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2005 Outlook of the U.S. and World Sugar Markets, 2004-2013

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ACKNOWLEDGMENTS

The authors extend appreciation to Andrew Swenson, Jeremy Mattson and Dr. Jose Andino for their constructive comments and suggestions. Special thanks go to Ms. Beth Ambrosio and Ms. Carol Jensen, who helped to prepare the manuscript. The authors assume responsibility for any errors of omission, logic, or otherwise.

This research is funded under a grant by the General Service Administration.

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Abstract

This report evaluates the U.S. and world sugar markets for 2004-2013 using the Global Sugar Policy Simulation Model. This analysis is based on assumptions about general economic conditions, agricultural policies, population growth, weather conditions, and technological changes.

Both the U.S. and world sugar economies are predicted to improve slightly over the next 10 years after the current over-supply is reduced. World demand for sugar is expected to grow faster than world supply, resulting in Carribean sugar prices gradually increasing from 8.40 cents/lb in 2004 to 8.70 cents/lb in 2013. The U.S. wholesale price of sugar is projected to decrease from 26.15 cents/lb in 2004 to 24.89 cents/lb in 2013, if the United States maintains its sugar programs. The CAFTA agreement is expected to increase U.S. imports slightly, but with little impact on U.S. prices. It is projected that Mexico will be able to export 405 thousand metric tons of sugar to the United States by 2013. World trade volumes of sugar are expected to increase throughout the forecast period.

Keywords: sugar, production, exports, consumption, ending stocks

Highlights

Total world sugar trade is projected to increase by 19.3% between 2004 and 2013 from 28.5 million metric tons to 34.0 million metric tons. Brazil's exports are projected to increase from 18.1 million metric tons in 2004 to 21.4 million metric tons in 2013. World sugar prices also are projected to increase from 8.40 cents/lb in 2004 to 8.70 cents/lb in 2013. U.S. sugar price is projected to decrease from 26.1 cents/lb in 2004 to 24.89 cents/lb in 2013 if the U.S. sugar programs are maintained.

U.S. sugar imports are predicted to increase 11.8% over the 2004-2013 period due to increased sugar imports from Mexico. U.S. sugar consumption is projected to increase 8.3%. Ending stocks are predicted to decrease 15.6%.

Canada's production is predicted to increase 29.4% from 2004 to 2013. Canada's imports are expected to increase 16.0%. Consumption is predicted to increase 13.9%, and ending stocks are predicted to decrease 48.0%.

Mexico's production is expected to increase 15.2%, and exports are expected to increase to 0.4 million metric tons by 2013 due to increases in exports to the United States under the North American Free Trade Agreement (NAFTA).

The European Union's (EU) exports are predicted to decrease 50.3% under the assumption that their sugar program does not change. With the additional countries included in the EU, they will not have the excess sugar to export. Their production and consumption are predicted to increase slightly.

Production in India is predicted to increase 23.4%, while consumption is predicted to increase 10.8% for the 2004-2013 period. India should import about 0.7 million metric tons by 2013.

Exporting countries, such as Australia and South Africa are predicted to increase their production and exports during the forecasting period.

Most importing countries, including Algeria, China, Japan, and Korea, are predicted to increase their imports for the 2004-2013 period.

2005 Outlook of the U.S. and World Sugar Markets, 2004-2013

Won W. Koo and Richard D. Taylor*

INTRODUCTION

Sugar is produced in over 100 countries worldwide. In most years, over 70% of world sugar production is consumed domestically, implying that only a small portion of production is traded internationally. A significant share of this trade takes place under bilateral long-term agreements or on preferential terms such as the European Union's (EU) Lome Agreement. Since only a small proportion of world production is traded freely, small changes in production and government policies tend to have large effects on world sugar markets. As a result, sugar prices have been very unstable in the world market.

This report evaluates the U.S. and world sugar industry for 2004-2013 using the Global Sugar Policy Simulation Model developed by Benirschka et al. (1996). The outlook projection is based on an assumption that farm and trade policies adopted by sugar exporting and importing countries remain unchanged.

Sugarcane is a perennial grass that is produced in tropical and subtropical climate zones. It matures in 12 to 16 months. Once the cane is harvested, the sucrose starts breaking down. Thus, sugarcane mills are located close to the cane fields to minimize transport costs and sucrose losses. Mills convert sugarcane into raw sugar which is shipped to refineries for further processing. In contrast to raw sugar producing mills, refineries are unconstrained by seasonal production patterns and operate throughout the year. Unlike sugarcane, sugarbeets are an annual crop of temperate climate zones. Because of disease problems, sugarbeets are always grown in crop rotations. Since sugarbeets are bulky and costly to transport, beet processing facilities are located close to production. In contrast to sugarcane, sugarbeets are directly processed into refined sugar. Raw sugar is produced only from sugarcane.

Raw sugar and refined sugar are two different products. They are both traded internationally. Beet sugar producing countries export refined sugar, while cane sugar producing countries export either raw or refined sugar. In recent years, the share of raw sugar in total sugar exports has been about 50%.

OVERVIEW OF THE WORLD SUGAR INDUSTRY AND SUGAR POLICIES

For the 2000-2004 period, annual global sugar production was approximately 139 million metric tons with about 30% of production exported from its country of origin. The largest sugar producing region is Brazil, followed by India and the EU (Table 1).

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Table 1. World Sugar Supply and Utilization, 2000 to 2004 Average

Country/	Beet/	Consumption	Production	Net Exports	Ending	Per Capita					
Region	Cane				Stocks	Consumption					
-	1,000 metric tons, raw value										
Algeria	В	1,036	0	(1,088)	298	34					
Australia	C	1,132	5,038	3,827	582	61					
Brazil	C	9,665	22,697	12,990	767	56					
Canada	В	1,339	91	(1,255)	188	45					
China	B/C	10,202	9,338	(859)	1,763	9					
Cuba	C	702	2,952	2,284	253	61					
European Union	В	14,863	18,172	3,281	3,595	49					
Egypt	B/C	2,201	1,381	(816)	293	33					
Former Soviet	B/C	11,007	3,773	(6,942)	2,715	37					
Union											
India	C	18,939	18,726	233	9,999	17					
Indonesia	C	3,358	1,775	(1,594)	1,268	16					
Japan	B/C	2,265	825	(1,479)	381	18					
Korea	-	1,248	0	(1,251)	104	26					
Mexico	C	5,122	5,270	79	1,263	49					
South Africa	C	1,594	2,664	1,057	594	37					
Thailand	C	1,867	6,340	4,490	784	31					
United States	B/C	9,047	7,755	(1,337)	1,729	31					
Rest of World	B/C	39,352	32,143	(11,619)	9,977	18					
World	B/C	134,938	138,938		36,554	20					

Per capita sugar consumption was highest in Cuba and Australia (61 kg), followed by Brazil. Per capita sugar consumption in the United States was 31 kg, which was above world average per capita consumption (20 kg). Per capita sugar consumption was lowest in China at 9 kg per capita, but that may increase substantially as per capita income increases. Annual global sugar consumption for the 2000-2004 period was 135 million metric tons.

The major sugar exporting countries were Brazil, Thailand, Australia, the EU, and Cuba. These countries accounted for 85% of global exports from 2000 to 2004. Relatively few countries dominate world sugar exports, but imports are less concentrated. Major importing countries were the Former Soviet Union (FSU), Indonesia, the United States, Japan, Korea, and Canada. Imports by these countries accounted for about 44% of all sugar imports from 2000 to 2004. Under the Lome Convention, the EU was required to import sugar under preferential terms from certain African, Caribbean, and Pacific countries.

The Caribbean raw sugar price is usually considered to be the world market price for sugar. Except for years with high world market prices, there was a substantial wedge between the U.S. wholesale price of raw sugar and the world market price. Over the last decade, U.S. wholesale prices fluctuated between \$0.22 and \$0.29 per pound. World market prices ranged between \$0.06 per pound and \$0.13 per pound (Figure 1). Both real Caribbean raw sugar prices and U.S. raw sugar import prices have long-term downward trends.

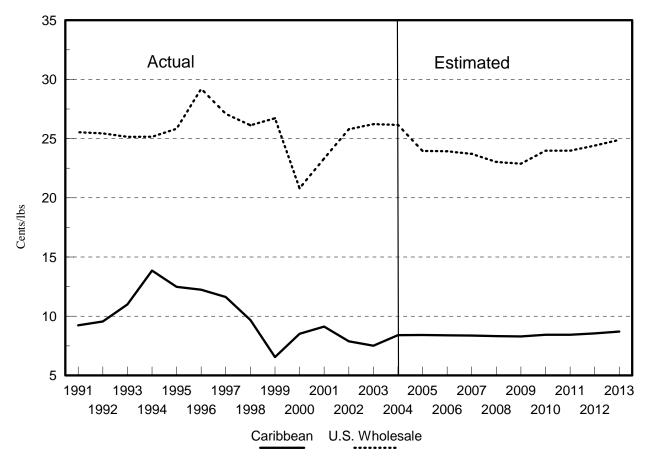


Figure 1. U.S. and World Sugar Price

The volatility of world sugar prices could be due to the nature of supply response to price changes stemming from high fixed costs of sugar production. An increase in sugar production in response to rising sugar prices requires significant investments in processing facilities, and it takes some time until new production capacity becomes available. Once the facilities are in place, they tend to be used at full capacity to spread the fixed costs. Thus, when prices fall, production remains at full capacity. Sugar production is relatively unresponsive to price in the short run.

The United States produces both beet and cane sugar. Cane sugar is produced mainly in Florida, Louisiana, Texas, and Hawaii. Beet sugar is produced largely in the Great Lakes region, Upper Midwest, Great Plains, and far western states. Beet sugar production increased 17.8% from the 1991 to 2004, while cane sugar production increased 24% (Figure 2). U.S. total sugar production increased about 21% from 7.0 million metric tons in 1991 to 8.5 million metric tons in 2004 (Figure 3).

U.S. consumption of sugar also increased 15% from 7.8 million metric tons in 1991 to 9.0 million metric tons in 2004 (Figure 4). The balance was imported from more than 40 countries. U.S. sugar imports decreased 71% from 4.5 million metric tons in 1974 to 1.3 million metric tons in 1987 and then increased to an average of 1.7 million metric tons during the 1989 to 2004 period. Under the North American Free Trade Agreement (NAFTA), Mexico can export 260,000 metric tons of sugar to the United States if Mexico becomes a sugar surplus country for two

consecutive years, and its exports to the United States will be unlimited beginning in 2008 when implementation of NAFTA is completed. Currently, Mexico is exporting less than 100 thousand metric tons of sugar into the United States, due to production shortages. If the U.S.-Central American Free Trade Agreement (CAFTA), which is a free trade agreement (FTA) currently with five Central American countries, is ratified by the U.S. Congress, additional sugar imports allowed would initially be 107 thousand metric tons, increasing by about 3,000 metric tons per year.

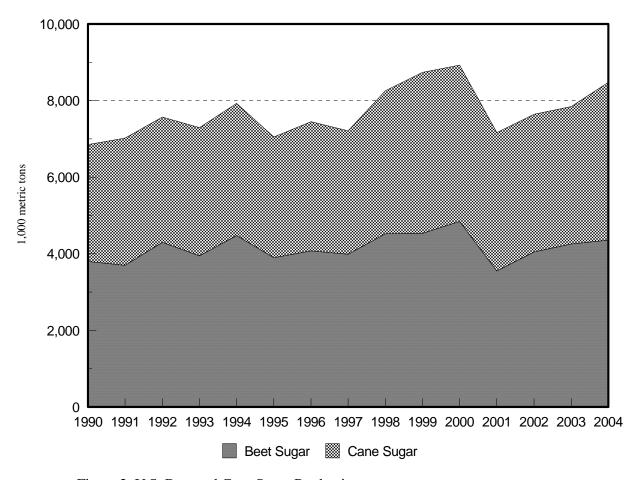


Figure 2. U.S. Beet and Cane Sugar Production

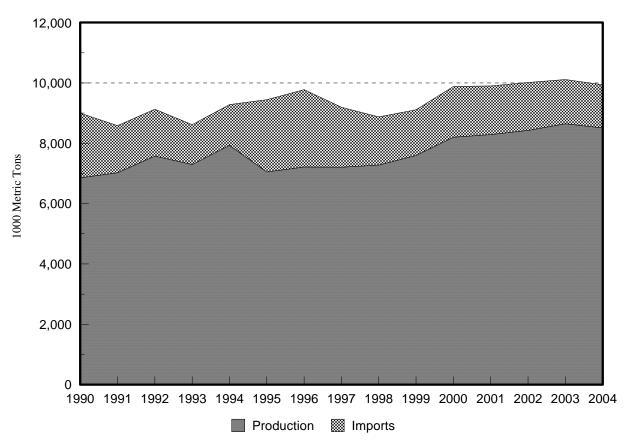


Figure 3. U.S. Sugar Production and Imports

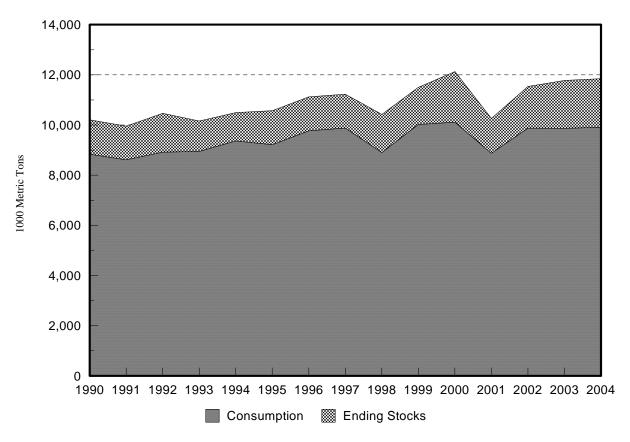


Figure 4. U.S. Consumption and Ending Stocks

U.S. Sugar Programs and Policies

The U.S. sugar program was established by the Food and Agricultural Act of 1981. Several modifications were made by the Food Security Act of 1985; the Food, Agriculture, Conservation, and Trade Act of 1990; the Federal Agriculture Improvement and Reform Act of 1996; and the Farm Security and Rural Investment (FSRI) Act of 2002.

The core policy tools in the program are the loan program, import restrictions, and production allotments. The main purpose of the loan program is to maintain a minimum market price for U.S. producers. Processors use sugar as collateral for loans from the U.S. Department of Agriculture (USDA). The program permits processors to store the sugar rather than sell it for lower than desired prices. Loans can be taken for up to nine months. Processors pay growers for delivered beets and cane, typically about 60% of the loan. Final payments are made and the loan is repaid after the sugar has been sold.

Under the FSRI Act, the sugar loan rate is set at 18 cents per pound for raw cane sugar and 22.9 cents per pound for refined beet sugar. Loans under the FSRI Act become recourse loans if the tariff rate quota (TRQ) is at 1.5 million metric tons or below, regardless of the price. When the TRQ is set above 1.5 million metric tons, the loans are nonrecourse. Under the nonrecourse loan, a processor can forfeit collateral (sugar) to the Commodity Credit Corporation (CCC) instead of loan repayment if market prices fall below the loan rates. Processors who obtain a nonrecourse loan must pay farmers an amount for their sugarbeets and sugarcane that is proportional to the loan value of sugar. This is the same as under previous legislation.

The Uruguay Round Agreement (URA) on agriculture made minor adjustments for sugar trade. U.S. import quotas on sugar were converted into TRQs, implying that a specified amount of sugar can be imported at the lower of two alternative duty rates. The amount of raw cane sugar subject to the lower duty rate must be no less than 1,117,195 metric tons in a fiscal year. The minimum low-duty import of refined sugar is 22,000 metric tons. The minimum low-duty imports for raw and refined sugar add up to 1.256 million metric short tons raw value of sugar per year. The high duty (about 15.82 cents per pound) is imposed on the amount of sugar imported over the import quota. The first-tier duty ranges from zero to 0.625 cents per pound.

The second tier-duty for raw cane sugar was reduced from 17.62 cents per pound in 1995 to 15.82 cents per pound in 2000 under the URA. The duty for refined sugar was reduced from 18.6 cents per pound in 1995 to 16.21 cents per pound in 2000. The quota was the same level throughout the 1995 to 2000 period.

The sugar quota has been allocated among more than 40 quota-holding countries, allowing imports of specific quantities of sugar at first-tier duty rates. The quota allocation is based on historical exports to the United States for the 1975 to 1985 period.

NAFTA allows a rapid reduction in the second-tier duty for Mexican sugar over the next several years. The second-tier duty for Mexican sugar will be reduced from 16.11 cents per pound in 1995 to zero in 2008. Duties for most countries will remain at 15.36 cents per pound for raw cane sugar and 16.21 cents per pound for refined sugar. This implies that Mexico is in a unique position to increase its exports of sugar to the United States above the allocated quota. Mexico produced 5.2 million metric tons of sugar in 2003 and consumed 5.0 million metric tons

in the same year. Its net exports were zero for the year. If Mexico starts to use High Fructose Corn Sweetener (HFCS) for beverages, more of its sugar could be exported to the United States. Currently there are transportation and use taxes on HFCS in Mexico.

The United States signed a trade agreement with the Central American countries of El Salvador, Guatemala, Honduras, Nicaragua, Costa Rica and the Dominican Republic. CAFTA allows 107,000 metric tons of additional sugar to be imported into the United States in the first year of implementation of the agreement, and increases by about 3,000 metric tons per year. The level allowed does not have a significant impact on the price of U.S. sugar or world trade flows. Recent trade agreement and negotiations with Australia do not include increased sugar imports.

Domestic and Export Subsidies in the EU, South Africa, and Mexico

The basic tools of the EU's sugar policies are (1) import restrictions with limited free access for certain suppliers; (2) internal support prices that ensure returns to producers for fixed quantities of production and permit the maintenance of refining capacity; and (3) export subsidies for a quantity of domestically produced sugar.

EU member states allocate an "A" quota and a "B" quota to each sugar producing operation, each isoglucose producing operation, and each inulin syrup producing operation established in their territory. Current quota levels have been in place since the accession of Austria, Sweden, and Finland to the EU and are currently legislated at these levels until 2004/05. The total EU sugar production quotas for A and B sugar are 11.98 million metric tons and 2.61 million metric tons, respectively. Any sugar that is produced by any member of the EU in excess of its yearly quota is considered "C-sugar." A and B sugar production is used for domestic consumption and for subsidized exports. C-sugar must be exported into the world market without subsidy or carried over into the next marketing year. In general, the EU's target price for white sugar is about 30 cents (Euro) per pound, and its intervention price is 28.72 cents (Euro) per pound. The EU's internal support is about 30% higher than that in the United States.

Since marketing year 1995, EU-subsidized exports of sugar to third-world countries have been limited, in volume and value, under the URA commitments of the EU. However, the EU did not make an export subsidy commitment on its subsidized exports of a quantity of sugar equal to its preferential imports under the Lome Convention. The EU is proposing to limit sugar production to about 14.9 million metric tons per year. Currently, the EU produces 19.7 million metric tons of sugar. If the EU limits sugar production to the stated level, the EU will become an importer. The limit is not included in the model.

South Africa has both internal price supports and export subsidies. South Africa reduced its subsidized exports by 200,000 tons to 702,208 tons by the year 2000 under the URA. Mexico also has subsidized exports and is subsidizing raw sugar storage.

Brazil

Brazil is the largest sugar producing country in the world. The production of sugar has increased 259% since 1990. About 50% of Brazilian sugar consumed domestically is converted into ethanol for fuel. Exports have risen from 1.2 million metic tons in 1990 to 18.1 million

metric tons in 2004. Sugar that is converted into ethanol is subsidized at prices higher than world price.

State Trading Enterprises in Australia, China, and India

Australia's sugar exports are handled by the Queensland Sugar Corporation (QSC), a statutory authority established under the Sugar Industry Act 1991. The QSC is responsible for the domestic marketing and export of 100% of the raw sugar produced in the state of Queensland, which produces 95% of the sugar produced in Australia. The QSC supports domestic producers through buyer-seller arrangements, marketing quotas, dual pricing arrangements, and other quasi-government mechanisms that isolate domestic producers from foreign competition. State trading enterprises (STEs) were not addressed in the URA. Other countries, including China and India, handle their sugar trade through STEs similar to the QSC.

OUTLOOK FOR THE WORLD SUGAR INDUSTRY

Total world sugar trade is projected to increase 19.3%, from 28.5 to 34.0 million metric tons. Export of sugar in most countries will increase for 2004-2013. Brazil's exports are expected to increased from 18.1 million tons in 2004 to 21.5 million metric tons in 2013. Exports for Thailand will increase 22.7%, and exports for Australia will increase 6.4%.

World sugar prices, referred to as the Caribbean price of sugar, are projected to increase about 3.6% from 8.40 cents/lb in 2004 to 8.70 cents/lb in 2013 (Figure 1) because of expected moderate demand for sugar. The domestic wholesale price of U.S. sugar is projected to decrease 5.6% from 26.10 cents/lb in 2004 to 24.65 cents/lb in 2013. U.S. sugar price decreases mainly because of increases in U.S. sugar imports from Mexico under NAFTA. The expected increases in U.S. sugar imports tend to reduce the gap between world and U.S. wholesale prices. If CAFTA is implemented for 2005, its impact on the U.S. domestic sugar price would be insignificant.

United States

Table 2 shows production, consumption, imports, and ending stocks of sugar for the United States. U.S. sugar production is predicted to increase to 8.2 million metric tons in 2013. Imports are predicted to increase 11.8% from the 2002-04 average of 1.4 million metric tons to 1.5 million metric tons in 2013, under an assumption that Mexico slightly increases its exports to the United States and CAFTA is ratified.

The domestic wholesale price for U.S. sugar is projected to decrease from 26.2 cents/lb in 2004 to 24.9 cents/lb in 2013 under the current TRQ system. The United States will increase imports to over 15% of its domestic sugar consumption because of slightly increased imports from CAFTA. U.S. sugar consumption is predicted to increase 8.3% from 9.0 million metric tons (the 2002-2004 average) to 9.7 million metric tons in 2013. Ending stocks are also predicted to decrease 15.6% (Table 2).

Table 2. U.S. Sugar Production, Consumption, Imports, and Carry-over Stock, 2004-2013 average

	Average			% Change
	(2002-2004)	2004	2013	(2002-04) to 2013
		1,000 metric t	ons	
Production	7,735	7,718	8,211	6.15
Beet	4,189	4,261	4,248	1.43
Cane	3,546	3,457	3,962	11.71
Net Imports	1,356	1,297	1,515	11.75
Per capita Consumption	72	72	73	1.39
Consumption	8,966	8,986	9,710	8.29
Carry-over Stocks	1,666	1,759	1,407	-15.56

Exporters

The EU's exports are predicted to decrease from 2.6 million metric tons for 2002-2004 to 1.3 million metric tons in 2013 (Figure 5). Sugar production in the EU is predicted to increase slightly, and consumption is predicted to increase from 15.5 million metric tons for the 2002-2004 average to 17.5 million tons in 2013 (Table 3). Most of the increase is due to the additional countries now included in the EU.

Brazil's production is predicted to increase 26.1% from 26.2 million metric tons in 2002-2004 to 33.0 million metric tons in 2013 (Table 3). Brazil's exports are predicted to increase from 15.8 million metric tons in 2002-2004 to 21.5 million metric tons in 2013. Consumption is predicted to increase 15.1% from 10.0 million metric tons in 2002-2004 to 11.6 million metric tons in 2013. Much of the increase is due to ethanol production.

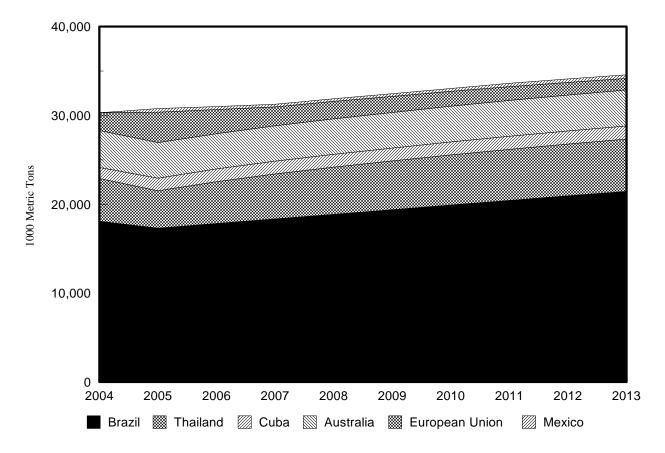


Figure 5. World Sugar Exports by Country

Thailand's exports are predicted to increase 15.9% from 5.1 million metric tons for the 2002-2004 average to 5.9 million metric tons in 2013 (Table 3). Consumption increases from 2.0 million metric tons for the 2002-2004 average to 2.3 million metric tons in 2013. Sugar production in the country also is predicted to increase 18.6% from 6.9 million metric tons to 8.2 million metric tons in 2013.

Australia's exports are predicted to increase 6.4% from 4.1 million metric tons for the 2002-2004 average to 4.3 million metric tons in 2013 (Table 3), due mainly to increased sugar production, which is predicted to increase 6.5% from 5.3 million metric tons to 5.7 million metric tons in 2013. Sugar consumption is expected to increase 11.4% from 1.2 million metric tons to 1.3 million metric tons in 2013.

Cuba's exports are predicted to decrease 6.7% from 1.6 million metric tons in 2002-2004 to 1.5 million metric tons in 2013 (Table 3). It is predicted that Cuba will increase its sugar production from 2.2 million metric tons for the 2002-2004 average to 2.3 million metric tons in 2013. Cuba's consumption is predicted to increase 16.0% from 0.7 million metric tons for the 2002-2004 average to 0.81 million metric tons in 2013. These projections are based on the assumption that the political situation remains the same between the United States and Cuba.

Mexico's production is predicted to increase 15.2% from 5.4 million metric tons in 2002-2004 to 6.2 million metric tons in 2013. Mexico is expected to export 405 thousand metric tons by 2013, mainly to the United States under NAFTA. Sugar consumption is predicted to increase 6.9% from 5.5 million metric tons in 2002-2004 to 5.8 million metric tons in 2013. Ending stocks are predicted to decrease 29.4%. If Mexico replaces the sugar that is used in soft drinks with HFCS, the excess sugar will likely be exported to the United States under NAFTA.

South Africa's production is predicted to increase 17.9% from 2.6 million metric tons in 2002-2004 to 3.1 million metric tons in 2013. South Africa's exports are predicted to increase 50.1% from 0.9 million metric tons in 2002-2004 to 1.4 million metric tons in 2013, due mainly to increased production. Sugar consumption is predicted to increase 3.7%. Ending stocks are predicted to decrease 14.6%.

Table 3. Sugar Production, Consumption, Exports, and Carry-over Stocks in Exporting Countries

	Average			% change
	(2002-2004)	2004	2013	(2002-04) to 2013
	1,00	00 metric tons	S	
European Union				
Production	18,287	19,684	18,834	3.0
Net Exports	2,600	2,004	1,293	-50.3
Consumption	15,501	17,635	17,526	13.1
Carry-over	3,902	4,717	3,660	-6.2
Brazil				
Production	26,193	28,370	33,039	26.1
Net Exports	15,780	18,100	21,458	36.0
Consumption	10,063	10,300	11,582	15.1
Carry-over	940	1,260	1,208	28.5
Thailand				
Production	6,939	6,520	8,230	18.6
Net Exports	5,080	4,800	5,888	15.9
Consumption	1,990	2,050	2,332	17.2
Carry-over	848	585	995	17.3
Australia				
Production	5,318	5,500	5,666	6.5
Net Exports	4,068	4,154	4,329	6.4
Consumption	1,200	1,200	1,337	11.4
Carry-over	610	657	600	-1.6
Cuba				
Production	2,183	2,000	2,282	4.5
Net Exports	1,583	1,250	1,478	-6.7
Consumption	700	700	812	16.0
Carry-over	65	82	86	31.6
Mexico				
Production	5,416	5,690	6,239	15.2
Net Exports	(94)	(9)	405	NA
Consumption	5,450	5,376	5,824	6.9
Carry-over	1,266	1,354	893	-29.4
South Africa				
Production	2,621	2,371	3,091	17.9
Net Exports	931	994	1,398	50.1
Consumption	1,627	1,640	1,687	3.7
Carry-over	710	638	606	-14.6

Importers

Figures 6 through 8 show sugar imports by the major sugar importing countries. Sugar imports of selected Asian and African countries are expected to increase 68.2% and 22.3%, respectively, for the 2004-2013 period. The FSU is the largest importer for the period, followed by Indonesia and Japan.

Canada's production is predicted to increase above the 2002-2004 average of 87 thousand metric tons to 113 thousand tons by the year 2013, and consumption is predicted to increase from 1.4 million metric tons to 1.6 million metric tons in 2013 (Table 4). As a result, Canada's imports are predicted to increase 16.0% from 1.3 million metric tons to 1.5 million metric tons in 2013.

The FSU's production is predicted to increase 13.7% from 3.9 million metric tons to 4.4 million metric tons in 2004-2013, and consumption is predicted to increase 2.2% from 11.0 million metric tons to 11.3 million metric tons for the same period. Imports are predicted to increase slightly from 6.8 million metric tons in 2002-2004 to 6.9 million metric tons in 2013 (Table 4).

China is expected to increase its imports about 264.0% from 1.0 million metric tons in 2002-2004 to 3.7 million metric tons in 2013 (Table 4). China's production is predicted to decrease 3.7% from 11.1 million metric tons for the 2002-2004 average to 10.7 million metric tons in 2013, and consumption is predicted to increase 24.1% from 11.6 million metric tons to 14.4 million metric tons for the period.

India's production is predicted to increase 23.4% from 17.1 million metric tons in 2002-2004 to 21.0 million metric tons in 2013. India is predicted to import 0.7 million metric tons of sugar by 2013.

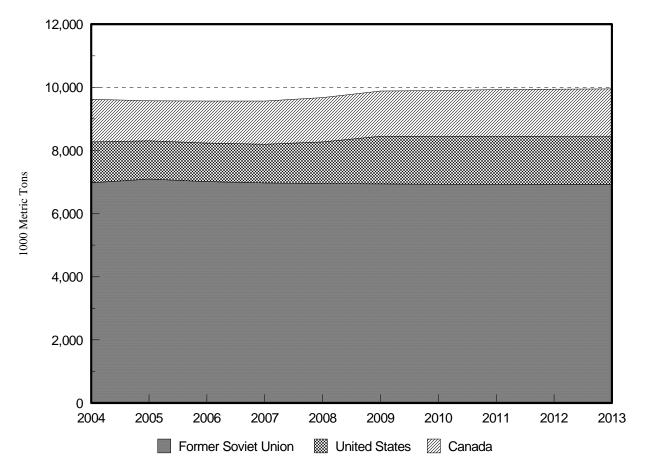


Figure 6. World Sugar Imports by Country, Major Importers

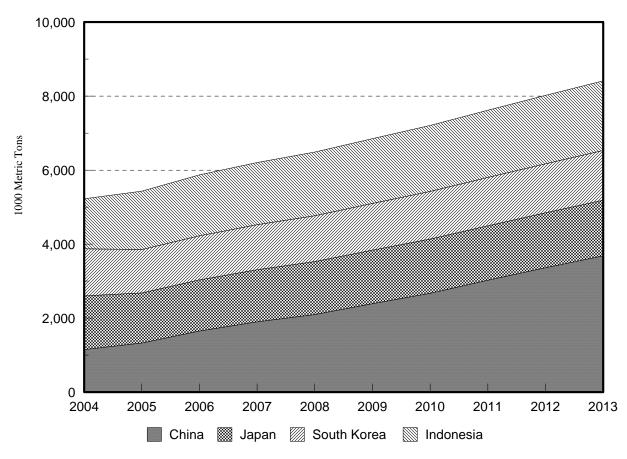


Figure 7. World Sugar Imports by Country, Asian Countries

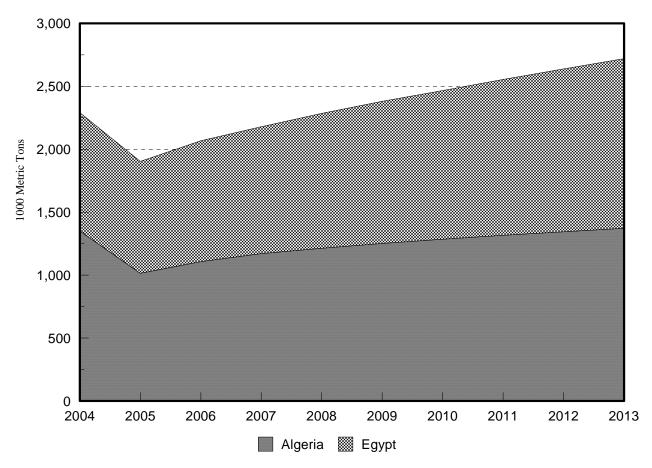


Figure 8. World Sugar Imports by Country, African Countries

Japan's imports are predicted to increase 3.5% from the 2002-2004 average to 1.5 million metric tons in 2013, due mainly to increased domestic consumption. Consumption is predicted to increase 4.6% from 2.3 million metric tons to 2.4 million metric tons for the period (Table 4).

In South Korea, consumption is predicted to increase 5.7% for the time period. As a result, South Korea's imports are predicted to increase 5.8% for the period. There is no domestic production of either sugar cane or sugar beet in South Korea.

In Algeria, consumption is predicted to increase 20.3% from 1.2 million metric tons in 2002-2004 to 1.4 million metric tons in 2013. This increase in consumption results in imports increasing from 1.2 million metric tons for the 2002-2004 average to 1.4 million metric tons in 2013.

Egypt's imports are predicted to increase 34.4% from 0.9 million metric tons in 2002-2004 to 1.2 million metric tons in 2013, due mainly to increased consumption. Consumption is predicted to increase 23.1% from 2.3 million metric tons to 2.8 million metric tons in 2013.

Indonesia's imports are predicted to increase 26.8% from 1.5 million metric tons in 2002-2004 to 1.9 million metric tons in 2013. Consumption is predicted to increase 19.8% from 3.4 million metric tons for the 2002-2004 average to 4.1 million metric tons in 2013.

Table 4. Sugar Production, Consumption, Imports, and Carry-over Stocks in Importing Countries

	Average	· ,		cks in Importing Countries % Change
	(2002-04)	2004	2013	(2–2-04) to 2013
	(2002-04)		1,000 metric tons	,
Algoria			1,000 metric tons	S
Algeria Production	10	10	11	10.0
			11	
Net Imports	1,212	1155	1,372	13.2
Consumption	1,150	1,175	1,384	20.3
Carry-over	436	429	118	-72.9
Canada	0.7	110	112	20.4
Production	87	110	113	29.4
Net Imports	1,306	1350	1,514	16.0
Consumption	1,426	1,450	1,624	13.9
Carry-over	188	153	98	-48.0
China				
Production	11,117	11,240	10,706	-3.7
Net Imports	1,011	1150	3,685	264.6
Consumption	11,577	12,180	14,371	24.1
Carry-over	2,284	2,521	2,803	22.7
Egypt				
Production	1,362	1,410	1,505	10.5
Net Imports	920	940	1,236	34.4
Consumption	2,314	2,318	2,849	23.1
Carry-over	325	351	310	-4.5
Former Soviet Union				
Production	3,853	3,983	4,382	13.7
Net Imports	6,784	6975	6,922	2.0
Consumption	11,043	10,960	11,290	2.2
Carry-over	1,984	1,752	2,212	11.5
India	•	•	•	
Production	17,060	13,590	21,044	23.4
Net Imports	193	1780	684	253.8
Consumption	19,577	19,170	21,693	10.8
Carry-over	8,543	4,700	4,920	-42.4
Indonesia	5,5 .5	1,100		
Production	1,812	1,950	2,229	23.0
Net Imports	1,483	1350	1,881	26.8
Consumption	3,433	3,500	4,112	19.8
Carry-over	1,160	970	926	-20.2
Japan	1,100	710	720	20.2
Production	867	850	892	2.8
Net Imports	1,452	1452	1,503	3.5
Consumption	2,293	2,290	2,397	4.6
-	382	399	2,397	-32.4
Carry-over Korea	302	377	230	-32.4
	0	0	Λ	0.0
Production Not Imports			0	0.0
Net Imports	1,268	1275	1,342	5.8
Consumption	1,268	1,275	1,340	5.7
Carry-over	110	110	145	31.8

CONCLUDING REMARKS

This report provides an overview of the U.S. and world sugar markets for 2004-2013 using the Global Sugar Policy Simulation Model. The baseline projections are based on a series of assumptions about general economic conditions, agricultural policies, weather conditions, and technological change.

Total world sugar trade is projected to increase by 19.3% from 28.5 million metric tons in 2004 to 34.0 million metric tons in 2013. The price of Caribbean sugar is expected to increase about 3.6% from 8.40 cents/lb in 2004 to 8.70 cents/lb in 2013, because of slightly faster growth in world consumption of sugar compared to world production. The wholesale price of U.S. sugar is projected to decrease 5.6% from 26.1 cents/lb in 2004 to 24.89 cents/lb in 2013. If CAFTA is implemented for 2005, the U.S. price of sugar would decrease slightly.

Exports are predicted to increase for Brazil, Australia, South Africa, and Thailand, while exports are predicted to decline about 50% for the EU.

Imports by all importing countries are predicted to increase from the 2002-04 average to 2013. China's imports are predicted to increase 264%, while Japan's imports are predicted to increase 3.5%. Imports by South Korea and Algeria are predicted to increase 5.8% and 13.2%, respectively.

U.S. sugar consumption is predicted to increase 8.3% for the forecasting period, while production is expected to increase 6.2%. Imports are predicted to increase 11.8% for the period because of increased sugar from Mexico and CAFTA. However, the U.S. sugar industry could face greater uncertainty mainly because of upcoming free trade agreements with the Western Hemisphere countries and Thailand.

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World Sugar Policy Simulation Model

2005 Baseline Solution

Sugar Beets	Jnited States -	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugar Cange 27.00 26.64 26.59 26.33 25.53 25.37 26.65 26.65 27.17 27.7	Sugar Beets										40.34
United States - Nominal Sugar Prices (U.S. cents/pound) 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2006 2007 2008 2009 2010 2011 2012 2013 2014 2014 2015 2006 2007 2008 2009 2010 2011 2012 2013 2014 2014 2015 2006 2007 2008 2009 2010 2011 2012 2013 2014 2014 2015 2006 2007 2008 2009 2010 2011 2012 2013 2014 2014 2015 2006 2007 2008 2009 2010 2011 2012 2013 2014 2014 2015 2014 2014 2015 2014 2015 2016 2016 2017 2018 2014 2015 2014 2015 2016 2016 2017 2018 2014 2015											27.73
Caribbean 8.40 8.42 8.38 8.37 8.32 8.29 8.43 8.43 8.45 8.55 8.7 rice RQ Status Quota Quota Quota Quota Quota Quota Quota Quota Quota Philited States - Vields (short tons) Caribbean											
Caribbean R.40 R.42 R.38 R.37 R.32 R.29 R.43 R.43 R.55 R.7	Inited States -	Nominal S	Sugar Pri	ces (U.S.	cents/pc	und)					
Price RIQ Status Quota Rigiliari Price 17.50 15.42 15.38 15.17 14.52 14.39 15.43 15.43 15.85 16.3 15.40 15.4		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
RRQ Status		8.40	8.42	8.38	8.37	8.32	8.29	8.43	8.43	8.55	8.70
Import Price	TRQ Status	Quota	Quota	Quota	Quota	Quota	Quota	Quota	Quota	Quota	Quota
Wholesale Price 26.15 23.96 23.92 23.70 23.02 22.88 23.97 23.97 24.41 24.8 Price Retail Price 42.40 39.44 39.38 39.08 38.16 37.97 39.45 39.45 40.05 40.6 United States - Area Harvested (1000 acres) 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Sugar Beets Sugarcane 975 973 976 983 989 982 983 985 990 98 Initial Area 2323 2316 2320 2331 2343 2334 2344 2354 2368 239 United States - Yields (short tons/acre) 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Sugar Beets 21.60 21.50 21.63 21.81 21.91 21.99 22.12 22.02 22.33 22.4 </td <td>Implicit Tariff</td> <td>9.10</td> <td>7.00</td> <td>7.00</td> <td>6.80</td> <td>6.20</td> <td>6.10</td> <td>7.00</td> <td>7.00</td> <td>5.70</td> <td>5.80</td>	Implicit Tariff	9.10	7.00	7.00	6.80	6.20	6.10	7.00	7.00	5.70	5.80
Price Retail Price	mport Price	17.50	15.42	15.38	15.17	14.52	14.39	15.43	15.43	15.85	16.30
United States - Area Harvested (1000 acres)	Wholesale	26.15	23.96	23.92	23.70	23.02	22.88	23.97	23.97	24.41	24.89
United States - Area Harvested (1000 acres) 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Sugar Beets 1348 1344 1344 1348 1354 1352 1361 1369 1379 138 Sugarcane 975 973 976 983 989 982 983 985 990 99 Total Area 2323 2316 2320 2331 2343 2334 2344 2354 2368 239 United States - Yields (short tons/acre) 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Sugar Beets 21.60 21.63 21.81 21.91 21.99 22.12 22.20 22.33 22.4 Sugarcane 35.50 35.67 35.83 35.99 36.14 36.30 36.36 36.46 36.59 36.7 United States - Sugar Beet and Sugarcane Production (1000 short tons) 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Sugar Beets 29117 28893 29067 29401 29668 29732 30099 30386 30780 3129 Sugarcane 34613 34696 34981 35368 35744 35648 35741 35918 36212 3669 United States - Sugar Extraction Rates (percent) Variable 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Sugar Beets 14.97 14	Price										
Sugar Beets 1348 1344 1344 1344 1344 1345 1352 1361 1369 1379 138	Retail Price	42.40	39.44	39.38	39.08	38.16	37.97	39.45	39.45	40.05	40.69
Sugar Beets 134B 1344 1344 1344 1345 1352 1361 1369 1379 138	United States -	Area Harv	ested (1)	000 acres	s)						
Sugar Beets						2008	2009	2010	2011	2012	2013
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United States - Sugar Beet and Sugarcane Production (1000 short tons)	Sugar Beets	21.60	21.50	21.63	24 04	24.04	24.00	22 12	22.20	22 33	22 /1
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Sugarcane 34613 34696 34981 35368 35744 35648 35741 35918 36212 3669	Sugarcane	35.50	35.67	35.83	35.99	36.14	36.30	36.36			36.73
United States - Sugar Extraction Rates (percent) Variable 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Sugar Beets 14.97	Sugarcane United States -	35.50 Sugar Bee 2004	35.67 et and Su 2005	35.83 ligarcane 2006	35.99 Production 2007	36.14 on (1000 2008	36.30 short ton 2009	36.36 s) 2010	36.46	36.59	36.73 2013
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United States - Sugar Import Quotas (1000 short tons, raw value) and Tariffs (U.S. cents/pound, raw succountries) Variable 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Tariff Rate 1256 1256 1256 1256 1256 1256 1256 1256	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane United States -	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324	35.83 Igarcane 2006 29067 34981 ates (per 2006 14.97 11.90 1000 shc 2006 4350	2007 29401 35368 2007 2007 14.97 11.90 2007 4400	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450	36.36 s) 2010 30099 35741 2010 14.97 11.90	2011 30386 35918 2011 14.97 11.90 2011 4548	2012 30780 36212 2012 14.97 11.90 2012 4607	2013 31291 36691 2013 14.97 11.90
Countries) Variable 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Tariff Rate 1256 1256 1256 1256 1256 1256 1256 1256	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane United States -	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358 4120	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324 4130	35.83 Igarcane 2006 29067 34981 ates (per 2006 14.97 11.90 1000 shc 2006 4350 4164	2007 29401 35368 (cent) 2007 14.97 11.90 ort tons) 2007 4400 4210	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440 4255	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450 4243	36.36 s) 2010 30099 35741 2010 14.97 11.90 2010 4505 4254	2011 30386 35918 2011 14.97 11.90 2011 4548 4275	2012 30780 36212 2012 14.97 11.90 2012 4607 4310	2013 3129' 3669' 2013 14.97 11.90
Countries) Variable 2004 2005 2006 2007 2008 2009 2010 2011 2012 201 Tariff Rate 1256 1256 1256 1256 1256 1256 1256 1256	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane United States -	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324	35.83 Igarcane 2006 29067 34981 ates (per 2006 14.97 11.90 1000 shc 2006 4350	2007 29401 35368 2007 2007 14.97 11.90 2007 4400	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450	36.36 s) 2010 30099 35741 2010 14.97 11.90	2011 30386 35918 2011 14.97 11.90 2011 4548	2012 30780 36212 2012 14.97 11.90 2012 4607	2013 31291 36691 2013 14.97 11.90
Tariff Rate 1256 1256 1256 1256 1256 1256 1256 1256	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358 4120	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324 4130	35.83 Igarcane 2006 29067 34981 ates (per 2006 14.97 11.90 1000 shc 2006 4350 4164	2007 29401 35368 (cent) 2007 14.97 11.90 ort tons) 2007 4400 4210	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440 4255	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450 4243	36.36 s) 2010 30099 35741 2010 14.97 11.90 2010 4505 4254	2011 30386 35918 2011 14.97 11.90 2011 4548 4275	2012 30780 36212 2012 14.97 11.90 2012 4607 4310	2013 31291 36691 2013 14.97 11.90
Quota Below Quota 0 0 0 0 0 0 0 0 Tariff	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane United States - Beet Sugar Cane Sugar All Sugar United States - countries)	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358 4120 8478 Sugar Imp	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324 4130 8454 poort Quot	35.83 garcane 2006 29067 34981 ates (per 2006 14.97 11.90 1000 shc 2006 4350 4164 8514 as (1000	2007 29401 35368 (cent) 2007 14.97 11.90 ort tons) 2007 4400 4210 8610	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440 4255 8695 as, raw va	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450 4243 8693 lue) and	36.36 s) 2010 30099 35741 2010 14.97 11.90 2010 4505 4254 8759	2011 30386 35918 2011 14.97 11.90 2011 4548 4275 8823	2012 30780 36212 2012 14.97 11.90 2012 4607 4310 8917	2013 31291 36691 2013 14.97 11.90 2013 4683 4367 9051
Below Quota 0 0 0 0 0 0 0 0 Tariff	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane United States - Beet Sugar Cane Sugar All Sugar United States - countries)	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358 4120 8478 Sugar Imp	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324 4130 8454 poort Quot	35.83 garcane 2006 29067 34981 ates (pel 2006 14.97 11.90 1000 shr 2006 4350 4164 8514 as (1000 2006	2007 29401 35368 (cent) 2007 14.97 11.90 ort tons) 2007 4400 4210 8610 short ton	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440 4255 8695 as, raw va	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450 4243 8693 lue) and	36.36 s) 2010 30099 35741 2010 14.97 11.90 2010 4505 4254 8759 Tariffs (L	2011 30386 35918 2011 14.97 11.90 2011 4548 4275 8823 J.S. cents	2012 30780 36212 2012 14.97 11.90 2012 4607 4310 8917	2013 31291 36691 2013 14.97 11.90 2013 4683 4367 9051
	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane United States - Cane Sugar All Sugar United States - Cane Sugar All Sugar United States - Cane Sugar All Sugar United States - Cane Sugar All Sugar	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358 4120 8478 Sugar Imp	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324 4130 8454 poort Quot	35.83 garcane 2006 29067 34981 ates (pel 2006 14.97 11.90 1000 shr 2006 4350 4164 8514 as (1000 2006	2007 29401 35368 (cent) 2007 14.97 11.90 ort tons) 2007 4400 4210 8610 short ton	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440 4255 8695 as, raw va	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450 4243 8693 lue) and	36.36 s) 2010 30099 35741 2010 14.97 11.90 2010 4505 4254 8759 Tariffs (L	2011 30386 35918 2011 14.97 11.90 2011 4548 4275 8823 J.S. cents	2012 30780 36212 2012 14.97 11.90 2012 4607 4310 8917	2013 31291 36691 2013 14.97 11.90 2013 4683 4367 9051
Above Quota 15.36 15.36 15.36 15.36 15.36 15.36 15.36 15.36 15.36 15.36	Sugarcane United States - Sugar Beets Sugarcane United States - Variable Sugar Beets Sugarcane United States - Cane Sugar Cane Sugar All Sugar United States - countries) Variable Tariff Rate Quota Below Quota	35.50 Sugar Bee 2004 29117 34613 Sugar Ext 2004 14.97 11.90 Sugar Pro 2004 4358 4120 8478 Sugar Imp 2004 1256	35.67 et and Su 2005 28893 34696 traction R 2005 14.97 11.90 oduction (2005 4324 4130 8454 poort Quot 2005 1256	35.83 Igarcane 2006 29067 34981 ates (per 2006 14.97 11.90 1000 shc 2006 4350 4164 8514 as (1000 2006 1256	2007 2007 29401 35368 2007 14.97 11.90 2007 4400 4210 8610 short ton	36.14 on (1000 2008 29668 35744 2008 14.97 11.90 2008 4440 4255 8695 as, raw va 2008 1256	36.30 short ton 2009 29732 35648 2009 14.97 11.90 2009 4450 4243 8693 lue) and 2009 1256	36.36 s) 2010 30099 35741 2010 14.97 11.90 2010 4505 4254 8759 Tariffs (L	2011 30386 35918 2011 14.97 11.90 2011 4548 4275 8823 J.S. cents	2012 30780 36212 2012 14.97 11.90 2012 4607 4310 8917 6/pound, 1	201; 3129; 3669; 201; 14.9; 11.90; 201; 468; 436; 905; raw sug

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
TRQ Status	Quota									
Implicit Tariff	9.10	7.00	7.00	6.80	6.20	6.10	7.00	7.00	7.30	7.60
Total Imports	1629	1461	1466	1471	1576	1781	1786	1791	1790	1790
Quota-sugar	1529	1361	1366	1371	1476	1681	1686	1691	1690	1690
Imports										
Other Sugar	100	100	100	100	100	100	100	100	100	100
Imports										
Total Exports	200	120	120	120	120	120	120	120	120	120
Net Imports	1429	1341	1346	1351	1456	1661	1666	1671	1670	1670

United States - Sugar Supply and Utilization (1000 short tons, raw value)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	1907	1939	1954	1868	1743	1606	1559	1583	1555	1548
Stocks										
Production	8507	8454	8514	8610	8695	8693	8759	8823	8917	9051
Net Imports	1429	1341	1346	1351	1456	1661	1666	1671	1670	1670
Consumption	9905	9767	9917	10070	10273	10388	10397	10514	10609	10703
Carry-out	1939	1954	1868	1743	1606	1559	1583	1555	1548	1551
Stocks										

United States - Per Capita Sugar Consumption (pounds) and Stocks to Use Ratio (percent)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	69.03	67.45	67.86	68.29	69.06	69.22	68.69	68.87	68.89	68.91
Stocks/Consu mption	19.58	20.01	18.84	17.31	15.64	15.00	15.23	14.79	14.60	14.49

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Area	21	21	21	21	21	21	21	20	20	20
Harvested										
Yield	45.22	45.80	46.19	46.63	47.05	47.48	47.90	48.33	48.76	49.18
Production	950	967	972	975	979	982	986	990	994	998

Canada - Sugar Beet Exogenous Variables

Variable	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Extraction	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30
Rate (%)										

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	143	153	99	82	78	80	83	87	91	95
Stocks										
Production	110	109	110	110	111	111	111	112	112	113
Net Imports	1350	1264	1330	1370	1402	1434	1458	1481	1500	1514
Imports	1370	#N/A								
Exports	20	#N/A								
Consumption	1450	1427	1457	1484	1511	1541	1565	1589	1609	1624
Carry-out Stocks	153	99	82	78	80	83	87	91	95	98

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

		- 9		(() ()	, , ,			(- (,	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita	44.55	43.45	43.97	44.39	44.81	45.32	45.64	45.96	46.14	46.21
Consumption										
Stocks/Consu	10.55	6.96	5.63	5.27	5.27	5.41	5.58	5.75	5.90	6.03
mption										

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Area	618	620	625	630	637	644	652	660	668	676
Harvested										
Yield	73.70	75.04	75.59	75.93	76.22	76.50	76.77	77.04	77.31	77.58
Production	45547	46537	47210	47864	48551	49281	50046	50824	51619	52426

Mexico - Sugar	Extraction	Rates	(percent
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	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugarcane	11.50	11.80	11.80	11.80	11.80	11.80	11.80	11.90	11.90	11.90

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	1249	1354	1118	990	924	891	877	873	876	884
Stocks										
Production	5690	5491	5571	5648	5729	5815	5905	6048	6143	6239
Net Imports	9	-412	-335	-299	-290	-299	-313	-380	-393	-405
Exports	12	#N/A								
Imports	21	#N/A								
Consumption	5376	5316	5363	5416	5472	5530	5596	5665	5743	5824
Carry-out	1354	1118	990	924	891	877	873	876	884	893
Stocks										

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	49.32	48.20	48.06	47.98	47.93	47.90	47.92	47.98	48.10	48.26
Stocks/Consumption	25.19	21.02	18.46	17.05	16.28	15.85	15.60	15.47	15.39	15.34

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

10.10)											
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Area	7	7	7	7	7	7	7	7	7	7	
Harvested Yield	20	20	20	20	20	20	20	20	20	20	
Production	143	145	146	147	148	149	149	150	150	151	

Algeria - Sugar Extraction Rates (percent)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugarbeet	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Carry-in	449	429	282	201	157	133	120	113	110	108	
Stocks											
Production	11	11	11	11	11	11	11	11	11	11	
Net Imports	1350	1014	1107	1170	1213	1251	1285	1316	1344	1372	
Exports	195	#N/A									
Imports	#N/A										
Consumption	1175	1172	1198	1225	1248	1275	1303	1330	1357	1384	
Carry-out Stocks	429	282	201	157	133	120	113	110	108	108	

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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	34.03	33.41	33.63	33.84	33.95	34.17	34.42	34.62	34.79	35.00
Stocks/Consumption	36.51	24.02	16.76	12.80	10.65	9.42	8.70	8.26	7.99	7.79

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

tons)										
,	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Area	420	421	422	422	423	424	425	425	426	427
Harvested										
Yield	92	92	92	93	93	93	94	94	95	95
Production	38486	38727	38952	39165	39377	39606	39853	40083	40307	40535
A		D								
Australia - Sug					0000	0000	0040	0044	0040	0040
0	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugarcane	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30	13.30
Australia - Sug	ıar Suppl	v and Uti	lization (1000 met	ric tons	raw value	·)			
7 tastrana Cag	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	511	657	600	600	600	600	600	600	600	600
Stocks	011	007	000	000	000	000	000	000	000	000
Production	5500	5151	5181	5209	5237	5268	5301	5331	5361	5391
Net Exports	4159	4013	3968	3978	3987	4000	4014	4027	4042	4054
Exports	4164	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Imports	5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption	1200	1195	1213	1231	1250	1268	1286	1305	1319	1337
Carry-out	657	600	600	600	600	600	600	600	600	600
Stocks										
Aetuslis Dan	O:+- C	· · · · · · · · · · · · · · · · · · ·		/ .:		C4l 4-	Llaa Da	4:- <i>(</i>	4\	
Australia - Per	2004	2005	2006	<u> </u>	2008	2009	2010	2011	2012	2013
Per Capita	61.42	60.60		2007 61.42	61.83		62.65			
Consumption	01.42	00.00	61.01	01.42	01.03	62.24	02.00	63.07	63.28	63.70
Stocks/Consu	54.75	50.22	49.46	48.73	48.01	47.32	46.65	45.99	45.50	44.87
mption	04.70	00.22	40.40	40.70	40.01	47.02	40.00	40.00	40.00	11.07
Brazil - Sugar	Supply a	nd Utiliza	ition (100	00 metric	tons, raw	value)				
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	1290	1260	1209	1218	1215	1214	1213	1212	1211	1209
Stocks										
Production	28370	27673	28414	29071	29732	30394	31055	31716	32378	33039
Net Exports	18100	17318	17843	18364	18878	19398	19917	20443	20962	21458
Exports	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Imports	18100	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption	10300	10406	10562	10710	10855	10997	11139	11275	11417	11582
Carry-out	1260	1209	1218	1215	1214	1213	1212	1211	1209	1208
Stocks										
Brazil - Per Ca	nita Sug	ar Consu	mption (dlograms) and Sto	ocks to Us	se Ratio	(percent)		
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita	55.62	55.58	55.82	56.03	56.23	56.41	56.61	56.79	57.01	57.34
Consumption	00.02	00.00	00.02	00.00	00.20		00.0.	000	0	0.10.
Stocks/Consu	12.23	11.62	11.53	11.34	11.18	11.03	10.88	10.74	10.59	10.43
mption										
			_	_	_		_		_	
China - Area H		i (1000 h								
							2010	2011	2012	2012
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugar Beets	630	626	629	626	626	626	627	629	630	633
Sugarcane	630 1360	626 1357	629 1357	626 1356	626 1356	626 1355	627 1356	629 1355	630 1353	633 1352
	630	626	629	626	626	626	627	629	630	633
Sugarcane	630 1360	626 1357	629 1357	626 1356	626 1356	626 1355	627 1356	629 1355	630 1353	633 1352
Sugarcane Total Area	630 1360 1990	626 1357 1983	629 1357 1987	626 1356	626 1356	626 1355	627 1356	629 1355	630 1353	633 1352
Sugarcane	630 1360 1990 (metric to	626 1357 1983 ons/hecta	629 1357 1987 are)	626 1356 1982	626 1356 1982	626 1355 1981	627 1356 1983	629 1355 1985	630 1353 1983	633 1352 1984
Sugarcane Total Area China - Yields	630 1360 1990 (metric to 2004	626 1357 1983 ons/hecta 2005	629 1357 1987 are) 2006	626 1356 1982 2007	626 1356 1982 2008	626 1355 1981 2009	627 1356 1983	629 1355 1985	630 1353 1983 2012	633 1352 1984 2013
Sugarcane Total Area China - Yields Sugar Beets	630 1360 1990 (metric to 2004 36.00	626 1357 1983 ons/hecta 2005 36.16	629 1357 1987 are) 2006 36.29	626 1356 1982 2007 36.39	626 1356 1982 2008 36.46	626 1355 1981 2009 36.61	627 1356 1983 2010 36.73	629 1355 1985 2011 36.81	630 1353 1983 2012 36.88	633 1352 1984 2013 36.92
Sugarcane Total Area China - Yields	630 1360 1990 (metric to 2004	626 1357 1983 ons/hecta 2005	629 1357 1987 are) 2006	626 1356 1982 2007	626 1356 1982 2008	626 1355 1981 2009	627 1356 1983	629 1355 1985	630 1353 1983 2012	633 1352 1984 2013
Sugarcane Total Area China - Yields Sugar Beets	630 1360 1990 (metric to 2004 36.00	626 1357 1983 ons/hecta 2005 36.16	629 1357 1987 are) 2006 36.29	626 1356 1982 2007 36.39	626 1356 1982 2008 36.46	626 1355 1981 2009 36.61	627 1356 1983 2010 36.73	629 1355 1985 2011 36.81	630 1353 1983 2012 36.88	633 1352 1984 2013 36.92
Sugarcane Total Area China - Yields Sugar Beets	630 1360 1990 (metric to 2004 36.00	626 1357 1983 ons/hecta 2005 36.16	629 1357 1987 are) 2006 36.29	626 1356 1982 2007 36.39	626 1356 1982 2008 36.46	626 1355 1981 2009 36.61	627 1356 1983 2010 36.73	629 1355 1985 2011 36.81	630 1353 1983 2012 36.88	633 1352 1984 2013 36.92
Sugarcane Total Area China - Yields Sugar Beets Sugarcane	630 1360 1990 (metric to 2004 36.00 69.00	626 1357 1983 ons/hecta 2005 36.16 68.75	629 1357 1987 are) 2006 36.29 68.52	626 1356 1982 2007 36.39	626 1356 1982 2008 36.46	626 1355 1981 2009 36.61	627 1356 1983 2010 36.73	629 1355 1985 2011 36.81	630 1353 1983 2012 36.88	633 1352 1984 2013 36.92
Sugarcane Total Area China - Yields Sugar Beets	630 1360 1990 (metric to 2004 36.00 69.00	626 1357 1983 ons/hecta 2005 36.16 68.75	629 1357 1987 are) 2006 36.29 68.52	626 1356 1982 2007 36.39	626 1356 1982 2008 36.46	626 1355 1981 2009 36.61	627 1356 1983 2010 36.73	629 1355 1985 2011 36.81	630 1353 1983 2012 36.88	633 1352 1984 2013 36.92

					00000	00000	00044	00407		00050
Sugar Beets	22680	22642	22843	22781	22823	22908	23041	23167	23230	23352
Sugarcane	93840	93278	92991	92636	92393	92119	91975	91723	91398	91101
China - Sugar			,							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugarbeets Sugarcane	10.15 9.15	10.15 9.15	10.15 9.15	10.15 9.15	10.15 9.15	10.15 9.15	10.15 9.15	10.15 9.15	10.15 9.15	10.15 9.15
Sugarcarie	9.13	9.15	9.15	9.10	9.10	9.13	9.13	9.13	9.15	9.13
China - Sugar	Supply a	nd Utiliza				/ value)				
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	2311	2521	2463	2540	2627	2660	2697	2722	2756	2783
Stocks Production	11240	10833	10827	10789	10770	10754	10754	10744	10721	10706
Beet Sugar	2302	2298	2319	2312	2316	2325	2339	2351	2358	2370
Cane Sugar	8586	8535	8509	8476	8454	8429	8416	8393	8363	8336
Net Imports	1150	1328	1651	1900	2099	2393	2671	3023	3360	3685
Exports	50	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Imports	1200	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption Carry-out	12180 2521	12220 2463	12402 2540	12602 2627	12837 2660	13111 2697	13400 2722	13732 2756	14055 2783	14371 2803
Stocks	202 I	2403	2040	2021	2000	2031	Z1 ZZ	2130	2100	2003
<u> </u>										
China - Per Ca										0010
Por Conito	2004 9.31	2005	2006	2007	2008	2009	2010	2011	2012 10.22	2013
Per Capita	9.31	9.28	9.37	9.46	9.58	9.72	9.87	10.05	10.22	10.38
Consumption										
	20.70	20.15	20.48	20.84	20.72	20.57	20.31	20.07	19.80	19.50
Stocks/Consumption Cuba - Sugarc		20.15 a Harvest	20.48 ed (1000	20.84 hectares	20.72 s), Yield (20.57		20.07 re), and F	19.80	19.50 n (1000 m
Stocks/Consu mption Cuba - Sugard tons)	ane Area	a Harvest	ed (1000 2006	hectares	s), Yield (2008	metric to	ns/hectar 2010	e), and F 2011	Production 2012	n (1000 m 2013
Stocks/Consumption Cuba - Sugarotons) Area	ane Area	a Harvest	ed (1000	hectares	s), Yield (metric to	ns/hectar	e), and P	roduction	n (1000 m
Stocks/Consumption Cuba - Sugardtons) Area Harvested Yield	ane Area 2004 715 28	2005 725 29	ed (1000 2006 725 29	2007 725 29	2008 725 29	2009 725 30	ns/hectar 2010 725 30	e), and F 2011	2012 725 30	2013 726 30
Stocks/Consumption Cuba - Sugardtons) Area Harvested Yield	ane Area 2004 715	2005 725	ed (1000 2006 725	2007 725	2008 725	metric to 2009 725	ns/hectar 2010 725	e), and F 2011 725	2012 725	2013 726
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield	ane Area 2004 715 28	2005 725 29	ed (1000 2006 725 29	2007 725 29	2008 725 29	2009 725 30	ns/hectar 2010 725 30	e), and F 2011 725 30	2012 725 30	2013 726 30
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production	2004 715 28 20020	2005 725 29 20677	ed (1000 2006 725 29 20950	2007 725 29	2008 725 29	2009 725 30	ns/hectar 2010 725 30	e), and F 2011 725 30	2012 725 30	2013 726 30
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production	2004 715 28 20020	2005 725 29 20677	ed (1000 2006 725 29 20950	2007 725 29	2008 725 29	2009 725 30	ns/hectar 2010 725 30	e), and F 2011 725 30	2012 725 30	2013 726 30
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I	ane Area 2004 715 28 20020	2005 725 29 20677	ed (1000 2006 725 29 20950 ercent)	2007 725 29 21147	2008 725 29 21317	2009 725 30 21470	2010 725 30 21617	e), and F 2011 725 30 21774	2012 725 30 21919	2013 726 30 22072
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I	2004 715 28 20020 Extraction 2004	2005 725 29 20677 n Rate (p	ed (1000 2006 725 29 20950 ercent) 2006	2007 725 29 21147	2008 725 29 21317	2009 725 30 21470	2010 725 30 21617	e), and F 2011 725 30 21774	2012 725 30 21919	2013 726 30 22072
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I	2004 715 28 20020 Extraction 2004 10.00	2005 725 29 20677 n Rate (p 2005 10.34	ed (1000 2006 725 29 20950 ercent) 2006 10.34	2007 725 29 21147 2007 10.34	2008 725 29 21317 2008 10.34	2009 725 30 21470 2009 10.34	2010 725 30 21617	e), and F 2011 725 30 21774	2012 725 30 21919	2013 726 30 22072
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I	2004 715 28 20020 Extraction 2004 10.00	2005 725 29 20677 n Rate (p 2005 10.34	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100	2007 725 29 21147 2007 10.34	2008 725 29 21317 2008 10.34	2009 725 30 21470 2009 10.34 value)	2010 725 30 21617 2010 10.34	e), and F 2011 725 30 21774 2011 10.34	2012 725 30 21919 2012 10.34	2013 726 30 22072 2013 10.34
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar S	2004 715 28 20020 Extraction 2004 10.00	2005 725 29 20677 n Rate (p 2005 10.34	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006	2007 725 29 21147 2007 10.34	2008 725 29 21317 2008 10.34 tons, raw 2008	2009 725 30 21470 2009 10.34 value) 2009	2010 725 30 21617 2010 10.34	e), and F 2011 725 30 21774	2012 725 30 21919 2012 10.34	2013 726 30 22072
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar S	2004 715 28 20020 Extraction 2004 10.00	2005 725 29 20677 n Rate (p 2005 10.34	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100	2007 725 29 21147 2007 10.34 0 metric 2007	2008 725 29 21317 2008 10.34	2009 725 30 21470 2009 10.34 value)	2010 725 30 21617 2010 10.34	e), and F 2011 725 30 21774 2011 10.34	2012 725 30 21919 2012 10.34	2013 726 30 22072 2013 10.34
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar I Carry-in Stocks Production	2004 715 28 20020 Extraction 2004 10.00 Supply an 2004 32 2000	2005 725 29 20677 n Rate (p 2005 10.34 d Utiliza 2005 82 2138	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204	2009 725 30 21470 2009 10.34 value) 2009 103 2220	2010 725 30 21617 2010 10.34 2010 109 2235	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251	2012 725 30 21919 2012 10.34	2013 726 30 22072 2013 10.34 2013 94 2282
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar I Carry-in Stocks Production Net Exports	2004 715 28 20020 Extraction 2004 10.00 Supply an 2004 32 2000 1250	2005 725 29 20677 2005 10.34 10.34 2005 82 2138 1422	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433	2007 725 29 21147 2007 10.34 0 metric: 2007 94 2187 1439	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449	2010 725 30 21617 2010 10.34 2010 109 2235 1461	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468	2012 725 30 21919 2012 10.34 2012 101 2266 1473	2013 726 30 22072 2013 10.34 2013 94 2282 1478
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar I Carry-in Stocks Production Net Exports Consumption	2004 715 28 20020 Extraction 2004 10.00 Supply an 2004 32 2000 1250 700	2005 725 29 20677 20677 2005 10.34 2005 82 2138 1422 712	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433 726	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187 1439 738	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452 752	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449 765	2010 725 30 21617 2010 10.34 2010 109 2235 1461 776	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468 789	2012 725 30 21919 2012 10.34 2012 101 2266 1473 801	2013 726 30 22072 2013 10.34 2013 94 2282 1478 812
Stocks/Consumption Cuba - Sugard tons) Area Harvested Yield Production Cuba - Sugard Sugarcane Cuba - Sugard Carry-in Stocks Production Net Exports Consumption Carry-out	2004 715 28 20020 Extraction 2004 10.00 Supply an 2004 32 2000 1250	2005 725 29 20677 2005 10.34 10.34 2005 82 2138 1422	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433	2007 725 29 21147 2007 10.34 0 metric: 2007 94 2187 1439	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449	2010 725 30 21617 2010 10.34 2010 109 2235 1461	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468	2012 725 30 21919 2012 10.34 2012 101 2266 1473	2013 726 30 22072 2013 10.34 2013 94 2282 1478
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar I Carry-in Stocks Production Net Exports Consumption Carry-out	2004 715 28 20020 Extraction 2004 10.00 Supply an 2004 32 2000 1250 700	2005 725 29 20677 20677 2005 10.34 2005 82 2138 1422 712	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433 726	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187 1439 738	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452 752	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449 765	2010 725 30 21617 2010 10.34 2010 109 2235 1461 776	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468 789	2012 725 30 21919 2012 10.34 2012 101 2266 1473 801	2013 726 30 22072 2013 10.34 2013 94 2282 1478 812
Stocks/Consumption Cuba - Sugard tons) Area Harvested Yield Production Cuba - Sugard Sugarcane Cuba - Sugard Carry-in Stocks Production Net Exports Consumption Carry-out	2004 715 28 20020 Extraction 2004 10.00 Supply an 2004 32 2000 1250 700	2005 725 29 20677 20677 2005 10.34 2005 82 2138 1422 712	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433 726	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187 1439 738	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452 752	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449 765	2010 725 30 21617 2010 10.34 2010 109 2235 1461 776	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468 789	2012 725 30 21919 2012 10.34 2012 101 2266 1473 801	2013 726 30 22072 2013 10.34 2013 94 2282 1478 812
Stocks/Consumption Cuba - Sugard tons) Area Harvested Yield Production Cuba - Sugard Sugarcane Cuba - Sugard Sugardane Carry-in Stocks Production Net Exports Consumption Carry-out Stocks	2004 715 28 20020 Extraction 2004 10.00 Supply at 2004 32 2000 1250 700 82	2005 725 29 20677 n Rate (p 2005 10.34 d Utiliza 2005 82 2138 1422 712 86	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433 726 94	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187 1439 738 103	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452 752 103	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449 765 109 cks to Us	2010 725 30 21617 2010 10.34 2010 109 2235 1461 776 107	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468 789 101 percent)	2012 725 30 21919 2012 10.34 2012 101 2266 1473 801 94	2013 726 30 22072 2013 10.34 2013 94 2282 1478 812 86
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar I Carry-in Stocks Production Net Exports Consumption Carry-out Stocks Cuba - Per Ca	2004 715 28 20020 Extraction 2004 10.00 Supply at 2004 32 2000 1250 700 82	2005 725 29 20677 n Rate (p 2005 10.34 d Utiliza 2005 82 2138 1422 712 86	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433 726 94 mption (k 2006	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187 1439 738 103	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452 752 103	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449 765 109 cks to Us 2009	2010 725 30 21617 2010 10.34 2010 109 2235 1461 776 107	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468 789 101 percent) 2011	2012 725 30 21919 2012 10.34 2012 101 2266 1473 801 94	2013 726 30 22072 2013 10.34 2013 94 2282 1478 812 86
Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar I Carry-in Stocks Production Net Exports Consumption Carry-out Stocks Cuba - Per Ca Per Capita	2004 715 28 20020 Extraction 2004 10.00 Supply at 2004 32 2000 1250 700 82	2005 725 29 20677 n Rate (p 2005 10.34 d Utiliza 2005 82 2138 1422 712 86	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433 726 94	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187 1439 738 103	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452 752 103	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449 765 109 cks to Us	2010 725 30 21617 2010 10.34 2010 109 2235 1461 776 107	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468 789 101 percent)	2012 725 30 21919 2012 10.34 2012 101 2266 1473 801 94	2013 726 30 22072 2013 10.34 2013 94 2282 1478 812 86
Consumption Stocks/Consumption Cuba - Sugarctons) Area Harvested Yield Production Cuba - Sugar I Sugarcane Cuba - Sugar S Carry-in Stocks Production Net Exports Consumption Carry-out Stocks Cuba - Per Ca Per Capita Consumption Stocks/Consu	2004 715 28 20020 Extraction 2004 10.00 Supply an 2004 32 2000 1250 700 82 pita Suga 2004 60.83	2005 725 29 20677 n Rate (p 2005 10.34 d Utiliza 2005 82 2138 1422 712 86	ed (1000 2006 725 29 20950 ercent) 2006 10.34 tion (100 2006 86 2166 1433 726 94 mption (k 2006	2007 725 29 21147 2007 10.34 0 metric 2007 94 2187 1439 738 103	2008 725 29 21317 2008 10.34 tons, raw 2008 103 2204 1452 752 103	2009 725 30 21470 2009 10.34 value) 2009 103 2220 1449 765 109 cks to Us 2009	2010 725 30 21617 2010 10.34 2010 109 2235 1461 776 107	e), and F 2011 725 30 21774 2011 10.34 2011 107 2251 1468 789 101 percent) 2011	2012 725 30 21919 2012 10.34 2012 101 2266 1473 801 94	2013 726 30 22072 2013 10.34 2013 94 2282 1478 812 86

Egypt - Area I	-larvested	l (1000 h	ectares)								
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Sugar Beets	38	45	44	44	45	45	46	46	45	45	

Sugarcane	133	133	133	133	133	133	133	133	133	133
Total Area	171	178	177	177	177	178	179	179	179	179
Egypt Violdo	(motrio to	na/haata	ro)							
Egypt - Yields	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugar Beets	43.60	43.70	44.07	44.37	44.68	44.99	45.30	45.61	45.92	46.23
Sugarcane	103.80	103.91	104.13	104.45	104.85	105.32	105.85	106.43	107.06	107.72
ougurouno	100.00	100.01	101.10	10 11 10	10 1.00	100.02	100.00	100.10	107.00	101.12
Equat Dradus	tion (100	O motrio	tona)							
Egypt - Produc	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugar Beets	1674	1960	1930	1974	2001	2032	2063	2077	2089	2103
Sugarcane	13785	13796	13822	13861	13910	13990	14077	14169	14266	14367
Egypt - Sugar	Extraction	n Rates (percent)							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugar Beets	12.75	12.75	12.75	12.75	12.75	12.75	12.75	12.75	12.75	12.75
Sugarcane	8.50	8.50	8.50	8.60	8.60	8.60	8.60	8.60	8.60	8.60
Egypt - Sugar	Supply ar		tion (100	0 metric t	ons, raw	value)				
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in Stocks	319	351	335	324	317	312	309	307	307	308
Production	1410	1423	1421	1444	1451	1462	1474	1483	1493	1504
Beet Sugar	213	250	246	252	255	259	263	265	266	268
Cane Sugar	1172	1173	1175	1192	1196	1203	1211	1219	1227	1236
Net Imports	940	889	961	1008	1071	1129	1181	1239	1294	1347
Exports	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Imports	940	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption	2318	2327	2393	2459	2527	2594	2656	2723	2786	2849
Carry-out	351	335	324	317	312	309	307	307	308	310
Stocks										
Egypt - Per Ca										
Dan Carita	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	32.82	32.36	32.70	33.02	33.36	33.69	33.94	34.25	34.51	34.76
	15.14	14.42	13.55	12.87	12.33	11.90	11.57	11.29	11.07	10.88
mption										
European Unic	n - Suga	r Quota (1000 me	tric tons,	white sug	gar equiv	alent)			
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
A-Quota	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
B-Quota	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
A plus B Quota		13669	13669	13669	13669	13669	13669	13669	13669	13669
Raw Sugar	14626	14626	14626	14626	14626	14626	14626	14626	14626	14626
Equivolont										
Equivalent										
Equivalent			aa Harve	sted (100	00 hectar	es), Yield	l (metric t	tons/hect	are), and	Produc
European Unic	n - Suga	r Beet Ar	cariaive							
·				2007	2008	2009	2010	2011	2012	2013
European Unic metric tons)	2004	2005	2006	2007	2008	2009	2010 2119	2011 2118	2012 2117	2013 2116
European Unic				2007	2008 2122	2009 2120	2010 2119	2011 2118	2012 2117	2013 2116
European Unio metric tons) Area	2004	2005	2006							

European Uni	on - Suga	ar Extract	ion Rate	s (percen	ıt)						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Sugar Beets	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	4699	4717	3941	3555	3570	3585	3601	3616	3631	3646
Stocks										
Production	19684	18759	18619	18614	18639	18671	18707	18751	18790	18834
Net Exports	2004	3423	2710	2122	1967	1821	1683	1551	1420	1293
Exports	4374	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Imports	2370	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption	17662	16112	16295	16477	16656	16834	17010	17184	17356	17526
Carry-out	4717	3941	3555	3570	3585	3601	3616	3631	3646	3660
Stocks										
Furancan Unic	n Day	Canita C.	Can	mntion	(kilo arom	aa) aad C	tooko to	Lloo Doti	. (2222	.4\
European Unio										
D O	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	49.43	45.00	45.43	45.86	46.29	46.72	47.15	47.58	48.01	48.45
Stocks/Consu	26.71	24.46	21.82	21.66	21.53	21.39	21.26	21.13	21.00	20.88
mption										
India - Sugar S										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in Stocks	8500	4700	4641	4652	4685	4727	4772	4808	4849	4885
Production	13590	16518	18111	18986	19778	20224	20490	20757	20926	21044
Net Exports	-1780	-2878	-1640	-1070	-569	-405	-409	-424	-527	-684
Exports	20	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Imports	1800	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption	19170	19456	19740	20022	20305	20585	20863	21140	21417	21693
Carry-out Stocks	4700	4641	4652	4685	4727	4772	4808	4849	4885	4920
India - Per Car				,						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	16.79	16.80	16.81	16.82	16.83	16.84	16.85	16.86	16.87	16.88
Stocks/Consu	24.52	23.85	23.56	23.40	23.28	23.18	23.05	22.94	22.81	22.68
mption										
Indonesia - Su	garcane	Area Ha	rvested (1000 hec	tares), Yi	eld (metr	ic tons/he	ectare), a	nd Produ	uction (1
tons)			`		,.			,,		`
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Area	347	350	353	357	361	365	369	373	378	383
Harvested								74.50	70.47	
Harvested Yield	66.97	67.62	68.27	68.92	69.57	70.22	70.87	71.52	72.17	72.82

Indonesia - S	Sugar Extr	action Ra	ate							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugarcane	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Indonesia -	Sugar Sup	ply and L	Jtilization	(1000 m	etric tons	, raw valı	ue)			
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in Stocks	1170	970	941	939	937	936	934	932	930	928
Production	1950	1892	1927	1966	2007	2049	2092	2137	2183	2229

Net Imports Exports Imports	1350 0 1350	1579 #N/A #N/A	1645 #N/A #N/A	1682 #N/A #N/A	1717 #N/A #N/A	1751 #N/A #N/A	1784 #N/A #N/A	1816 #N/A #N/A	1848 #N/A #N/A	1881 #N/A #N/A
Consumption Carry-out Stocks	3500 970	3500 941	3575 939	3650 937	3725 936	3801 934	3878 932	3955 930	4033 928	4112 926
Indonesia - Pe	r Capita	Sugar Co	onsumpti	on (kilogi	rams) and	d Stocks	to Use R	atio (perc	cent)	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita	15.68	15.45	15.56	15.67	15.78	15.89	16.01	16.13	16.25	16.38
Consumption Stocks/Consumption	27.71	26.88	26.25	25.67	25.12	24.57	24.03	23.52	23.02	22.53
		1 (4000 1								
Japan - Area H	larveste 2004	d (1000 h 2005	ectares) 2006	2007	2008	2009	2010	2011	2012	2013
Sugar Beets	65	65	66	66	66	66	66	66	66	66
Sugarcane	23	24	24	24	24	24	24	24	24	24
Total Area	88	89	90	90	90	90	89	90	91	91
Japan - Yields				2007	2008	2000	2010	2011	2012	2012
Sugar Beets	2004 53.20	2005 53.76	2006 54.22	2007 54.63	2008 55.03	2009 55.41	2010 55.79	2011 56.17	2012 56.54	2013 56.92
Sugarcane	60.20	60.31	60.35	60.40	60.44	60.48	60.53	60.57	60.61	60.66
<u> </u>	00.20		00.00	000		000	00.00	00.0.	00.0.	00.00
Japan - Produ	ction (10	00 metric	tons)							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugar Beets	3458	3507	3556	3599	3632	3652	3660	3712	3745	3761
Sugarcane	1385	1437	1478	1449	1426	1465	1430	1459	1477	1485
Japan - Sugar	Extraction 2004	on Rates 2005	(percent)	2007	2008	2009	2010	2011	2012	2013
Sugar Beets	18.94	18.94	18.94	18.94	18.94	18.94	18.94	18.94	18.94	18.94
Sugarcane	12.13	12.13	12.13	12.13	12.13	12.13	12.13	12.13	12.13	12.13
Japan - Sugar	Supply a	and Utiliz	ation (10	00 metric	tons, rav	w value)				
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in Stocks	387	399	330	296	278	270	265	262	261	259
Production	850	839	853	857	861	869	867	880	888	892
Beet Sugar Cane Sugar	700 150	664 174	673 179	682 176	688 173	692 178	693 173	703 177	709 179	712 180
Net Imports	1452	1353	1382	1408	1429	1443	1466	1473	1486	1503
Exports	10	#N/A								
Imports	1462	#N/A								
Consumption	2290	2260	2269	2282	2299	2317	2335	2355	2376	2397
Carry-out Stocks	399	330	296	278	270	265	262	261	259	258
Japan - Per Ca	apita Sud	gar Consi	umption (kilogram	s) and St	ocks to L	Jse Ratio	(percent)	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita	18.03	17.78	17.84	17.95	18.08	18.23	18.40	18.58	18.78	19.00
Consumption Stocks/Consu	17.42	14.60	13.03	12.20	11.73	11.44	11.23	11.06	10.91	10.75
mption										
Korea - Sugar							2010	2011	2012	2012
Carry-in	2004 110	2005 110	2006 116	2007 121	2008 126	2009 131	2010 135	2011 138	2012 141	2013 144
Stocks Net Imports	1275	1170	1193	1216	1240	1263	1284	1305	1324	1342
Exports	335	#N/A								

Imports Consumption Carry-out Stocks	1610 1275 110	#N/A 1164 116	#N/A 1187 121	#N/A 1211 126	#N/A 1235 131	#N/A 1259 135	#N/A 1281 138	#N/A 1302 141	#N/A 1322 144	#N/A 1340 145
Korea - Per Ca	apita Sug	ar Consu	ımption (kilograms	s) and Sto	ocks to U	lse Ratio	(percent))	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita	26.22	23.79	24.13	24.48	24.83	25.18	25.51	25.83	26.12	26.41
Consumption Stocks/Consumption	8.63	9.94	10.21	10.42	10.59	10.74	10.80	10.85	10.87	10.84
South Africa - metric tons)	Sugarca	ne Area I	Harveste	d (1000 h	ectares),	Yield (m	etric tons	s/hectare)	, and Pro	oduction (100
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Area	339	338	339	342	346	350	354	359	364	369
Harvested	75.40	74.00	74.00	74.40	74.00	74.00	75.00	75.00	75.40	75.00
Yield Production	75.10 25459	74.06 25010	74.26 25177	74.46 25456	74.66 25804	74.86 26193	75.06 26607	75.26 27039	75.46 27480	75.66 27927
South Africa -					20004	20100	20001	27000	27400	<u> </u>
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugarcane	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07	11.07
South Africa -	Sugar Si 2004	upply and	l Utilizatio	on (1000 2007	metric to	ns, raw v 2009	alue) 2010	2011	2012	2013
Carry-in	906	638	588	590	594	602	601	598	590	599
Stocks	550	000	000	000	554	002	551	000	550	000
Production	2818	2769	2787	2818	2856	2900	2945	2993	3042	3091
Net Exports	994	1209	1162	1174	1182	1236	1293	1370	1368	1398
Exports	1300	#N/A								
Imports Consumption	306 1645	#N/A	#N/A 1623	#N/A 1640	#N/A 1667	#N/A 1665	#N/A 1656	#N/A	#N/A 1665	#N/A 1687
Consumption Carry-out Stocks	638	1609 588	590	594	602	601	598	1631 590	599	606
South Africa -	Per Capi	ta Sugar	Consum	ption (kild	ograms) a	and Stock	ks to Use	Ratio (pe	ercent)	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita	37.11	36.44	36.99	37.65	38.63	39.00	39.30	39.23	40.59	41.66
Consumption Stocks/Consumption	38.78	36.55	36.36	36.25	36.11	36.11	36.09	36.18	36.00	35.92
Former Soviet (1000 metric to		2005	2006	2007	2008	2009	2010	2011	2012	2013
Area	2221	2235	2249	2262	2276	2290	2303	2317	2331	2346
Harvested Yield	15.26	15.36	15 46	15.55	15.65	15 75	15 95	15.95	16.06	16 16
Production	15.26 33895	34319	15.46 34754	35190	35630	15.75 36070	15.85 36512	36972	37432	16.16 37905
Former Soviet						2009	2010	2011	2012	2013
Sugar Beets	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56	11.56
Former Soviet	Union -	Sugar Su	pply and	Utilizatio	n (1000 r	metric tor	ns, raw va	alue)		
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	1793	1752	1915	2010	2069	2109	2139	2161	2181	2197
Stocks	2040	2007	4040	4000	4440	4470	4004	4074	4207	4200
Production Net Imports	3918 6975	3967 7093	4018 7015	4068 6971	4119 6950	4170 6941	4221 6929	4274 6930	4327 6926	4382 6922
Exports	935	#N/A								
	555	// T// T	// T// T	// T// T	// T// T	// T	// \ \ // \	// T	// T	4// 1

Imports	7910	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption	10960	10897	10937	10980	11029	11080	11129	11184	11237	11290
Carry-out	1752	1915	2010	2069	2109	2139	2161	2181	2197	2212
Stocks										
Former Soviet										
- · ·	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	37.15	36.93	37.03	37.13	37.24	37.34	37.43	37.53	37.61	37.69
Stocks/Consu	15.99	17.57	18.38	18.84	19.12	19.31	19.42	19.50	19.56	19.59
mption										
Thailand - Sug	or Cono	Aron Hor	vootod (1	000 boot	oroo) Vi	old (motri	io tono/ho	otoro) o	nd Drodu	otion (10
tons)	ai Carie	Агеа паг	vested (1	1000 neci	ares), fi	eia (mein	ic toris/rie	ciale), a	na Frodu	Clion (10
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Area	930	1009	1068	1113	1147	1173	1192	1207	1218	1227
Harvested										
Yield	56.00	57.61	58.35	58.82	59.22	59.59	59.95	60.31	60.67	61.03
Production	52080	58118	62332	65479	67922	69871	71467	72789	73911	74885
Thailand - Sug	ar Extrac	ction Rate	es (percei	nt)						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sugarcane	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
Thailand - Sug	ar Sunni	v and Liti	lization (1	1000 meti	ric tone r	aw value	۸			
mananu - Sug	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carry-in	915	585	736	820	869	901	924	943	961	978
Stocks	0.10	000	700	020	000	001	021	0.10	001	0.0
Production	6520	6393	6857	7203	7471	7686	7861	8007	8130	8237
Net Exports	4800	4208	4707	5055	5307	5494	5637	5743	5824	5888
Exports	4800	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Imports	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Consumption Carry-out	2050 585	2034 736	2066 820	2098 869	2132 901	2168 924	2205 943	2246 961	2289 978	2332 995
Stocks	303	730	020	003	301	324	343	301	310	333
		_								
Thailand - Per										2042
Por Conito	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Per Capita Consumption	31.06	30.54	30.76	30.99	31.25	31.54	31.85	32.21	32.62	33.03
Stocks/Consu	28.54	36.21	39.69	41.43	42.26	42.64	42.78	42.79	42.74	42.68
mption	20.0		00.00				0	0		
Rest of the Wo							0040	2044	2042	2042
Not Ever sets	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Net Exports	-12247	-12098	-12888	-13245	-13822	-14016	-13966	-13962	-13854	-13626
World - Sugar	Prices (L	J.S. cents	s/pound)							
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2012
0	8.40	8.42	8.38	8.37	8.32	8.29	8.43	8.43	8.55	8.70