-Aidarken	1		
10	Eshme	1		
11	Teskey	-	1	

Access to pure drinking water. Water supply system:

№	Name	Extent (km)	Availability and construction year			What maintenance is required	
			Not available	Available	Construction year	Current	Overhaul
1	«Gauyan Taza	48		1	2005	1	

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	Suu»					
2	Old water supply system	23			1961	1

65% of Kadamjay region have access to pure drinking water

Irrigation water

Access to irrigation water

№	Name	Nymber	Demanded repair			
			Extent (km)	Condition	Current	Overhaul
1	Irrigation system, including inter-farming					
	inside-farming	4				
	As well as flumed & with earth channel	2 2	8 12	Satisfactory Unsatisfactory	1	1
2	Channels 1. Gauyan 2. Gorotu	2	18 11,600	Unsatisfactory Unsatisfactory		1 1
3	Collection-drainage system					
4	Irrigation system					
5	Dykes					
6	Dams					

85% of population has access to irrigation water

Water users association³ (WUA)

Name	Location	Number of members	Number of women-members of WUA	Total area ha	Irrigated area, ha	Benefit-receivers ¹
Akbulak-Dyikan	Batken oblast, Kadamjay region, Akbulak village authority	349	16	674	674	4916
Ak-Suu-Khalmion	Batken oblast, Kadamjay region, Khalmion village authority	3254	540	3430	3080	21000

³ Water Users Associations Support Program (WUASP) <http://wuasp.uz>

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Alga-Zharkoton	Batken oblast, Kadamjay region, Khalmion village authority	1520	220	1130	750	7300
Burgondu-Suu	Batken oblast, Kadamjay region, Akturpak village authority	587	18	4850	4250	12997
Gauyan	Batken oblast, Kadamjay region, Birlik village authority	985	38	3502	2502	7300
Isa-Mariyam	Batken oblast, Kadamjay region, Maidan village authority	1834	129	828,1	731	3762
Kara-Dobo	Batken oblast, Kadamjay region, Kara-Dobo village authority	1569	202	1808	1808	10900
Kojo-Kaiyr	Batken oblast, Kadamjay region, Markaz village authority	1499	187	2960	2960	9715
Kurtash	Osh oblast, Aravan region, Too-Moyun village authority	707	7	1150	850	2700
Tilla-Suu	Kadamjay region, Batken oblast, Kyrgyz-Kyshtak village authority	1611	410	1265	565	6200
Uchkorgon-Isfariamsai	Batken oblast, Kadamjay region, Uchkorgon village authority	5591	739	2194	2194	28037

Public health

Medical establishments

№	Type of medical establishment	Total				What maintenance is required?		Medical personnel number
			Operating	Not operating	Year of construction	Current	Overhaul	
1	First-aid-Obstetrics stations (FAOS), Family Doctors' Group (CBA)(Association of Family Doctors)	2		2	1965 2001	1	1	3 3
		1		1	1986		1	5
2	Pharmacy							
3	Hospital							
4	Dental clinics							
5	Veterinary hospitals							

Sickness rate of Kadamjay district population (residents)⁴

(according to disease classes)

	1990	1996	1997	1998	1999
Number of diseases with diagnosis, established for the first time-total	1465,3	1084,5	1181,0	1247,9	1314,5
infectious and parasitic diseases	106,9	85,1	105,8	112,8	108,9
neoplasms	8,4	6,8	7,3	7,4	9,5
endocrine system diseases					
Meals disorders, disorders of					
metabolism and immunity	22,5	25,2	30,7	40,3	58,0
Diseases of blood and blood-making organs	26,9	47,7	49,2	62,8	72,1
mental disorders		8,7	11	6,3	7,1
nervous system diseases, diseases of eye	112,6	57,6	39,5	44,9	45,5
and appendages of eye	...	28,7	38,2	40,6	48,6
diseases of ear and mastoid	...	22,4	30,6	30,8	38,9
diseases of blood circulation system	24,6	19,6	20	20,4	23,3
diseases of respiratory organs	619,7	338,1	384,8	375,4	369,9
digestive apparatus diseases	109,3	95,8	95,4	132,4	137,1
urogenital system diseases	52,8	75,7	79,1	82,3	90,3
complications of pregnancy and puerperal period	...	26,3	27,2	28,8	35,6
diseases of skin and subcutaneous cellular tissue	101,7	102,1	115,2	123,9	108,6
Diseases of musculoskeletal [apparatus] system					

⁴ Sharshenova A.A, Omurzakova K.S., Saipbaev B.S., Actual aspects of mercury-antimony biogeochemical region ecological monitoring. Ministry of health of the Kyrgyz Republic. "Preventive medicine" Scientific-production association (Bishkek, 2000). “

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and connective tissue	29,7	21,1	24,8	24,3	23,5
Congenital anomalies	2,4	2,0	2,6	3,0	2,4
Traumas and intoxications	155,6	123,9	130,6	120,0	116,5
Symptoms, signs and inexactly defined conditions	...	3,7	2,8	2,8	3,7

Educational and cultural-enlightening institutions

Educational institutions

№	Type of educational institution	total	Availability of educational institution and year of building			What repair is needed?		Number of teachers	Number of pupils.	Number of classes
			Does not operate	operate	Name of school and construction year	Current	Overhaul			
1	Public incomplete high school(1-4 forms)									
2	Public incomplete high school (1-9 forms)	1		1	Molo 1997	1		14	185	9
3	Public complete high school (1-11 forms)	6		6	A..Shamurzaev. 1988 B.Alykulov 1982 Syrty 1974 The 1 st May 1968 Eshme 1989 A. Soltonov 2002	1 1 1 1 1	1	28 34 28 21 17 18	622 489 401 309 185 172	28 22 18 12 11 11
4	Vocational-Technical schools									
5	Evening school									
6	Private school									

Preschool institutions

№	Type of educational institution	total	Availability of educational institution and year of building			What repair is needed?		Number of teachers	Number of pupils.	Number of classes
			Does not operate	operate	Name of school and construction year	Current	Overhaul			
1	Kindergartens	1	1		1989		1			
2	Day nurseries									

Culture-enlightenment institutions

№	Name	total	Availability of educational institution and year of building			What repair is needed?	
			Does not operate	Operate	Construction year	Current	Overhaul
1	House of culture	-					

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2	Club	1		1	1967		1
3	Library	1		1	1969		1
4	Public bath						
5	Hotel						

APPENDIX 6

Batken oblast

Information on permanent population in the region (assessment as at year beginning ; thousand people)

	2004	2005	2006	2007	2008
Kyrgyz Republic	5 037,3	5 092,8	5 138,7	5 189,8	5 224,3
Batken oblast	409,0	413,7	418,1	423,2	426,0

Territory and political division of the Republic in 2008 (At the beginning of the year, unit)

	Territory, thousand of square kilometers	Number of residents per 1 square kilometer	Number of political units			
			regions (without districts in cities)	Cities/towns	Urban settlements	Ayil (village) districts
Kyrgyz Republic	199,9¹	26,3	40	25	28	444
Batken oblast (province)	17,0	24,9	3	4	5	30

Gross regional product in current prices (million Soms)

Name	2002	2003	2004	2005	2006
With respect to republic	75366,7	83871,6	94350,7	100899,2	113175,6
With respect to Batken oblast	2990,6	3452,2	3637,6	3083,0	3550,3
Share in republican Gross domestic product, %	4,0	4,1	3,8	3,0	3,1

Share of sectors in oblast's Gross domestic product

Sector name	% share
Agriculture	58,3
Industry	9,1
Infrastructure and servicing	6,4
Building	7,2
Service industries	5,8
State sector	7,4
Social sector	6,9

Commodity composition of import

Commodity name	Volume of import, Thousand of US dollars		
	2003	2004	2005

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Antimonous concentrate	1101,6	898,5	1248,5
Cement	213,4	141,0	170,4
Fuels and lubricants	14,2	15,4	17,1
Explosive materials	23,6	23,5	24,0
Gypsum cement	11,9	10,1	12,2
Schist	25,6	41,3	37,6
Fertilizer	24,4	24,7	23,9
Scrap and iron-and-steel waste	14,5	16,1	14,3
Motor-cars	16,5	70,4	77,1
Electrodes	79,1	55,4	61,7
Rolled iron	40,9	35,8	33,6
Confectionery	5,4	7,1	7,9
Shaft equipment	36,1	12,0	18,6
Containers	156,6	98,7	82,2
Other commodities	2082,3	1054,4	1167,4
Total	3846,1	2504,4	2996,5

Commodity composition of import

Commodity name	Volume of import, Thousand of US dollars		
	2003	2004	2005
Mercury metal	786,9	948,2	1197,2
Antimony metal	986,2	1013,2	111,5
Scrap and iron-and-steel waste	325,1	4984,3	362,1
Scrap and nonferrous waste	877,7	798,7	440,4
Fluorite concentrate	387,1	364,5	342,7
Limestone	207,0	232,3	170,6
Coal	71,3	58,9	98,1
Gypseous stone	131,2	153,0	101,4
Fermented tobacco	4752,4	4689,1	4221,1
Cotton-fiber	869,2	795,2	556,6
Died fruit	15,7	24,6	32,7
Vegetables, berry (sweet cherry)	61,3	79,2	86,9
Died fruit and fruits	140,2	161,0	178,8
Goats' fluff	----	131,8	149,4
Cattle and small cattle skins	-----	29,2	39,9
Other goods	2841,7	2931,0	2731,5
Total	12453,0	13394,2	11822,9

In 2005 the export volume of agricultural commodities outside the country made up 5265,4 thousand of US dollars, which is 12% lower than in 2004 year.

Distribution of import and export between the countries

	Countries	2003 year		2004 year		2005 year	
		import	export	import	export	import	export
1	Azerbaijan	-	25,2	1,1	--	1,7	-
2	Armenia	-	-		21,8	-	17,4
3	Byelorussia		262,4	2,2	87,6	206	100,1

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4	Belgium	-	136,5	--	--	--	114,2
5	Great Britain	-	451,2	--	--	-	407,1
6	Hungary	-	27,5	--	--	-	17,4
7	Germany	64,5	21,4	4,6	--	72,7	28,1
8	Kazakhstan	357,3	86,7	15,8	90,5	401,6	107,9
9	Canada	-	-	---	---	-	-
10	China	583,6	2489,0	169,1	3123,5	172,8	3371,2
11	Lithuania	-	103,8	--	--	-	76,0
12	Netherlands	-	336,0	13,2	474,8	-	201,4
13	Poland	-	2,6	--	--	-	201
14	Russia	1273,9	4923,9	843,8	809,2	1391,3	3554,3
15	Romania	-	262,2	--	236,4	-	207,2
16	Saudi Arabia	-	1,9	---	--	-	2,3
17	USA	-	278,1	---	--	-	-
18	Tajikistan	912,2	21,3	233,4	60,6	-	79,2
19	Turkmenia	-	-	--	--	-	-
20	Turkey	36,1	124,9	17,2	--	19,5	73,3
21	Uzbekistan	587,5	1648,8	1263,2	2298,4	862,9	3169,6
22	Ukraine	-	1230,0	146,8	131,2	71,4	142,7
23	Czechia	-	16,9	---	--	-	-
24	Finland	-	-	---		-	-
25	France	-	-	--		-	-
26	Spain	-	-	3,2		-	-
27	Estonia	-	-	-	28,4	-	30,6
28	Moldova	-	-	-	129,3	-	120,8
	Total	3846,1	12453,0	2504,4	13394,2	2996,5	11822,9

Points of growth with respect to regions and cities of the oblast (province)

№	Regions, cities	Potential of region	Selected points of growth in economy
1.	Batken region	<ul style="list-style-type: none"> - Deposit of mineral resources: coal, gold, tantalum niobates, limestone, marble, gypsum cement, natural gas and oil; - Natural-climatic conditions for breeding of cattle and small cattle; -development of gardening; -development of tourism; -development of frontier trade with neighboring Republics (Uzbekistan, Tajikistan) 	<p><i>I. Development of agriculture</i></p> <ul style="list-style-type: none"> a) animal breeding -organization of meat and dairy products output; -rise of productivity and improvement of animal breeds; -formation of forage resources; <p><i>б) crop production:</i></p> <ul style="list-style-type: none"> - Agricultural production growth; - formation of new working positions; <p><i>II. Development of industry:</i></p> <ul style="list-style-type: none"> 1. Increase of mineral products output; -opening of small ventures for mining of coal, gold, limestone, marble and etc. -equipping with up-to date mine and shaft machinery; - formation of new working positions; -provision of population with cheap coal and etc. - increase of export from the region 2. Growth of agricultural products reclamation industry output

2.	Kadamjay district	<p>- Deposit of mineral resources: mercury, antimony, gold, oil, limestone, marble, high-silica sand; - Natural-climatic conditions for breeding of cattle and small cattle; -development of gardening; -development of tourism; -development of frontier trade with Uzbek Republic.</p>	<p><u>I. Development of agriculture</u> a) animal breeding -organization of artificial pollination stations; - rise of productivity and improvement of animal breeds; - formation of own forage resources; <u>b) crop production:</u> - agricultural production growth: - provision of population with food staffs; - improvement of provision with water, control over rehabilitation works. -for development of agriculture to open branch offices of "Aiyl Bank" at Aidarken and Uch-Korgon villages. <u>II. . Development of industry:</u> 1. Increase of mineral products output; -due to stirring up of works at "Kadamjai Antimony Integrated Works" Open Joint-Stock Company and "Kaidarkan Mercury " Joint-Stock Company; -opening of workshops for production of nails and brick at the base of "Kaidarkan Mercury " Joint-Stock Company ; -formation of workshops for production of paint, refinement of gold at the base of " Kadamjai Antimony Integrated Works" Open Joint-Stock Company; -implementation of exploration-surveying works for local ores and their; -construction of mini-plant for oil refining at Burgandinsk –massif area; -attraction of investments; -equipping with up-to-date machinery; -formation of new working positions; -rise of export from the region. 2. Growth of agricultural production by reclamation industry;</p>
3.	Leilekskiy region	<p>- Deposit of mineral resources: coal, gold, oil, limestone, marble, silica sand; - Natural-climatic conditions -for breeding of goats, fine-wooled sheep of Australian origin, yaks; -development of gardening; -development of tourism; -development of frontier trade with the Republic of Tajikistan;</p>	<p><u>I. I. Development of agriculture</u> a) animal breeding -organization of works for wool processing; - rise of productivity and improvement of animal breeds; - formation of own forage resources; <u>b) crop production:</u> - agricultural production growth: -formation of new working positions; <u>II. Development of industry:</u> 1. Increase of mineral products output; -opening of small ventures for mining of coal, gold, limestone, marble and etc. -attraction of investments; -equipping with up-to date mine and shaft machinery; - formation of new working positions; -provision of population with cheap coal and etc. - increase of export from the region 2. Growth of agricultural products reclamation industry output .</p>

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			3.Construction of oil mini-refinery 4. Plant (for glass and porcelain manufacturing)
4.	Kyzyl-Kiya town	- Deposit of mineral resources: coal, silica sand;	<u>I. Development of industry:</u> 1.Construction of cement plant. 2. Increase of mineral products output; - activation of coal mining enterprises, - attraction of investments; - equipping with up-to date mine and shaft machinery; - formation of new job positions; 3. Growth of reclamation industry products output. - provision of support to tobacco manufacturers; - raising of financing for advancing of tobacco-manufacturers.
5.	Sulukta town	- Deposit of mineral resources: coal, silica sand;	<u>II. Development of industry:</u> 1. Increase of mineral products output; -new shaft construction under "Sulukta Komur" Open Joint-Stock Company for prospective 10 –year coal production with the capacity from 350-500 thousand tons per year. -finding of donors(investors); -equipping with modern mine and shaft machinery; -formation of new working positions; -provision of support to "Kosh-Bulak" Limited Liability Company with allotment of financial funds for raise of high-silica sand recovery.

Network of organizations rendering medical assistance to population, Kyrgyz Republic, 2006-2007 years.

Regions	Number of organizations rendering in-patient assistance		Number of Family Medicine Centers		Centers of general medical care		Number of Family Doctors' Groups (entering to Family Medicine Centers and Centers of general medicine care)		Family Doctors' Groups being independent legal entities		First Aid Satiation	
	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007
Kyrgyz Republic	147	147	85	80	3	10	670	678	29	24	899	934
State organizations	21	24									5	5
Bishkek city	11	11	19	19			96	98				
Osh city	3	3	7	7			40	40			7	7
Batken Oblast	10	11	8	7		2	82	83			77	81

APPENDIX 7

Staff with specialists having secondary medical education, Kyrgyz Republic, 2006-2007 years.					
	2006	2007	Variation (+,-)	per 10 000 thousand of residents	
				2006	2007
Kyrgyz Republic	28753	28282	-471	55,4	54,5
State organizations	2807	2745	-62	-	
Batken Oblast	2934	2927	-7	69,3	69,2

Birth rate, death rate, natural increase, Kyrgyz Republic, 2006-2007 years.									
Regions	Born		(%) variation	Diseased		(%) variation.	Natural increase		(%) variation
	2006	2007		2006	2007		2006	2007	
Kyrgyz Republic	23,3	23,5	0,9	7,4	7,3	-1,4	15,9	16,2	1,9
Bishkek city	19,8	20,8	5,1	7,3	7,5	2,7	12,5	13,3	6,4
Osh city	18,3	19,6	7,1	6,0	6,1	1,7	12,3	13,5	9,8
Batken Oblast	24,8	25,3	2,0	6,3	6,0	-4,8	18,5	19,3	4,3

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<i>Staff with physicians, Kyrgyz Republic, 2006-2007years.</i>					
	Total number of physicians 01.01.07.	Total number of physicians 01.01.2008.	Variations (+,-)	per 10 000 thousand of residents	
				2006	2007
Kyrgyz Republic	12710	12379	-331	24,5	23,9
State organizations	3246	3128	-118	-	-
Bishkek city	2310	2243	-67	28,6	27,8
Osh city	590	596	6	23,6	23,9
Batken Oblast	588	583	-5	13,9	13,8

Some infective diseases sickness rate, Kyrgyz Republic, 2006-2007 years.

Regions	Virus hepatitis				% variation	Hepatitis A				% variation	Hepatitis B				% variation
	Abs.number		int.rate			Abs.number		int.rate			Abs.number		int.rate		
	2006	2007	2006	2007		2006	2007	2006	2007		2006	2007	2006	2007	
Kyrgyz Republic	8127	12970	158,2	249,1	57,5	7128	11920	138,7	228,9	65,0	616	637	12,0	12,2	1,7
Bishkek city	1360	1629	170,3	201,0	18,0	1078	1360	135,0	167,8	24,3	182	159	22,8	19,6	-14,0
Osh city	416	1128	166,1	451,7	2,5 times	302	996	120,6	398,9	3 times	85	105	33,9	42,1	24,2
Batken Oblast	538	1547	128,7	364,4	2,5 times	466	1452	111,5	342,0	2,8 times	64	85	15,3	20,0	30,7
Regions	Tuberculosis				(%) variation	Brucellosis				(%) variation	AIDS-infection				(%) variation
	abs.number		Int. rate			abs.number		Int. rate			abs.number		Int. rate		
	2006	2007	2006	2007		2006	2007	2006	2007		2006	2007	2006	2007	
Kyrgyz Republic	5726	5667	110,9	108,8	-1,9	3840	4035	74,7	77,5	3,7	233	388	4,5	7,5	65,6
Bishkek city	1151	1067	143,4	131,7	-8,2	57	86	7,1	10,6	49,5	45	45	5,6	5,6	-0,8
Osh city	241	258	96,4	103,3	7,1	58	80	23,2	32,0	38,1	72	88	28,8	35,2	22,4
Batken Oblast	354	341	84,1	80,3	-4,5	476	397	113,8	93,5	-17,8	4	8	1,0	1,9	88,5

Some infective diseases sickness rate, Kyrgyz Republic, 2006-2007 years.

Regions	General intestinal group				% variation	Including bacillary [Japanese] dysentery				% variation	Salmonellosis				% variation
	abs.number		Int. rate			abs.number		Int. rate			abs.number		Int. rate		
	2006	2007	2006	2007		2006	2007	2006	2007		2006	2007	2006	2007	
Kyrgyz Republic	20071	24939	390,6	478,9	22,6	2671	2484	52,0	47,8	-8,1	341	698	6,6	13,4	в 2 раза
Bishkek city	3930	6037	492,0	745,0	51,4	1136	1046	142,2	129,1	-9,2	137	216	17,2	26,7	55,0
Osh city	1309	1084	522,8	434,1	-17,0	146	100	58,3	40,0	-31,3	1	9	0,4	3,6	в 8,7 раз
Batken Oblast	2585	2868	618,3	692,6	12,0	156	172	37,3	40,5	8,6	41	47	9,8	11,1	13,0
Regions	Echinococcosis				% variation	Malaria				% variation	Syphilis				% variation
	abs.number		Int. rate			abs.number		Int. rate			abs.number		Int. rate		
	2006	2007	2006	2007		2006	2007	2006	2007		2006	2007	2006	2007	
Kyrgyz Republic	654	695	12,7	13,3	4,7	320	96	6,2	1,8	-70,3	1466	1156	28,5	22,2	-22,1
Bishkek city	347	401	43,4	49,5	14,1	133	42	16,6	5,2	-68,8	421	293	52,7	36,2	-31,4
Osh city	26	20	10,4	8,0	-23,1	2	1	0,8	0,4	-49,9	134	110	53,5	44,1	-17,7
Batken Oblast	18	17	4,3	4,0	-6,9	53	22	12,7	5,2	-59,2	81	28	19,4	6,6	-66,0

APPENDIX 8

Data provided by the Department for monitoring and forecasting of emergency situations and maintenance of tailing dumps under the Ministry of Emergency Situations of KR

№	Name of Aiyyl Okmotu	landslips	Mud flows, flash floods, bank erosion	Underflooding	Rockslide and landslips	Break-risk Alpine lakes	Snow slips	Earthquakes
	Batken region							
1	Darynskiy	1	5			+		+
2	Kyshtukskiy	1	5			+		+
3	Batkenskiy		3	2				+
4	Karabakskiy		3	1	1			+
5	Kara-Bulakskiy		2	1				+
6	Samakandykskiy		4					+
7	Suu-Bashinskiy		3					+
8	Tert-Gjulskiy		2					+
	<i>Total:</i>	2	27	4	1	2		+
	Lyailiaskiy region							
1	Sulukta town	3	2					+
2	AK-Suuskiy		6		1	+		+
3	Beshkenskiy		8					+
4	Isfarinskiy		9	1		+		+
5	Kulundinskiy		6			+		+
6	Lyailiaskiy		2			+		+
7	Sumbulinskiy		8					+
8	Toguz-Bulakskiy		5					+
9	Kantranskiy					+		+
	<i>Total:</i>	3	46	1	1	5		+
	Kadamjaiskiy region							
1	Kiotiormskiy	2	9		1			+
2	Maidanskiy	1	6		1	+		+
3	Ak-Turpakskiy		3	1				+
4	Birlikskiy		7	1		+		+

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5	Rara-Debenskiy		2			+		+
6	Markazskiy		2			+		+
7	Orozbekodskiy	1	9					+
8	Uch-Kogonskiy		1	2		+		+
9	Khalmonskiy		5					+
10	Kyzyl-Kiya town		2					+
11	Ak-Bulakskiy		4			+		+
12	Kadamjaiskiy		1					+
13	Chauvaiskiy	3	4					+
14	Khaidarkanskiy		1					+
15	Kyrgyz-Kyshtakskiy			1				+
16	Kadamjay settlement		1		3			+
	<i>Total:</i>	7	57	5	5	6		+
	<i>Total over the oblast:</i>	12	130	10	7	13		+

APPENDIX 9

Analysis of the survey conducted among the staff of Khaidarkan mercury integrated works.

1. What is your family monthly income?

	Number of respondents	%
1000 - 3000 soms	5	16,1
3000 - 5000 soms	6	19,4
5000 - 8000 soms	8	25,8
8000 - 10000 soms	6	19,4
No answer	6	19,4
Total	31	100,0

2. How do you think: how do people know about the activities of the plant?

	Number of respondents	%
From friends	6	19,4
TV, printed media	4	12,9
Relatives	7	22,6
From workers	1	3,2
Don't know	2	6,5
newspapers	4	12,9
Radio, TV newspapers	1	3,2
TV	2	6,5
All abovementioned	2	6,5
From governmental authorities	1	3,2
All abovementioned + internet	1	3,2
Total	31	100,0

3. In your opinion, how is it necessary to inform about the activities of KHAIDARKAN MERCURY PLANT (KHMIW)?

	Number of respondents	%
TV, newspapers	4	12,9

TV	13	41,9
Yes*	6	19,4
Newspapers	1	3,2
Radio and TV	1	3,2
All abovementioned	2	6,5
It is not necessary	2	6,5
I do not know	2	6,5
Total	31	100,0

*Most respondents said that it is necessary to inform about the KHMIW activity, but did not indicate methods.

4. Are you satisfied with the working conditions at Khaidaran?

	Number of respondents	%
No	10	32,3
Yes	19	61,3
No answer	2	6,5
Total	31	100,0

5. Are you/they satisfied with the salary?

	Number of respondents	%
No	23	74,2
Yes	7	22,6
No answer	1	3,2
Total	31	100,0

6. Does KHAIDARKAN MERCURY PLANT provide any benefit?

	Number of respondents	%
No	3	9,7
Yes	25	80,6
No answer	3	9,7
Total	31	100,0

If "yes", please indicate a benefit?

	Number of respondents	%
Working positions	8	25,8
Strategic benefit	3	9,7
Production of precious metal	1	3,2
No answer	13	41,9
Money	1	3,2
Water supply, light and gas	1	3,2
Enterprise forming a company town	1	3,2
Enterprise forming a company town +working places	1	3,2
Working places +taxes	2	6,5
Total	31	100,0

7. Does KHAIDARKAN MERCURY PLANT make harm?

	Number of respondents	%
No	10	32,3
Yes	21	67,7
Total	31	100,0

If “yes”, please indicate what harm?

	Number of respondents	%
No answer	11	35,5
Harm to an environment	4	12,9
Harm to a health	7	22,6
Mercury	4	12,9
Possibility of poisoning	3	9,7
Insignificant (thanks to highly technical treatment and control)	2	6,5
Total	31	100,0

8. Do you know what profit value KHAIDARKAN MERCURY PLANT brought to our country?

	Number of respondents	%
No	18	58,1
Yes	11	35,5
No answer	2	6,5
Total	31	100,0

If "yes", please, clarify.

	Number of respondents	%
No answer	27	87,1
Great	2	6,5
15million.	1	3,2
Not large	1	3,2
Total	31	100,0

9. In your opinion, is it possible to have staffing shortage at the plant?

	Number of respondents	%
No	3	9,7
Yes	27	87,1
Do not know	1	3,2
Total	31	100,0

10. How do you think, what is required for a good work activity?

	Number of respondents	%
Equipment	2	6,5
Timely salary payment	5	16,1
Better work of employees	4	12,9
Do not know	3	9,7
Equipment, experienced management	1	3,2
Investments and governmental support	3	9,7
Equipment and timely salary payment	3	9,7
Reorientation to a new types of products	1	3,2
Sponsors and specialists	1	3,2

Intensify activity on prospecting and drifting	2	6,5
Equipment and specialists	2	6,5
Investments	3	9,7
Improve working conditions and management of leadership	1	3,2
Total	31	100,0

11. What will people do if staff shortage happens?

	Number of respondents	%
Migration*	18	58
Do not know	4	12,9
Rubbery and theft	2	6,5
Agriculture	2	6,5
Nothing	3	9,7
Business	2	6,5
Total	31	100,0

*Any migration in meant in this question (inside the country, abroad, to neighboring village)

12. Do you cultivate fruits and vegetables?

	Number of respondents	%
No	14	45,2
Yes	16	51,6
No answer	1	3,2
Total	31	100,0

* A half of respondents cultivate potatoes

13. Do you keep livestock/ poultry?

	Number of respondents	%
No	16	51,6
Yes	14	45,2
No answer	1	3,2
Total	31	100,0

14. Is your health good? And what about your family?

	Number of respondents	%
No	7	22,6
Yes	20	64,5

No answer	4	12,9
Total	31	100,0

15. Do you worry/informed about ecology and public health care in your city/ settlement?

	Number of respondents	%
No	Total	51,6
Yes	12	38,7
No answer	3	9,7
Total	31	100,0

If "yes", please specify.

	Number of respondents	%
No answer	19	61,3
Problems of ecology	6	19,4
Health problems	2	6,5
Level of doctors' proficiency	1	3,2
Highland	3	9,7
Total	31	100,0

16. Do you know what negative impact of mercury on human health exists?

	Number of respondents	%
No	10	32,3
Yes	15	48,4
No answer	6	19,4
Total	31	100,0

If "yes", please specify.

	Number of respondents	%
Nervous system, kidneys and liver	2	6,5
No answer	17	54,8
Heart	2	6,5
Teeth, Lungs	3	9,7
Silicosis	1	3,2
Headache, worsening of memory	1	3,2
Arterial pressure	1	3,2
Poisoning	1	3,2

Insignificant	1	3,2
A/pressure, anemia, stones in organs	1	3,2
Leukemia , poisoning	1	3,2
Total	31	100,0

17. Do you undertake any measures on your personal or your family protection from mercury impact?

	Number of respondents	%
No	15	48,4
Yes	13	41,9
No Answer	3	9,7
Total	31	100,0

If "yes", please specify.

	Number of respondents	%
Protection, treatment	3	9,7
Poisoning	2	6,5
No answer	18	58,1
Use of milk	3	9,7
Good meals	2	6,5
Medical treatment	1	3,2
After-work sanatorium+ health resort	2	6,5
Total	31	100,0

18. What changes would you like to see at the integrated works in future (If not mercury, then what?)

	Number of respondents	%
No answer	6	19,4
Continue to operate	9	29,0
Gold ore plant	3	9,7
Brick-making, asphalt production plant	3	9,7
Wage raise	1	3,2

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Good investments	1	3,2
No changes	1	3,2
Improvement of working conditions, timely salary payment, no layoffs	1	3,2
Improvement of working conditions, modernization of technical equipment	1	3,2
Keep on operating, timely salary payment	2	6,5
Pay rise, strengthening of discipline, new equipment	1	3,2
Governmental support	1	3,2
New equipment, prospecting, functioning of after-work sanatorium	1	3,2
Total	31	100,0

APPENDIX 10

Analysis of the survey conducted among residents of Khaidarkan/Osh/Batken.

1. Do you and/or your friends /relatives work at Khaidarkan mercury integrated works?

	Number of respondents	%
No	57	80,3
Yes	14	19,7
Total	71	100,0

2. Do your children work in Khaidarkan?

	Number of respondents	%
No	64	90,1
Yes	2	2,8
No answer	5	7,0
Total	71	100,0

3. What is your family income?

	Number of respondents	%
No answer	7	9,9
Seasonal income	32	45,1
5000 – 7000 Soms	5	7,0
8000 - 10000 Soms .	6	8,5
12000 - 15000 Soms .	6	8,5
16000 - 18000 Soms .	7	9,9
19000 - 22000 Soms.	8	11,3
Total	71	100,0

4. Do you cultivate fruits and vegetables?

	Number of respondents	%
No	37	52,1
Yes	34	47,9
Total	71	100,0

5. Do you keep livestock /poultry?

	Number of respondents	%
No	39	54,9
Yes	32	45,1
Total	71	100,0

6. Do you have good health or not? And what about your family?

	Number of respondents	%
--	-----------------------	---

No	24	33,8
Yes	47	66,2
Total	71	100,0

7. Do you worry/informed about ecology and public health care in your city/ settlement?

	Number of respondents	%
No	45	63,4
Yes	26	36,6
Total	71	100,0

If "yes", please specify.

	Number of respondents	%
No answer	68	95,8
Ecology	3	4,2
Total	71	100,0

8. What do you know about Khaidarkan mercury integrated works?

	Number of respondents	%
Produces mercury	59	83,1
Production of mercury and silver	3	4,2
Production of mercury, silver and antimony	4	5,6
Located in our village	5	7,0
Total	71	100,0

9. What source of information?

	Number of respondents	%
No answer	2	2,8
Relatives	37	52,1
Neighbors	18	25,4
Friends	10	14,1
Everybody knows	4	5,6
Total	71	100,0

10. Are you/they satisfied with the working conditions at Khaidarkan integrated works?

	Number of respondents	%
No	15	21,1
Yes	8	11,3
No answer	48	67,6
Total	71	100,0

11. Are you/they satisfied with the salary?

	Number of respondents	%
No	23	32,4
Yes	1	1,4
No answer	47	66,2
Total	71	100,0

12. Does KHAIDARKAN MERCURY PLANT make any benefit?

	Number of respondents	%
No	2	2,8
Yes	67	94,4
No answer	2	2,8
Total	71	100,0

If "yes", please specify what?

	Number of respondents	%
No answer	8	11,3
Working positions, water	16	22,5
Working positions	20	28,2
Water	5	7,0
Working positions and state budget	12	16,9
Stable wages	1	1,4
Do not bring personal benefit*	9	12,7
Total	71	100,0

The majority of respondents replied that the plant does not bring personal benefits except items mentioned above. Nine people mentioned of a personal benefit, so I placed them to a special line. And as you can note, the majority of respondents answered that KHMIW provides the working places (Note).

13. Does KHAIDARKAN MERCURY PLANT make harm?

	Number of respondents	%
No	2	2,8
Yes	60	84,5
No answer	9	12,7
Total	71	100,0

If "yes", please specify what?

	Number of respondents	%
No answer	20	28,2
Harm to ecology, health	13	18,3
Harm to ecology	24	33,8

Harm to health	14	19,7
Total	71	100,0

14. Do you know what profit does KHAIDARKAN MERCURY PLANT make to our country?

	Number of respondents	%
No	56	78,9
Yes	5	7,0
No answer	10	14,1
Total	71	100,0

If "yes", please specify what?

	Number of respondents	%
No answer	71	100,0

15. Do you know about negative impact of mercury on a human health?

	Number of respondents	%
No	5	7,0
Yes	62	87,3
No answer	4	5,6
Total	71	100,0

If "yes", please specify what?*

	Number of respondents	%
No answer	26	36,6
Kidney , teeth	11	15,5
Tremor of hands	7	9,9
Kidney	6	8,5
Teeth decay	6	8,5
Metal accumulation in blood	3	4,2
Nervous system< kidney, teeth	6	8,5
Tremor of hands, kidney	2	2,8
Only for the plant employees	1	1,4
Harm to health	3	4,2
Total	71	100,0

* As you can see all respondents gave the same answer to this question, but nevertheless I presented it as separate answers.

16. Do you undertake any measures to protect yourself and your family members from Impact of mercury?

	Number of respondents	%
No	69	97,2
Yes	1	1,4
No answer	1	1,4
Total	71	100,0

If “yes”, please specify*.

	Number of respondents	%
No answer	70	98,6
Use diary products	1	1,4
Total	71	100,0

17. What will happen if KHAIDARKAN MERCURY PLANT closes?

Advantages:

	Number of respondents	%
No answer	15	21,1
Health	16	22,5
No environmental pollution	23	32,4
Health+ecology	13	18,3
None advantages	4	5,6
Total	71	100,0

Negative sides:

	Number of respondents	%
No answer	14	19,7
Working positions	37	52,1
Working positions, water	7	9,9
Water	1	1,4
Working positions + taxes	5	7,0
Working positions, water, gas	7	9,9
Total	71	100,0

18. In your opinion, what activities should be taken in this case?

	Number of respondents	%
No answer	19	26,8

Social –economic investigation of primary mercury production impact on the environment in the Kyrgyz Republic

Vegetable processing plant	17	23,9
Do not close the Plant	28	39,4
To open a brick and cement manufacturing plant	7	9,9
Total	71	100,0