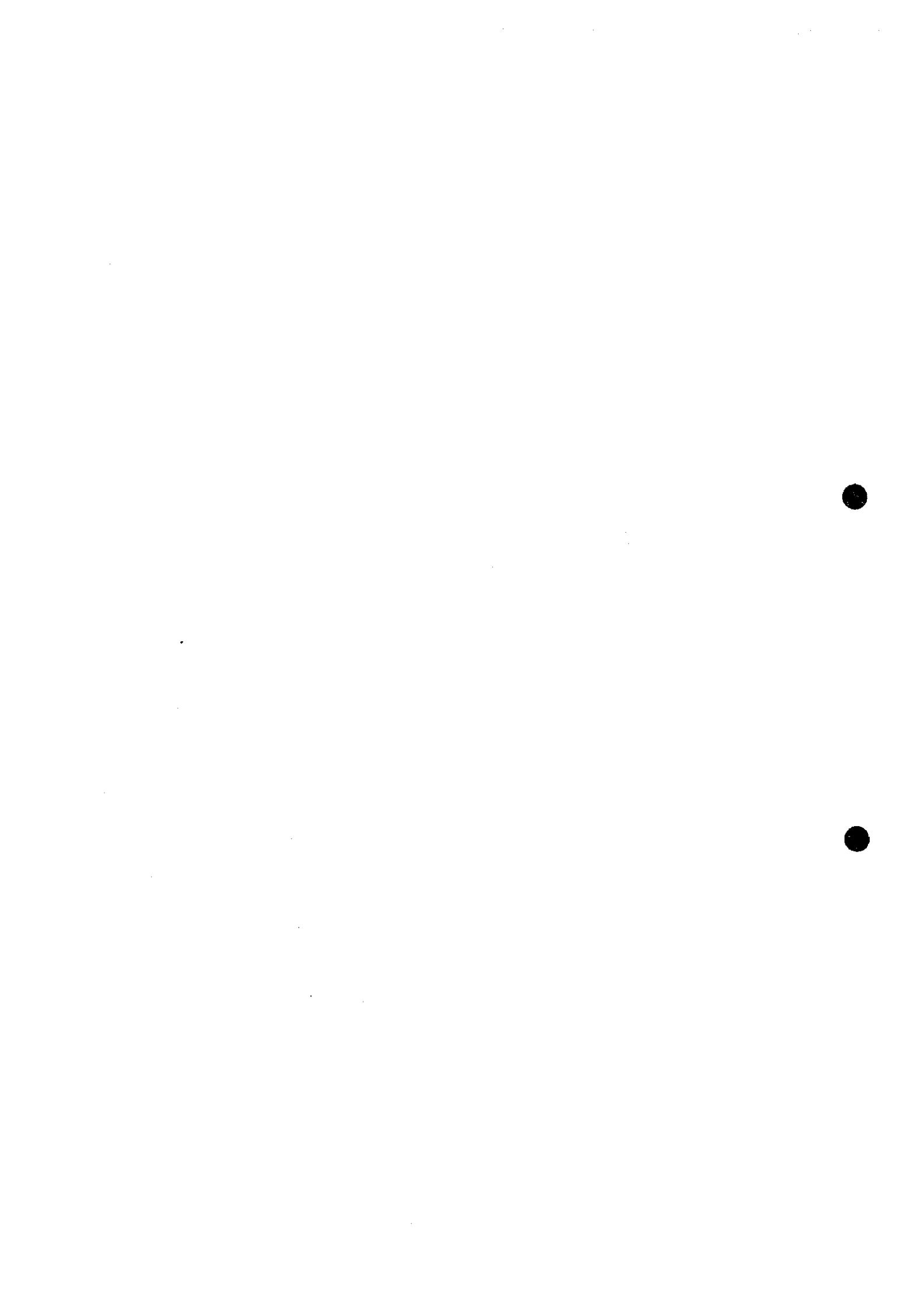


Appendix-5: Statistical Basic Data



STATISTICAL APPENDIX

BASIC DATA

1. MACROECONOMIC AND PRIVATIZATION STATISTICS

Table 1.1	Consolidated State Budget, 1993-95
Table 1.2	Consolidated Balance of Payments
Table 1.3	Prices, Interest Rates and Exchange Rates, 1994-97
Table 1.4	Employment by Sector, 1990-96
Table 1.5	Privatized Enterprises by Sector, 1996-97
Table 1.6	Distribution of Enterprises by Sector, July 1997

2. AGRICULTURAL STATISTICS

Table 2.1	Total Land Area and Distribution of Agricultural Land by User, January, 1997
Table 2.2	Cultivation of Selected Products, 1996-97
Table 2.3	Capital Investment in Agriculture, 1990-96
Table 2.4	Output of Processed Agricultural Products, 1994-95

3. MINING STATISTICS

Table 3.1	Production of Non-Ferrous Metals, 1994-96
Table 3.2	Output of Selected Ferrous Metal Products, 1990-96
Table 3.3	Extraction of Selected Commercial Ores, 1990-96
Table 3.4	Production of Metallurgical Products, 1994-96

4. INDUSTRY STATISTICS

Table 4.1	Output of Major Industrial Products, 1996-97
Table 4.2	Output of Major Products of Forestry, Woodworking and Pulp and Paper Industries, 1990-96
Table 4.3	Production by Technology-Intensive Industries, 1990-96
Table 4.4	Production by Light Industries, 1990-96

5. MACHINERY STATISTICS

Table 5.1	Production of Individual Machinery Products, 1996-97
Table 5.2	Stocks of Tractors and Other Agricultural Machines, January 1997
Table 5.3	Volume of Machinery Production by Region, 1994-95
Table 5.4	Value of Machinery Production by Region, 1994-95

6. TRANSPORT STATISTICS

- Table 6.1 Transportation of Freight, 1996-97
- Table 6.2 Volume of Cargo Shipment by Transportation Mode, 1985-95
- Table 6.3 Railway Transport of Selected Cargo, 1990-96

7. INTERNATIONAL TRADE

- Table 7.1 Kazakhstan Trade in Major Product Categories, 1995
- Table 7.2 Export-Based Ranking of Kazakhstan's Machinery Products, 1997
(Quarters I - III)
- Table 7.3 World Exports of Agricultural Machinery, Excluding Tractors (SITC,
Rev.3 = 721), 1992-96
- Table 7.4 World Imports of Agricultural Machinery, Excluding Tractors (SITC,
Rev.3 = 721), 1992-96
- Table 7.5 World Exports of Tractors (SITC, Rev.3 = 722), 1992-96
- Table 7.6 World Imports of Tractors (SITC, Rev.3 = 722), 1992-96
- Table 7.7 Kazakhstan Import Duties on Machinery, 1997

8. ODA PROJECT

- Table 8.1 ODA Projects Related to the Development of the Machinery Industry
in Kazakhstan

9. APPLICATION OF VAT RATE

- Table 9.1 Application of VAT Rate (%) in the Selected Countries

Appendix Table 1.1
Consolidated State Budget, 1993-95
(millions of tenge)

Budget Items	1993	1994	1995
Total Revenue	7,103	84,239	197,202
A. Current Revenue	6,319	82,772	185,013
A.1 Tax Revenue	3,345	36,936	108,415
Value added tax	1,159	10,798	33,259
Excise tax	160	2,181	6,308
Corporate tax	1,249	14,550	35,270
Personal tax	743	8,259	25,802
Local tax	13	551	3,421
Capital gains tax	2	106	401
Land tax	18	225	2,059
Other taxes	1	269	1,896
A.2 Revenue from foreign economic activities	139	6,075	22,588
Customs levies	22	376	600
Import customs duties	32	422	3,023
Export customs duties	77	5,264	9,145
Barter operations	4	12	296
Other revenue from foreign economic activity	3	0.7	9,525
A.3 Other Current Revenue	2,836	39,761	58,966
Rent payment	44	201	1,033
Revenue from bonuses and royalties	--	3	3,802
Profit of NBK	343	8,303	800
Revenue from NBK	--	8,414	2,826
Purpose-oriented funds revenue	984	12,821	21,107
Fees and other non-tax revenues	842	7,668	17,845
Other current revenue	623	2,351	11,554
B. Capital Revenue	784	1,467	7,233
Revenue from privatization	784	1,467	7,233
Total expenditure	7,488	94,809	223,443
A. National Economy	1,881	11,328	37,957
B. SocioCultural and Scientific projects	2,460	28,594	92,406
Education and Science	1,310	14,417	47,697
Social Security	268	3,194	7,837
Health, Tourism, and Sport	687	9,282	29,954
C. Foreign Economic Activity	5	3,345	5,558
D. Funds	82	3,782	7,901
E. Defense	331	3,776	10,830
F. Public Order and Safety	413	5,387	15,800
G. State Authorities and Administration	388	4,240	9,982
H. Repayment of Internal Government Debt	98	17,518	7,802
I. Repayment of External Debt	--	1918	10,024
J. Subsidies	--	583	1,193
L. Other expenditures	--	14,338	16,348
Debt repayment to budget	--	2,407	3,173
Overall balance	-385	-8,162	-23,067
Budget Financing	385	8,162	23,067
A. Domestic	868	5,900	4,485
B. External	177	6,378	18,583

Source: Ministry of Finance.

Appendix Table 1.2
Consolidated Balance of Payments
million US dollars

	1995	1996	1997
A. CURRENT ACCOUNT	-518.3	-749.9	-908.7
Trade Balance	-222.4	-326.3	-385.4
Exports (fob)	5164.3	6291.7	6768.5
Imports (fob)	-5386.7	-6617.9	-7153.9
Services, net	-208.1	-253.7	-282.7
Transportation	64.5	55.8	44.0
Other	-272.6	-309.5	-326.7
Income net	-146.8	-219.5	-315.2
Interest on loans and credits	-101.4	-129.4	-169.1
Interest on reserves	34.9	46.2	49.3
Other	-80.3	-136.3	-195.3
Current transfers	59.0	49.6	74.6
B. CAPITAL & FINANCIAL ACCOUNT	779.7	1663.1	2378.8
Capital transfers	-380.6	-315.5	-439.7
Migrants' transfers	-380.6	-315.5	-439.7
Other	0.0	0.0	0.0
Direct investment	964.0	1136.9	1319.9
Drawings	984.0	1673.7	2105.6
Repayment	-20.1	-536.8	-785.7
Portfolio investment	7.2	223.5	404.2
Eurobonds	0.0	200.0	350.0
Other investment	503.2	275.0	444.9
Trade credits	132.2	-98.1	140.0
Drawings	265.0	143.3	313.4
Repayment (accrued)	-132.8	-241.5	-173.4
Loans	370.9	373.2	304.9
Drawings	352.3	351.9	321.8
Repayment (accrued)	18.6	21.2	-17.0
Other capital	-314.0	343.2	649.6
C. NET ERRORS & OMISSIONS	-105.9	-889.8	-990.5
D. OVERALL BALANCE	155.5	23.4	479.6
E. FINANCING	-155.5	-23.4	-479.6
Monetary gold	0.0	0.0	0.0
Net assets in foreign exchange (NBK)	-155.5	-23.4	-479.6
Foreign currency	-298.0	-158.5	-473.2
IMF credit	141.1	135.1	-6.4
Exceptional financing	1.4	0.0	0.0

Source: Economic Trends Monthly Update Kazakhstan May 1998

Appendix Table 1.3
Prices, Interest Rates and Exchange Rates, 1994-97

	(percent)			
	Inflation	Exchange Rate	Interest Rate	
			Nominal	Real
Jan-94	42.6	9.3		
Feb-94	24.2	11.6		
Mar-94	17.4	17.0		
Apr-94	31.8	25.4		
May-94	33.8	35.7		
Jun-94	45.9	41.7		
Jul-94	25.4	44.7		
Aug-94	13.3	45.7		
Sep-94	9.7	47.0		
Oct-94	20.1	48.6		
Nov-94	14.2	51.0		
Dec-94	10.2	53.5		
Jan-95	8.9	55.4	176	3.4
Feb-95	6.7	58.7	158	16.0
Mar-95	5.1	60.5	129	27.7
Apr-95	3.2	61.3	106	33.8
May-95	2.7	63.1	86	34.6
Jun-95	2.3	63.5	69	23.7
Jul-95	2.9	62.6	55	16.2
Aug-95	2.1	56.7	55	15.7
Sep-95	2.4	59.9	45	3.3
Oct-95	4.1	61.5	45	-5.5
Nov-95	4.4	63.4	53	-5.1
Dec-95	3.6	64.0	53	-5.1
Jan-96	4.1	64.6	59	6.5
Feb-96	2.5	65.4	50	8.2
Mar-96	1.7	65.1	44	8.8
Apr-96	2.9	65.9	40	7.8
May-96	2	66.8	40	4.5
Jun-96	2.5	67.0	36	6.0
Jul-96	1.8	67.4	32	8.3
Aug-96	0.7	67.7	32	14.0
Sep-96	1.2	70.0	32	9.2
Oct-96	2.9	70.0	35	4.4
Nov-96	2.4	71.1	35	6.1
Dec-96	0.8	73.4	35	9.4
Jan-97	2.1	75.5	35	12.5
Feb-97	1.7	75.6	35	12.5
Mar-97	0.8	75.0	35	18.4
Apr-97	0.8	75.0	35	24.7
May-97	0.4	75.5	30	20.0
Jun-97	0.8	75.5	24	16.0

Source: Ministry of Finance.

Table 1.4
Employment by Sector, 1990-96
(Thousands of Persons)

	1990	1993	1994	1995	1996
<i>Total</i>	6476	5630	5415	4994	4380
Industry	1360	1195	1121	1025	916
Agriculture	1202	1108	1196	1062	883
Forestry	13	13	11	10	9
Construction	745	492	391	325	251
Transport, of which:	610	497	463	418	378
▪ Railway	182	167	176	171	169
▪ Maritime	4	4	4	4	4
▪ Road	424	326	283	243	154
Communications	89	79	82	80	77

Source: National Statistical Agency.

Appendix Table 1.5
Privatized Enterprises by Sector, 1996-97
(percent)

	1996		1997
	Jan-Jun	Jul-Dec	Jan-Jun
Total	100	100	100
Industry	8.9	12.8	9.7
Construction	0.8	1.5	2.4
Agriculture	5.3	1.3	0.5
Transport	1.4	3.7	4.1
Trade and public catering	41	33.6	26.2
Consumer service and commercial services	6.1	7.7	10.2
Other sectors	36.5	39.4	46.9

Source: National Statistical Agency.

Appendix Table 1.6
Distribution of Enterprises by Sector, July 1997
(number)

	Total	State	Private	Joint without Foreign Participation	Joint with Foreign Participation	Foreign
TOTAL	182,163	25,607	149,049	3,664	2,121	1,722
Small	160,428	13,820	141,037	1,946	1,958	1,667
Medium	20,848	11,235	7,772	1,635	155	51
Large	598	361	169	58	7	3
Very large	289	191	71	25	1	1
Industry	19,720	1,452	16,433	929	658	248
Small	18,123	1,048	15,742	504	593	236
Medium	1,518	386	671	390	61	10
Large	49	12	14	19	3	1
Very large	30	6	6	16	1	1
Agriculture	53,424	49,834	3,217	314	45	14
Small	49,649	49,491	102	42	14	na
Medium	3,578	331	3,037	207	3	na
Large	79	8	67	4	na	na
Very large	16	4	11	1	na	na
Unspecified	102	-	-	60	28	14
Forestry	313	178	129	3	2	1
Small	216	85	126	2	2	1
Medium	97	93	3	1	na	na
Large	na	na	na	na	na	na
Very large	na	na	na	na	na	na
Transport	3,242	918	1,896	316	55	57
Small	2,114	338	1,609	71	51	45
Medium	1,068	532	283	239	4	10
Large	38	29	1	6	na	2
Very large	22	19	3	na	na	na
Communications	843	522	270	18	30	3
Small	497	187	268	13	26	3
Medium	324	315	2	3	4	na
Large	13	11	na	2	na	na
Very large	9	9	na	na	na	na

(cont'd)

Appendix Table 1.6 (cont'd)						
Distribution of Enterprises by Sector, July 1997						
(number)						
	Total	State	Private	Joint without Foreign Participation	Joint with Foreign Participation	Foreign
Commercial Establishments	28,022	989	25,275	394	622	742
Small	26,314	643	24,129	227	587	728
Medium	1,660	337	1,119	157	33	14
Large	40	6	24	8	2	na
Very large	8	3	3	2	na	na
Banking	1,060	336	599	92	25	8
Small	801	199	530	51	13	8
Medium	251	131	68	40	12	na
Large	7	5	1	1	na	na
Very large	1	1	na	na	na	na
Insurance	457	176	248	27	5	1
Small	411	144	240	22	5	na
Medium	46	32	8	5	na	1
Large	na	na	na	na	na	na
Very large	na	na	na	na	na	na

Source: National Statistical Agency.

Appendix Table 2.1					
Total Land Area and Distribution of Agricultural Land by User, January, 1997					
('000 hectares)					
	Total Land Area	Agricultural Land	Total Arable Land	Hay Fields	Pasture
Total land	272,4	222,58	29,22	5,0	184,314
	90	5	2	37	
State farms and other agricultural enterprises	11,0	9,87	1,45	1	8,088
	17	6	2	56	
Individuals engaged in individual farm and collective gardening	4	39	27		48
	51	1	0	5	
Peasant farms	20,0	19,48	2,23	4	16,230
	32	5	8	83	
Farm cooperatives	56,7	49,56	8,12	1,0	39,482
	55	7	6	13	
Partnerships and joint-stock companies	39,3	33,89	5,20	7	27,265
	09	3	6	69	
Other non-state agricultural Organizations and agencies	53,5	48,38	11,44	1,5	34,167
	88	0	0	29	
Forestry Fund	11,7	2,47	2	2	2,184
	95	6	9	50	
Stock land	41,3	32,43	18	4	31,503
	30	4	4	35	

Source: National Statistical Agency.

	<u>1996</u>	<u>1997</u>	<u>Percent change</u> <u>1996-97</u>
Total area	25,476	21,676	-14.9
Wheat	12,246	11,437	-6.6
Sugar beet	32	14	-56.3
Cotton	105	114	8.6
Sunflower	331	221	-33.2
Potato	190	171	-10.0
Vegetables	78	80	2.6
Fodder crops	7,430	5,391	-27.4
Other	5,064	4,248	-16.1

Source: National Statistical Agency.

<u>Year</u>	<u>Total</u>	<u>State Enterprises</u>	<u>Non-State Enterprises</u>
1990	2,934	2,731	203
1993	1,038	859	179
1994	4,785	2,771	2,014
1995	5,371	2,267	3,104
1996	3,921	1,204	2,717

Source: National Statistical Agency.

Appendix Table 2.4
Output of Processed Agricultural Products, 1994-95
(volume)

	<u>Unit</u>	<u>1994</u>	<u>1995</u>	<u>% Change</u> <u>1994-95</u>
Cotton fiber	tons	72,191	68,968	-4.5
Steel wool	tons	19,242	7,902	-58.9
Fishing and sea hunting	tons	49,174	44,633	-9.2
Fish products except canned fish	tons	39,340	32,886	-16.4
Meat including by-products	tons	38,340	32,886	-14.2
Sausage products	tons	55,257	34,820	-37.0
Animal fat, edible	tons	6,134	2,983	-51.4
Half-finished meat products	tons	8,325	3,094	-62.8
Animal oil	tons	46,498	30,433	-34.5
Cheese and sheep cheese	tons	18,323	11,618	-36.6
Whole milk products	tons	552,142	278,809	-49.5
Powdered whole milk and powdered cream	tons	4,884	3,557	-27.2
Ice cream	tons	8,996	4,667	-48.1
Canned food	'000 cans	177,116	81,041	-54.2
Dried vegetables	tons	605	18	-97.0
Dried fruits	tons	63	115	82.5
Granulated sugar	tons	97,187	112,516	15.8
Lump sugar	tons	13,589	15,986	17.6
Bread and baked goods	tons	1,507,711	852,751	-43.4
Bakery yeast	tons	9,330	4,368	-53.2
Confectionery	tons	77,455	29,281	-62.2
Macaroni products	tons	122,669	78,792	-35.8
Vegetable oil	tons	44,513	43,455	-2.4

Source: National Statistical Agency.

Appendix Table 3.1
Production of Non-Ferrous Metals, 1994-96
(volume)

	<u>Unit</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>Per cent change 1996-1995</u>
Alumina	tons	822,297,000	1,024,494,000	1083740	105.8
Copper ore	tons	25,276,400	21,592,100	22025.6	102.0
Lead and zinc ore	tons	4,960,000	5,678,000	4768.1	84.0
Bauxite	tons	2,584,000	3,318,500	3345.9	100.8
Magnesium and magnesium alloys	tons	2,967	8,972	13431	149.7
Lead including secondary lead	tons	137,678	88,541	67259	76.0
Titanium sponge	tons	3,809	9,592	12459	129.9
Refined copper	tons	278,461	255,559	267144	104.5
Zinc	tons	172,531	169,171	170081	100.5
Niobium metal as beads and ingots	kg	41,717	17,861	na	na
Barite ore	tons	18,000	na	na	na
Barite concentrate	tons	90,236	82,997	94124	113.4
Tungsten concentrate	tons	154	314	96	30.6
Copper concentrate	tons	724,800	685,900	250195	107.6
Molibdenum concentrate	tons	218	156	44	28.2
Lead concentrate	tons	63,800	48,500	28973	94.9
Zinc concentrate	tons	273,600	323,000	159355	98.1
Bismuth metal	kg	84,494	32,900	na	na
Cadmium metal	tons	1,097	794	na	na
Tin	tons	14	4	na	na
Refined gold as ingots	kg	10,444	10,921	na	na
Refined silver	kg	408,359	370,993	na	na
Rolled bronze products	tons	811	455	na	na
Rolled brass products	tons	3,523	2,497	na	na
Rolled copper products	tons	2,085	2,008	na	na
Rolled copper-nickel products	tons	53	92	na	na
Rolled lead products	tons	1,888	1,654	na	na

Source: National Statistical Agency.

Table 3.2
Output of Selected Ferrous Metal Products, 1990-96

		1990	1993	1994	1995	1996
Production of Steel	thou. tons	6754	4558	2969	3027	3217
Mining of Iron Ore	thou. tons	23846	13129	10521	14902	129775
Production of Rolled Ferrous Metal	thou. tons	4955	3489	2357	2153	2288
Cast Iron	thou. tons	5226	3552	2435	2530	2536
Production of Coated Metal Sheet	tons	312988	177800	125184	222031	125465
Ferrous alloys, of which		1328.6	908.5	649.4	809.1	606.6
▪ Ferrosilicium, 45%	thou. tons	689.9	418.2	208.2	255.4	118.1
▪ Ferrochrome, 60%	thou. tons	485.3	425.9	373.3	511.6	345.9
▪ Ferrosilica Chrome, 40%	thou. tons	147.8	60.8	26.9	21.3	69.8

Source: National Statistical Agency.

Table 3.3
Extraction of Selected Commercial Ores, 1990-96
(Thousands of Tons)

	1990	1993	1994	1995	1996
Iron Ore	23,846	13,129	10,521	14,902	12,975
Manganese Ore	169	89	295	284	469
Chromite Ore	3,660	2,968	2,103	2,417	1,103

Source: National Statistical Agency.

Appendix Table 3.4
Production of Metallurgical Products, 1994-96
 (thousands of tons)

	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>% Change</u> <u>1996-95</u>
Iron ore	10,521	14,902	12975.1	87.1
Manganese ore	295	284	468.9	164.9
Chromite ore	2,103	2,417	1102.5	45.6
Sinter cake	4,504	4,080	3675.3	90.1
Iron ore pellets	4,822	7,212	5464.6	75.8
Cast iron	2,435	2,530	2535.5	100.2
<i>of which:</i>				
Pig iron	163	68	na	na
Foundry pig iron	53	16	na	na
Steel	2,969	3,027	na	na
<i>of which:</i>				
Open-hearth steel	735	376	na	na
Oxygen converter steel	2,110	2,581	na	na
Electrical steel	123	71	na	na
Ready casting obtained from continuous casting machines	19	4	na	na
<i>of which:</i>				
Carbon steel	2,736	2,917	na	na
Low-alloyed steel	27	15	na	na
Rolled ferrous metal products	2,357	2,153	2287.9	106.3
Sheets and plates	2,027	1,927	na	na
Strips	231	78	na	na
Steel pipes	15,722	13,316	5381	40.4
Coated sheets and plates	125	222	na	na
<i>of which:</i>				
Tin-plate	125	222	na	na
Ferroalloys	649	809	na	na
Ferrosilicium	207	255	na	na
Ferrochrome	326	494	na	na
Ferrochrome silicon	27	21	na	na
Coke, 6% moisture	1,747	1,811	1727.0	95.4
Refractory materials	12	14	20.6	151.6

Source: National Statistical Agency.

	Unit	1996	1997					
		Jan-Dec	Jan	Feb	Mar	Apr	May	Jun
Electric power	mill.kW/h	59,048	5,665	4,966	5,195	4,435	4,006	3,530
Thermal energy	Thou.Gcal	76,577	8,659	8,772	7,634	4,747	2,711	4,949
Coal	Thou. tons	76,831	6,679	6,918	7,651	5,740	3,907	4,949
Crude oil	Thou. tons	21,050	1,903	1,725	1,965	1,960	2,053	2,013
Primary oil refining	Thou. tons	11,127	743	653	745	710	998	756
Petrol	Thou. tons	2,296	107	123	117	202	126	149
Kerosene	Thou. tons	268	11	9	16	12	25	11
Diesel fuel	Thou. tons	3,295	166	185	208	252	310	225
Furnace fuel oil	Thou. tons	3,858	344	294	265	230	225	
Natural gas	mill.cub.m	6,524	683	614	679	655	496	791
Iron ore	Thou. tons	12,975	953	1,016	755	1,169	1,151	1,289
Chromite ore	Thou. tons	1,103	104	115	127	151	164	202
Iron ore pellets	Thou. tons	5,465	382	370	261	576	599	585
Cast iron	Thou. tons	2,536	240	227	256	267	272	239
Steel	Thou. tons	3,217	297	285	329	337	342	300
Rolled ferrous metals	Thou. tons	2,247	196	231	265	250	268	253
Tin plate	Thou. tons	na	6	8	9	13	12	13
Ferroalloys	Thou. tons	607	60	47	66	69	76	72
Coke, 6% moisture	Thou. tons	1,727	182	170	193	190	182	164
Refined gold	kg	10,300	351	452	641	773	891	1,152
Refined silver	ton	414	28	34	30	30	37	33
Boxite	thou. tons	3,346	182	277	252	243	292	332
Copper in concentrate	thou. tons	62	23	22	24	27	27	24
Alumina	thou. tons	1,080	92	86	95	89	92	89
Refined copper	thou. tons	267	20	19	24	26	27	26
Refined lead	thou. tons	62	3	3	8	8	8	6
Zinc	thou. tons	152	14	14	15	15	16	16
Lead storage batteries	thou.units	383	na	20	38	30	11	na
Metal cutting machine tools	units	114	na	na	na	na	na	na
Press-forging machines	units	127	8	na	2	na	1	19
Automobiles	units	32	1	1	na	3	7	10
Bulldozers	units	247	42	13	13	20	na	na
Excavators	units	11	2	2	4	2	3	4
Tractors	units	2,465	157	358	187	350	250	na
Calcium carbide	thou. tons	67	2	1	2	4	3	2
Chromium oxide	thou. tons	9	1	1	1	1	1	1
Yellow phosphorus	thou. tons	36	2	1	2	4	3	3
Sodium tripolyphosphate	thou. tons	21	na	na	4	1	3	2
Mineral fertilizers	thou. tons	191	20	21	25	19	19	18
Tires	thou.units	107	na	na	na	0	na	na
Removal of logs	thou.cub.m	663	25	39	40	29	37	70
Merchantable wood	thou.cub.m	350	14	19	22	17	17	29
Lumber	thou.cub.m	247	11	14	14	16	11	18
Fiber boards	thou.sq.m	3,864	240	230	281	300	272	230

Source: National Statistical Agency.

Table 4.2
Output of Major Products of Forestry, Woodworking and Pulp and Paper
Industries, 1990-96
 (thousands of cubic meters)

	1990	1993	1994	1995	1996
Removal of wood	2,337	1,170	979	883	815
<i>of which:</i>					
Commercial wood	1,764	828	533	445	350
Lumber	1,764	774	398	371	247
Fiber board	8,643	8,439	1,651	2,620	3,864
Wood particle board	112	33	12	2	0.1
Wooden bonded construction	15			1.0	
Cellulose	45	4	1	0.6	0.2
Paper	2	2	1	0.2	0.1
Board	156	43	16	8	7

Source: National Statistical Agency.

Appendix Table 4.3
Production by Technology-Intensive Industries, 1990-96

	V Units	1990	1993	1994	1995	1996
Oxygen converter steel	'000 tons	4,699	3,267	2,110	2,581	2,534
Electrical steel	'000 tons	522	261	123	71	83
Rolled products from low-alloyed steel	'000 tons	303	220	128	68	69
Sheets and plates	'000 tons	313	178	125	222	125
Cold rolled steel strip	'000 tons	51	26	14	14	7
Synthetic resins and plastic, of which						
- polypropylene	tons	30,262	9,770	15,770	10,718	3,748
- polystyrene and styrene	tons	175,668	67,133	37,175	45,575	301,44
copolymers						
Synthetic fibres and threads	tons	12,081	1,905	750	3	88
Pipes and pipeline parts from thermoplastic material	tons	3,775	1,112	117	70	75
Wood particle boards	'000 m2	122	33	14	2	0.1
Fiber boards	'000 m2	8,643	8,439	1,651	2,620	3,864
Cement from clinker	'000 tons	2,020	843	447	285	na
Asbestos cement pipes and couplings	'000 m	7,965	1,671	516	338	320

Source: National Statistical Agency.

Appendix Table 4.4						
Production by Light Industries, 1990-96						
	<u>Units</u>	<u>1990</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>
Cotton fiber	thous. tons	99	75	72	69	80
Scoured wool	thous. tons	75	37	19	8	6
Cotton yarn	thous. tons	40	35	20	4	3
Wool yarn	thous. tons	21	13	6	2	2
Hoslery	mil. pairs	88	72	41	12	6
Knitted goods	mil. units	127	50	29	9	3
Carpets	mil. m3	2	1	1	0	0
Chrome-tanned leather goods	mil. m2	414	208	59	10	11
Russian leather goods	mil. m2	92	32	8	5	3
Hard leather goods	mil. m2	118	36	5	4	2
Sewn goods	mil. tenge	2,653	4,897	3,039	2,799	2,321
Source: National Statistical Agency.						

Appendix Table 5.1
Production of Individual Machinery Products, 1996-97
(volume and value)

	Unit	1996 Jan-Dec	1997					
			Jan	Feb	Mar	Apr	May	Jun
Low-capacity electric motors for domestic appliances	units	14,508	na	1,060	1,106	1,500	900	1,300
Power transformers	thou.kVa	208	23	14	14	20	0	7
Power capacitors	thou.kVa	371	23	27	31	na	na	3
Storage batteries, lead, for automobiles	units	382,977	19,924	38,436	29,657	10,807	na	na
Power cables for voltage up to 1 sq.km		1,369	na	7	532	47	24	40
Metal cutting machines	units	114	na	na	na	na	na	na
Press-forging machines	units	127	8	na	2	na	1	19
Machining tool	thou.tenge	64,546	6,201	6,372	4,500	4,997	10,216	9,969
Instruments and their spare parts	thou.tenge	179,062	14,028	5,067	11,398	13,962	19,972	27,175
Rolling equipment	thou.tenge	688,604	54,251	61,482	66,340	62,049	58,028	44,385
Loading machines for mines	units	6	na	na	na	na	na	na
Centrifugal pumps	units	3,012	na	19	na	2	na	70
Polymer processing equipment and spare parts	thou.tenge	15,538	166	149	197	378	132	129
Light industry production equipment and spare parts	thou.tenge	15,188	200	755	4,374	2,392	2,724	na
Electrical traveling cranes	units	23	1	4	na	na	na	2
Traveling gantry cranes	units	3	na	1	na	na	na	na
Excavators	units	11	2	2	4	2	3	4
Bulldozers	units	247	43	42	13	20	na	na
Automobiles	units	32	1	1	na	3	7	10
of which trucks		21	na	na	na	1	7	na
Trailers and semi-trailers, automobile		92	na	na	9	5	20	na
Tractor trailers	units	451	na	na	na	na	na	na
Automobiles with special bodies	units	4	na	3	na	1	na	na
Tractors	units	2,465	157	358	187	350	250	na
Machines for cultivation and harvesting	thou.tenge	257,666	23,569	8,840	10,234	21,245	24,188	28,119
Tractor plows	units	339	na	70	na	40	27	na
Disc harrows	units	175	na	na	30	20	10	10
Tractor drills	units	190	81	na	na	na	60	38
Tractor cultivators	units	163	36	na	na	1	na	10
Windrow harvesters	units	7	na	na	3	na	25	15
Plant growing and feed processing machines	thou.tenge	80,323	7,201	7,731	7,226	7,652	15,390	na
Tractor mowers	units	974	123	133	115	120	150	140
Rolling bearings	thou.units	707	25	41	50	22	41	23
Fittings, valves, locks, bolts, gates	thou.units	437	10	13	21	11	24	42
Fire extinguishers	thou.units	24	na	10	na	na	2	na

Source: National Statistical Agency.

Appendix Table 5.2	
Stocks of Tractors and Other Agricultural Machines as of January 1997	
(units)	
Total, excluding tractors with attachments	142,383
Tractors with attachments	11,064
Harvester	24,112
Tractor plows	31,557
Cultivators	28,990
Grain drills	54,004
Corn seeding machines	6,341
Grain combine harvester	53,918
<i>of which:</i>	
DON-1500	1,070
Maize combine harvester	1,185
Potato harvester	681
Source: National Statistical Agency.	

Appendix Table 5.3			
Volume of Machinery Production by Region, 1994-95			
(units)			
	<u>1994</u>	<u>1995</u>	<u>% Change</u> <u>1994-95</u>
Metal-Cutting Machine Tools	<u>429</u>	<u>57</u>	<u>-86.7</u>
Akmola oblast	-	-	-
City of Almaty	265	42	-84.2
West Kazakhstan	5	-	-
North Kazakhstan	-	8	-
South Kazakhstan	150	-	-
Other	9	7	-22.2
Press-Forging Machines	<u>434</u>	<u>269</u>	<u>-38.0</u>
East Kazakhstan	1	-	-
South Kazakhstan	433	269	-37.9
Lead Storage Batteries for Automobiles	<u>665,989</u>	<u>470,210</u>	<u>-29.4</u>
Almaty oblast	73	-	-
East Kazakhstan	-	12	-
Taldykorgan	665,916	470,198	-29.4
Seeders	<u>943</u>	<u>349</u>	<u>-63.0</u>
Akmola oblast	943	349	-63.0
Cultivators	<u>1,125</u>	<u>82</u>	<u>-92.7</u>
Akmola oblast	1,125	82	-92.7
Tractor plows	<u>3,012</u>	<u>283</u>	<u>-90.6</u>
Akmola oblast	3,012	283	-90.6
Tractor mowers	<u>4,996</u>	<u>2,030</u>	<u>-59.4</u>
Akmola oblast	4,995	2,030	-59.4
Karaganda oblast	1	-	-

Source: National Statistical Agency.

Appendix 5.4			
Value of Machinery Production by Region, 1994-95			
(thousands of tenge)			
	<u>1994</u>	<u>1995</u>	<u>% change</u> <u>1994-95</u>
Agricultural Machinery	<u>435,832</u>	<u>299,021</u>	<u>-31.4</u>
Akmola oblast	348,849	225,038	-35.5
City of Almaty	3,324	965	-71.0
East Kazakhstan	4,068	93	-97.7
Zhambyl	275	3,467	1160.7
Zhezkazgan	-	-	-
West Kazakhstan	462	-	-
Karaganda	2,070	17,325	737.0
Kyzylorda	9,070	7,443	-17.9
Kokshetau	2,765	14,440	422.2
Kostanai	27,490	2,635	-90.4
Pavlodar	2,544	1,408	-44.7
North Kazakhstan	2,865	11,383	297.3
Taldykorgan	-	-	-
South Kazakhstan	32,050	14,824	-53.7
Animal Breeding and Feed Processing Machinery	<u>156,648</u>	<u>154,332</u>	<u>-1.5</u>
Akmola oblast	72,706	115,663	59.1
Akt'yube	53,374	3,955	-92.6
Almaty oblast	-	-	-
East Kazakhstan	734	143	-80.5
Zhambyl	-	-	-
West Kazakhstan	8,742	-	-
Karaganda	99	1,297	1210.1
Kokshetau	7,634	500	-93.5
Kostanai	-	-	-
Pavlodar	6,145	672	-89.1
North Kazakhstan	3,101	5,110	64.8
Semipalatinsk	13	-	-
Taldykorgan	-	1,492	-
Torgai	-	-	-
South Kazakhstan	4,100	25,500	522.0

(cont'd)

Appendix Table 5.4 (cont'd)
Value of Machinery Production by Region, 1994-95
 (thousands of tenge)

	<u>1994</u>	<u>1995</u>	<u>% Change</u> <u>1994-95</u>
Spare Parts for Automobile	190,760	200,330	5.0
Akmola	26,278	43,359	65.0
Aktyube	554	1,800	224.9
East Kazakhstan	5,377	3,986	-25.9
Karaganda	11,275	15,205	34.9
Kokshetau	1,057	308	-70.9
Kostanai	10,884	4,861	-55.3
Pavlodar	2,524	2,779	10.1
North Kazakhstan	-	45	-
Taldykorgan	11,567	20,211	74.7
West Kazakhstan	1,376	956	-30.5
South Kazakhstan	29,300	26,850	-8.4
City of Almaty	82,965	76,591	-7.7
Semipalatinsk	7,603	3,379	-55.6
Spare Parts for Agricultural Machines	250,498	546,596	118.2
Akmola	136,591	305,203	123.4
Aktyube	14,680	27,083	84.5
Almaty	81	-	-
East Kazakhstan	785	1,975	151.6
Zhambyl	186	17,090	9088.2
West Kazakhstan	6,788	6,255	-7.9
Karaganda	6,898	45,830	564.4
Kyzylorda	3,124	2,870	-8.1
Kokshetau	56,280	56,291	-
Kostanai	5,220	60,275	1054.7
Pavlodar	16,071	14,208	-11.6
North Kazakhstan	-	9,204	-
South Kazakhstan	3,794	312	-91.8
Spare Parts for Tractors	287,092	406,460	41.6
Akmola	12,337	26,457	114.5
Aktyube	2,331	6,102	161.8
Almaty	-	-	-
City of Almaty	64,846	204,044	214.7
Zhambyl	6,744	1,074	-84.1
Kostanai	29,186	12,493	-57.2
Pavlodar	123,257	115,729	-6.1
West Kazakhstan	42,878	16,913	-60.6

(cont'd)

Appendix Table 5.4 (cont'd)			
Value of Machinery Production by Region, 1994-95			
(thousands of tenge)			
	1994	1995	Percent change 1994-95
Spare Parts for Tractors (cont'd)			
South Kazakhstan	954	6,490	580.3
Karaganda	2,530	6,053	139.2
Kyzylorda	2,029	7,119	250.9
Taldykorgan	-	3,986	-
Spare Parts for Animal Breeding and Feed Processing	57,759	165,837	187.1
Machinery			
Akmola	40,587	102,697	153.0
Akt'yube	7,765	53,244	585.7
Almaty	556	1,154	107.6
City of Almaty	231	990	328.6
North Kazakhstan	8,620	7,752	-10.1
Instruments and Their Spare Parts	147,196	199,956	35.8
Akt'yube	49,482	49,357	-0.3
City of Almaty	21,501	35,222	63.8
East Kazakhstan	2,416	21,969	809.3
Kokshetau	63,262	48,512	-23.3
Kostanai	910	9,038	893.2
Karaganda	9,625	35,858	272.6
Source: National Statistical Agency.			

Appendix Table 6.1
Transportation of Freight, 1996-97

	<u>1996</u>	<u>Jan-Sep 1997</u>
Total volume of freight transportation (thousands of tons)	965,969	978,631
<i>of which:</i>		
Railway	104,941	102,451
Road	827,516	847,312
Pipeline	32,533	28,037
Maritime	960	820
Air	19	11
Total freight turnover (millions of tons per kilometer)	118,294	112,104
<i>of which:</i>		
Railway	84,183	79,518
Road	16,240	16,623
Pipeline	17,301	15,593
Maritime	462	296
Air	108	74

Source: National Statistical Agency.

Appendix Table 6.2
Volume of Cargo Shipment by Transportation Mode, 1985-95
(millions of tons)

	<u>1985</u>	<u>1990</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>
Total transport	2,448	2,612	1,649	1,189	1,155
Railway	337	345	221	175	161
Road, total	2,081	2,236	1,382	980	954
<i>of which:</i>					
General-purpose road transport	610	615	296	128	60
Other	1,471	1,621	1,086	851	894
Maritime	10	11	4	3	2
Air	0	0	0	0	0
Pipeline	21	21	42	32	38

Source: National Statistical Agency.

Appendix Table 6.3					
Railway Transport of Selected Cargo, 1990-96					
(million tons)					
	1990	1993	1994	1995	1996
Coal	123.6	103.3	97.6	79.5	71.4
Coke	0.4	0.2	0.1	0.1	0.1
Oil	26.3	14.8	11.4	11.5	12.7
Iron and manganese ore plus non-ferrous ore and sulphur raw materials	51.6	31.4	23.5	18.7	15.4
Ferrous metals	7.2	5.3	3.8	3.4	3.1
Chemical and mineral fertilizers	18.1	5.2	2.7	3.2	3.2
Cement	7	3.2	1.8	1.6	1
Forestry products	1.3	0.4	0.3	0.2	0.2
Grain and milling products	12.9	12.9	9	6.3	4.4

Source: National Statistical Agency.

Appendix Table 7.1
Kazakhstan Trade In Major Product Categories, 1995
(thousands of US dollars)

HS Chapter	Exports	Imports	Balance
Total All Products	4,975,491	3,742,102	1,233,389
1 Live animals	4,347	426	3,921
2 Meat and edible meat offal	59,595	7,550	52,045
3 Fish and crustaceans, molluscs etc	10,792	4,230	6,563
4 Dairy produce; birds' eggs; honey	21,698	16,343	5,356
5 Other products of animal origin	3,707	143	3,564
6 Live trees and other plants	16	59	(43)
7 Edible vegetables	13,567	3,391	10,175
8 Edible fruit and nuts	628	8,675	(8,047)
9 Coffee, tea, mate and spices	402	33,598	(33,196)
10 Cereals	331,796	2,264	329,532
11 Products of the milling industry	42,614	1,542	41,072
12 Oil seeds and oleaginous fruits	3,078	5,867	(2,789)
13 Lac; gums, resins and other vegs	428	610	(182)
14 Vegetable plaiting materials	15,177	7,102	8,074
15 Animal or vegetable fats and oils	2,834	20,767	(17,933)
16 Preparations of meat and fish	23,737	8,380	15,357
17 Sugars and sugar confectionery	4,793	125,136	(120,343)
18 Cocoa and cocoa preparations	445	14,270	(13,825)
19 Preparations of cereals, flour, milk	5,159	31,694	(26,535)
20 Preparations of vegetables and fruit	3,655	14,296	(10,641)
21 Miscellaneous edible preparations	787	12,176	(11,389)
22 Beverages, spirits and vinegar	7,403	43,940	(36,537)
23 Residues and waste from the	8,934	1,069	7,865
24 Tobacco and manufactured	4,895	39,230	(34,335)
25 Salt; sulphur; earths and stone	81,895	28,961	52,933
26 Ores, slag and ash	118,752	109,499	9,253
27 Mineral fuels, mineral oils and products	1,184,198	927,042	257,156
28 Inorganic chemicals	365,081	86,797	278,284
29 Organic chemicals	15,048	56,181	(41,133)
30 Pharmaceutical products	10,793	25,773	(14,981)
31 Fertilizers	46,372	4,063	42,309
32 Tanning or dyeing extracts	2,202	23,244	(21,042)
33 Essential oils and resinoids	1,731	16,671	(14,941)
34 Soap, organic surface-active agents	1,668	29,711	(28,043)
35 Albuminoidal substances	6,354	2,481	3,872
36 Explosives; pyrotechnic products	207	29,831	(29,624)
37 Photographic or cinematographic goods	15	1,970	(1,955)
38 Miscellaneous chemical products	12,389	47,380	(34,991)
39 Plastics and articles thereof	42,454	34,502	7,952
40 Rubber and articles thereof	10,465	89,620	(79,155)
41 Raw hides and skins and leather	37,398	932	36,467
42 Articles of leather	534	2,528	(1,994)
43 Furskins and artificial fur	3,223	926	2,298
44 Wood and articles of wood	1,969	62,413	(60,444)
45 Cork and articles of cork	1,014	12	1,002
46 Manufactures of straw	12	4	8
47 Pulp of wood or of other fibrous mats	213	3,924	(3,712)
48 Paper and paperboard	3,076	70,762	(67,686)
49 Printed books	443	16,232	(15,789)

Appendix Table 7.1
Kazakhstan Trade in Major Product Categories, 1995
(thousands of US dollars)

HS Chapter	Exports	Imports	Balance
50 Silk	568	1,188	(621)
51 Wool, fine and coarse animal hair	51,678	3,302	48,376
52 Cotton	45,924	8,511	37,413
53 Other vegetable textile fibre	72	941	(869)
54 Man-made filaments	644	3,156	(2,512)
55 Man-made staple fibres	6,105	6,249	(144)
56 Wadding, felt and nonwovens	6,710	7,388	(678)
57 Carpets and other textile floor-coverings	413	2,933	(2,520)
58 Special woven fabrics	223	2,113	(1,890)
59 Impregnated, coated textile fabrics	1,339	6,506	(5,167)
60 Knitted or crocheted fabrics	132	283	(152)
61 Articles of apparel and clothing accs	6,824	15,433	(8,609)
62 Articles of apparel and clothing accs	4,088	22,796	(18,708)
63 Other made up textile articles	2,542	13,132	(10,590)
64 Footwear, gaiters and the like	3,379	33,178	(29,798)
65 Headgear and parts thereof	97	503	(407)
66 Umbrellas and parts thereof	62	38	24
67 Prepared feathers and down	-	31	(31)
68 Articles of stone, plaster, cement	14,675	15,874	(1,199)
69 Ceramic products	4,215	32,918	(28,703)
70 Glass and glassware	938	15,192	(14,254)
71 Natural or cultured pearls, stones	11,495	5,204	6,291
72 Iron and steel	958,766	76,561	882,205
73 Articles of iron or steel	67,244	165,346	(98,102)
74 Copper and articles thereof	612,327	12,801	599,527
75 Nickel and articles thereof	151,136	32	151,104
76 Aluminum and articles thereof	29,249	17,138	12,112
78 Lead and articles thereof	32,452	6,917	25,535
79 Zinc and articles thereof	145,025	1,706	143,319
80 Tin and articles thereof	-	8,431	(8,431)
81 Other base metals	54,785	518	54,267
82 Tools, implements, cutlery	1,764	7,840	(6,076)
83 Miscellaneous articles of base metal	4,337	13,034	(8,697)
84 Nuclear reactors, boilers, machinery	95,500	522,782	(427,282)
85 Electrical machinery and equipment	45,344	237,153	(191,809)
86 Railway or locomotives, rolling stock	2,089	48,268	(46,179)
87 Vehicles and parts	49,956	215,648	(165,692)
88 Aircraft, spacecraft, and parts thereof	3,750	2,727	1,023
89 Ships, boats and floating structures	842	71	771
90 Optical, photographic instruments, etc.	9,904	79,182	(69,278)
91 Clocks and watches and parts thereof	7	1,275	(1,267)
92 Musical instruments	255	130	125
93 Arms and ammunition	23,613	1,572	22,041
94 Furniture; bedding and the like	6,426	45,727	(39,301)
95 Toys, games and sports requisites	379	3,917	(3,538)
96 Miscellaneous manufactured articles	230	2,245	(2,015)
97 Work of art	0	0	-

Source: National Statistical Agency.

Appendix Table 7.2 Export-Based Ranking of Kazakhstan's Machinery Products, 1997 (Quarters I - III) (thousands of US dollars)						
RANK	HS Code	Master Plan	Product Description	EXPORTS	IMPORTS	BALANCE
1	87.01	√	Tractors	30,665	3,564	27,101
2	84.82	√	Ball Or Roller Bearings	21,894	7,718	14,176
3	85.28		Television Receivers (Including Video Monitors And Video Projectors), Whether Or Not Incorporating Radio-Broadcast Receivers Or Sound Or Video Recording Or Reproducing Apparatus	12,621	64,512	- 51,891
4	85.07	√	Electric Accumulators, Including Separators.	11,162	8,755	2,407
5	84.33	√	Harvesting Or Threshing Machinery, Including Straw Or -Fodder Balers; Grass Or Hay Mowers; Machines For Cleaning, Sorting Or Grading Eggs, Fruit Or Other Agricultural Produce.	8,410	56,096	- 47,685
6	84.31	√	Parts Suitable For Use Solely Or Principally With The Machinery Of Heading Nos 84.25 To 84.30	7,224	28,198	- 20,974
7	84.28	√	Other Lifting, Handling, Loading Or Unloading Machinery	5,985	7,215	- 1,231
8	84.29	√	Self-Propelled Bulldozers, Angledozers, Graders, Jewellers, Scrapers Mechanical Shovels, Excavators, Shovel Loaders, Tamping Machines And Road Rollers	5,204	10,932	- 5,728
9	84.75	√	Machines For Assembling Electric Or Electronic Lamps, Tubes Or Valves Or Flashbulbs, In Glass Envelopes; Machines For Manufacturing Or Hot Working Glass	4,219	19,278	- 15,059
10	84.09	√	Parts Suitable For Use Solely Or Principally With The Engines Of Heading No.84.07 Or 84.08	3,928	12,741	- 8,813
11	84.3	√	Other Moving, Grading, Leveling, Scraping, Excavating Tamping Compacting, Extracting Or Boring Machinery, For Earth, Mineral Or Ores; Pile-Drivers And Pile-Extractors; Snow-Ploughs And Snow-Blowers	3,065	15,693	- 12,628
12	84.81	√	Taps, Cocks, Valves And Similar Appliances For Pipes, Boiler Shells, Tanks, Vats Or The Like, Including Pressure-Reducing Valves And Thermostatically Controlled Valves	2,818	11,999	- 9,182
13	84.32	√	Agricultural, Horticultural Or Forestry Machinery For Soil Preparation Or Cultivation; Lawn Or Sports-Ground Rollers	2,191	1,383	808
14	84.62	√	Machine-Tools (Including Presses) For Working Metal By Forging, Hammering Or Die-Stamping; Machine-Tools (Including Presses)	2,039	593	1,445
15	85.44	√	Insulated (Including Enamelled Or Auodised) Wire, Cable (Including Co-Axial Cable) And Other Insulated Electric Conductors	1,762	17,384	- 15,622
16	84.13	√	Pumps For Liquids, Whether Or Not Fitted With A Measuring Device; Liquid Elevators	1,736	29,395	- 27,659
17	85.04	√	Electric Transformers, Static Converters (For Example, Rectifiers) And Inductors	1,621	8,950	- 7,329
18	84.79	√	Other Machines And Mechanical Appliances Having Individual Functions	1,518	6,955	- 5,437

(Continued)

Appendix Table 7.2 (continued)
Export-Based Ranking of Kazakhstan's Machinery Products, 1997 (Quarters I - III)
(thousands of US dollars)

RANK	HS Code	Master Plan	Product Description	EXPORTS	IMPORTS	BALANCE
19	86.02	√	Other Rail Locomotives; Locomotive Tenders	1,446	3,399	- 1,954
20	86.01	√	Rail Locomotives Powered From An External Source Of Electricity Or By Electric Accumulators	1,268	1,431	- 162
21	84.26	√	Ships' Derricks; Any Type Of Cranes, Including Cable Cranes, Mobile Lifting Frames, Straddle Carriers And Works Trucks Fitted With A Crane	1,219	6,145	- 4,926
22	84.14	√	Air Or Vacuum Pumps, Air Or Other Gas Compressors And Fans; Ventilating Or Recycling Hoods Incorporating A Fan, Whether Or Not Fitted With Filters	1,204	15,799	- 14,595
23	85.32	√	Electrical Capacitors, Fixed, Variable Or Adjustable	1,130	69	1,060
24	85.37	v	Boards, Panels (Including Numerical Control Panels), Consoles, Desks, Cabinet And Other Bases,	912	5,460	- 4,548
25	85.36	√	Electrical Apparatus For Switching Or Protecting Electrical Circuits, Or For Making Connections To Or In Electrical Circuits	887	5,693	- 4,806
26	84.11	√	Turbo-Jets, Turbo-Propellers And Other Gas Turbines	860	4,129	- 3,269
27	84.63	√	Other Machine-Tools For Working Metal, Sintered Metal Carbides Or Cements, Without Removing Material	841	954	- 114
28	84.25	√	Pulley Tackle And Hoists Other Than Skip Hoists; Winches And Capstans; Jacks	811	1,004	- 192
29	85.46	√	Electrical Insulators Of Any Material	801	496	305
30	84.59	v	Machine-Tools (Including Way-Type Unit Head Machines) For Drilling, Boring, Milling, Threading Or Tapping By Removing Metal, Other Than Lathes Of Heading No.84.58	798	431	367
31	84.38	√	Machinery, Not Specified Or Included Elsewhere In This Chapter, For The Industrial Preparation Or Manufacture Of Food Or Drink	758	23,841	- 23,084
32	84.08	√	Compression-Ignition Internal Combustion Piston Engines(Diesel Or Semi-Diesel Engines), Engines Using Fuel With Low Cetan	725	19,702	- 18,977
33	86.07	√	Parts Of Railway Or Tramway Locomotives Or Rolling-Stock	616	24,043	- 23,427
34	85.01	√	Electrical Motors And Generators (Excluding Generating Sets)	602	12,529	- 11,927
35	84.83	√	Transmission Shafts (Including Cam Shafts And Crank Shafts) And Cranks, Bearing Housing And Plain Shaft Bearing; Gears; Ball Screws	591	3,091	- 2,500
36	84.18	√	Refrigerators, Freezers And Other Refrigerating Or Freezing Equipment, Electric Or Other, Heat Pumps Other Than Air Conditioning Machines Of Heading No.84.15	543	12,607	- 12,064
37	84.21	√	Centrifuges, Including Centrifugal Dryers; Filtering Or Purifying Machinery And Apparatus, For Liquids Or Gases	542	8,756	- 8,214
38	84.07	√	Spark-Ignition Reciprocating Or Rotary Internal Combustion Piston	511	1,534	- 1,023
39	84.5	√	Household Or Laundry-Type Washing Machines	479	4,869	- 4,389
40	84.37	√	Machines For Cleaning, Sorting Or Grading Seed, Grain Or Dried Leguminous Vegetables; Machinery Used In The Milling Industry	461	14,103	- 13,642
41	84.23	√	Weighing Machines Including Weight Operated Counting Or Checking Machines; Weighing Machines Of All Kinds	448	843	- 395
42	86.08	√	Equipment For Railways Or Tramways, Mechanical (Including Electromechanical) Equipment To Provide	445	14,089	- 13,644

Appendix Table 7.2 (continued)
Export-Based Ranking of Kazakhstan's Machinery Products, 1997 (Quarters I - III)
 (thousands of US dollars)

RANK	HS Code	Master Plan	Product Description	EXPORTS	IMPORTS	BALANCE
			Control And Security Of The Railway, Tramway Traffic And Related Objects, Parts Thereof			
43	85.17	√	Electrical Apparatus For Line Telephony Or Line Telegraphy, Including Such Apparatus For Carrier-Currant Line Systems	435	13,262	- 12,827
44	84.72		Other Office Machines	409	16,641	- 16,232
45	85.27		Reception Apparatus For Radio-Telephony, Radio-Telegraphy Or Radio-Broadcasting	409	5,952	- 5,543
46	84.55	√	Metal-Rolling Mills And Rolls	407	12,604	- 12,197
47	85.16		Electric Instantaneous Or Storage Water Heaters And Immersion Heaters; Electric Space Heating Apparatus And Soil Heating Apparatus; Electro-Thermic Hair-Dressing Apparatus	386	8,447	
48	84.66	√	Parts And Accessories Suitable For Use Solely Or Principally With The Machines Of Heading Nos.84.56 To 84.65	363	750	- 387
49	84.71	√	Automatic Data Processing Machines And Units Thereof; Magnetic Optical Readers, Machines For Transcribing Data Onto Data Media Encoded Form And Machines For Processing Such Data	360	2,481	- 2,121
50	84.58	√	Lathes For Removing Metal	355	160	195
51	84.19	√	Machinery, Plant Or Laboratory Equipment, Whether Or Not Electrically Heated, For The Treatment Of Materials By A Process Involving A Change Of Temperature	348	28,520	- 28,172
52	85.45	√	Carbon Electrodes, Carbon Brushes, Lamp Carbons, Batterycarbons And Other Articles Of Graphite Or Other Carbon, With Or Without Metal, Of A Kind Used For Electrical Purposes	331	6,777	- 6,446
53	85.1	√	Shavers And Hair Clippers, With Self-Contained Electric Motor	329	130	199
54	85.35	√	Electrical Apparatus For Switching Or Protecting Electrical Circuits, Or For Making Connections To Or In Electrical Circuits	316	2,687	- 2,371
55	84.03		Central Heating Boilers Other Than Those Of Heading No.84.02	311	6,339	- 6,028
56	85.13		Portable Electric Lamps Designed To Function By Their Own Source Of Energy	273	956	- 683
57	86.04		Railway Or Tramway Maintenance Or Service Vehicles, Whether Or Not Self-Propelled	26 0	88 0	- 620
58	84.74		Machinery For Sorting, Screening, Separating, Washing, Crushing, Grinding, Mixing Or Kneading Earth, Stone, Ores Or Other Mineral Substances, In Solid (Including Powder Or Paste) Form	259	1 6,489	- 16,230
59	84.12	√	Other Engines And Motors	250	931	- 681
60	85.48	√	Electrical Parts Of Machinery Or Apparatus, Not Specified Or Included Elsewhere In This Chapter	243	4,320	- 4,078
61	84.47		Knitting Machines, Stitch-Bonding Machines And Machines For Making Gimped Yarn, Tulle, Lace, Embroidery, Trimmings Braid	227	na	na
62	85.39		Electric Filament Or Discharge Lamps, Including Sealed Beam Lamp Units And Ultra-Violet Or Infrared Lamps	208	3,950	- 3,742
63	85.26		Radar Apparatus, Radio Navigational Aid Apparatus	203	4,463	- 4,259
64	85.15	√	Electric (Including Electrically Heated Gas), Laser Or Other Light Or Photon Beam, Ultrasonic, Electron Beam, Magnetic Pulse Or Plasma Arc Soldering, Brazing Or	198	1,286	- 1,088

Appendix Table 7.2 (continued)

Export-Based Ranking of Kazakhstan's Machinery Products, 1997 (Quarters I - III)

(thousands of US dollars)

RANK	HS Code	Master Plan	Product Description	EXPORTS	IMPORTS	BALANCE
			Welding Machines And Apparatus			
65	84.36	√	Other Agricultural, Horticultural, Forestry, Poultry-Keeping Or Bee-Keeping Machinery	197	2,756	- 2,558
66	86.09	√	Containers (Including Containers For The Transport Of Fluids) Specially Designed And Equipped For Carriage By One Or More Modes Of Transport	19 5	29 5	- 100
67	84.24		Mechanical Appliances (Whether Or Not Hand-Operated) For Projecting, Dispersing Or Spraying Liquids Or Powders; Fire Extinguishers, Whether Or not Charged; Spray Guns And Similar Appliances	195	1,549	- 1,355
68	85.03	√	Parts Suitable For Use Solely Or Principally With The Machines Of Heading No.85.01 Or 85.02	161	2,729	- 2,568
69	85.29	√	Parts Suitable For Use Solely Or Principally With The Apparatus Of Headings Nos. 85 To 85.28	157	7,966	- 7,809
70	84.04		Auxiliary Plant For Use With Boilers Of Heading No. 84.02 Or 84.03 Condensers For Steam Or Other Vapor Power Units	146	4,161	- 4,016
71	84.77		Machinery For Working Rubber Or Plastics Or For The Manufacture Of Products From These Materials, Not Specified Or Included Elsewhere In This Chapter	143	2,774	- 2,631
72	85.09	√	Electro-Mechanical Domestic Appliances, Self-Contained	127	3,779	- 3,651
73	85.25		Transmission Apparatus For Radio-Telephone, Radio-Telegraphy, Telegraphy, Radio-Broadcasting Or Television	119	8,323	- 8,204
74	84.43		Printing Machinery; Machines For Uses Ancillary To Printing	117	3,464	- 3,347
75	84.6	√	Machine-Tools For Deburring, Sharpening, Grinding, Honing, Lapping, Polishing Or Otherwise Finishing Metal, Sintered Metal Carbides Or Cements By Means Of Grinding Stones	108	140	- 32
76	85.05	√	Electro-Magnets; Permanent Magnets And Articles Intended To Become Permanent Magnets After Magnetization; Electromagnetic Or Permanent Magnet Chucks, Clamps And Similar Holding Devices	106	26	81
77	85.31	√	Electric Sound Or Visual Signaling Apparatus, Other Than Those Of Heading No. 85.12 Or 85.30	88	1,252	- 1,163
78	84.16		Furnace Burners For Liquid Fuel, For Pulverized Solid Fuel Or For Gas; Mechanical Stokers	77	605	- 528
79	84.34	√	Milking Machines And Dairy Machinery For Industrial And Agriculture Use	73	2,458	- 2,386
80	85.11	√	Electrical Ignition Or Starting Equipment Of A Kind Used For Spark-Ignition Or Compression-Ignition Internal Combustion Engines; Generators	64	1,202	- 1,138
81	84.06		Water Steam Turbines And Other Vapor Turbines	63	3,547	- 3,484
82	85.02	√	Electric Generating Sets And Rotary Converters	52	5,683	- 5,631
83	84.65	√	Machine-Tools (Including Machines For Nailing, Stapling, Gluing Or Otherwise Assembling)	49	1,116	- 1,068
84	84.35	√	Presses, Crushers And Similar Machinery Used In The Manufacture Of Wine, Cider, Or Similar Beverages	48	5	43
85	85.14	√	Industrial Or Laboratory Electric (Including Induction Or Dielectric) Furnaces And Ovens; Other Industrial Or Laboratory Induction Or Dielectric Heating Equipment	47	2,321	- 2,274
86	84.15		Air Conditioning Machines, Comprising A Motor-Drive Fan And Elements For Changing The Temperature And	47	8,768	- 8,721

Appendix Table 7.2 (continued)
Export-Based Ranking of Kazakhstan's Machinery Products, 1997 (Quarters I - III)

(thousands of US dollars)

RANK	HS Code	Master Plan	Product Description	EXPORTS	IMPORTS	BALANCE
			Humidity, Including Those Machines In Which The Humidity Cannot Be Separately Regulated			
87	84.27	√	Fork-Lift Trucks; Other Works Trucks Fitted With Lifting Or Handling Equipment	47	1,678	- 1,632
88	84.41		Other Machinery For Making Up Paper Pulp, Paper Or Paperboard, Including Cutting Machines Of All Kinds	46	426	- 380
89	84.8		Molding Boxes For Metal Foundry; Mould Bases; Molding Patterns; Moulds For Metal (Other Than Ingot Moulds), Metal Carbides, Glass, Mineral Materials	46	366	- 320
90	85.08	√	Electro-Mechanical Tools For Working In The Hand, With Self-Contained Electric Motor	44	1,080	- 1,037
91	84.02		Steam Or Other Vapor Generating Boilers; Super-Heated Water Boilers	43	3,450	- 3,408
92	84.52		Sewing Machines, Other Than Book-Sewing Machines Of Heading No.84.40; Furniture, Bases And Covers Specially Designed For Sewing Machines	41	98	- 57
93	85.43	√	Electrical Machines And Apparatus, Having Individual Functions, Not Specified Or Included	40	1,567	- 1,527
94	84.22		Dish Washing Machines; Machinery For Cleaning Or Drying Bottles Or Other Containers; Machinery For Filling, Closing, Sealing, Capsuling Or Labeling Bottles	32	9,769	- 9,737
95	84.54		Converters, Ladles, Ingot Moulds And Casting Machines, Of A Kind Used In Metallurgy Or In Metal Foundries	29	2,355	- 2,326
96	85.34	√	Printed circuits	28	85	- 57
97	84.2		Calendering Or Other Rolling Machines, Other Than For Metals Or Glass, And Cylinders	27	13	14
98	84.67		Tools For Working In The Hand, Pneumatic Or With Self-Contained Non-Electric Motor	26	978	- 952
99	86.06	√	Railway Or Tramway Goods Vans And Wagons, Not Self-Propelled	2 4	16,0 66	- 16,042
100	85.18		Microphones And Stands Therefor; Loudspeakers, Whether Or Not Mounted In Their Enclosures	24	1,154	- 1,129
101	84.53		Machinery For Preparing, Tanning Or Working Hides, Skins Or Leather Or For Making Or Repairing Footwear Or Other Articles Of Hides, Skins Or Leather	22	1,193	- 1,171
102	85.42		Electronic Integrated Circuits And Microassemblies	21	716	- 695
103	85.22		Parts And Accessories Of Apparatus Of Headings Nos. 85.19 To 85.21	19	270	- 251
104	85.3	√	Electrical Signaling, Safety Or Traffic Control Equipment For Railways, Tramways, Roads, Inland Waterways, Parking Facilities, Port Installations Or Airfields	18	943	- 925
105	84.51		Machinery, Bleaching, Dyeing, Dressing, Finishing, Coating Or Impregnating Textile Yarns, Fabrics Or Made Up Textile Articles	18	401	- 384
106	85.12		Electrical Lighting Or Signaling Equipment (Excluding Articles Of Heading No.85.39), Windscreen Wipers, Defrosters And Demisters	17	401	- 385
107	85.2		Magnetic Tape Recorders And Other Sound Recording Apparatus	16	2,326	- 2,310
108	84.68	√	Machinery And Apparatus For Soldering, Brazing Or Welding, Whether Or Not Capable Of Cutting, Other Than Those Of Heading No.85.15;	14	655	- 641
109	86.03	√	Self-Propelled Railway Or Tramway Coaches, Vans And Trucks, Other Than Those Of Heading No.86.04	1 4	8	6
110	84.17		Industrial Or Laboratory Furnaces And Ovens, Including Incinerators, Non-electric	12	966	- 954

Appendix Table 7.2 (continued)
Export-Based Ranking of Kazakhstan's Machinery Products, 1997 (Quarters I - III)
(thousands of US dollars)

RANK	HS Code	Master Plan	Product Description	EXPORTS	IMPORTS	BALANCE
111	84.45	√	Machines For Preparing Textile Fibers; Spinning, Doubling Or Twisting Machines And Other Machinery For Producing Textile Yarns; Textile Reeling Or Winding (Including Weft-Winding)	10	13	- 3
112	85.21		Video Recording Or Reproducing Apparatus, Whether Or Not Incorporating A Video Tuner	9	2,779	- 12,770
113	84.85	√	Machinery Parts, Not Containing Electrical Connectors, Insulators, Coils, Contacts Or Other Electrical Features, Not Specified Or Included Elsewhere In This Chapter	9	518	- 509
114	85.24		Records, Tapes And Other Recorded Media For Sound Or Other Similarly Recorded Phenomena, Including Matrices And Masters For The Production Of Records	8	1,199	- 1,190
115	85.33	√	Electrical Resistors (Including Rheostats And Potentiometers), Other Than Heating Resistors	8	102	- 94
116	85.38	√	Parts Suitable For Use Solely Or Principally With The Apparatus Of Heading No.85.35,85.36 Or 85.37	8	722	- 714
117	84.84	√	Gaskets And Similar Joints Of Metal Sheetting Combined With Other Material Or Two Or More Layers Of Metal; Sets Or Assortments Of Gaskets And Similar Joints	8	1,004	- 997
118	85.41		Diodes, Transistors And Similar Semi-Conductor Devices; Photo-Sensitive Semi-Conductor Devices, Including Photovoltaic Cells	7	813	- 805
119	84.01		Nuclear Reactors; Fuel Elements (Cartridges), Non-Irradiated For Nuclear Reactors; Machinery And Apparatus For Isotopic Separation	7	1,001	- 994
120	84.61	√	Machine-Tools For Planing, Shaping, Slotting, Broaching, Gear Cutting, Gear Grinding Or Gear Finishing, Sawing, Cutting-Off And Other-Machine Tools	6	231	- 225
121	84.05		Gas Producer Or Water Gas Generators, With Or Without Their Purifiers; Acetylene Gas Generators And Similar Gas Generators, With Or Without Their Purifiers	6	214	- 208
122	84.78		Machinery For Preparing Or Making Up Tobacco, Not Specified Or Included Elsewhere In This Chapter	5	1,911	- 11,906
123	85.19		Turntables (Record Decks), Record-Players, Cassette-Players And Other Sound Reproducing Apparatus, Not Incorporating A Sound Recording Device	4	1,467	- 1,463
124	85.47	√	Insulating Fittings For Electrical Machines, Appliances Or Equipment, Being Fittings Wholly Of Insulating Material Apart From Any Minor Components Of Metal	3	1,090	- 1,087
125	84.73		Parts And Accessories Suitable For Use Solely Or Principally With Machines Of Headings Nos.84.69 To 84.72	3	2,032	- 2,029
126	85.23		Prepared Unrecorded Media For Sound Recording Or Similar Recording Of Other Phenomena, Other Than Products Of Chapter 37	2	5,348	- 5,346
127	84.49		Machinery For The Manufacture Or Finishing Of Felt Or unwoven In The Piece Or In Shapes, Including Machinery For Making Felt Hats; Blocks For Making Hats	2	15	- 13
128	85.4		Thennionic, Cold Cathode Valves	2	275	- 273
129	84.42		Machinery, Apparatus And Equipment For Type-Founding Or Typesetting, For Preparing Or Making Printing Blocks	1	505	- 504
130	84.64		Machine-Tools For Working Stone, Ceramics, Concrete, Asbestos Cement Or Like Mineral Materials Or For Cold Working Glass	1	4,803	- 4,802
131	84.57		Machining Centers, Unit Construction Machines (Single Station And Multi-Station Transfer Machines, For	0	120	- 120

Appendix Table 7.2 (continued)						
Export-Based Ranking of Kazakhstan's Machinery Products, 1997 (Quarters I - III)						
(thousands of US dollars)						
RANK	HS Code	Master Plan	Product Description	EXPORTS	IMPORTS	BALANCE
			Working Metal			
132	84.7		Calculating Machines; Accounting Machines, Postage-Franking Machines, Ticket-Issuing Machines And Similar Machines, Incorporating A Calculating Device	0	99	- 99
133	86.05	√	Railway Or Tramway Passenger Coaches, Not Self-Propelled; Luggage Vans, Post Office Coaches And Other Special Purpose Railway Or Tramway Coaches Not Self-Propelled	0	84	- 84
134	85.06	√	Primary Cells And Primary Batteries	0	764	- 764
135	84.1		Hydraulic Turbines, Water Wheels, And Regulators	0	420	- 420
136	84.39	√	Machinery For Making Pulp Of Fibrous Cellulosic Material Or For Making Or Finishing Paper Or Paperboard	0	191	- 191
137	84.4		Book-Binding Machinery, Including Book-Sewing Machines	0	264	- 264
138	84.44		Machines For Extruding, Drawing, Texturing Or Cutting Manmade Textile Materials	0	5	- 5
139	84.46	√	Weaving Machines (Looms)	0	55	- 55
140	84.48		Auxiliary Machinery For Use With Machines Of Heading No.84.44,84.45,84.46 Or 84.47; Parts And Accessories Suitable For Use Solely Or Principally With The Machines Of This	0	108	- 108
141	84.56		Machine-Tools For Working Any Material By Removal Of Material, By Laser Or Other Light Or Photon Beam, Ultra-Sonic, Electro-Discharge, Electrochemical	0	20	- 20
142	84.76		Automatic Goods-Vending Machines (For Example, Postage Stamps Cigarette, Food Or Beverage Machines), Including Money-Changing Machines	0	344	- 344

Source: Ministry of Energy, Industry and Trade.

Note: Checked items indicate that the product is included in the Master Plan for the Machinery Industry.

Appendix Table 7.3**World Exports of Agricultural Machinery, Excl. Tractors (SITC, Rev. 3= 721),
1992-96 (thousand US dollars)**

	1992	1993	1994	1995	1996
United States	1,641,475	1,894,597	2,014,791	2,094,059	2,417,155
Germany	1,626,022	1,347,011	1,547,995	1,869,969	1,964,538
Italy	769,423	762,805	910,112	1,097,037	1,290,606
France	642,985	525,448	595,105	722,271	743,496
Denmark	389,790	312,929	441,969	561,183	602,913
Canada	323,115	410,861	441,923	484,136	587,139
Belgium-Lux	415,185	306,644	437,997	491,111	580,553
Netherlands	513,763	471,032	499,206	578,772	513,258
Unfd Kingdom	364,141	261,889	321,983	392,077	432,729
Austria	179,551	165,540	185,010	220,194	232,598
Japan	322,706	270,403	249,864	210,582	200,449
Brazil	74,433	93,234	126,180	133,373	190,462
Sweden	292,696	238,447	337,994	198,577	160,327
Norway	111,501	91,786	127,006	135,683	148,443
Spain	101,149	69,664	93,773	99,873	134,156
Mexico	28,111	68,636	80,641	101,927	
Czech Rep		59,248	63,695	86,715	95,336
Finland	52,945	48,225	68,760	72,089	82,812
Australia	45,409	51,800	53,357	73,636	76,872
Switz. Liecht	57,024	52,911	49,029	69,342	73,465
Hungary				72,798	
New Zealand	30,420	39,364	44,049	54,850	53,834
Ireland	38,334	33,343	43,142	45,458	52,824
Poland	22,204	23,474	34,573	44,419	
Israel	32,162	32,640	41,979	49,240	41,600
China	19,932	26,203	30,318	30,604	36,536
Slovakia			10,740	17,150	23,303
Singapore	9,896	14,857	13,808	15,927	22,957
Korea Rep.	20,211	14,728	16,130	17,908	19,933
Malaysia	1,480	2,654	2,988	5,428	18,659
Slovenia	10,993	10,122	13,916	18,036	
S.Afr.Cus.Un	12,575	8,772	11,840	16,068	
Argentina	8,245	10,627	9,973	10,928	13,259
Portugal	12,597	6,601	10,021	10,429	11,000
Turkey	7,912	7,885	8,702	9,689	
Romania	4,027	5,569	11,631	4,520	6,510
Croatia	5,429	3,711	3,224	5,302	5,464
Estonia					5,376
Yugoslavia					4,903
Algeria	1,441	121	2,039	4,512	
Latvia			5,435	4,664	4,196
Thailand	3,609	4,787	5,612	3,640	
Lithuania	749		3,360		
Greece	2,037	4,052	2,267	3,041	
Tunisia	2,851	2,950	2,237	3,887	2,884
Colombia	2,427	1,837	2,961	2,659	
Rep.Moldova			558	1,723	
Zimbabwe	1,418	1,329	5,565	1,685	
Costa Rica			1,470	1,163	1,523
Chile	604	702	1,910	989	1,502
Philippines	54	9	66	240	1,434
Kyrgyzstan				469	1,421
Indonesia	147	279	1,126	1,715	1,388
Venezuela	1,126	820	1,036	1,187	
Total	8,204,304	7,760,546	8,989,066	10,152,934	10,857,813

Source: United Nations (UN), COMTRADE Database.

Appendix Table 7.4
World Imports of Agricultural Machinery, Excl. Tractors (SITC, Rev.3 = 721),
1992-96
(thousand US dollars)

	1992	1993	1994	1995	1996
France	933,112	792,275	1,010,019	1,217,064	1,310,075
United States	674,746	806,193	897,164	940,096	981,675
Germany	969,070	696,335	819,398	1,007,594	979,042
Canada	635,253	816,422	853,247	853,280	905,424
United Kingdom	523,671	505,816	566,545	676,429	712,249
Australia	129,978	173,078	233,290	241,442	397,661
Netherlands	371,314	245,053	298,620	331,184	311,138
Spain	218,203	172,943	194,990	220,434	286,854
Austria	191,698	162,896	187,856	258,050	281,641
Belgium-Lux	305,436	242,367	278,847	321,511	280,972
Italy	256,553	191,711	192,145	277,991	278,185
Denmark	152,876	108,875	148,693	234,753	247,932
Czech Rep		83,844	108,388	184,014	231,066
Korea Rep.	218,177	190,994	160,390	181,472	207,344
Sweden	151,583	119,705	161,806	183,860	199,063
Switz.Liecht	144,248	145,000	180,082	203,555	190,714
Argentina	51,325	73,769	129,090	119,028	186,048
Japan	157,329	153,466	140,759	169,996	176,023
China	127,980	128,395	134,899	122,441	166,205
Norway	105,694	89,980	107,037	132,411	152,587
Ireland	113,625	88,876	111,792	138,103	148,664
Poland	55,423	48,232	77,994	135,204	
S.Afr.Cus.Un	37,512	51,077	73,703	102,163	
Finland	55,744	35,852	48,642	94,563	100,723
Hungary				97,660	
Slovakia			40,974	76,153	89,643
Indonesia	22,370	36,867	37,794	69,822	89,039
Chile	41,222	38,823	40,782	60,093	85,455
Brazil	20,797	22,833	49,432	80,029	
Romania	16,970	35,198	88,075	103,386	79,743
New Zealand	32,196	46,116	58,952	75,051	79,171
Mexico	101,673	151,469	188,292	77,999	
Greece	88,678	62,029	57,047	67,488	
Thailand	30,198	28,147	30,012	65,316	
Portugal	58,004	43,975	48,634	57,297	58,984
Saudi Arabia	99,775	86,689	52,262		
Morocco		18,634	36,278	28,343	51,918
Malaysia	33,579	24,469	28,959	36,105	49,739
Uruguay		16,116	19,340	26,050	41,704
Singapore		27,481	33,691	33,773	33,272
Israel	34,649	25,136	28,815	29,843	32,413
Egypt			19,196	21,137	28,763
Slovenia	8,117	9,197	17,025	28,666	
Turkey	24,096	45,101	22,311	27,344	
Philippines	10,214	8,371	16,503	15,954	24,934
Croatia	11,151	20,654	13,954	36,860	24,339
Colombia	8,513	15,350	15,771	21,186	
Hong Kong	10,510	13,263	12,282	17,370	20,450
Tunisia	34,365	30,216	18,127	13,363	19,362
Bulgaria	16,817				
Pakistan	8,320	8,694	15,062	10,987	15,839
Peru	5,455	12,794	6,362	13,671	15,611
Paraguay	5,260	9,023	15,523	15,268	
Zimbabwe	16,419	4,355	13,798	13,797	

Appendix Table 7.4					
World Imports of Agricultural Machinery, Excl. Tractors (SITC, Rev.3 = 721),					
1992-96					
(thousand US dollars)					
	1992	1993	1994	1995	1996
Estonia					13,365
Algeria	13,106	19,289	8,522	13,024	
Ecuador	10,867	35,045	11,858	17,139	12,685
Venezuela	22,004	13,506	10,044	11,611	
Lithuania	1,459		10,346		
Rep.Moldova			5,823	9,630	
Costa Rica			10,286	9,404	
Untd Arab Em	5,452	8,587			
Bangladesh	9,974	8,554			
Honduras		6,386	6,215	7,893	
Bahrain			7,838		
Iceland	6,113	4,683	5,436	7,186	7,737
Kuwait	14,225	8,515	8,400	7,723	
Guatemala		8,289	8,276	7,981	7,708
Nicaragua		3,295	5,087	5,130	7,578
Latvia			5,457	6,263	7,557
Panama				7,499	
Bolivia	7,309	5,385	6,817	5,626	6,516
Jordan	5,008	5,506	5,314	5,594	
Cyprus	5,411	5,292	6,259	8,408	5,462
Kyrgyzstan				452	5,259
Mozambique			5,257		
Yugoslavia					5,238
Kenya	13,965	4,999			
Ghana	4,809				
Guadeloupe	2,208	3,119	3,481	4,413	
Reunion	5,208	4,942	3,733	4,274	
Martinique	2,366	3,449	2,747	3,870	
Oman	6,784	5,204	2,267	3,765	
El Salvador			4,766	3,347	3,500
Sri Lanka	2,361	3,524	3,217		
Jamaica			2,658	2,951	
Barbados	909	865	1,764	1,552	2,878
Mauritius	1,542	2,735	2,645	2,791	
Brunei Dar.	1,028	2,178	2,316		
Cameroon				2,461	1,983
Madagascar	752	644	1,026	1,904	
Malta	2,378	1,785			
Fr.Guiana	797	831	1,071	1,652	
Belize	943	1,287	902	1,353	
Trinidad Tbg	3,866	1,168	1,042	1,335	
Qatar	2,584	1,589	1,323		
Fiji	1,066	1,008	1,039		
Gabon		2,235	1,146		771
Seychelles	782	489	1,626	540	510
Total	7,496,215	7,138,537	8,306,653	9,733,420	9,660,391

Source: United Nations (UN), COMTRADE Database.

Appendix Table 7.5
World Exports of Tractors (SITC, Rev.3, 722), 1992-96
(thousand US dollars)

	1992	1993	1994	1995	1996
United Kingdom	996,171	943,140	1,178,784	1,438,839	1,728,710
Germany	1,164,278	967,881	1,278,642	1,662,958	1,672,560
Usa,Pr,Usvi	964,133	985,756	1,089,950	1,273,805	1,466,380
Italy	658,622	668,770	725,100	974,162	1,215,811
Japan	628,672	690,081	916,288	884,481	807,860
France	282,946	250,957	340,036	462,789	458,896
Canada	143,138	218,141	327,996	459,213	400,753
Finland	85,278	89,581	142,200	238,738	263,622
Austria	75,757	72,459	86,209	101,886	146,445
Brazil	73,239	51,892	62,137	76,200	131,497
Czech Rep		68,496	37,116	118,565	108,097
Mexico	1,725	9,728	43,279	85,847	
Poland	27,415	26,296	55,940	66,225	
China	37,017	47,172	41,437	69,665	59,438
Belgium-Lux	111,920	47,816	42,509	64,705	51,822
Netherlands	47,244	43,312	36,686	38,942	36,174
Sweden	22,944	16,771	21,227	32,948	34,465
Slovakia			19,889	21,730	32,109
Romania	45,332	38,462	26,020	33,001	28,577
Denmark	15,677	17,552	21,225	27,589	27,654
Korea Rep.	1,306	11,332	21,382	19,414	20,255
Switz.Liecht	15,275	15,337	16,977	24,490	19,086
Spain	10,839	10,895	11,364	7,590	18,767
S.Afr.Cus.Un	4,929	4,445	5,071	9,944	
Ireland	6,982	5,489	4,107	8,005	7,317
Rep.Moldova			6,575	6,495	
Singapore	4,811	9,555	4,349	9,037	6,403
Colombia	49	6,106	13,046	5,802	
Portugal	3,699	2,843	3,795	7,202	5,456
Argentina	1,229	1,520	3,567	4,552	4,230
Yugoslavia					4,134
Bangladesh	3,990				
Lithuania	45		3,765		
Norway	3,562	1,526	1,872	2,009	3,598
Thailand	4,460	4,989	6,808	3,188	
Australia	2,988	4,301	1,280	1,345	2,896
Kuwait	2,550	2,312	3,962	2,301	
Bolivia	53	390	653	1,611	
Slovenia	1,238	981	762	1,412	
Croatia	10,396	2,137	1,260	939	1,357
Malaysia	919	2,663	1,372	1,476	1,189
Hungary				1,047	
Estonia					1,005
Mauritius	541	2,488	678	960	
Israel		813	3,505	395	573
Venezuela	254	1,249	1,418	565	
Latvia			1,228	519	311
Greece	1,081	3,682	323	289	
Turkey	396	1,668	570	167	
Peru	1,370	1,286	114	64	55
Total	5,464,470	5,352,270	6,612,473	8,253,106	8,767,502

Source: United Nations (UN), COMTRADE Database.

Appendix Table 7.6
World Imports of Tractors (SITC, Rev.3, 722), 1992-96
(thousand US dollars)

	1992	1993	1994	1995	1996
United States	1,235,670	1,327,787	1,829,853	1,985,345	1,768,614
France	480,813	417,672	596,144	922,173	1,122,726
Canada	369,631	449,554	474,554	489,110	539,168
Spain	178,216	134,622	255,739	323,008	470,944
Untd Kingdom	240,738	322,460	396,180	463,670	430,288
Germany	427,317	312,405	318,772	384,093	401,054
Australia	100,524	144,992	222,336	248,166	353,162
Italy	129,781	90,860	126,161	180,932	279,798
S.Afr.Cus.Un	33,400	70,933	130,022	265,122	
Thailand	140,299	164,722	212,068	244,870	
Belgium-Lux	120,846	90,989	139,799	254,396	222,648
Denmark	78,556	49,652	93,830	147,374	178,042
Japan	114,281	124,545	158,429	146,785	176,104
Austria	142,846	132,356	139,897	140,054	168,218
Netherlands	215,064	92,729	154,051	163,857	158,657
Norway	53,475	55,398	93,424	135,970	142,083
Portugal	93,030	64,335	69,657	101,500	129,099
Korea Rep.	81,845	69,478	72,399	111,176	127,828
Sweden	68,994	43,244	82,999	112,076	122,806
Switz.Liecht	82,336	84,195	108,156	137,013	120,329
Finland	48,844	43,393	69,480	99,072	118,089
Argentina	34,893	32,844	55,707	42,872	102,405
Ireland	62,910	52,176	75,891	95,139	97,978
New Zealand	40,484	65,843	80,370	73,108	81,602
Greece	99,245	34,348	32,892	55,309	
Czech Rep		16,503	29,916	41,167	52,013
Malaysia	24,315	28,342	27,547	38,716	50,893
Pakistan	59,719	43,568	37,255	141,384	50,233
Singapore	9,631	11,634	11,824	52,205	40,659
Chile	42,993	32,111	29,898	34,676	40,067
Morocco		13,935	51,173	23,100	38,589
Tunisia	66,569	59,236	26,999	30,020	37,544
Uruguay		13,019	16,236	20,797	33,886
Slovenia	18,771	20,368	22,424	32,882	
Hungary				32,440	
Colombia	21,309	21,387	27,801	32,203	
Israel	20,420	23,869	32,971	36,664	31,602
Zimbabwe	30,219	16,814	38,547	25,388	
Indonesia	15,344	13,144	18,597	18,094	23,948
Mexico	69,978	28,297	52,108	22,460	
Brazil	2,491	14,684	20,806	20,109	
Slovakia			6,373	9,989	19,633
Sri Lanka	9,752	11,388	18,469		
Egypt			9,554	12,329	17,716
Bulgaria	17,542				
Croatia	10,973	12,992	14,665	20,194	14,426
Philippines	4,107	4,078	5,627	9,198	14,236
Paraguay	7,842	11,416	13,831	13,357	
Poland	6,866	8,381	9,397	13,347	
Untd Arab Em	9,404	12,518			
Peru	4,846	27,175	24,121	18,182	12,426
Kenya	9,087	11,973			
Bolivia	10,299	7,062	11,104	10,176	11,837
Panama				11,416	
China	77,862	80,835	51,014	26,682	11,334
Ecuador	12,704	7,646	12,077	13,400	10,281

Appendix Table 7.6

World Imports of Tractors (SITC, Rev.3, 722), 1992-96

(thousand US dollars)

	1992	1993	1994	1995	1996
Turkey	11,579	18,555	4,825	10,038	
Venezuela	53,207	15,430	3,531	9,739	
Lithuania	4,879		9,563		
Costa Rica			10,128	9,303	
Romania	3,096	4,481	3,585	6,591	8,074
Iceland	5,238	4,364	3,694	5,947	7,795
Guatemala		8,454	10,730	10,315	6,833
Cyprus	5,439	5,739	5,296	7,329	6,828
Latvia			4,298	5,220	6,823
Mozambique			5,551		
Cameroon				3,976	5,384
Jordan	5,542	5,990	3,099	5,349	
Jamaica			2,632	4,863	
Reunion	4,571	3,649	3,403	4,801	
Yugoslavia					4,599
Honduras		6,867	5,004	4,564	
Saudi Arabia	19,795	14,989	4,324		
Estonia					4,177
Gabon		1,170	6,254		4,003
Kuwait	25,036	15,542	11,969	3,910	
Martinique	2,028	1,296	1,810	3,866	
Mauritius	4,462	6,820	3,513	3,348	
Nicaragua		1,474	3,057	2,411	2,912
Mongolia					2,569
El Salvador			3,691	3,472	2,549
Algeria	11,327	1,027	342	2,378	
Ghana	2,283				
Kyrgyzstan				873	2,251
Guadeloupe	1,476	1,220	1,583	1,840	
Madagascar	1,749	1,477	729	1,703	
Trinidad Tbg	1,617	594	1,154	1,527	
Malawi			1,158	1,498	
Congo		67	1,492		
Belize	1,017	1,668	1,242	1,218	
Barbados	204	443	892	1,393	935
Oman	3,786	1,746	3,460	925	
Qatar	2,147	1,393	599		
Bangladesh	1,059	489			
Total	5,438,618	5,148,851	6,731,752	8,201,162	7,888,697

Source: United Nations (UN), COMTRADE Database.

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
 (percent)

HS Code	Description	Rate
84.01	Nuclear Reactors; Fuel Elements (Cartridges), Non-Irradiated For Nuclear Reactors; Machinery And Apparatus For Isotopic Separation	Duty Free
84.02	Steam Or Other Vapor Generating Boilers (Other Than Central Heating Hot Water Boilers Capable Also Of Producing Low Pressure Steam); Super-Heated Water Boilers	Duty Free
84.03	Central Heating Boilers Other Than Those Of Heading No.84.02	Duty Free
84.04	Auxiliary Plant For Use With Boilers Of Heading No. 84.02 Or 84.03 (For Example, Economizers, Super-Heaters, Soot Removers, Gas Recoverert); Condensers For Steam Or Other Vapor Power Units	Duty Free
84.05	Gas Producer Or Water Gas Generators, With Or Without Their Purifiers; Acetylene Gas Generators And Similar Gas Generators, With Or Without Their Purifiers	Duty Free
84.06	Water Steam Turbines And Other Vapor Turbines	Duty Free
84.07	Spark-Ignition Reciprocating Or Rotary Internal Combustion Piston	Duty Free
84.08	Compression-Ignition Internal Combustion Piston Engines(Diesel Or Semi-Diesel Engines), Engines Using Fuel With Low Cetan	Duty Free
84.09	Parts Suitable For Use Solely Or Principally With The Engines Of Heading No.84.07 Or 84.08	Duty Free
84.1	Hydraulic Turbines, Water Wheels, And Regulators Therefor	Duty Free
84.11	Turbo-Jets, Turbo-Propellers And Other Gas Turbines	Duty Free
84.12	Other Engines And Motors	
84.13	Pumps For Liquids, Whether Or Not Fitted With A Measuring Device; Liquid Elevators	Duty Free
84.14	Air Or Vacuum Pumps, Air Or Other Gas Compressors And Fans; Ventilating Or Recycling Hoods Incorporating A Fan, Whether Or Not Fitted With Filters	Duty Free
84.15	Air Conditioning Machines, Comprising A Motor-Driven Fan And Elements For Changing The Temperature And Humidity, Including Those Machines In Which The Humidity Cannot Be Separately Regulated	Duty Free
84.16	Furnace Burners For Liquid Fuel, For Pulverized Solid Fuel Or For Gas; Mechanical Stokers, Including Their Mechanical Grates, Mechanical Ash Dischargers And Similar Appliances	Duty Free
84.17	Industrial Or Laboratory Furnaces And Ovens, Including Incinerators, Non-electric	Duty Free
84.18	Refrigerators, Freezers And Other Refrigerating Or Freezing Equipment, Electric Or Other, Heat Pumps Other Than Air Conditioning Machines Of Heading No.84.15	Duty Free
84.19	Machinery, Plant Or Laboratory Equipment,. Whether Or Not Electrically Heated, For The Treatment Of Materials By A Process Involving A Change Of Temperature Such As Heating, Cooking, Roasting, Distilling, Rectifying, Sterilizing, Pasteurizing, Steaming	Duty Free
84.2	Calendering Or Other Rolling Machines, Other Than For Metals Or Glass, And Cylinders	Duty Free

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
(percent)

HS Code	Description	Rate
84.21	Centrifuges, Including Centrifugal Dryers; Filtering Or Purifying Machinery And Apparatus, For Liquids Or Gases	Duty Free
84.22	Dish Washing Machines; Machinery For Cleaning Or Drying Bottles Or Other Containers; Machinery For Filling, Closing, Sealing, Capsuling Or Labelling Bottles, Cans, Boxes, Bags Or Other Containers, Other Packing Or Wrapping Machinery; Machinery For Aeratin	Duty Free
84.23	Weighing Machines (Excluding Balances Of A Sensitivity Of 5 Cg Or Better), Including Weight Operated Counting Or Checking Machines; Weighing Machines Of All Kinds	Duty Free
84.24	Mechanical Appliances (Whether Or Not Hand-Operated) For Projecting, Dispersing Or Spraying Liquids Or Powders; Fire Extinguishers, Whether Or not Charged; Spray Guns And Similar Appliances; Steam Or Sand Blasting Machines And Similar Jet Projecting Machines	Duty Free
84.25	Pulley Tackle And Hoists Other Than Skip Hoists; Winches And Capstans; Jacks	Duty Free
84.26	Ships' Derricks; Any Type Of Cranes, Including Cable Cranes, Mobile Lifting Frames, Straddle Carriers And Works Trucks Fitted With A crane	Duty Free
84.27	Fork-Lift Trucks; Other Works Trucks Fitted With Lifting Or Handling Equipment	Duty Free
84.28	Other Lifting, Handling, Loading Or Unloading Machinery (For Example, Lifts, Escalators, Conveyors, Teleferics)	Duty Free
84.29	Self-Propelled Bulldozers, Angledozers, Graders, Jewellers, Scrapers Mechanical Shovels, Excavators, Shovel Loaders, Tamping Machines And Road Rollers	Duty Free
84.3	Other Moving, Grading, Leveling, Scraping, Excavating Tamping Compacting, Extracting Or Boring Machinery, For Earth, Mineral Or Ores; Pile-Drivers And Pile-Extractors; Snow-Ploughs And Snow-Blowers	Duty Free
84.31	Parts Suitable For Use Solely Or Principally With The Machinery Of Heading Nos 84.25 To 84.30	Duty Free
84.32	Agricultural, Horticultural Or Forestry Machinery For Soil Preparation Or Cultivation; Lawn Or Sports-Ground Rollers	5%
84.33	Harvesting Or Threshing Machinery, Including Straw Or -Fodder Balers; Grass Or Hay Mowers; Machines For Cleaning, Sorting Or Grading Eggs, Fruit Or Other Agricultural Produce Other Than Machinery Of Heading NO.84.37	Duty Free
84.34	Milking Machines And Dairy Machinery For Industrial And Agriculture Use	Duty Free
84.35	Presses, Crushers And Similar Machinery Used In The Manufacture Of Wine, Cider, Fruit Juices Or Similar Beverages	Duty Free
84.36	Other Agricultural, Horticultural, Forestry, Poultry-Keeping Or Bee-Keeping Machinery, Including Germination Plant Fitted With Mechanical Or Thermal Equipment; Poultry Incubators And Brooders	Duty Free
84.37	Machines For Cleaning, Sorting Or Grading Seed, Grain Or Dried Leguminous Vegetables; Machinery Used In The Milling Industry Or For The Working Of Cereals Or Dried Leguminous Vegetables, Other Than Farm-Type Machinery	Duty Free

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
(percent)

HS Code	Description	Rate
84.38	Machinery, Not Specified Or Included Elsewhere In This Chapter, For The Industrial Preparation Or Manufacture Of Food Or Drink, Other Than Machinery For The Extraction Or Preparation Of Animal Or Fixed Vegetable Fats Or Oils	Duty Free
84.39	Machinery For Making Pulp Of Fibrous Cellulosic Material Or For Making Or Finishing Paper Or Paperboard	Duty Free
84.4	Book-Binding Machinery, Including Book-Sewing Machines	Duty Free
84.41	Other Machinery For Making Up Paper Pulp, Paper Or Paperboard, Including Cutting Machines Of All Kinds	Duty Free
84.42	Machinery, Apparatus And Equipment (Other Than The Machine-Tools Of Heading Nos. 84.56 To 84.65), For Type-Founding Or Typesetting, For Preparing Or Making Printing Blocks, Plates, Cylinders Or Other Printing Components; Blocks, Plates, Cylinders	Duty Free
84.43	Printing Machinery; Machines For Uses Ancillary To Printing	Duty Free
84.44	Machines For Extruding, Drawing, Texturing Or Cutting Manmade Textile Materials	Duty Free
84.45	Machines For Preparing Textile Fibers; Spinning, Doubling Or Twisting Machines And Other Machinery For Producing Textile Yarns; Textile Reeling Or Winding (Including Weft-Winding) Machines And Machines For Preparing Textile Yarns For Use On The Machines O	Duty Free
84.46	Weaving Machines (Looms)	Duty Free
84.47	Knitting Machines, Stitch-Bonding Machines And Machines For Making Gimped Yarn, Tulle, Lace, Embroidery, Trimmings Braid Or Net And Machines For Tufting	Duty Free
84.48	Auxiliary Machinery For Use With Machines Of Heading No. 84.44, 84.45, 84.46 Or 84.47 (For Example, Dobbies, Jacquards, Automatic Stop Motions, Shuttle Changing Mechanisms); Parts And Accessories Suitable For Use Solely Or Principally With The Machines Of This	Duty Free
84.49	Machinery For The Manufacture Or Finishing Of Felt Or unwoven In The Piece Or In Shapes, Including Machinery For Making Felt Hats; Blocks For Making Hats	Duty Free
84.5	Household Or Laundry-Type Washing Machines, Including Machines Both And Dry, Machines Each Of A Dry Linen Capacity Not Exceeding 10 Kg, excepting	Duty Free
84.50.19	Other Types Of Household Or Laundry-Type Washing Machines	20%
84.51	Machinery (Other Than Machines Of Heading No. 84.50) For Washing Cleaning, Ironing, Pressing (Including Fusing Presses), Bleaching, Dyeing, Dressing, Finishing, Coating Or Impregnating Textile Yarns, Fabrics Or Made Up Textile Articles And Machines For Applying The Paste To The Base Fabric Or Other Support Used In The Manufacture Of Floor Covering Such As Linoleum; Machines For Reeling, Unreeling, Folding, Cutting Or Pinking Textile Fabrics	Duty Free
84.52	Sewing Machines, Other Than Book-Sewing Machines Of Heading No. 84.40; Furniture, Bases And Covers Specially Designed For Sewing Machines; Sewing Machines Needles	Duty Free

(cont'd)

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
 (percent)

HS Code	Description	Rate
84.53	Machinery For Preparing, Tanning Or Working Hides, Skins Or Leather Or For Making Or Repairing Footwear Or Other Articles Of Hides, Skins Or Leather, Other Than Sewing Machines	Duty Free
84.54	Converters, Ladles, Ingot Moulds And Casting Machines, Of A Kind Used In Metallurgy Or In Metal Foundries	Duty Free
84.55	Metal-Rolling Mills And Rolls Therefor	Duty Free
84.56	Machine-Tools For Working Any Material By Removal Of Material, By Laser Or Other Light Or Photon Beam, Ultra-Sonic, Electro-Discharge, Electrochemical, Electron Beam, Ionic-Beam Or Plasma Arc Processes	Duty Free
84.57	Machining Centers, Unit Construction Machines (Single Station And Multi-Station Transfer Machines, For Working Metal	Duty Free
84.58	Lathes For Removing Metal	Duty Free
	<i>Excepting</i>	
84.58.11.2	Lathes for removing metal, others	20%
84.59	Machine-Tools (Including Way-Type Unit Head Machines) For Drilling, Boring, Milling, Threading Or Tapping By Removing Metal, Other Than Lathes Of Heading No.84.58	Duty Free
84.6	Machine-Tools For Deburring, Sharpening, Grinding, Honing, Lapping, Polishing Or Otherwise Finishing Metal, Sintered Metal Carbides Or Cements By Means Of Grinding Stones, Abrasives Or Polishing Products, Other Than Gear Cutting, Gear Grinding Or Gear Finishing Machines Of Heading No.84.61	Duty Free
84.61	Machine-Tools For Planing, Shaping, Slotting, Broaching, Gear Cutting, Gear Grinding Or Gear Finishing, Sawing, Cutting-Off And Other-Machine Tools Working By Removing Metal, Sintered Metal Carbides Or Cements Not Elsewhere Specified Or Included	Duty Free
84.62	Machine-Tools (Including Presses) For Working Metal By Forging, Hammering Or Die-Stamping; Machine-Tools (Including Presses) For Working Metal By Bending, Folding, Straightening, Flattening, Shearing, Punching Or Notching;	Duty Free
84.63	Other Machine-Tools For Working Metal, Sintered Metal Carbides Or Cements, Without Removing Material	Duty Free
84.64	Machine-Tools For Working Stone, Ceramics, Concrete, Asbestos Cement Or Like Mineral Materials Or For Cold Working Glass	Duty Free
84.65	Machine-Tools (Including Machines For Nailing, Stapling, Gluing Or Otherwise Assembling) For Working Wood, Cork, Bone, Hard Rubber, Hard Plastics Or Similar Materials	Duty Free
84.66	Parts And Accessories Suitable For Use Solely Or Principally With The Machines Of Heading Nos.84.56 To 84.65, Including Work Or Tool Holders, Self-Opening Disheads, Dividing Heads And Other Special Attachments For Machine- Tools; Tool Holders For Any Type	Duty Free
84.67	Tools For Working In The Hand, Pneumatic Or With Self-Contained Non-Electric Motor	Duty Free
84.68	Machinery And Apparatus For Soldering, Brazing Or Welding, Whether Or Not Capable Of Cutting, Other Than Those Of Heading No.85.15; Gas-Operated Surface Tempering Machines and Appliances	Duty Free

(cont'd)

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
(percent)

HS Code	Description	Rate
84.7	Calculating Machines; Accounting Machines, Postage-Franking Machines, Ticket-Issuing Machines And Similar Machines, Incorporating A Calculating Device; Cash Registers	Duty Free
84.71	Automatic Data Processing Machines And Units Thereof; Magnetic Optical Readers, Machines For Transcribing Data Onto Data Media encoded Form And Machines For Processing Such Data, Not Elsewhere Specified Or Included	Duty Free
84.72	Other Office Machines (For Example, Hectograph Or Stencil Duplicating Machines, Addressing Machines, Automatic Banknote Dispensers, Coin-Counting Or -Wrapping Machines, Pencil Sharpening Machines, Perforating Or Stapling Machines)	Duty Free
84.73	Parts And Accessories (Other Than Covers, Carrying Cases And The Like) Suitable For Use Solely Or Principally With Machines Of Headings Nos.84.69 To 84.72	Duty Free
84.74	Machinery For Sorting, Screening, Separating, Washing, Crushing, Grinding, Mixing Or Kneading Earth, Stone, Ores Or Other Mineral Substances, In Solid (Including Powder Or Paste) Form; Machinery For Agglomerating, Shaping Or Molding Solid Mineral Fuels, Ceramic Paste, Unhardened Cements, Plastering Materials Or Other Mineral Products In Powder Or Paste Form; Machines For Forming Foundry Moulds Of Sand	Duty Free
84.75	Machines For Assembling Electric Or Electronic Lamps, Tubes Or Valves Or Flashbulbs, In Glass Envelopes; Machines For Manufacturing Or Hot Working Glass Or Glassware	Duty Free
84.76	Automatic Goods-Vending Machines (For Example, Postage Stamps Cigarette, Food Or Beverage Machines), Including Money-Changing Machines	Duty Free
84.77	Machinery For Working Rubber Or Plastics Or For The Manufacture Of Products From These Materials, Not Specified Or Included Elsewhere In This Chapter	Duty Free
84.78	Machinery For Preparing Or Making Up Tobacco, Not Specified Or Included Elsewhere In This Chapter	Duty Free
84.79	Machines And Mechanical Appliances Having Individual Functions, Not Specified Or Included Elsewhere In This Chapter	Duty Free
84.8	Molding Boxes For Metal Foundry; Mould Bases; Molding Patterns; Moulds For Metal (Other Than Ingot Moulds), Metal Carbides, Glass, Mineral Materials, Rubber Or Plastics	Duty Free
84.81	Taps, Cocks, Valves And Similar Appliances For Pipes, Boiler Shells, Tanks, Vats Or The Like, Including Pressure-Reducing Valves And Thermostatically Controlled Valves	Duty Free
	<i>excepting</i>	
84.81.8	Taps, cocks and valves for sinks, wash basins, bidets, water cisterns, baths and similar fixtures	10%
84.82	Ball Or Roller Bearings	Duty Free (cont'd)

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
 (percent)

HS Code	Description	Rate
84.83	Transmission Shafts (Including Cam Shafts And Crank Shafts) And Cranks, Bearing Housing And Plain Shaft Bearing; Gears And Gearing; Ball Screws; Gear Boxes And Other Speed Changers, Including Torque Converters; Flywheels And Pulleys, Including Pulley Blocks	Duty Free
84.84	Gaskets And Similar Joints Of Metal Sheetting Combined With Other Material Or Two Or More Layers Of Metal; Sets Or Assortments Of Gaskets And Similar Joints, Dissimilar In Composition, Put Up In Pouches, Envelopes Or Similar Packing	Duty Free
84.85	Machinery Parts, Not Containing Electrical Connectors, Insulators, Coils, Contacts Or Other Electrical Features, Not Specified Or Included Elsewhere In This Chapter	Duty Free
85.01	Electrical Motors And Generators (Excluding Generating Sets)	Duty Free
85.02	Electric Generating Sets And Rotary Converters	Duty Free
85.03	Parts Suitable For Use Solely Or Principally With The Machines Of Heading No.85.01 Or 85.02	Duty Free
85.04	Electric Transformers, Static Converters (For Example, Rectifiers) And Inductors	Duty Free
85.05	Electro-Magnets; Permanent Magnets And Articles Intended To Become Permanent Magnets After Magnetization; Electromagnetic Or Permanent Magnet Chucks, Clamps And Similar Holding Devices; Electromagnetic Couplings, Clutches And Brakes; Electro-Magnetic Lifting Heads	Duty Free
85.06	Primary Cells And Primary Batteries	Duty Free
85.07	Electric Accumulators, Including Separators Therefore, Whether Or Not Rectangular (Including Square)	Duty Free
	<i>Excluding:</i>	
85.07.10.81	Led-acid electrical accumulators used for starting piston engines	15%
85.08	Electro-Mechanical Tools For Working In The Hand, With Self-Contained Electric Motor	Duty Free
85.09	Electro-Mechanical Domestic Appliances, With Self-Contained	Duty Free
85.1	Shavers And Hair Clippers, With Self-Contained Electric Motor	Duty Free
85.11	Electrical Ignition Or Starting Equipment Of A Kind Used For Spark-Ignition Or Compression-Ignition Internal Combustion Engines (For Example, Ignition Magnetos, Magneto-Dynamos, Ignition Coils, Sparking Plugs And Glow Plugs, Starter Motors);Generators (For	Duty Free
85.12	Electrical Lighting Or Signaling Equipment (Excluding Articles Of Heading No.85.39), Windscreen Wipers, Defrosters And Demisters, Of A Kind Used For Cycles Or Motor Vehicles	Duty Free
85.13	Portable Electric Lamps Designed To Function By Their Own Source Of Energy (For Example, Dry Batteries, Accumulators, Magnetos), Other Than Lighting Equipment Of Heading No.85.12	Duty Free
85.14	Industrial Or Laboratory Electric (Including Induction Or Dielectric) Furnaces And Ovens; Other Industrial Or Laboratory Induction Or Dielectric Heating Equipment	Duty Free

(cont'd)

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
(percent)

HS Code	Description	Rate
85.15	Electric (Including Electrically Heated Gas), Laser Or Other Light Or Photon Beam, Ultrasonic, Electron Beam, Magnetic Pulse Or Plasma Arc Soldering, Brazing Or Welding Machines And Apparatus, Whether Or Not Capable Of Cutting; Electric Machines	Duty Free
85.16	Electric Instantaneous Or Storage Water Heaters And Immersion Heaters; Electric Space Heating Apparatus And Soil Heating Apparatus; Electro-Thermic Hair-Dressing Apparatus (For Example, Hair Dryers, Hair Curlers, Curling Tong Heaters) And Hand Dryers	Duty Free
	<i>Excluding:</i>	
85.16.5	Microwave ovens	20%
85.17	Electrical Apparatus For Line Telephony Or Line Telegraphy, Including Such Apparatus For Carrier-Current Line Systems	Duty Free
	<i>Excluding:</i>	
85.17.19.9	Electrical apparatus for line telephony or line telegraphy, other than for telephones sets	10%
85.18	Microphones And Stands Therefor; Loudspeakers, Whether Or Not Mounted In Their Enclosures; Headphones, Earphones And Combined Microphone/Speaker Sets; Audio-Frequency Electric Amplifiers; Electric Sound Amplifier Sets	Duty Free
85.19	Turntables (Record Decks), Record-Players, Cassette- Players And Other Sound Reproducing Apparatus, Not Incorporating A Sound Recording Device	Duty Free
85.2	Magnetic Tape Recorders And Other Sound Recording Apparatus, Whether Or Not Incorporating A Sound Reproducing Device	Duty Free
85.21	Video Recording Or Reproducing Apparatus, Whether Or Not Incorporating A Video Tuner	Duty Free
85.22	Parts And Accessories Of Apparatus Of Headings Nos. 85.19 To 85.21	Duty Free
85.23	Prepared Unrecorded Media For Sound Recording Or Similar Recording Of Other Phenomena, Other Than Products Of Chapter 37	Duty Free
85.24	Records, Tapes And Other Recorded Media For Sound Or Other Similarly Recorded Phenomena, Including Matrices And Masters For The Production Of Records, But Excluding Products Of Chapter 37	Duty Free
85.25	Transmission Apparatus For Radio-Telephone, Radio-Telegraphy, Telegraphy, Radio-Broadcasting Or Television, Whether Or Not Incorporating Reception Apparatus Or Sound Recording Or Reproducing Apparatus; Television Cameras	Duty Free
85.26	Radar Apparatus, Radio Navigational Aid Apparatus And Radio Remote Control Apparatus	Duty Free
85.27	Reception Apparatus For Radio-Telephony, Radio-Telegraphy Or Radio-Broadcasting, Whether Or Not Combined, In The Same Housing, With Sound Recording Apparatus Or A Clock	Duty Free
85.28	Television Receivers (Including Video Monitors And Video Projectors), Whether Or Not Incorporating Radio-Broadcast Receivers Or Sound Or Video Recording Or Reproducing Apparatus	10%
85.29	Parts Suitable For Use Solely Or Principally With The Apparatus Of Headings Nos. 85 To 85.28	Duty Free (cont'd)

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
 (percent)

HS Code	Description	Rate
85.3	Electrical Signaling, Safety Or Traffic Control Equipment For Railways, Tramways, Roads, Inland Waterways, Parking Facilities, Port Installations Or Airfields (Other Than Those Of Heading No. 86.06)	Duty Free
85.31	Electric Sound Or Visual Signaling Apparatus (For Example Bells, Sirens, Indicator Panels, Burglar Or Fire Alarms), Other Than Those Of Heading No. 85.12 Or 85.30	Duty Free
85.32	Electrical Capacitors, Fixed, Variable Or Adjustable(Pre-Set)	Duty Free
85.33	Electrical Resistors (Including Rheostats And Potentiometers), Other Than Heating Resistors	Duty Free
85.34	Printed circuits	Duty Free
85.35	Electrical Apparatus For Switching Or Protecting Electrical Circuits, Or For Making Connections To Or In Electrical Circuits (For Example, Switches, Fuses, Lightning Arresters, Voltage Limiters, Surge Suppressors, Plugs, Junction Boxes), For A Voltage Exceeding	Duty Free
85.36	Electrical Apparatus For Switching Or Protecting Electrical Circuits, Or For Making Connections To Or In Electrical Circuits (For Example, Switches, Relays, Fuses, Surge Suppressors, Plugs, Sockets, Lamp-Holders, Junction Boxes)	Duty Free
85.37	Boards, Panels (Including Numerical Control Panels), Consoles, Desks, Cabinet And Other Bases Equipped With Two Or More Apparatus Of Heading No.85.35 Or 85.36, For Electric Control Or The Distribution Of Electricity, Including Those Incorporating Instruments	Duty Free
85.38	Parts Suitable For Use Solely Or Principally With The Apparatus Of Heading No.85.35,85.36 Or 85.37	Duty Free
85.39	Electric Filament Or Discharge Lamps, Including Sealed Beam Lamp Units And Ultra-Violet Or Infrared Lamps; Arc Lamps	Duty Free
85.4	Thennionic, Cold Cathode Or Photo-Cathode Valves And Tubes(For Example, Vacuum Or Vapor Or Gas Filled Valves And Tubes, Mercury-Arc Rectifying Valves And Tubes, Cathode-Ray Tubes, Television - Camera Tubes)	Duty Free
85.41	Diodes, Transistors And Similar Semi-Conductor Devices; Photo-Sensitive Semi-Conductor Devices, Including Photovoltaic Cells Whether Or Not Assembled In Modules Or Made Up Into Panels; Light Emitting Diodes; Mounted Piezoelectric Crystals	Duty Free
85.42	Electronic Integrated Circuits And Microassemblies	Duty Free
85.43	Electrical Machines And Apparatus, Having Individual Functions, Not Specified Or Included Elsewhere In This Chapter	Duty Free
85.44	Insulated (Including Enameled Or Auodized) Wire, Cable (Including Co-Axial Cable) And Other Insulated Electric Conductors, Whether Or Not Fitted With Connectors; Optical Fiber Cables, Made Up Of Individually Sheathed Fibers, Whether Or Not Assembled With	Duty Free
85.45	Carbon Electrodes, Carbon Brushes, Lamp Carbons, Battery carbons And Other Articles Of Graphite Or Other Carbon, With Or Without Metal, Of A Kind Used For Electrical Purposes	Duty Free
85.46	Electrical Insulators Of Any Material	Duty Free (cont'd)

Appendix Table 7.7
Kazakhstan Import Duties on Machinery, 1997
 (percent)

HS Code	Description	Rate
85.47	Insulating Fittings For Electrical Machines, Appliances Or Equipment, Being Fittings Wholly Of Insulating Material Apart From Any Minor Components Of Metal (For Example, Threaded Sockets) Incorporated During Molding Solely For The Purposes Of Assembly	Duty Free
85.48	Electrical Parts Of Machinery Or Apparatus, Not Specified Or Included Elsewhere In This Chapter	Duty Free
86.01	Rail Locomotives Powered From An External Source Of Electricity Or By Electric Accumulators	Duty Free
86.02	Other Rail Locomotives; Locomotive Tenders	Duty Free
86.03	Self-Propelled Railway Or Tramway Coaches, Vans And Trucks, Other Than Those Of Heading No.86.04	Duty Free
86.04	Railway Or Tramway Maintenance Or Service Vehicles, Whether Or Not Self-Propelled (For Example, Workshops, Cranes, Ballast Tampers, Trackliners, Testing Coaches And Track Inspection Vehicles	Duty Free
86.05	Railway Or Tramway Passenger Coaches, Not Self-Propelled; Luggage Vans, Post Office Coaches And Other Special Purpose Railway Or Tramway Coaches Not Self-Propelled, Other Than Those Of Heading No 8604	Duty Free
86.06	Railway Or Tramway Goods Vans And Wagons, Not Self-Propelled	Duty Free
86.07	Parts Of Railway Or Tramway Locomotives Or Rolling-Stock	Duty Free
86.08	Equipment For Railways Or Tramways, Mechanical (Including Electromechanical) Equipment To Provide Control And Security Of The Railway, Tramway Traffic And Related Objects, Parts Thereof	Duty Free
86.09	Containers (Including Containers For The Transport Of Fluids) Specially Designed And Equipped For Carriage By One Or More Modes Of Transport	5%
87.01	Tractors (Other Than Tractors Of Heading No. 87.09) <i>Excepting:</i>	5%
8701.30.00	Track laying tractors	15%

Source: Government of Kazakhstan, *On Introduction of Changes in the Decree of the Government of Kazakhstan of 14 November 1996*. Almaty, Decree No. 960, 12 June 1997.

Table 8.1: ODA Projects Related to the Development of the Machinery Industry in Kazakhstan							
Title	Donor	Sector	Objective	Type	Duration	Description	Cost
Management In The Natural Resources Sector Training Program	Canada	Energy	Regional Development	Technical Assistance	1-Mar-96 - 30-Sep-98	Design of self-financing training program for the management staff at the Kazakh Institute of Management Economics and Forecasting (KIMEP).	\$1 200 000
Program Loan In Agriculture	ADB	Agriculture	Infrastructure Development	Technical Assistance	1-Jan-97 - onward	Preparation of feasibility study for second ADB agricultural loan.	\$600 000
Feasibility Study Of The Rehabilitation And Repair Of Priority Sections Of Roads	ADB	Transport	Infrastructure Development	Technical Assistance	1-Jan-97 - onward	Feasibility study of the rehabilitation and repair of road sections for the second ADB loan.	\$250 000
Bank Twinning Arrangement	EBRD	Industry	Economic Restructuring	Technical Assistance	1-Jun-96 - onward	Technical assistance for the preparation of credit line for small and medium-size enterprises.	\$3 015 000
Apex Group Expansion For The Development Of SMEs	EBRD	Industry	Economic Restructuring	Technical Assistance	1-Jun-96 - onward	Technical assistance for the preparation of a credit line for small and medium-size enterprises.	\$485 675
Institutional Development Of The Aktau Seaport	EBRD	Transport	Economic Restructuring	Technical Assistance	1-Aug-96 - onward	Technical assistance for the institutional development of the Aktau seaport.	\$1 262 369
Pilot Agricultural Projects In Cattle-Breeding And Production Of Fresh Foodstuff	European Union	Agriculture, Food, Forestry	Economic Restructuring	Technical Assistance	1-Sep-95 - onward	Reconstruction of the privatized middle and large scale agricultural enterprises in Almaty, Northern Kazakhstan and Aktubinsk Regions; introduction of modern management and accounting systems; pilot projects implementation and production methods optimization.	\$2 194 400
Support To The Reorganization Of Food Processing In The Aktubinsk Oblast	European Union	Agriculture, Food, Forestry	Economic Restructuring	Technical Assistance	15-Jan-96 - 31-Dec-97	Technical assistance for processing enterprises in Aktubinsk Region; preparation of recommendations on the functioning of meat and dairy industries under market-oriented conditions; improvement of high-quality food products supply.	\$260 000
Additional Support to SMEs; Post-Privatization Support Of Consumers Cooperatives	European Union	Enterprise and Industry	Economic Restructuring	Technical Assistance	18-Dec-96 - onward	Post-privatization support to co-operatives for credit line preparation aimed at SME; training of Khabar officials, consultancy services.	\$1 625 000 (cont'd)

Table 8.1 ODA Projects Related to the Development of the Machinery Industry in Kazakhstan (cont'd)									
Title	Donor	Sector	Objective	Type	Duration	Description	Cost		
Support To The Centre For Business Relations In Almaty.	European Union	Enterprise and Industry	Private Sector Development	Technical Assistance	25-Jan-96 - 31-Dec-97	Support and expansion of Centre for Business Relations in Almaty.	\$1 755 000		
Technical Assistance To The GIMV Kazakhstan Post-Privatization Fund	European Union	Enterprise and Industry	Private Sector Development	Technical Assistance	1-Mar-96 - 1-Mar-06	N/A	\$32 500 000		
Support To The State Property Department In Case-By-Case Privatization Programme	European Union	Enterprise and Industry	Economic Restructuring	Technical Assistance	10-Sep-96 - N/A	N/A	\$2 925 000		
Trade Conditions, Customs Procedures And Shipping Clerks Services	European Union	Trade and Commerce	Legal Regulation / Infrastructure	Technical Assistance	1-Jan-96 -	Elaboration of recommendations on harmonization of customs procedures and development of shipping clerks services.	\$1 300 000		
Multimodal Transportations Systems	European Union	Transport	Structural Adjustment	Technical Assistance	1-Jan-96 -	Introduction of a multi-modal transportation system in the Traseka and Europe-Asia corridors. Improvement of operations of existing terminals from commercial and technical points of view.	\$812 500		
Proposals To Create The Unified Information System For Transasiatic Main Line	European Union	Transport	Legal Regulation / Infrastructure	Technical Assistance	1-Jan-96 -	Introduction of systems to provide exchange of information on infrastructure, customers and train schedule for transportation between Russia, Ukraine, Belarus, Kazakhstan and China.	\$494 000		
Improvement Of Roads Maintenance In Central Asia	European Union	Transport	Structural Adjustment	Technical Assistance	1-Jan-96 -	Collection of the necessary technical recommendations based on European standards, taking account of combined transportation parks, their deterioration, application of new models and their adaptation.	\$975 000		
System To Control Road Surfacing	European Union	Transport	Infrastructure Development	Technical Assistance	1-Jan-96 -	Reduction of technical maintenance expenses. Review of latest technologies for road surfacing control.	\$1 625 000		
TRASEKA And Law Enforcement Structures	European Union	Transport	Legal Regulation / Infrastructure	Technical Assistance	1-Jan-96 -	Elaboration of recommendations to harmonize the currently existing transportation systems involved in commercial, customs and regulation databases. Elaboration of new legal standards for legislation optimization on the basis of material and information collected in Kazakhstan	\$2 437 500		
Grant	IBRD with Japan	Environment	Legal Regulation	Technical Assistance	1-Sep-96 - 31-Dec-97	N/A	\$800 000 (cont'd)		

Table 8.1: ODA Projects Related to the Development of the Machinery Industry in Kazakhstan (cont'd)

Title	Donor	Sector	Objective	Type	Duration	Description	Cost
Preparation Of Study on Almaty-Uzun-Agach-Bistrovka Road Construction	Islamic Development Bank	Transport	Infrastructure Development	Technical Assistance	27-Jul-94 -	Preparation of feasibility study for Almaty-Uzun-Agach-Bistrovka of the following: (a) volume of transport flows; (b) evaluation of cost of construction of Uzun-Agach-Bistrovka road section; (c) evaluation of the number and location of motels and service stations along the road.	\$257 000
Preparation Of The Feasibility Study Of Karaganda-Akmola Motorway Construction	Islamic Development Bank	Transport	Infrastructure Development	Technical Assistance	19-Sep-96 -	Feasibility study of the Karaganda-Akmola road, based on volume of future transport flows; review and exposition of the road sections and constructions, which require repair; recommendations concerning the conforming design and construction standards for the motorway.	\$298 500
Preparation Of The Feasibility Study Of Almaty-Akmola Railway	Islamic Development Bank	Transport	Infrastructure Development	Technical Assistance	19-Jun-96 -	N/A	\$290 000
Japan 0012	Japan	Agriculture, Food, Forestry	Regional Development	Technical Assistance	1-Mar-96 -	N/A	N/A
Japan 0014	Japan	Agriculture, Food, Forestry	Infrastructure Development	Technical Assistance	1-Mar-97 -	N/A	N/A
Japan 0016	Japan	Agriculture, Food, Forestry	Democratic Institution Building	Technical Assistance	1-Apr-97 - 31-Mar-98	N/A	N/A
Japan 0015	Japan	Enterprise and Industry	Economic Restructuring	Technical Assistance	1-Mar-97 -	N/A	N/A

Source: External Affairs Committee, Ministry of Finance

Table 8.1: ODA Projects Related to the Development of the Machinery Industry in Kazakhstan (cont'd)

Title	Donor	Sector	Objective	Type	Duration	Description	Cost
Preparation Of Study On Almaty-Uzun-Agach-Bistrovka Road Construction	Islamic Development Bank	Transport	Infrastructure Development	Technical Assistance	27-Jul-94	Preparation of feasibility study for Almaty-Uzun-Agach-Bistrovka of the following: (a) volume of transport flows; (b) evaluation of cost of construction of Uzun-Agach-Bistrovka road section; (c) evaluation of the number and location of motels and service stations along the road.	\$257 000
Preparation Of The Feasibility Study Of Karaganda-Akmola Motorway Construction	Islamic Development Bank	Transport	Infrastructure Development	Technical Assistance	19-Sep-96	Feasibility study of the Karaganda-Akmola road, based on volume of future transport flows, review and exposition of the road sections and constructions, which require repair; recommendations concerning the conforming design and construction standards for the motorway.	\$298 500
Preparation Of The Feasibility Study Of Almaty-Akmola Railway	Islamic Development Bank	Transport	Infrastructure Development	Technical Assistance	19-Jun-96	N/A	\$290 000
Japan 0012	Japan	Agriculture, Food, Forestry	Regional Development	Technical Assistance	1-Mar-95	N/A	N/A
Japan 0014	Japan	Agriculture, Food, Forestry	Infrastructure Development	Technical Assistance	1-Mar-97	N/A	N/A
Japan 0016	Japan	Agriculture, Food, Forestry	Democratic Institution Building	Technical Assistance	1-Apr-97 - 31-Mar-98	N/A	N/A
Japan 0015	Japan	Enterprise and Industry	Economic Restructuring	Technical Assistance	1-Mar-97	N/A	N/A

Source: External Loans Committee, Ministry of Finance

Table 9.1: Application of VAT Rate (%) in the selected countries		
Country	Standard Rate	Reduced Rate
Belgium	21	1 or 6
Denmark	25	
Germany	15	7
Greece	18	4 or 8
Spain	16	4 or 7
France	20.6	2.1 or 5.5
Ireland	21	3.3 or 12.5
Italy	20	4 or 10
Luxembourg	15	3 or 6
Netherlands	17.5	6
Austria	20	10
Portugal	17	5 or 12
Finland	22	8 or 17
Sweden	25	6 or 12
UK	17.5	5
USA	5~20	
Japan	5	0
Bulgaria	22	
Czech	22	5
Hungary	25	12
Kazakhstan	20	
Latvia	18	
Lithuania	18	
Poland	22	8
Romania	18	
Russia	20	10
Slovak	23	6
Ukraine	20	
Uzbekistan	17	

Source: EATax Guide to Europe, 1996

Country	Standard Rate	Reduced Rate
Belgium	21	1 or 6
Denmark	25	
Germany	15	7
Greece	18	4 or 8
Spain	16	4 or 7
France	20.6	2.1 or 5.5
Ireland	21	3.3 or 12.5
Italy	20	4 or 10
Luxembourg	15	3 or 6
Netherlands	17.5	6
Austria	20	10
Portugal	17	5 or 12
Finland	22	8 or 17
Sweden	25	6 or 12
UK	17.5	5
USA	5~20	
Japan	5	0
Bulgaria	22	
Czech	22	5
Hungary	25	12
Kazakhstan	20	
Latvia	18	
Lithuania	18	
Poland	22	8
Romania	18	
Russia	20	10
Slovak	23	6
Ukraine	20	
Uzbekistan	17	

Source: "A Tax Guide to Europe, 1996"



Appendix-6: References



REFERENCES

- Aghion, P., O. Blanchard and R. Burgess (1994), 'The Behavior of State Firms in Eastern Europe Pre-Privatization', *European Economic Review*.
- Akhmetova, S.O., A.M. Buranbaeva, and O.V. Radivilova (1997), 'Foreign Direct Investment'. In Center for Economic Reforms, *Kazakhstan Economic Trends: First Quarter 1997*. Almaty: Government of Kazakhstan.
- Ayna (1997), 'The History of Kazakhstan'. *Annual Country Profile 1997*. Almaty: Ayna Ltd.
- Baietti, A. (1995), 'Small-Scale Privatization in Kazakhstan'. CFS Discussion Paper 114. Washington, DC: World Bank, Cofinancing and Financial Advisory Services Department.
- Balassa, B. (1971), *The Structure of Protection in Developing Countries*. Baltimore: Johns Hopkins U. Press, 1971.
- Bhagwati, J. (1978), *Foreign Trade Regimes and Economic Development*. Vol. 11. *Anatomy and Consequences of Exchange Control Regimes*. Lexington, MA: Ballinger, 1978.
- Bouton, L. and M.A. Sumlinski (1997), *Trends in Private Investment in Developing Countries: Statistics for 1970-95*. Washington, DC: International Finance Corporation.
- Boye, G.R. and M.J. Lord (1995), *Trading and Investing in Kazakhstan: Policies and Practices*. Almaty: USAID Regional Mission for Central Asia.
- Boye, G.R. and M.J. Lord (1995), *Guidelines for Kazakhstan's Accession to the WTO*. Almaty: USAID Regional Mission for Central Asia.
- Boye, G.R. and M.J. Lord (1996), *The Economic Impact of WTO Membership on Kazakhstan*. Almaty: USAID Regional Mission for Central Asia.
- Boye, G.R., M.J. Lord, S. Alzhanova, and A. Moiseev (1996), *The Economic Impact of WTO Membership on Kazakhstan*. Almaty: USAID/Central Asia. Report prepared for the Ministry of Economy of the Republic of Kazakhstan.
- Breither, M. (1997). 'Overview of the Machinery-Tool Industry in Russia'. Washington, DC: Foreign Commercial Service and US Department of State.

- Central Intelligence Service (1997), *Kazakhstan*. [Online]. Available: www.odci.gov/cia/publications/nsolo/factbook/kz.htm [No date].
- Center for Economic Reforms (1997), *Kazakhstan Economic Trends: Second Quarter 1997*. Almaty: Government of Kazakhstan.
- Chen, E. K. Y. (1993). 'Foreign Direct Investment in East Asia', *Asian Development Review* 11(1): 24-59.
- Chen, Z. (1995), 'New Technology, Subsidies, and Competitive Advantage', *Southern Economic Journal*: 63(1).
- Commander, S. and A. Tolstopiatenko (1996), 'Enterprise Restructuring and the Structure of Compensation: Why is Unemployment Low in the FSU?', World Bank mimeo.
- Committee for the Utilization of Foreign Capital Under the Ministry of Finance (1997), *Republic of Kazakhstan: Investor's Guide*. Almaty: Government of Kazakhstan.
- Cummings, S. (1995), 'Market Potential', in CBI, *Doing Business in Kazakhstan*. London: Clifford Chance Ernst & Young, Chase Manhattan, and EBRD.
- De Long, J.B. and L. Summers (1991), 'Equipment Investment and Economic Growth,' *Quarterly Journal of Economics*, 106(2): 445-502.
- Easterly, W. (1993), 'How Much Do Distortions Affect Growth?' *Journal of Monetary Economics*, 32(2): 187-212.
- Ernst & Young (1995), 'Privatization', in CBI, *Doing Business in Kazakhstan*. London: Clifford Chance Ernst & Young, Chase Manhattan, and EBRD.
- Food and Agriculture Organization, (FAO, 1997), *Agrostat PC*. Available: diskette.
- Fukasaku, K. (1991), 'Economic Regionalisation and Intra-Industry Trade: Pacific Asian Perspectives'. Paris: OECD Development Center.
- Galal, A. et al. (1994), *Welfare Consequences of Selling Public Enterprises: An Empirical Analysis*. Washington, DC: World Bank.
- Greene, J. and D. Villanueva (1991), 'Private Investment in Developing Countries: An Empirical Analysis', *IMF Staff Papers* 38(1).
- Japan International Cooperation Agency (JICA, 1996), *The Study on Development of Road Networks in Western Kazakhstan in the Republic of Kazakhstan*. Draft Final Report.

- Japan International Cooperation Agency (JICA, 1997b), *The Study on Air Transport Development in the Republic of Kazakhstan*. Final Report.
- Japan International Cooperation Agency (JICA, 1997c), *The Study of Kzyl-Orda Irrigation/Drainage and Water Management Project in the Republic of Kazakhstan*. Final Report.
- Japan International Cooperation Agency (JICA, 1997d), *The Master Plan Study on Promotion of Non-Ferrous Metal Industry in the Republic of Kazakhstan*. Final Report.
- Kazakhstan Post-Privatization Fund (1997a), *Investment Guide to Kazakhstan - Winter 1997*. [Online]. Available: www.kazecon.kz/Global/index.htm [Winter 1997].
- Kazakhstan Post-Privatization Fund (1997b), *The view of the EBRD-GMIV Kazakhstan Post Privatisation Fund*. [Online]. Available: www.kazecon.kz/Global/Page_1/page_1_1.html [no date].
- Krueger, A.O. (1978), *Foreign Trade Regimes and Economic Development*. Vol. 10. *Liberalization Attempts and Consequences*. Lexington, MA: Ballinger, 1978.
- Meggison, W.L., R.C. Nash and M. Van Randenborgh (1994), 'The Financial and Operating Performance of Newly Privatized Firms: An International Empirical Analysis', *Journal of Finance* 49(2).
- Miller, R.R., *et al.* (1997), 'International Joint Ventures in Developing Countries: Happy Marriages? Statistics for 1970-95'. Discussion Paper No. 26. Washington, DC: International Finance Corporation.
- Murray, T. (1987), 'Post-War Industrialization: Patterns and Performance'. World Bank background paper. Washington, DC: World Bank.
- Little, I.M. D, T. Scitovsky, and M. Scott (1970). *Industry and Trade in Some Developing Countries*. London: Oxford U. Press.
- Lord, M.J. *et al.* (1995), *A Macroeconomic Model for Kazakhstan: A Policy-Oriented Framework and Preliminary Results*. Almaty: National Bank of Kazakhstan, Office of Monetary Policy Research.
- Lord, M.J. (1991), *Imperfect Competition and International Commodity Trade: Theory, Dynamics, and Policy Modelling*. Oxford: Clarendon Press, 1991.
- Maltsev, Y. (1996), 'Large Scale Investment in Kazakhstan (A guide to Some Pitfalls)', in Anglo Caspian Services Ltd, *Caspian*. London: ICON Reproduction.

- Marchenko, G.A. (1997), *The Development of the Corporate Securities Market in Kazakhstan*. [Online]. Available: www.kazecon.kz/English/tender3.htm [June 1997].
- National Statistical Agency (1996a), *Transport*. Almaty: Government of the Republic of Kazakhstan.
- National Statistical Agency (1996b), *Industry*. Almaty: Government of the Republic of Kazakhstan.
- National Statistical Agency (1996c), *Statistical Yearbook of Kazakhstan*. Almaty: Government of the Republic of Kazakhstan.
- National Statistical Agency (1996d), *Kazakhstan and CIS Countries*. Almaty: Government of the Republic of Kazakhstan.
- National Statistical Agency (1997a), *Statistical Press Bulletin, No.3*. Almaty: Government of the Republic of Kazakhstan.
- National Statistical Agency (1997b), *Statistical Review of Kazakhstan, No.2*. Almaty: Government of the Republic of Kazakhstan.
- National Statistical Agency (1997c), *Statistical Bulletin No. 2*. Almaty: Ministry of Economics and Trade of the Republic of Kazakhstan.
- OECD (1996), *Competition Policy and the Agro-Food Sector*. Paris: Directorate for Food, Agriculture and Fisheries. Organization for Economic Co-Operation and Development
- Porter, M.E. (1990), *The Competitive Advantage of Nations*. London: MacMillan Press.
- Ramstetter, E. D. (1993). 'Prospects for Foreign Firms in Developing Economies of the Asian and Pacific Region', *Asian Development Review* 11(1): 151-185.
- Roderik, R. (1996), 'Understanding Economic Policy Reform', *Journal of Economic Literature* 34: 9-41.
- Sader, F. (1995), 'Privatizing Public Enterprises and Foreign Investment in Developing Countries, 1988-93'. Occasional Paper 5. Washington, DC: World Bank. Foreign Investment Advisory Service.
- State Committee on Investment (1997), *Investor's Guide '97*. Almaty: Government of Kazakhstan and RFB Joint Venture.
- United Nations (UN, 1995), *Kazakhstan: The Challenge of Transition*. Human Development Report. New York.

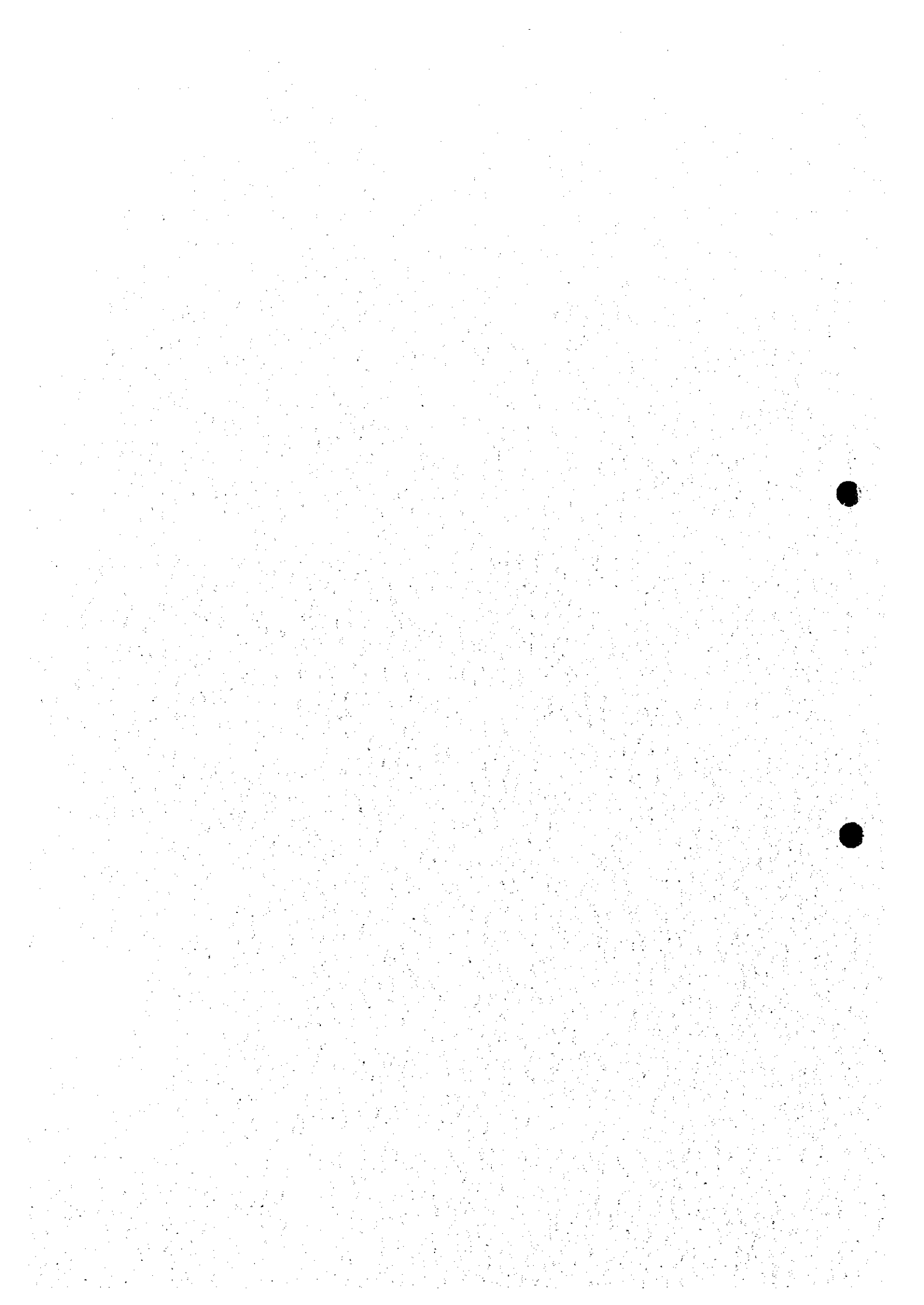
- United States Embassy (1997a), *Country Commercial Guide: Kazakhstan*. Almaty, Kazakhstan.
- United States Embassy (1997b), *Investment Climate in Kazakhstan*. Almaty, Kazakhstan.
- USAID (1996), *USAID Country Profile: Kazakhstan -- October, 1996*. Almaty: USAID/Central Asia Regional Mission.
- USDA (1996), *Kazakhstan Agricultural Situation*. Washington, DC: United States Department of Agriculture, Foreign Agricultural Service.
- Vanek, K., G. Davy, and R. Boldracchi (1995), *Improvement and Reorganisation of Production and Servicing of Farm and Agro-Industrial Machinery and Equipment (A&F/KAZ9302)*. Almaty: Commission of the European Communities, Director General of External Economic Relations. DGI. TACIS Operational Service.
- Warr, P.G.(1994) 'Comparative and Competitive Advantage', *Asian Pacific Economic Literature* 8(2).
- Windell, J., R. Anker, and G. Sziraczki (1996) 'Kyrgystan: Enterprise Restructuring and Labour Shedding in a Free-Fall Economy, 1991-1994', *Labor Market Papers* 5, Employment Dept., ILO (Geneva).
- World Bank (1993), *The East Asian Miracle: Economic Growth and Public Policy*. New York: Oxford University Press for the World Bank.
- World Bank (1994). *East Asia's Trade and Investment: Regional and Global Gains from Liberalization*. Office of the Vice President, East Asia and Pacific Region, Washington, DC.
- World Bank (1996a), *World Development Indicators*. Available: CD-ROM.
- World Bank (1996b), *Kazakhstan Overview*. Washington, DC.
- World Bank (1997a), *Kazakhstan: Transition of the State*. Washington, DC: International Bank for Reconstruction and Development.
- World Bank (1997b), *From Plan to Market: World Development Report 1996*. New York: Oxford University Press for the World Bank.
- Yeaple, S., and W. Moskowitz (1995), 'The Literature on Privatization'. Research Paper No. 9514, Federal Reserve Bank of New York.
- IMF Page: http://www.imf.org/search97cgi/s97_cgi.exe?action=View&VdkV
- World Bank: <http://www.worldbank.org/html/extdr/offrep/eca/kz2.htm>

IMF, "Republic of Kazakhstan: Recent Economic Developments" August 19, 1998
<http://www.imf.org/external/pubs/ft/scr/1998/cr9884.pdf>

President office, the Republic of Kazakhstan:
http://www.president.kz/articles/state/state_container.asp?lng=en&art=stategy

Koscikan Ltd., Food Process and Storage [The Second Issue], 1996





JICA