

1998 OUTLOOK OF THE U.S. AND WORLD SUGAR MARKETS

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Abstract

This report evaluates the U.S. and world sugar markets for 1997-2007 by using the World Sugar Policy Simulation Model. This analysis is based on assumptions about general economic conditions, agricultural policies, weather conditions, and technological changes.

Both the U.S. and world sugar economies are predicted to be strong for the next ten years. World demand for sugar is expected to grow faster than world supply, gradually increasing sugar prices. World trade volumes of sugar are expected to expand.

Key words: Sugar, production, exports, consumption, ending stocks.

Highlights

Total world sugar trade is projected to increase by 19.8% between 1997 and 2007 from 23.6 million metric tons to 28.3 million metric tons. World sugar prices also are projected to increase about 33.8% from 7.76 cents/lbs in 1997 to 10.38 cents/lbs in 2007.

U.S. sugar production is predicted to increase 4.5% from 1997 to 2007, and imports to increase 21.9%. This is mainly because of increased U.S. sugar consumption which is predicted to increase 10.8%. Ending stocks also are predicted to increase 16.3% in the United States.

Canada's production is predicted to increase 6.2% from 1997 to 2007. Canada's imports are expected to decrease 3.6%. Consumption is predicted to remain constant, while ending stocks are predicted to increase 5.9%.

Mexico's production is expected to increase 14.9% from 1997 to 2007 and imports to increase 74.5%. This is mainly because of increased consumption, which is predicted to increase 28.4%. Ending stocks are predicted to increase 30.5%.

European Union's exports are predicted to decrease 3.1%. Production and consumption are predicted to remain constant.

Production in India is predicted to increase 25.1% and consumption is predicted to increase 27.3%. As a result, India's exports are predicted to decrease 52.7%.

Exporting countries, such as Brazil, Thailand, Australia, and Cuba are predicted to increase their production and exports during the forecasting period.

Most importing countries, such as the former Soviet Union, China, Japan, Korea, and Indonesia are predicted to increase their imports during the forecasting period.

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INTRODUCTION

This report evaluated the United States and world sugar industries for 1998-2007 by using the World Sugar Policy Simulation Model. The model was developed by Benirschka and Koo and is operational at North Dakota State University. The outlook projection for world sugar trade assumes that farm and trade policies adopted by sugar exporting and importing countries remain unchanged. Assumptions regarding macroeconomic variables, such as GDP growth rates, interest rates, inflation rates, exchange rates, and consumer price indices in the United States and other countries, are based on forecasts prepared by the WEFA Group and Project LINK. Average weather conditions and historical rates of technological change are also assumed to prevail during the projection period.

Sugar is produced by two different crops: sugar cane, which is grown in tropical and subtropical climate zones and sugar beets, which is grown in the temperate climate zones. Both crops are processed near growing regions because of high costs of shipping associated with the raw commodity. Sugar cane is processed into raw sugar at local mills and shipped to refineries for processing into refined sugar. Sugar beet is processed into refined sugar at local refineries.

The model contains 7 exporting countries (Australia, Brazil, Cuba, the European Union (EU), India, South Africa, and Thailand) and 11 importing countries and regions (Algeria, Canada, China, Egypt, Indonesia, Japan, Korea, the Former Soviet Union, Mexico, the United States, and Rest of the World region). The model simulates production, consumption, stocks, exports, and trade flows for sugar over a 10-year period. The model is solved for a set of equilibrium sugar prices in which demand for sugar equals supply. The model is linked to the Food Agricultural Policy Research Institute (FAPRI) model and uses the FAPRI model's predicted prices of all agricultural commodities, except sugar.

OUTLOOK FOR THE WORLD SUGAR INDUSTRY

Total world sugar trade is projected to increase by 19.8% from 23.6 million metric tons to 28.3 million metric tons. Except for the EU, India, and South Africa, trade of sugar in most countries increases for 1997-2007. The EU's exports decrease mainly because reductions in EU subsidies under the World Trade Organization (WTO) will make EU sugar production less competitive. India and South Africa are expected to decrease their exports of sugar mainly because of increases in domestic consumption. Sugar consumption in India and South Africa is expected to increase faster than production.

Figure 1 shows the Caribbean price of sugar. World sugar prices are projected to increase about 33.8%, from 7.76 cents/lbs in 1997 to 10.38 cents/lbs in 2007. Increasing demand for sugar will raise the world price of sugar.

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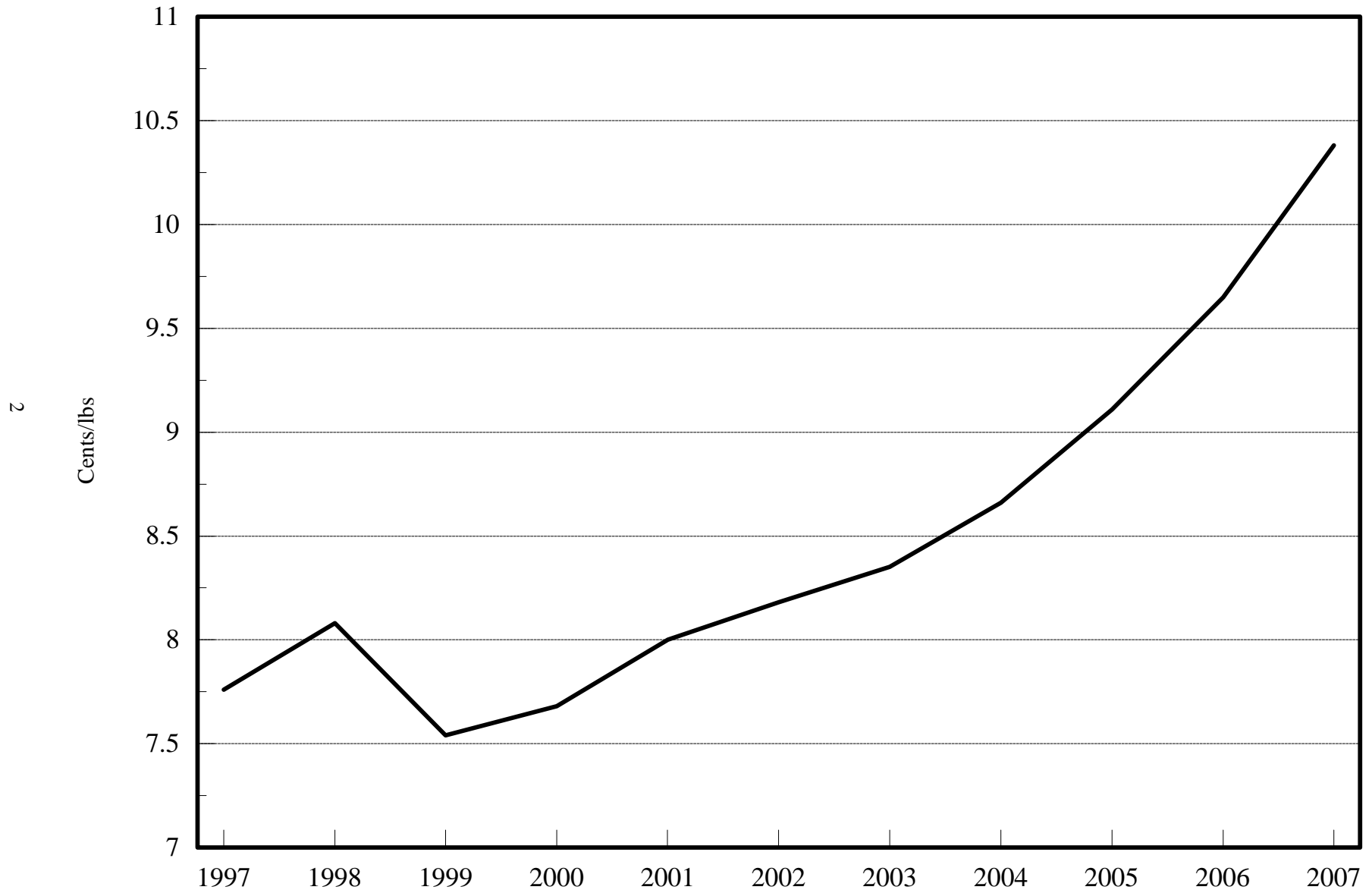


Figure 1. World Sugar Price, Caribbean

United States

Table 1 shows production, consumption, imports, and ending stocks for the United States. U.S. sugar production is predicted to increase 4.5%, from 6.8 million metric tons in 1997 to 7.1 million metric tons in 2007, and imports to increase 21.9% (Figure 2). The import price for U.S. sugar is projected to decrease from 20.19 cents/lbs in 1997 to 16.81 cents/lbs in 2007. The main reason for the decrease is a decrease in the implicit tariff rate from 11.94 cents/lbs in 1997 to 4.79 cents/lbs in 2007. The United States will continue to import over 23% of the sugar it consumes. U.S. sugar consumption is predicted to increase 10.8%, from 8.7 million metric tons in 1997 to 9.6 million metric tons in 2007, while ending stocks are predicted to increase 16.3% (Figure 3).

Table 1. U.S. Sugar production, consumption, exports, and carry-over stocks, various years

	average (1992-1996)	1997	2007	% change (1997-2007)
-----thousand metric tons-----				
<u>United States</u>				
Production	6,734	6,821	7,124	4.45
Net Imports	1,611	2,035	2,481	21.88
Consumption	8,337	8,662	9,596	10.79
Carry-over Stocks	1,202	1,556	1,687	16.32

Exporters

Figure 4 shows predicted exports for 1997 to 2007. The European Union's exports are predicted to decrease 3.0% from 3.8 million metric tons in 1997 to 3.7 million metric tons in 2007 (Table 2), mainly because EU sugar production will become less competitive with the reduced subsidies under the WTO. Production and consumption are predicted to remain constant at 16.8 million and 13.1 million metric tons, respectively.

India's production is predicted to increase 25.1% from 16.8 million metric tons in 1997 to 20.9 million metric tons in 2007. However, its exports are predicted to decrease 52.7% from 2.8 million metric tons in 1997 to 1.3 million metric tons in 2007 mainly because consumption is expected to increase 27.3% from 15.4 million metric tons in 1997 to 19.6 million metric tons in 2007.

Brazil's production is predicted to increase 15.1% from 12.0 million metric tons in 1997 to 13.8 million metric tons in 2007. Brazil's exports are predicted to increase 32.5% from 3.2 million metric tons in 1997 to 4.2 million metric tons in 2007 (Table 2), due mainly to increased consumption. Consumption is predicted to increase 10.1% from 8.7 million metric tons in 1997 to 9.6 million metric tons in 2007.

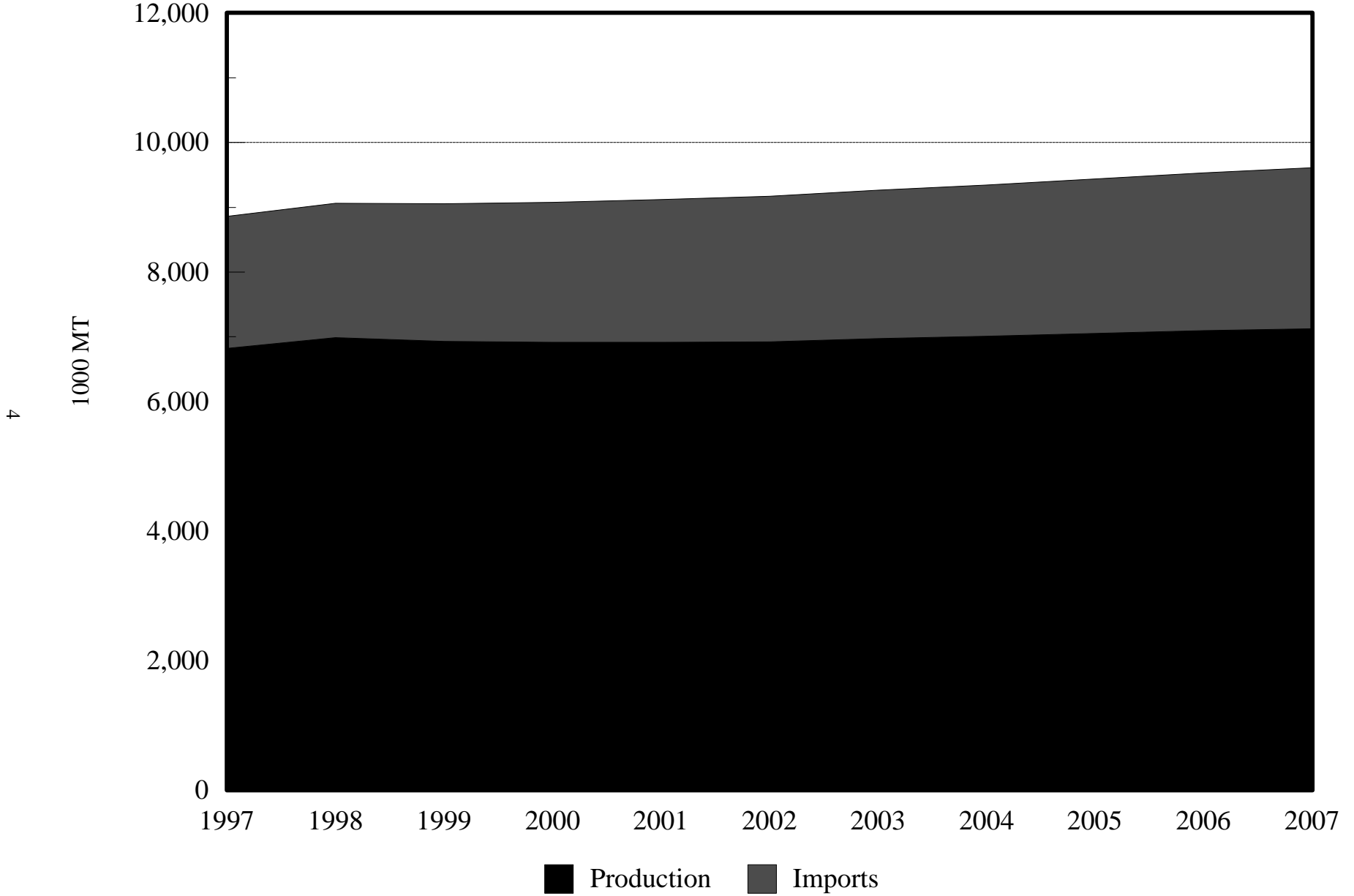


Figure 2. United States Sugar Production and Imports

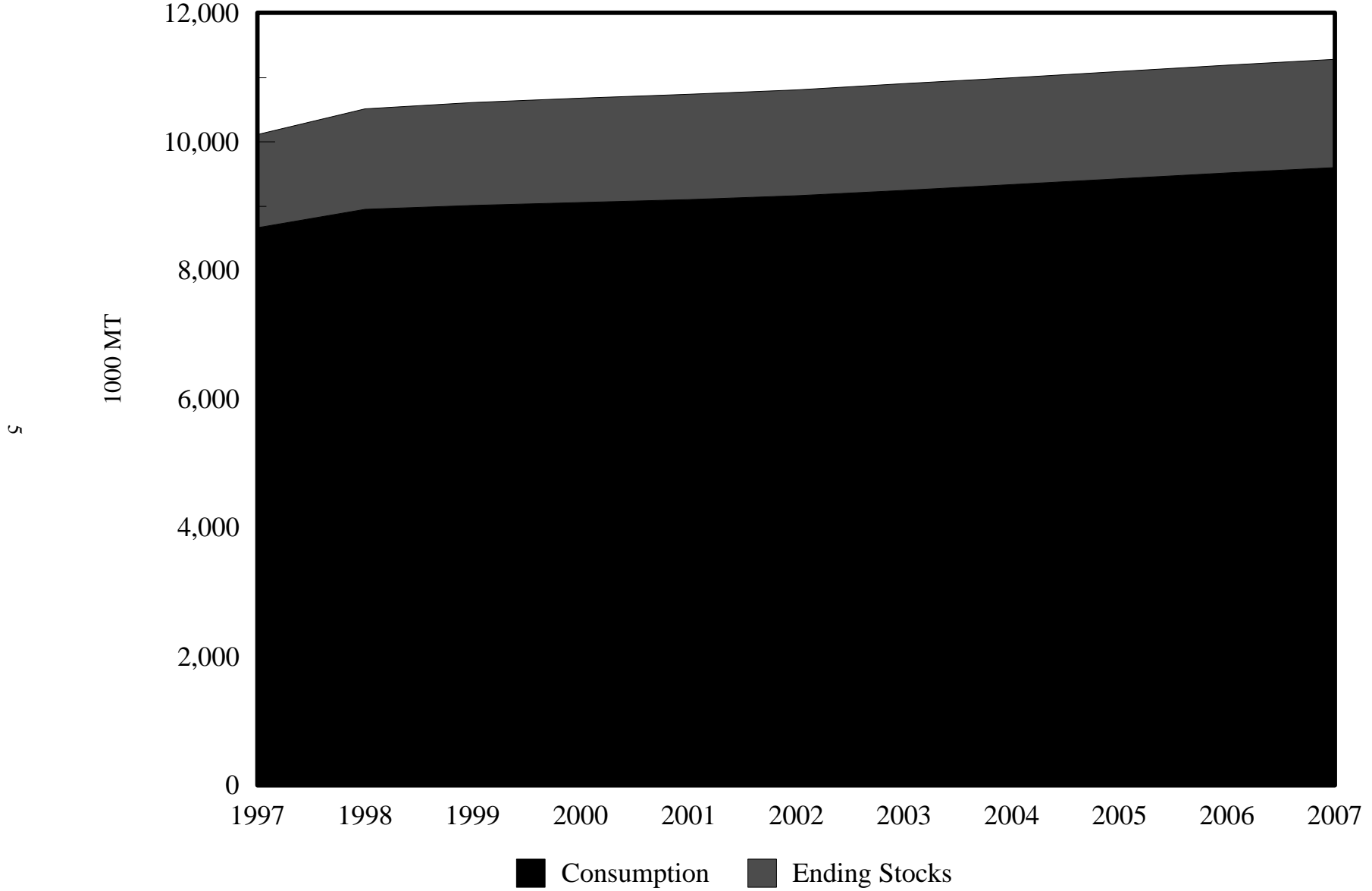


Figure 3. United States Sugar Consumption and Ending Stocks

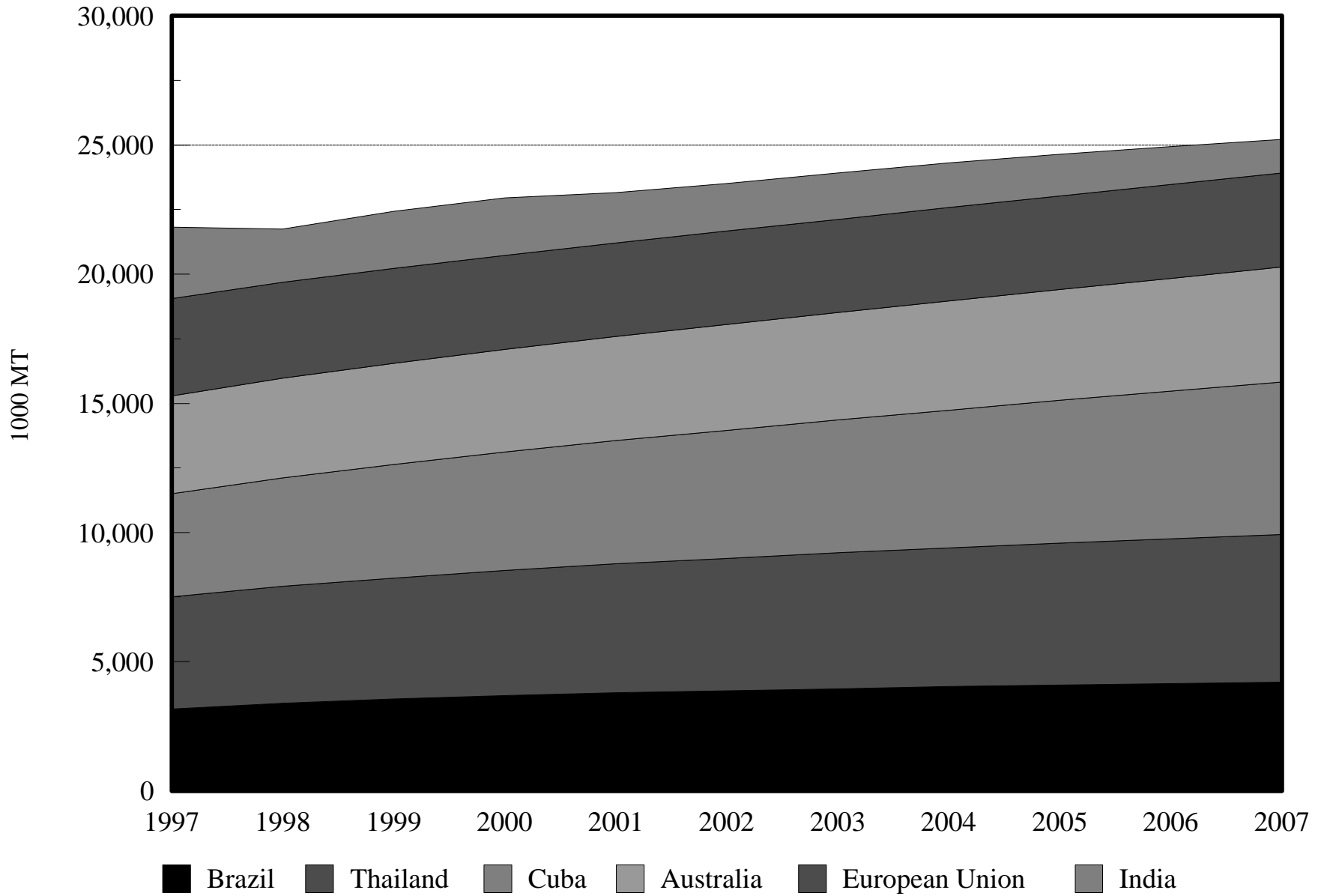


Figure 4. World Sugar Exports, by Country

Table 2. Sugar production, consumption, exports, and carry-over stocks in exporting countries

	average (1992-1996)	1997	2007	% change (1997-2007)
-----thousand metric tons-----				
<u>European Union</u>				
Production	16,748	16,784	16,790	0.04
Net Exports	3,369	3,759	3,646	-3.01
Consumption	13,322	13,110	13,150	0.31
Carry-over Stocks	2,504	2,536	2,461	-2.96
<u>India</u>				
Production	15,144	16,756	20,953	25.05
Net Exports	183	2,765	1,307	-52.73
Consumption	14,538	15,396	19,604	27.33
Carry-over Stocks	5,346	5,955	4,974	-16.47
<u>Brazil</u>				
Production	11,280	11,954	13,761	15.12
Net Exports	3,099	3,174	4,204	32.45
Consumption	8,220	8,684	9,563	10.12
Carry-over Stocks	661	847	905	6.85
<u>Thailand</u>				
Production	5,086	5,711	7,652	33.99
Net Exports	3,223	4,341	5,715	31.65
Consumption	1,795	1,445	1,916	32.60
Carry-over Stocks	515	571	649	13.66
<u>Australia</u>				
Production	4,863	4,816	5,562	15.49
Net Exports	3,864	3,798	4,443	16.98
Consumption	981	997	1,134	13.74
Carry-over Stocks	209	307	213	-30.62
<u>Cuba</u>				
Production	4,146	4,766	6,774	42.13
Net Exports	3,393	3,978	5,903	48.39
Consumption	757	763	892	16.91
Carry-over Stocks	316	505	334	-33.86
<u>South Africa</u>				
Production	1,746	2,283	2,612	14.41
Net Exports	359	882	796	-9.75
Consumption	1,389	1,402	1,796	28.10
Carry-over Stocks	346	314	430	36.94

Thailand's exports are predicted to increase 31.7% from 4.3 million metric tons in 1997 to 5.7 million metric tons in 2007 (Table 2) due mainly to increased production. Production is predicted to increase 34.0% from 5.7 million metric tons in 1997 to 7.7 million metric tons in 2007. Consumption also is predicted to increase 32.6% from 1.4 million metric tons in 1997 to 1.9 million metric tons in 2007, while ending stocks are predicted to increase 14%.

Australia's exports are predicted to increase 17.0% from 3.8 million metric tons in 1997 to 4.5 million metric tons in 2007 (Table 2), due mainly to increased production. Production is predicted to increase 15.5% from 4.8 million metric tons in 1997 to 5.6 million metric tons in 2007. Consumption also is expected to increase 13.7% from 1.0 million metric tons in 1997 to 1.1 million metric tons in 2007.

Cuba's exports are predicted to increase 48.4% from 4.0 million metric tons in 1997 to 5.9 million metric tons in 2007 (Table 2). It is predicted that Cuba will increase its sugar production from 4.8 million metric tons in 1997 to 6.8 million metric tons in 2007. Cuba's consumption is predicted to increase 16.9%, from 0.8 million metric ton in 1997 to 0.9 million metric tons in 2007.

Importers

Figures 5 and 6 show the sugar imports for the major importers of the world. Canada's production is predicted to increase 6.2% from 0.16 million metric tons in 1997 to 0.17 million metric tons in 2007. As a result, Canada's imports are predicted to decrease 3.6% from 1.2 million metric tons in 1997 to 1.1 million metric tons in 2007. Consumption is predicted to remain constant at 1.3 million metric tons, and ending stocks are predicted to increase 6.0%.

Mexico's production is predicted to increase 14.9% from 4.7 million metric tons in 1997 to 5.4 million metric tons in 2007. However, Mexico's imports are predicted to increase 74.5% from 0.2 million metric tons in 1997 to 0.4 million metric tons in 2007, due mainly to increased consumption. Consumption also is predicted to increase 28.4% from 4.7 million metric tons in 1997 to 6.0 million tons in 2007. Ending stocks are predicted to increase 30.5%.

The Former Soviet Union's production is predicted to increase 11.1% from 6.0 million metric tons in 1997 to 6.8 million metric tons in 2007 and consumption also is predicted to increase 27.2% from 9.6 million metric tons in 1997 to 12.3 million metric tons in 2007. Its imports are predicted to increase 58.8% from 3.5 million metric tons in 1997 to 5.6 million metric tons in 2007 (Table 3), due mainly to increased consumption.

China is expected to increase its imports 102.8% from 0.3 million metric tons in 1997 to 2.7 million metric tons in 2007 (Table 3) due mainly to much faster increase in consumption compared to production. China's production is predicted to increase 27.4% from 7.3 million metric tons in 1997 to 9.3 million metric tons in 2007, while consumption is predicted to increase 38.7% from 8.6 million metric tons in 1997 to 11.9 million metric tons in 2007.

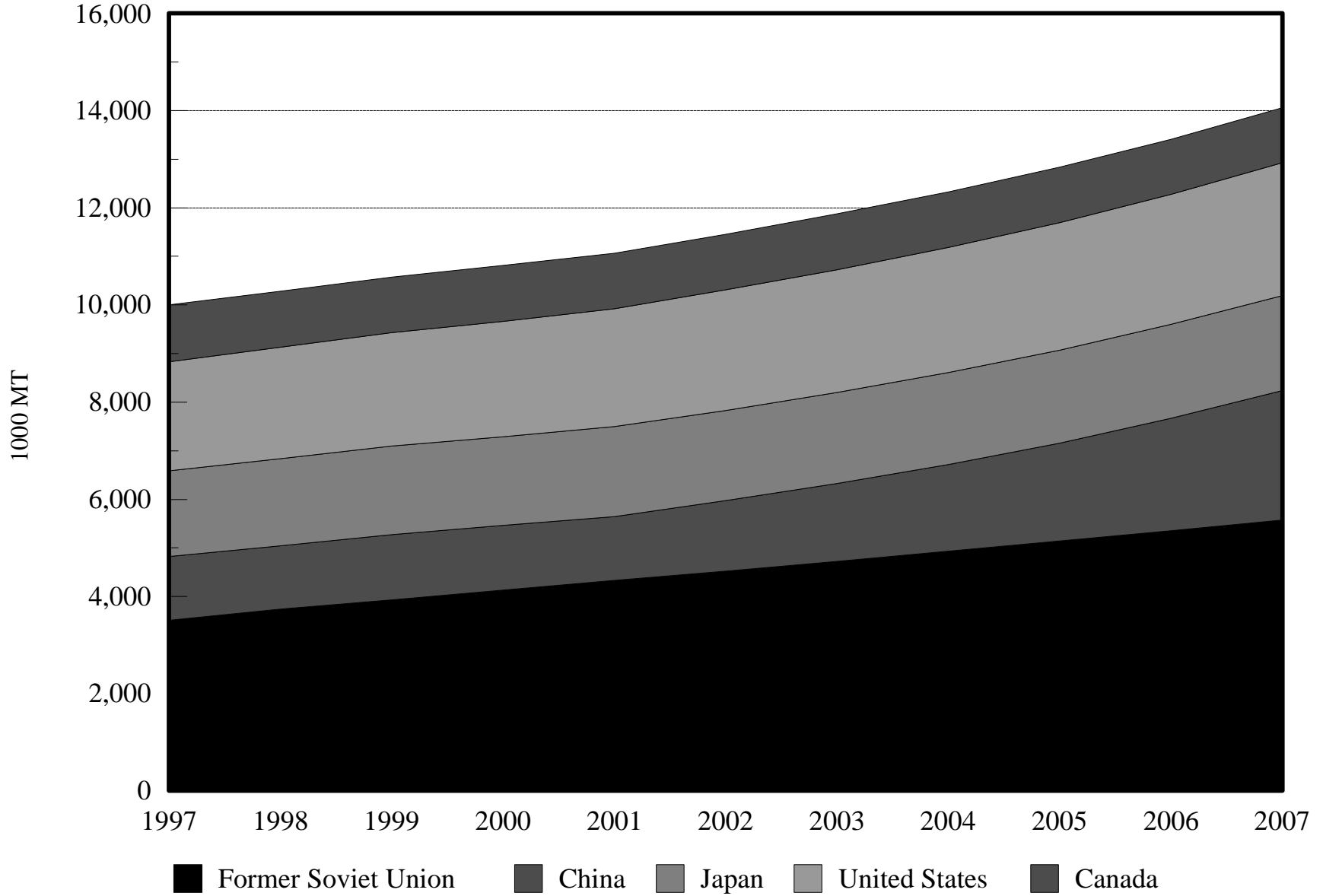


Figure 5. World Sugar Importers, by Country

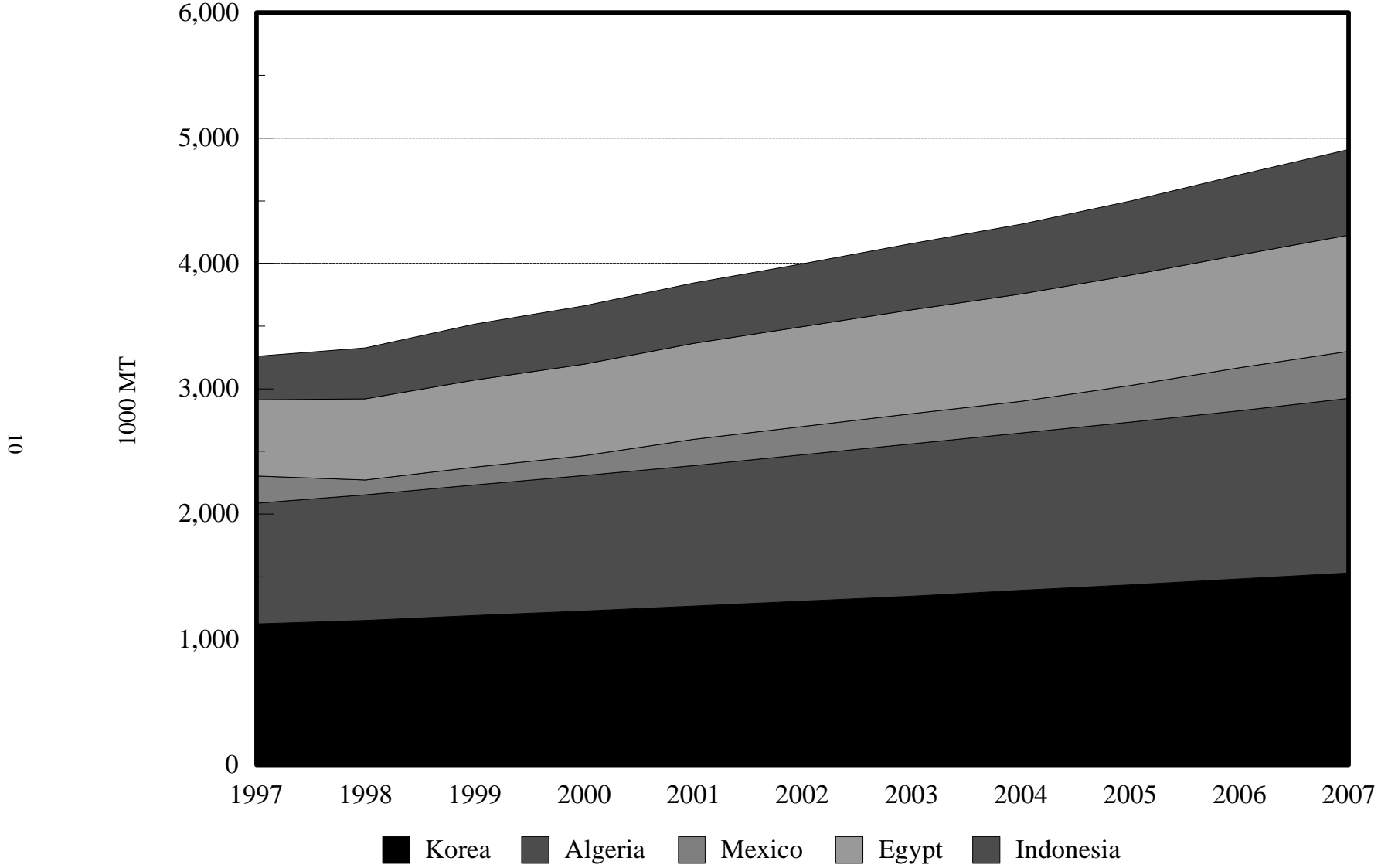


Figure 6. World Sugar Importers, by Country

Japan's imports are predicted to increase 10.8% from 1.8 million metric tons in 1997 to 2.0 million metric tons in 2007 due mainly to increased consumption. Consumption is predicted to increase 3.5% from 2.7 million metric tons in 1997 to 2.8 million metric tons in 2007 (Table 3).

In Korea, consumption is predicted to increase 37.1% from 1.1 million metric tons in 1997 to 1.5 million metric tons in 2007. As a result, Korea's imports are predicted to increase 36.4% from 1.1 million metric tons in 1997 to 1.5 million metric tons in 2007.

In Algeria, consumption is predicted to increase 44.2% from 1.0 million metric tons in 1997 to 1.4 million metric tons in 2007. This increase in consumption resulted in increased imports from 1.0 million metric tons in 1997 to 1.4 million metric tons in 2007.

Egypt's imports are predicted to increase 51.8% from 0.6 million metric tons in 1997 to 0.9 million metric tons in 2007 due mainly to increased consumption. Consumption is predicted to increase 19.5% from 1.9 million metric tons in 1997 to 2.2 million metric tons in 2007.

Indonesia's imports are predicted to increase 97.7% from 0.3 million metric tons in 1997 to 0.7 million metric tons in 2007 due mainly to increased consumption. Consumption is predicted to increase 33.7% from 2.8 million metric tons in 1997 to 3.7 million metric tons in 2007 (Table 3).

Table 3. Sugar production, consumption, exports, and carry-over stocks in importing countries

	average (1992-1996)	1997	2007	% change (1997-2007)
-----thousand metric tons-----				
<u>Canada</u>				
Production	143	161	171	6.21
Net Imports	1,102	1,171	1,129	-3.59
Consumption	1,246	1,308	1,300	-0.61
Carry-over Stocks	153	236	250	5.93
<u>Mexico</u>				
Production	4,389	4,717	5,418	14.86
Net Imports	92	216	377	74.54
Consumption	4,549	4,649	5,969	28.39
Carry-over Stocks	643	854	1,115	30.56
<u>Former Soviet Union</u>				
Production	6,533	6,050	6,724	11.14
Net Imports	3,350	3,508	5,572	58.84
Consumption	10,013	9,613	12,224	27.16
Carry-over Stocks	2,000	1,602	2,211	38.01
<u>China</u>				
Production	7,017	7,266	9,256	27.39
Net Imports	776	1,316	2,669	102.81
Consumption	7,800	8,613	11,942	38.65
Carry-over Stocks	1,473	1,938	1,997	3.04
<u>Japan</u>				
Production	892	880	825	-6.25
Net Imports	1,673	1,761	1,951	10.79
Consumption	2,556	2,680	2,775	3.54
Carry-over Stocks	163	117	73	-37.61
<u>Korea</u>				
Carry-in Stocks	113	150	212	41.33
Net Imports	1,035	1,123	1,532	36.42
Consumption	1,025	1,116	1,530	37.10
Carry-over Stocks	123	157	214	36.31

Table 3. Continued

	average (1992-1996)	1997	2007	% change (1997-2007)
-----thousand metric tons-----				
<u>Algeria</u>				
Production	10	12	17	41.67
Net Imports	903	965	1,391	44.15
Consumption	914	976	1,407	44.16
Carry-over Stocks	109	112	120	7.14
<u>Egypt</u>				
Production	1,161	1,264	1,307	3.40
Net Imports	535	608	923	51.81
Consumption	1,694	1,863	2,227	19.54
Carry-over Stocks	179	197	242	22.84
<u>Indonesia</u>				
Production	2,361	2,470	3,081	24.74
Net Imports	267	347	686	97.69
Consumption	2,630	2,821	3,771	33.68
Carry-over Stocks	432	445	418	-6.07

CONCLUDING REMARKS

This report evaluates the U.S. and world sugar markets for 1997-2007 by using the World Sugar Policy Simulation Model. The baseline projections are based on a series of assumptions about general economic conditions, agricultural policies, the weather, and technological change.

Total world sugar trade is projected to increase by 19.8% from 23.6 million metric tons in 1997 to 28.3 million metric tons in 2007. The price of Caribbean sugar also is expected to increase about 34%, because world consumption of sugar will increase faster than world production.

U.S. sugar production, imports, consumption, and ending stocks are predicted to increase for the forecasting period. The import price of U.S. sugar is projected to decrease from 20.19 cents/lbs in 1997 to 16.81 cents/lbs in 2007. The main reason for the drop is a decrease in the implicit tariff rate from 11.94 cents/lbs in 1997 to 4.79 cents/lbs in 2007.

Canada's production and ending stocks are predicted to increase for the forecasting period. Canada's imports are predicted to decrease, while consumption is predicted to remain constant. Mexico's production, consumption, imports, and ending stocks are predicted to increase for the forecasting period.

Exports are predicted to increase for Brazil, Thailand, Australia, and Cuba, while exports are predicted to decrease for the EU and India. Production in the EU is predicted to remain constant and consumption in India will increase faster than production over the forecasting period.

It is predicted that imports for all importing countries will increase over the forecasting period. China's imports are predicted to increase 102.8%, while Japan's imports are predicted to increase only 10.8%. Korea's imports are predicted to increase 36.4% and Algeria's imports are predicted to increase 44.2%. Imports by other countries, such as the former Soviet Union, Egypt and Indonesia are predicted to increase over 50% for the forecasting period.

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Appendix

World Sugar Policy Simulation Model

1998 Baseline Solution

United States

Area Harvested (1000 hectares)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	552	556	550	548	547	545	544	545	546	547	548	546
Sugarcane	346	346	365	359	356	356	356	358	360	363	365	368
Total Area	899	902	916	907	903	900	900	903	906	910	913	914

Yields (metric tons/hectares)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	57.11	57.61	57.94	58.19	58.43	58.65	58.90	59.12	59.34	59.59	59.81	60.06
Sugarcane	92.07	92.38	92.57	92.65	92.71	92.73	92.76	92.76	92.79	92.79	92.79	92.79

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	1230	1256	1450	1556	1600	1621	1633	1642	1650	1659	1668	1678
Production	6600	6821	6982	6932	6916	6912	6925	6968	7006	7053	7095	7124
Net Imports	1995	2035	2076	2118	2160	2203	2248	2292	2338	2385	2433	2481
Consumptio	8569	8662	8951	9007	9055	9104	9163	9250	9335	9428	9518	9596
∞ Carry-out S	1256	1450	1556	1600	1621	1633	1642	1650	1659	1668	1678	1687

Per Capita Sugar Consumption (kg) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	32.36	32.42	33.22	33.14	33.04	32.95	32.90	32.95	32.99	33.05	33.11	33.11
Stocks/Con	14.66	16.74	17.39	17.77	17.9	17.93	17.92	17.84	17.77	17.69	17.62	17.58

Australia**Sugarcane Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric ton**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	367	365	368	372	376	381	387	392	397	403	409	415
Yield	88	88	88	88	88	89	89	89	89	89	89	89
Production	32225	32110	32405	32837	33280	33768	34295	34831	35371	35925	36495	37079

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	200	285	307	308	306	301	295	284	271	257	243	229
Production	5156	4816	4861	4926	4992	5065	5144	5225	5306	5389	5474	5562
Net Exports	4094	3798	3848	3904	3962	4027	4095	4161	4228	4297	4369	4443
Consumptio	977	997	1011	1025	1035	1044	1061	1076	1091	1106	1120	1134
Carry-out S	285	307	308	306	301	295	284	271	257	243	229	213

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	53.62	54.16	54.44	54.66	54.73	54.76	55.14	55.51	55.86	56.19	56.5	56.8
Stocks/Con	29.14	30.78	30.5	29.83	29.07	28.21	26.75	25.19	23.59	21.99	20.4	18.8

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Brazil**Sugar Supply and Utilization (1000 metric tons, raw value)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	510	752	847	885	905	913	916	917	918	916	914	910
Production	11768	11954	12135	12311	12490	12671	12850	13031	13212	13394	13577	13761
Net Exports	2854	3174	3392	3545	3683	3787	3866	3954	4030	4098	4156	4204
Consumptio	8672	8684	8706	8746	8799	8881	8983	9076	9183	9299	9425	9563
Carry-out S	752	847	885	905	913	916	917	918	916	914	910	905

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	51.91	51.41	51	50.73	50.56	50.58	50.72	50.82	50.99	51.23	51.52	51.87
Stocks/Con	8.68	9.76	10.16	10.34	10.37	10.31	10.21	10.11	9.98	9.83	9.66	9.47

Cuba**Sugarcane Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	1168	1151	1180	1210	1242	1273	1304	1335	1366	1397	1428	1458
Yield	37	38	39	39	40	40	40	41	41	42	42	42
Production	42955	43567	45507	47371	49206	50991	52769	54565	56379	58209	60056	61922

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	400	480	505	505	493	476	457	437	417	396	375	355
Production	4699	4766	4978	5182	5383	5578	5773	5969	6168	6368	6570	6774
Net Exports	3865	3978	4203	4397	4589	4774	4956	5139	5326	5515	5707	5903
Consumptio	755	763	775	796	811	823	837	850	863	874	884	892
Carry-out S	480	505	505	493	476	457	437	417	396	375	355	334

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	68.61	68.89	69.59	71.06	71.91	72.61	73.44	74.26	74.97	75.56	76.05	76.39
Stocks/Con	63.5	66.12	65.08	61.92	58.78	55.58	52.27	49.02	45.92	42.97	40.14	37.44

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European Union**Sugar Beet Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	2048	2047	2051	2052	2050	2049	2049	2049	2049	2049	2050	2051
Yield	51.62	51.23	51.18	51.18	51.17	51.17	51.17	51.17	51.17	51.17	51.17	51.17
Production	105715	104898	104970	104996	104900	104876	104882	104877	104870	104878	104903	104939

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	2656	2621	2536	2494	2478	2472	2470	2470	2470	2470	2469	2466
Production	16914	16784	16795	16799	16784	16780	16781	16780	16779	16781	16784	16790
Net Exports	3149	3759	3718	3682	3644	3623	3613	3607	3606	3612	3626	3646
Consumptio	13801	13110	13120	13132	13146	13159	13168	13173	13174	13170	13162	13150
Carry-out S	2621	2536	2494	2478	2472	2470	2470	2470	2470	2469	2466	2461

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	39.28	37.19	37.1	37.01	36.92	36.83	36.74	36.65	36.57	36.48	36.39	36.3
Stocks/Con	18.99	19.35	19.01	18.87	18.81	18.77	18.76	18.75	18.75	18.75	18.73	18.71

India

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	7710	7359	5955	5414	5116	4779	4725	4748	4793	4840	4886	4932
Production	16925	16756	16900	17191	17576	18016	18481	18960	19448	19944	20445	20953
Net Exports	2143	2765	2067	2216	2219	1938	1846	1794	1724	1621	1481	1307
Consumptio	15132	15396	15374	15273	15695	16132	16612	17121	17677	18277	18918	19604
Carry-out S	7359	5955	5414	5116	4779	4725	4748	4793	4840	4886	4932	4974

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	15.44	15.46	15.2	14.88	15.07	15.27	15.5	15.76	16.06	16.39	16.75	17.14
Stocks/Con	48.63	38.68	35.22	33.5	30.45	29.29	28.59	28	27.38	26.73	26.07	25.37

South Africa

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Sugarcane Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	307	308	311	315	319	323	328	333	338	343	348	353
Yield	64.26	62.26	62.26	62.26	62.26	62.26	62.26	62.26	62.26	62.26	62.26	62.26
Production	19735	19189	19362	19593	19853	20133	20426	20725	21028	21334	21641	21952

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	370	315	314	323	337	345	359	375	379	383	395	409
Production	2348	2283	2304	2332	2362	2396	2431	2466	2502	2539	2575	2612
Net Exports	1010	882	858	840	850	828	809	845	865	852	841	796
Consumptio	1393	1402	1437	1478	1505	1554	1606	1618	1632	1674	1721	1796
Carry-out S	315	314	323	337	345	359	375	379	383	395	409	430

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	33.23	32.93	33.26	33.78	33.99	34.74	35.61	35.6	35.73	36.5	37.41	38.97
Stocks/Con	22.63	22.4	22.5	22.78	22.92	23.1	23.32	23.42	23.49	23.61	23.75	23.93

Thailand

Sugar Cane Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	978	1025	1066	1102	1133	1162	1189	1214	1238	1261	1283	1305
Yield	55.36	55.71	56.02	56.32	56.61	56.89	57.18	57.47	57.76	58.04	58.33	58.62
Production	54116	57107	59740	62045	64150	66118	67977	69754	71478	73171	74847	76519

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	586	647	571	540	531	534	543	557	572	590	608	628
Production	5953	5711	5974	6204	6415	6612	6798	6975	7148	7317	7485	7652
Net Exports	3867	4341	4523	4692	4848	4995	5131	5257	5378	5494	5606	5715
Consumptio	2025	1445	1482	1522	1564	1608	1654	1702	1753	1805	1859	1916
Carry-out S	647	571	540	531	534	543	557	572	590	608	628	649

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	33.28	23.52	23.88	24.3	24.75	25.21	25.71	26.25	26.81	27.39	27.99	28.64
Stocks/Con	31.93	39.52	36.46	34.88	34.13	33.8	33.67	33.62	33.64	33.7	33.78	33.86

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Canada

Sugar Beet Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	26	26	25	25	25	25	25	25	25	25	25	25
Yield	41.92	42.36	42.79	43.21	43.64	44.07	44.49	44.92	45.35	45.77	46.2	46.62
Production	1095	1082	1089	1096	1098	1103	1109	1117	1124	1133	1142	1152

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	150	212	236	245	249	250	251	251	251	251	251	250
Production	163	161	162	163	163	164	165	166	167	168	169	171
Net Imports	1204	1171	1156	1148	1145	1144	1144	1143	1141	1138	1134	1129
Consumptio	1304	1308	1308	1307	1307	1307	1308	1308	1308	1306	1303	1300
Carry-out S	212	236	245	249	250	251	251	251	251	251	250	250

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	43.58	43.25	42.83	42.39	41.97	41.62	41.28	40.94	40.58	40.2	39.8	39.39
Stocks/Con	16.27	18.07	18.76	19.03	19.14	19.17	19.18	19.19	19.2	19.21	19.22	19.23

Mexico**Sugarcane Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	572	583	591	599	605	611	617	622	627	632	638	643
Yield	73.41	73.56	73.83	74.13	74.45	74.76	75.07	75.39	75.7	76.02	76.33	76.64
Production	42010	42881	43666	44382	45046	45677	46288	46889	47484	48076	48667	49259

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	431	570	854	1010	1152	1283	1411	1488	1514	1479	1403	1289
Production	4621	4717	4803	4882	4955	5024	5092	5158	5223	5288	5353	5418
Net Imports	85	216	118	140	156	209	225	244	256	292	340	377
Consumptio	4567	4649	4765	4880	4980	5105	5240	5376	5514	5656	5807	5969
Carry-out S	570	854	1010	1152	1283	1411	1488	1514	1479	1403	1289	1115

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	47.3	47.28	47.6	47.91	48.06	48.46	48.92	49.39	49.87	50.38	50.96	51.61
Stocks/Con	12.48	14.06	14.9	15.41	15.74	15.89	15.99	16.06	16.12	16.16	16.18	16.19

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Algeria**Sugar Beet Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	8	8	9	9	9	10	10	10	10	11	11	11
Yield	19	19	19	19	19	19	19	20	20	20	20	20
Production	147	159	168	176	182	188	194	200	205	211	216	222

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	110	111	112	113	113	114	114	115	116	117	118	119
Production	11	12	13	14	14	15	15	15	16	16	17	17
Net Imports	934	965	1001	1041	1080	1122	1169	1211	1255	1299	1344	1391
Consumptio	944	976	1013	1054	1094	1136	1183	1226	1270	1315	1360	1407
Carry-out S	111	112	113	113	114	114	115	116	117	118	119	120

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	32.35	32.74	33.27	33.9	34.47	35.11	35.82	36.41	36.99	37.58	38.16	38.76
Stocks/Con	11.74	11.46	11.13	10.73	10.38	10.04	9.71	9.44	9.18	8.94	8.72	8.51

China

Area Harvested (1000 hectares)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	809	772	770	796	797	820	834	851	866	883	899	916
Sugarcane	1050	1002	1003	1017	1031	1049	1069	1090	1111	1132	1154	1176
Total Area	1859	1774	1773	1813	1828	1869	1903	1941	1977	2015	2053	2092

Yields (metric tons/hectare)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	19.21	20.55	21.56	22.31	22.82	23.14	23.3	23.32	23.23	23.05	22.78	22.45
Sugarcane	61.74	62.97	63.95	64.75	65.4	65.94	66.4	66.8	67.15	67.46	67.75	68.02

Production (1000 metric tons)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	15530	15857	16602	17752	18194	18977	19425	19838	20117	20340	20485	20568
Sugarcane	64821	63113	64136	65859	67411	69151	71011	72823	74617	76397	78189	79990

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
24 Carry-in Sto	1759	1968	1938	1906	1960	1970	1966	1979	2006	2019	2020	2014
Production	6787	7266	7432	7702	7886	8121	8334	8538	8727	8910	9085	9256
Beet Suga	1553	1586	1660	1775	1819	1898	1942	1984	2012	2034	2049	2057
Cane Sug	5834	5680	5772	5927	6067	6224	6391	6554	6716	6876	7037	7199
Net Imports	1917	1316	1298	1348	1329	1324	1448	1605	1786	2019	2314	2669
Consumptio	8495	8613	8762	8996	9205	9449	9769	10116	10500	10928	11405	11942
Carry-out S	1968	1938	1906	1960	1970	1966	1979	2006	2019	2020	2014	1997

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	6.89	6.92	6.98	7.1	7.21	7.34	7.54	7.75	7.99	8.26	8.57	8.92
Stocks/Con	23.17	22.5	21.75	21.79	21.4	20.81	20.25	19.83	19.22	18.48	17.66	16.72

Egypt

Area Harvested (1000 hectares)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	18	23	22	23	24	24	25	25	26	26	26	27
Sugarcane	126	125	124	123	122	121	121	120	120	120	119	119
Total Area	144	148	146	146	146	145	145	145	145	146	146	146

Yields (metric tons/hectare)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	43.56	44.31	44.8	45.36	45.89	46.44	46.98	47.52	48.06	48.61	49.15	49.69
Sugarcane	110.71	111.21	111.72	112.24	112.78	113.33	113.88	114.44	115.01	115.59	116.16	116.75

Production (1000 metric tons)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	795	1029	1000	1048	1098	1130	1163	1199	1234	1267	1298	1329
Sugarcane	13922	13851	13798	13762	13739	13731	13735	13752	13779	13817	13865	13923

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	178	188	197	204	210	216	220	225	229	232	236	239
Production	1241	1264	1256	1259	1263	1267	1271	1277	1284	1291	1299	1307
Beet Suga	99	128	124	130	137	141	145	149	154	158	162	165
Cane Sug	1142	1136	1131	1128	1127	1126	1126	1128	1130	1133	1137	1142
Net Imports	605	608	651	698	730	762	795	825	853	879	903	923
Consumptio	1836	1863	1900	1951	1988	2024	2062	2098	2133	2166	2198	2227
Carry-out S	188	197	204	210	216	220	225	229	232	236	239	242

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	30.41	30.3	30.33	30.59	30.64	30.65	30.69	30.72	30.71	30.69	30.64	30.57
Stocks/Con	10.25	10.56	10.74	10.78	10.85	10.9	10.91	10.9	10.9	10.89	10.87	10.86

Indonesia**Sugarcane Area Harvested (1000 hectares), Yield (metric tons/hectare), and Production (1000 metric tons)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	394	393	397	404	413	423	434	445	456	467	479	490
Yield	78.52	78.52	78.52	78.52	78.52	78.52	78.52	78.52	78.52	78.52	78.52	78.52
Production	30921	30879	31193	31737	32442	33229	34062	34928	35813	36708	37607	38507

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	484	449	445	443	442	440	437	435	432	429	426	422
Production	2474	2470	2495	2539	2595	2658	2725	2794	2865	2937	3009	3081
Net Imports	278	347	403	442	464	483	503	528	558	593	636	686
Consumptio	2787	2821	2900	2981	3062	3144	3231	3325	3426	3533	3648	3771
Carry-out S	449	445	443	442	440	437	435	432	429	426	422	418

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	14.17	14.13	14.31	14.5	14.68	14.86	15.06	15.29	15.55	15.83	16.13	16.47
Stocks/Con	16.1	15.79	15.27	14.84	14.38	13.91	13.46	13	12.53	12.05	11.57	11.08

Japan

Area Harvested (1000 hectares)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	69	68	67	66	65	64	63	62	61	60	59	58
Sugarcane	25	25	25	26	26	26	26	26	25	25	25	25
Total Area	94	93	92	92	91	90	89	88	87	86	84	83

Yields (metric tons/hectare)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	53.61	54.25	54.75	55.18	55.58	55.97	56.35	56.73	57.11	57.48	57.86	58.23
Sugarcane	59.28	60.01	60	60.04	60.09	60.13	60.18	60.22	60.26	60.31	60.35	60.4

Production (1000 metric tons)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Sugar Beet	3693	3686	3669	3650	3628	3601	3571	3537	3501	3465	3429	3391
Sugarcane	1458	1504	1521	1535	1542	1545	1543	1538	1532	1523	1514	1505

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
27 Carry-in Sto	237	156	117	97	86	80	77	75	74	73	73	73
Production	876	880	879	877	874	869	863	856	849	841	833	825
Beet Suga	700	698	695	691	687	682	676	670	663	656	649	642
Cane Sug	177	182	184	186	187	187	187	187	186	185	184	182
Net Imports	1728	1761	1798	1819	1828	1840	1858	1874	1891	1910	1930	1951
Consumptio	2686	2680	2698	2708	2707	2712	2723	2732	2741	2751	2763	2775
Carry-out S	156	117	97	86	80	77	75	74	73	73	73	73

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	21.4	21.31	21.4	21.43	21.38	21.37	21.41	21.45	21.49	21.55	21.62	21.72
Stocks/Con	5.8	4.37	3.59	3.16	2.95	2.84	2.77	2.72	2.68	2.66	2.64	2.64

Korea**Sugar Supply and Utilization (1000 metric tons, raw value)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	133	150	157	162	171	179	186	193	200	205	209	212
Net Imports	1106	1123	1152	1192	1228	1265	1304	1347	1390	1435	1482	1532
Consumptio	1089	1116	1147	1183	1219	1258	1297	1340	1384	1431	1479	1530
Carry-out S	150	157	162	171	179	186	193	200	205	209	212	214

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	24.05	24.39	24.81	25.34	25.86	26.42	27.01	27.66	28.33	29.05	29.8	30.61
Stocks/Con	13.74	14.08	14.14	14.44	14.69	14.82	14.9	14.89	14.8	14.61	14.35	14.02

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Former Soviet Union**Sugar Beet Area Harvested (1000 hectares), Yield (metric tons/acre), and Production (1000 metric tons)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Area Harve	2871	2924	2969	3004	3028	3048	3066	3082	3096	3110	3125	3140
Yield	19.43	19.09	18.97	18.97	19.02	19.11	19.21	19.31	19.42	19.53	19.64	19.75
Production	55768	55811	56318	56986	57609	58244	58889	59517	60130	60745	61377	62033

Sugar Supply and Utilization (1000 metric tons, raw value)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Carry-in Sto	1801	1657	1602	1601	1642	1700	1765	1837	1912	1988	2064	2139
Production	6045	6050	6105	6177	6245	6314	6384	6452	6518	6585	6653	6724
Net Imports	3178	3508	3741	3927	4127	4327	4523	4721	4925	5137	5352	5572
Consumptio	9368	9613	9847	10064	10314	10576	10835	11097	11367	11646	11930	12224
Carry-out S	1657	1602	1601	1642	1700	1765	1837	1912	1988	2064	2139	2211

Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Per Capita	31.47	32.27	33.01	33.66	34.38	35.13	35.86	36.58	37.33	38.09	38.86	39.65
Stocks/Con	17.69	16.66	16.26	16.32	16.48	16.69	16.95	17.23	17.49	17.72	17.93	18.09

Rest of the World**Sugar Net Exports (1000 metric tons, raw value)**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Net Exports	-7951	-9845	-9314	-9504	-9648	-9393	-9150	-8967	-8704	-8301	-7780	-7102

World - Sugar Prices (U.S. cents/pound)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Caribbean	6.98	7.76	8.08	7.54	7.68	8	8.18	8.35	8.66	9.11	9.65	10.38