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## TABLE OF CONTENTS

List of Tables ..... ii
List of Figures ..... ii
Abstract ..... iii
Highlights ..... iv
Introduction ..... 1
Overview of the World Sugar Industry and Sugar Policies ..... 2
U.S. Sugar Programs and Policies ..... 6
Domestic and Export Subsidies in the EU, South Africa, and Mexico ..... 7
Brazil ..... 8
State Trading Enterprises in Australia, China, and India ..... 8
Outlook for the World Sugar Industry ..... 8
United States ..... 8
Exporters ..... 9
Importers ..... 12
Concluding Remarks ..... 16
References ..... 17
Appendix ..... 19

## LIST OF TABLES

No. Page
1 World Sugar Supply and Utilization, 2001 to 2005 Average ..... 2
2 U.S. Sugar Production, Consumption, Exports, and Carry-over Stocks, 2005-2015 Average ..... 9
3 Sugar Production, Consumption, Exports, and Carry-over Stocks in Exporting Countries ..... 11
4 Sugar Production, Consumption, Imports, and Carry-over Stocks in Importing Countries ..... 15

## LIST OF FIGURES

No. Page
1 U.S. and World Sugar Price ..... 3
2 U.S. Beet and Cane Sugar Production ..... 4
3 U.S. Sugar Production and Imports ..... 5
4 U.S. Sugar Consumption and Ending Stocks ..... 5
5 Estimated U.S. and World Sugar Price ..... 9
6 World Sugar Exports by Country ..... 10
7 World Sugar Imports by Country, Major Importers ..... 12
8 World Sugar Imports by Country, Asian Countries ..... 13
9 World Sugar Imports by Country, African Countries ..... 13


#### Abstract

This report evaluates the U.S. and world sugar markets for 2005-2015 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 over the next 10 years, mainly because higher world oil prices have increased the conversion of sugar into ethanol by Brazil. Brazil is the largest exporter of sugar, and it is expected that Brazilian sugar exports may be reduced due to high oil prices. World demand for sugar is expected to grow faster than world supply, resulting in Carribean sugar prices increasing from 11.35 cents/lb in 2005 to 18.05 cents/lb in 2015. The U.S. wholesale price of sugar is projected to increase from 27.04 cents/lb in 2005 to 32.70 cents/lb in 2015, if Brazil continues to convert sugar into ethanol. 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 410 thousand metric tons of sugar to the United States by 2015. 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 3\% between 2005 and 2015, from 32.0 million metric tons to 33.0 million metric tons. Brazil's exports are projected to decrease from 18.2 million metric tons in 2005 to 16.6 million metric tons in 2015 because of increased ethanol production from sugar cane. World sugar prices also are projected to increase from 11.35 cents/lb in 2005 to 18.05 cents/lb in 2015. U.S. sugar price is projected to increase from 27.04 cents/lb in 2005 to 32.70 cents/lb in 2015.
U.S. sugar imports are predicted to decrease 2.15\% over the 2005-2015 period because of higher domestic production due to price increases, assuming increased government allotments. U.S. sugar consumption is projected to decrease $7.2 \%$, and ending stocks are predicted to decrease 14.6\%.

Canada’s production is predicted to increase $3.5 \%$ from 2005 to 2015. Canada’s imports are expected to increase $17.0 \%$. Consumption is predicted to increase $16.1 \%$, and ending stocks are predicted to decrease 62.1\%.

Mexico's production is expected to increase $16.2 \%$, and exports are expected to increase to 0.4 million metric tons by 2015 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 increase 29.9\%, due to higher world sugar prices. Their production and consumption are predicted to increase $9.0 \%$ and $9.5 \%$, respectively.

Production in India is predicted to increase $25.4 \%$, while consumption is predicted to increase 16.9\% for the 2005-2015 period. India should export about 2.7 million metric tons by 2015.

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 2005-2015 period.

# 2005 Outlook of the U.S. and World Sugar Markets, 2005-2015 

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, although in recent years the EU has revised their Common Agricultural Policy sugar program. 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.

During late 2005 and the first quarter of 2006, world sugar price increased from about $\$ 0.12 / \mathrm{lb}$ to over $\$ 0.18 / \mathrm{lb}$, indicating that either production has decreased or consumption has increased. Since world production and consumption data are available only on an annual basis, the exact reason behind the price increase is not clear. One reason could be that because of the recent rise in world oil prices, Brazil has increased ethanol production, reducing the exportable supply of sugar. That reduced supply may be the main reason for the price increase.

This report evaluates the U.S. and world sugar industry for 2005-2015 using the Global Sugar Policy Simulation Model developed by Benirschka et al. (1996). This model was run utilizing 2005 data, but consideration was given to the high prices in late 2005 and early 2006. 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 $50 \%$.

[^0]
## OVERVIEW OF THE WORLD SUGAR INDUSTRY AND SUGAR POLICIES

For the 2001-2005 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 the EU and India (Table 1).

Table 1. World Sugar Supply and Utilization, 2001 to 2005 Average

| Country/ <br> Region | Beet/ <br> Cane | Consumption | Production | Net Exports | Ending Stocks | Per Capita Consumption |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ----------1,000 metric tons, raw value---------- |  |  |  |  |
| Algeria | B | 1,128 | 10 | $(1,086)$ | 290 | 33 |
| Australia | C | 1,160 | 5,141 | 4,009 | 461 | 59 |
| Brazil | C | 10,316 | 25,497 | 15,224 | 466 | 56 |
| Canada | B | 1,396 | 91 | $(1,330)$ | 271 | 43 |
| China | B/C | 11,157 | 10,149 | (916) | 1,696 | 9 |
| Cuba | C | 700 | 2,210 | 1,480 | 146 | 62 |
| European Union | B | 16,713 | 20,725 | 3,879 | 4,017 | 47 |
| Egypt | B/C | 2,354 | 1,354 | (374) | 405 | 34 |
| Former Soviet Union | B/C | 6,458 | 1,928 | $(4,004)$ | 934 | 22 |
| India | C | 19,570 | 18,060 | 116 | 8,492 | 17 |
| Indonesia | C | 3,510 | 1,792 | $(1,569)$ | 1,157 | 16 |
| Japan | B/C | 2,272 | 867 | (725) | 386 | 18 |
| Korea | - | 1,300 | 0 | $(1,311)$ | 118 | 27 |
| Mexico | C | 5,384 | 5,575 | 69 | 1,593 | 50 |
| South Africa | C | 1,574 | 2,612 | 933 | 791 | 36 |
| Thailand | C | 1,980 | 6,042 | 4,123 | 847 | 30 |
| United States | B/C | 9,068 | 7,391 | $(1,638)$ | 1,408 | 32 |
| Rest of World | B/C | 38,897 | 29,495 | $(16,882)$ | 13,106 | 18 |
| World | B/C | 134,938 | 138,938 |  | 36,554 | 20 |

Per capita sugar consumption was highest in Cuba, followed by Australia and Brazil. Per capita sugar consumption in the United States was 32 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 2001-2005 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 2001 to 2005. A relatively small number of countries dominate world sugar exports, but imports are less concentrated. Major importing countries were the Former Soviet Union (FSU), the United States, Indonesia, Canada, Korea, Algeria, and Japan. Imports by these countries accounted for about $44 \%$ of all sugar imports from 2001 to 2005. 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 shows the dramatic increase in Caribbean sugar price in late 2005 and early 2006. In 2003, the price averaged $\$ 0.07 / \mathrm{lb}$; this had risen to $\$ 0.12 / \mathrm{lb}$ by 2005 , and it was $\$ 0.18 / \mathrm{lb}$ in June 2006. The high Caribbean sugar price has also increased the U.S. wholesale price to over $\$ 0.30 / \mathrm{lb}$.


Figure 1. U.S. and World Sugar Prices

The volatility in world sugar prices could be due to the nature of the 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 investment 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; however, sugar price does respond to changes in consumption.

The United States produces both beet and cane sugar. Cane sugar is produced mainly in Florida, Louisiana, and Texas. Beet sugar is produced largely in the Great Lakes region, Upper Midwest, Great Plains, and far western states. Beet sugar production increased $17.6 \%$ from 1990 to 2005,
while cane sugar production increased $6.6 \%$ (Figure 2). U.S. total sugar production increased about $11 \%$, from 6.2 million metric tons in 1990 to 6.9 million metric tons in 2005 (Figure 3).
U.S. consumption of sugar also increased 15.6\%, from 8.0 million metric tons in 1990 to 9.3 million metric tons in 2005 (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 1.6 million metric tons during the 1990 to 2005 period. Under the North American Free Trade Agreement (NAFTA), Mexico can currently export 260,000 metric tons of sugar to the United States, and its exports to the United States will be unlimited beginning in 2008 when implementation of NAFTA is completed. Mexico has exported less than 100,000 metric tons of sugar into the United States over the last few years, due to production shortages. The U.S.-Central American Free Trade Agreement (CAFTA), which is a free trade agreement (FTA) currently consisting of six Central American countries, provides additional sugar imports of 107,000 metric tons, with further increases of 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, which was increased to 1,231,497 metric tons for 2005 because of production losses due to Katrina. 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 duties have remained constant since 2000.

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 15.82 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 6.0 million metric tons of sugar in 2005 and consumed 5.4 million metric tons in the same year. Its net exports were 243 thousand metric tons 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. Mexico has been declared an excess sugar producer, which will allow additional exports into the United States.

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, with additional increases of about 3,000 metric tons per year. This increase, however, does not have a significant impact on the price of U.S. sugar or world trade flows. Recent trade agreement 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, and they have not changed these export subsidy commitments under the Lome Convention. The EU is proposing to limit sugar production to about 14.9 million metric tons per year, down from its current production level of 21.2 million metric tons. If the EU limits sugar production to the stated level, it 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, although net exports for 2005 were 1.0 million metric tons. Mexico also subsidizes exports and is subsidizing raw sugar storage.

## Brazil

Brazil is the largest sugar producing country in the world. The production of sugar has increased $263 \%$ since 1990. About $50 \%$ of the Brazilian sugar consumed domestically is converted into ethanol for fuel. Sugar exports have risen from 1.2 million metic tons in 1990 to 18.2 million metric tons in 2005. Sugar that is converted into ethanol is subsidized at prices higher than world price. Recent increases in world oil prices have increased the price of ethanol which has in turn increased Brazil’s conversion of sugar into ethanol, reducing potential sugar exports from Brazil. The reduction in exports has drastically increased world sugar prices.

## 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 of 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 grown in Australia. The QSC supports domestic producers through buyer-seller arrangements, marketing quotas, dual pricing arrangements, and other quasigovernment 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 $3 \%$, from 32.0 to 33.0 million metric tons over the 2005-2015 period, because the largest exporter, Brazil, is expected to reduce exports. Exports of sugar in most other countries will increase for 2005-2015. Exports for Thailand will increase 23.4\%, and exports for Australia will increase 13.8\%.

World sugar price, referred to as the Caribbean price of sugar, is projected to increase about $59 \%$, from 11.35 cents/lb in 2005 to 18.05 cents/lb in 2015 (Figure 5), because of substantial diversion of sugar cane to ethanol production. The domestic wholesale price of U.S. sugar is projected to increase $20.9 \%$, from 27.04 cents/lb in 2005 to 32.70 cents/lb in 2015. U.S. sugar price increases mainly in response to the higher world sugar prices.

## 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 8.1 million metric tons in 2015. Imports are predicted to decrease slightly from the 2003-05 average. The high world sugar price will provide other markets for excess world sugar supplies. U.S. sugar consumption is predicted to increase $7.2 \%$, from 9.2 million metric tons (the 2003-2005 average) to 9.8 million metric tons in 2015. Ending stocks are also predicted to decrease 14.6\% (Table 2).


Figure 5. Estimated U.S. and World Sugar Prices

Table 2. U.S. Sugar Production, Consumption, Imports, and Carry-over Stock, 2005-2015 Average

|  | Average <br> $(2003-2005)$ | 2005 | 2015 | \% Change <br> (2003-05) to 2015 |
| :--- | ---: | :---: | :---: | :---: |
|  | $-\cdots-\cdots----1,000$ metric tons---------- |  |  |  |
| Production | 7,736 | 6,889 | 8,054 | 9.94 |
| $\quad$ Beet | 4,192 | 4,056 | 4,922 | 17.44 |
| $\quad$ Cane | 3,134 | 2,833 | 3,132 | -0.08 |
| Net Imports | 1,826 | 2,354 | 1,787 | -2.15 |
| Per capita Consumption | 64 | 64 | 62 | -2.66 |
| Consumption | 9,160 | 9,267 | 9,819 | 7.19 |
| Carry-over Stocks | 1,380 | 1,197 | 1,178 | -14.61 |

## Exporters

The EU's exports are predicted to increase from 3.2 million metric tons for 2003-2005 to 4.2 million metric tons in 2015 (Figure 6). Sugar production in the EU is predicted to increase 9.0\%, and consumption is predicted to increase from 16.7 million metric tons for the 2003-2005 average to 18.3 million tons in 2015 (Table 3). Most of the increase is due to the additional countries now included in the EU.

Brazil's production is predicted to increase $3.7 \%$, from 27.8 million metric tons in 2003-2005 to 28.8 million metric tons in 2015 (Table 3). Brazil's exports are predicted to decrease from 16.8 million metric tons in 2003-2005 to 16.7 million metric tons in 2015. Its domestic consumption is predicted to increase $13.8 \%$, from 10.6 million metric tons in 2003-2005 to 12.1 million metric tons in 2015. Much of the increase in consumption is due to ethanol production.


Figure 6. World Sugar Exports by Country

Thailand's exports are predicted to increase $23.4 \%$, from 3.7 million metric tons for the 20032005 average to 4.6 million metric tons in 2015 (Table 3). Consumption increases from 2.0 million metric tons for the 2003-2005 average to 2.4 million metric tons in 2015. Sugar production in the country also is predicted to increase $26.5 \%$, from 5.5 million metric tons to 7.0 million metric tons in 2015.

Australia's exports are predicted to increase $13.8 \%$, from 4.1 million metric tons for the 20032005 average to 4.7 million metric tons in 2015 (Table 3), due mainly to increased sugar production. Australia's production is predicted to increase $14.7 \%$, from 5.2 million metric tons to 6.0 million metric tons in 2015. Sugar consumption is expected to increase 7.6\%, from 1.2 million metric tons to 1.3 million metric tons in 2015.

Cuba's exports are predicted to decrease 10.4\%, from 1.0 million metric tons in 2003-2005 to 0.9 million metric tons in 2015 (Table 3). It is predicted that Cuba will decrease its sugar production slightly, while consumption is predicted to increase by $5.4 \%$. 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 $16.2 \%$, from 5.8 million metric tons in 2003-2005 to 6.8 million metric tons in 2015. Mexico is expected to export 410 thousand metric tons by 2015, mainly to the United States under NAFTA. Sugar consumption is predicted to increase 15.3\%, from 5.5 million metric tons in 2003-2005 to 6.3 million metric tons in 2015, under the assumption that Mexico does not convert to HFCS in their soft drink industry. Ending stocks are predicted to increase 27.1\%. 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 $14.1 \%$, from 2.5 million metric tons in 20032005 to 2.9 million metric tons in 2015. South Africa's exports are predicted to increase $65.1 \%$, from 0.9 million metric tons in 2003-2005 to 1.5 million metric tons in 2015, due mainly to increased production. Sugar consumption is predicted to decrease $6.3 \%$, and ending stocks are predicted to increase $1.0 \%$.

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

|  | $\begin{gathered} \hline \text { Average } \\ (2003-2005) \end{gathered}$ | 2005 | 2015 | $\begin{gathered} \text { \% change } \\ (2003-05) \text { to } 2015 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | ----------1,000 metric tons-------- |  |  |  |
| European Union |  |  |  |  |
| Production | 20,677 | 21,233 | 22,536 | 9.0 |
| Net Exports | 3,236 | 4,873 | 4,202 | 29.9 |
| Consumption | 16,738 | 17,525 | 18,332 | 9.5 |
| Carry-over | 3,902 | 4,717 | 3,660 | -18.4 |
| Brazil |  |  |  |  |
| Production | 27,758 | 28,700 | 28,782 | 3.7 |
| Net Exports | 16,840 | 18,250 | 16,684 | -0.9 |
| Consumption | 10,633 | 10,800 | 12,100 | 13.8 |
| Carry-over | 617 | 235 | 249 | -59.6 |
| Thailand |  |  |  |  |
| Production | 5,509 | 4,330 | 6,967 | 26.5 |
| Net Exports | 3,727 | 2,700 | 4,598 | 23.4 |
| Consumption | 2,043 | 2,100 | 2,354 | 15.2 |
| Carry-over | 736 | 262 | 993 | 34.9 |
| Australia |  |  |  |  |
| Production | 5,194 | 5,200 | 5,956 | 14.7 |
| Net Exports | 4,113 | 4,230 | 4,681 | 13.8 |
| Consumption | 1,183 | 1,150 | 1,273 | 7.6 |
| Carry-over | 379 | 223 | 255 | -32.7 |
| Cuba |  |  |  |  |
| Production | 1,733 | 1,450 | 1,662 | -4.1 |
| Net Exports | 1,044 | 732 | 935 | -10.4 |
| Consumption | 700 | 700 | 738 | 5.4 |
| Carry-over | 88 | 150 | 100 | 13.6 |
| Mexico |  |  |  |  |
| Production | 5,826 | 6,000 | 6,770 | 16.2 |
| Net Exports | 50 | 243 | 410 | 714.6 |
| Consumption | 5,502 | 5,482 | 6,345 | 15.3 |
| Carry-over | 1,866 | 2,318 | 2,371 | 27.1 |
| South Africa |  |  |  |  |
| Production | 2,528 | 2,665 | 2,884 | 14.1 |
| Net Exports | 888 | 1,050 | 1,469 | 65.1 |
| Consumption | 1,509 | 1,555 | 1,413 | -6.3 |
| Carry-over | 923 | 980 | 933 | 1.0 |

## Importers

Figures 7 through 9 show sugar imports by the major sugar importing countries. Sugar imports of selected Asian and African countries are expected to increase $63.4 \%$ and $27.4 \%$, respectively, for the 2005-2015 period. The FSU is the largest importer for the period, followed by Indonesia and Japan.

Canada's production is predicted to increase above the 2003-2005 average of 104 thousand metric tons to 108 thousand metric tons by the year 2015, and consumption is predicted to increase from 1.4 million metric tons to 1.7 million metric tons in 2015 (Table 4). As a result, Canada’s imports are predicted to increase 17.0\%, from 1.3 million metric tons to 1.6 million metric tons in 2015.

The FSU's production is predicted to increase $24.2 \%$, from 2.1 million metric tons to 2.7 million metric tons in 2005-2015; consumption is predicted to increase $4.6 \%$, from 6.3 million metric tons to 6.6 million metric tons for the same period. Imports are predicted to decrease slightly from the 2003-2005 average (Table 4).

China is expected to increase its imports about 217\%, from 1.2 million metric tons in 2003-2005 to 3.7 million metric tons in 2015 (Table 4). China's production is predicted to decrease 3.7\%, from 10.4 million metric tons for the 2003-2005 average to 10.9 million metric tons in 2015; consumption is predicted to increase $22.9 \%$, from 11.8 million metric tons to 14.5 million metric tons for the period.

India’s production is predicted to increase $25.4 \%$, from 15.9 million metric tons in 2003-2005 to 20.0 million metric tons in 2015 . India is predicted to export 2.7 million metric tons of sugar by 2015, mainly because of the higher sugar prices.


Figure 7. World Sugar Imports by Country, Major Importers


Figure 8. World Sugar Imports by Country, Asian Countries


Figure 9. World Sugar Imports by Country, African Countries

Japan's imports are predicted to decrease 1.4\% from the 2003-2005 average to 1.4 million metric tons in 2015, due mainly to slow domestic consumption increases (Table 4).

In South Korea, consumption is predicted to increase $12.7 \%$ for the time period. As a result, South Korea's imports are predicted to increase $11.5 \%$ for the period. There is no domestic production of either sugar cane or sugar beets in South Korea.

In Algeria, consumption is predicted to increase 23.8\%, from 1.2 million metric tons in 20032005 to 1.5 million metric tons in 2015. This increase in consumption results in a growth in imports from 1.2 million metric tons for the 2003-2005 average to 1.5 million metric tons in 2015.

Egypt’s imports are predicted to increase 31.1\%, from 1.0 million metric tons in 2003-2005 to 1.4 million metric tons in 2015, due mainly to increased consumption. Consumption is predicted to increase 25.9\%, from 2.4 million metric tons to 3.0 million metric tons in 2015.

Indonesia’s imports are predicted to decrease 4.3\%, from 1.6 million metric tons in 2003-2005 to 1.4 million metric tons in 2015. Consumption is predicted to decrease from 3.6 million metric tons for the 2003-2005 average to 3.3 million metric tons in 2015 in response to higher sugar prices.

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

|  | Average (2003-05) | 2005 | 2015 | $\begin{gathered} \text { \% Change } \\ (2003-05) \text { to } 2015 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | -----------1,000 metric tons------------ |  |  |  |
| Algeria |  |  |  |  |
| Production | 10 | 10 | 12 | 20.0 |
| Net Imports | 1,175 | 1,170 | 1,459 | 24.2 |
| Consumption | 1,188 | 1,150 | 1,471 | 23.8 |
| Carry-over | 426 | 449 | 399 | -6.3 |
| Canada |  |  |  |  |
| Production | 104 | 98 | 108 | 3.5 |
| Net Imports | 1,346 | 1,364 | 1,574 | 17.0 |
| Consumption | 1,444 | 1,431 | 1,676 | 16.1 |
| Carry-over | 277 | 288 | 105 | -62.1 |
| China |  |  |  |  |
| Production | 10,353 | 10,734 | 10,851 | 4.8 |
| Net Imports | 1,167 | 1,160 | 3,701 | 217.2 |
| Consumption | 11,827 | 11,600 | 14,530 | 22.9 |
| Carry-over | 1,863 | 2,311 | 1,633 | -12.3 |
| Egypt |  |  |  |  |
| Production | 1,355 | 1,335 | 1,651 | 21.8 |
| Net Imports | 1,040 | 950 | 1,363 | 31.1 |
| Consumption | 2,391 | 2,315 | 3,010 | 25.9 |
| Carry-over | 447 | 363 | 531 | 18.7 |
| Former Soviet Union |  |  |  |  |
| Production | 2,143 | 1,930 | 2,663 | 24.2 |
| Net Imports | 3,947 | 3,560 | 3,900 | -1.2 |
| Consumption | 6,283 | 6,100 | 6,570 | 4.6 |
| Carry-over | 497 | 440 | 270 | -45.6 |
| India |  |  |  |  |
| Production | 15,930 | 15,150 | 19,982 | 25.4 |
| Net Imports | (673) | 270 | $(2,689)$ | NA |
| Consumption | 19,370 | 18,810 | 22,642 | 16.9 |
| Carry-over | 6,120 | 8,500 | 5,062 | -17.3 |
| Indonesia |  |  |  |  |
| Production | 1,827 | 1,730 | 1,978 | 8.3 |
| Net Imports | 1,550 | 1,500 | 1,484 | -4.3 |
| Consumption | 3,583 | 3,247 | 3,262 | -8.9 |
| Carry-over | 1,020 | 354 | 471 | -53.8 |
| Japan |  |  |  |  |
| Production | 879 | 896 | 894 | 1.7 |
| Net Imports | 1,386 | 1,346 | 1,367 | -1.4 |
| Consumption | 2,253 | 2,247 | 2,262 | 0.4 |
| Carry-over | 417 | 354 | 471 | 12.9 |
| Korea |  |  |  |  |
| Production | 0 | 0 | 0 | 0.0 |
| Net Imports | 1,338 | 1,344 | 1,492 | 11.5 |
| Consumption | 1,325 | 1,304 | 1,493 | 12.7 |
| Carry-over | 123 | 110 | 42 | -65.9 |

## CONCLUDING REMARKS

This report provides an overview of the U.S. and world sugar markets for 2005-2015 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 3\%, from 32.0 million metric tons in 2005 to 33.0 million metric tons in 2015. The price of Caribbean sugar is expected to increase about $59 \%$, from 11.35 cents/lb in 2005 to 18.05 cents/lb in 2015, because of substantial increases in ethanol production from sugar cane in Brazil. The wholesale price of U.S. sugar is projected to increase $20.9 \%$, from 27.04 cents/lb in 2005 to 32.70 cents/lb in 2015. If Mexico is allowed to export additional sugar to the United States, that price increase could be smaller.

Exports are predicted to increase for Australia, South Africa, the EU, and Thailand, due mainly to the increased sugar price.

Imports by most importing countries are predicted to increase from the 2003-05 average to 2015. China's imports are predicted to increase $217 \%$, while Japan's imports are predicted to decrease $1.4 \%$. Imports by South Korea and Algeria are predicted to increase $11.5 \%$ and $24.2 \%$, respectively.
U.S. sugar consumption is predicted to increase $7.2 \%$ for the forecasting period, while production is expected to increase $9.9 \%$. Imports are predicted to decrease $2.2 \%$ for the period because of higher world sugar prices. 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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## Appendix

2006 Baseline Solution

United States - Nominal Sugar Beet and Sugarcane Farm Prices (dollars/short ton)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Sugar Beets | 40.00 | 41.21 | 41.27 | 40.79 | 41.09 | 41.27 | 41.45 | 42.65 | 42.47 | 42.83 |
| Sugarcane | 27.00 | 28.79 | 28.85 | 28.36 | 28.67 | 28.85 | 29.04 | 30.28 | 30.09 | 30.46 |

United States - Nominal Sugar Prices (U.S. cents/pound)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Caribbean Price | 11.35 | 18.00 | 17.05 | 16.65 | 15.90 | 15.95 | 16.20 | 16.70 | 17.05 | 17.55 | 18.05 |
| TRQ Status | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota |
| Implicit Tariff | 7.00 | 4.00 | 5.00 | 5.00 | 6.00 | 6.10 | 6.00 | 6.50 | 6.00 | 5.80 | 5.70 |
| Import Price | 18.35 | 22.00 | 22.05 | 21.65 | 21.90 | 22.05 | 22.20 | 23.20 | 23.05 | 23.35 | 23.75 |
| Wholesale Price | 27.04 | 30.87 | 30.92 | 30.50 | 30.76 | 30.92 | 31.08 | 32.13 | 31.97 | 32.28 | 32.70 |
| Retail Price | 43.61 | 43.81 | 43.88 | 43.31 | 43.67 | 43.88 | 44.10 | 45.52 | 45.31 | 45.73 | 46.30 |

United States - Area Harvested (1000 acres)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Sugar Beets | 1350 | 1388 | 1419 | 1445 | 1458 | 1471 | 1483 | 1499 | 1518 | 1541 | 1567 |
| Sugarcane | 866 | 878 | 890 | 899 | 895 | 893 | 894 | 899 | 906 | 917 | 929 |
| Total Area | 2216 | 2267 | 2309 | 2344 | 2354 | 2364 | 2377 | 2398 | 2424 | 2457 | 2496 |

United States - Yields (short tons/acre)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Sugar Beets | 23.00 | 22.95 | 23.09 | 23.18 | 23.26 | 23.38 | 23.46 | 23.59 | 23.67 | 23.85 | 24.05 |
| Sugarcane | 29.40 | 29.36 | 29.41 | 29.51 | 29.63 | 29.67 | 29.76 | 29.88 | 30.02 | 30.16 | 30.32 |

United States - Sugar Beet and Sugarcane Production (1000 short tons)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Sugar Beets | 31050 | 31871 | 32771 | 33490 | 33918 | 34387 | 34790 | 35359 | 35931 | 36742 | 37679 |
| Sugarcane | 25472 | 25788 | 26171 | 26535 | 26526 | 26505 | 26605 | 26872 | 27212 | 27648 | 28157 |

United States - Sugar Extraction Rates (percent)

|  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Variable | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Sugar Beets | 14.40 | 14.40 | 14.40 | 14.40 | 14.40 | 14.40 | 14.40 | 14.40 | 14.40 | 14.40 | 14.40 |
| Sugarcane | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 |

United States - Sugar Production (1000 short tons)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Beet Sugar | 4471 | 4589 | 4719 | 4823 | 4884 | 4952 | 5010 | 5092 | 5174 | 5291 | 5426 |
| Cane Sugar | 3123 | 3162 | 3209 | 3253 | 3252 | 3250 | 3262 | 3295 | 3336 | 3390 | 3452 |
| All Sugar | 7594 | 7751 | 7928 | 8076 | 8136 | 8201 | 8272 | 8386 | 8510 | 8680 | 8878 |

United States - Sugar Import Quotas (1000 short tons, raw value) and Tariffs (U.S. cents/pound, raw sugar, most countries)

| Variable | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Tariff Rate Quota | 1256 | 1256 | 1256 | 1256 | 1256 | 1256 | 1256 | 1256 | 1256 | 1256 | 1256 |
| Below Quota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tariff <br> Above Quota | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 | 15.36 |

United States - Implicit Tariff (U.S. cents/pound) and Sugar Trade (1000 short tons)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| TRQ Status | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota | Quota |
| Implicit Tariff | 7.00 | 4.00 | 5.00 | 5.00 | 6.00 | 6.10 | 6.00 | 6.50 | 6.00 | 5.80 | 5.70 |
| Total Imports | 2100 | 2066 | 2071 | 2076 | 2081 | 2086 | 2091 | 2091 | 2091 | 2091 | 2090 |
| Quota-sugar | 1600 | 1566 | 1571 | 1576 | 1581 | 1586 | 1591 | 1591 | 1591 | 1591 | 1591 |
| Imports |  |  |  |  |  |  |  |  |  |  |  |
| Other Sugar | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Imports |  |  |  |  |  |  |  |  |  |  |  |
| Total Exports | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Net Imports | 1980 | 1946 | 1951 | 1956 | 1961 | 1966 | 1971 | 1971 | 1971 | 1971 | 1970 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Carry-in Stocks | 1347 | 1320 | 1244 | 1223 | 1227 | 1236 | 1301 | 1280 | 1275 | 1282 | 1291 |
| Production | 7593 | 7751 | 7928 | 8076 | 8136 | 8201 | 8272 | 8386 | 8510 | 8680 | 8878 |
| Net Imports | 2595 | 1946 | 1951 | 1956 | 1961 | 1966 | 1971 | 1971 | 1971 | 1971 | 1970 |
| Consumption | 10215 | 9780 | 9915 | 10106 | 10209 | 10326 | 10437 | 10500 | 10654 | 10738 | 10823 |
| Carry-out Stocks | 1320 | 1244 | 1223 | 1227 | 1236 | 1301 | 1280 | 1275 | 1282 | 1291 | 1299 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Per Capita <br> Consumption <br> Stocks/Consumpti <br> on $\mathbf{7 0 . 5 5}$ | 66.93 | 67.25 | 67.93 | 68.03 | 68.21 | 68.36 | 68.19 | 68.60 | 68.55 | 68.50 |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 20 | 21 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 |
| Yield | 41.50 | 41.14 | 41.74 | 42.13 | 42.56 | 42.99 | 43.41 | 43.84 | 44.27 | 44.69 | 45.12 |
| Production | 842 | 870 | 914 | 920 | 925 | 927 | 930 | 935 | 941 | 947 | 953 |

Canada - Sugar Beet Exogenous Variables

| Variable | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Extraction Rate <br> $(\%)$ | 11.30 | 11.30 | 11.30 | 11.30 | 11.30 | 11.30 | 11.30 | 11.30 | 11.30 | 11.30 | 11.30 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 288 | 256 | 140 | 99 | 86 | 84 | 86 | 89 | 92 | 95 |
| Production | 95 | 98 | 103 | 104 | 105 | 105 | 105 | 106 | 106 | 107 |
| Net Imports | 1323 | 1231 | 1326 | 1379 | 1420 | 1446 | 1470 | 1488 | 1501 | 1538 |
| Imports | 1335 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Exports | 12 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 1450 | 1445 | 1470 | 1496 | 1526 | 1549 | 1572 | 1590 | 1605 | 1641 |
| Cons | 1676 |  |  |  |  |  |  |  |  |  |
| Carry-out Stocks | 256 | 140 | 99 | 86 | 84 | 86 | 89 | 92 | 95 | 100 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption <br> Stocks/Consumpti17.66 <br> on | 44.15 | 43.59 | 43.98 | 44.37 | 44.88 | 45.18 | 45.46 | 45.62 | 45.68 | 46.32 | 46.97 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 678 | 682 | 686 | 691 | 695 | 701 | 706 | 713 | 719 | 725 | 732 |
| Yield | 75.10 | 75.30 | 75.56 | 75.82 | 76.09 | 76.36 | 76.63 | 76.90 | 77.17 | 77.44 | 77.71 |
| Production | 50888 | 51333 | 51828 | 52366 | 52911 | 53501 | 54130 | 54800 | 55482 | 56180 | 56890 |

Mexico - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarcane | 11.80 | 11.80 | 11.80 | 11.80 | 11.80 | 11.80 | 11.90 | 11.90 | 11.90 | 11.90 | 11.90 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 2043 | 2318 | 2286 | 2275 | 2276 | 2284 | 2296 | 2310 | 2325 | 2340 | 2355 |
| Production | 6000 | 6057 | 6116 | 6179 | 6243 | 6313 | 6441 | 6521 | 6602 | 6685 | 6770 |
| Net Imports | -243 | -528 | -503 | -480 | -457 | -432 | -461 | -439 | -424 | -419 | -410 |
| Exports | 344 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Imports | 101 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 5482 | 5561 | 5624 | 5698 | 5778 | 5870 | 5966 | 6068 | 6163 | 6251 | 6345 |
| Carry-out Stocks | 2318 | 2286 | 2275 | 2276 | 2284 | 2296 | 2310 | 2325 | 2340 | 2355 | 2371 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita | 49.71 | 49.84 | 49.83 | 49.91 | 50.04 | 50.27 | 50.53 | 50.82 | 51.07 | 51.26 | 51.49 |
| Consumption |  |  |  |  |  |  |  |  |  |  |  |
| Stocks/Consumpti42.28 <br> on | 41.11 | 40.45 | 39.94 | 39.52 | 39.11 | 38.71 | 38.31 | 37.98 | 37.68 | 37.37 |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Yield | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 21 | 21 |
| Production | 138 | 143 | 148 | 151 | 153 | 153 | 154 | 155 | 156 | 156 | 157 |

Algeria - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarbeet | 7.41 | 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)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 429 | 400 | 397 | 396 | 396 | 396 | 397 | 398 | 398 | 398 |
| Production | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 |
| Net Imports | 1200 | 1220 | 1260 | 1289 | 1316 | 1341 | 1364 | 1390 | 1413 | 1436 |
| Exports | 130 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Imports | 1330 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 1240 | 1234 | 1272 | 1301 | 1327 | 1352 | 1375 | 1401 | 1424 | 1447 |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Carry-out Stocks | 400 | 397 | 396 | 396 | 396 | 397 | 398 | 398 | 398 | 399 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption <br> Stocks/Consumpti32.26 <br> on 35.35 | 34.62 | 35.15 | 35.40 | 35.57 | 35.71 | 35.78 | 35.94 | 36.02 | 36.09 | 36.16 |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 428 | 439 | 449 | 454 | 457 | 458 | 460 | 462 | 464 | 466 |
| Yield | 92 | 92 | 93 | 93 | 93 | 94 | 94 | 95 | 95 | 95 |
| Production | 39162 | 40514 | 41662 | 42260 | 42684 | 43030 | 43352 | 43688 | 44047 | 44408 |

Australia - Sugar Extraction Rate (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarcane | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 403 | 223 | 232 | 234 | 237 | 240 | 243 | 246 | 249 | 251 |
| Production | 5200 | 5388 | 5541 | 5621 | 5677 | 5723 | 5766 | 5811 | 5858 | 5906 |
| Net Exports | 4230 | 4220 | 4367 | 4432 | 4473 | 4503 | 4531 | 4565 | 4602 | 4641 |
| Exports | 4240 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Imports | 10 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Consumption | 1150 | 1159 | 1172 | 1185 | 1201 | 1216 | 1232 | 1243 | 1254 | 1264 |
| Carry-out Stocks | 223 | 232 | 234 | 237 | 240 | 243 | 246 | 249 | 251 | 253 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita | 58.34 | 58.31 | 58.43 | 58.64 | 58.95 | 59.25 | 59.56 | 59.66 | 59.76 | 59.77 |
| Consumption |  |  |  |  |  |  |  |  |  |  |
| Stocks/Consumpti19.39 <br> on | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 585 | 235 | 262 | 254 | 255 | 253 | 254 | 252 | 252 | 251 |
| Production | 28700 | 23354 | 24266 | 24813 | 25381 | 25948 | 26515 | 27082 | 27648 | 28215 |
| Net Exports | 18250 | 12187 | 12965 | 13371 | 13793 | 14383 | 14845 | 15293 | 15772 | 16261 |
| Exports | 18250 | \#N/A | \#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 |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Consumption | 10800 | 11141 | 11309 | 11442 | 11589 | 11564 | 11671 | 11790 | 11878 | 11955 |
| Carry-out Stocks | 235 | 262 | 254 | 255 | 253 | 254 | 252 | 252 | 251 | 250 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita | 57.69 | 58.88 | 59.16 | 59.27 | 59.45 | 58.77 | 58.79 | 58.87 | 58.80 | 58.70 | 58.92 |
| Consumption     <br> Stocks/Consumpti2.18 <br> on 2.35 2.25 2.23 2.18 | 2.19 | 2.16 | 2.13 | 2.11 | 2.09 | 2.06 |  |  |  |  |  |

China - Area Harvested (1000 hectares)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 233 | 268 | 320 | 277 | 291 | 275 | 285 | 283 | 290 | 291 | 297 |
| Sugarcane | 1570 | 1573 | 1610 | 1614 | 1608 | 1600 | 1594 | 1590 | 1588 | 1585 | 1584 |
| Total Area | 1803 | 1841 | 1930 | 1891 | 1899 | 1875 | 1879 | 1873 | 1878 | 1877 | 1880 |

China - Yields (metric tons/hectare)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 36.00 | 36.15 | 36.27 | 36.36 | 36.53 | 36.66 | 36.76 | 36.83 | 36.88 | 36.91 | 36.93 |
| Sugarcane | 67.20 | 67.20 | 67.21 | 67.21 | 67.21 | 67.21 | 67.21 | 67.21 | 67.21 | 67.21 | 67.21 |

China - Production (1000 metric tons)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 8388 | 9707 | 11596 | 10083 | 10645 | 10088 | 10483 | 10436 | 10703 | 10755 | 10955 |
| Sugarcane | 105504 | 105706 | 108202 | 108450 | 108061 | 107543 | 107143 | 106865 | 106710 | 106556 | 106440 |

China - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarbeets | 10.15 | 10.15 | 10.15 | 10.15 | 10.15 | 10.15 | 10.15 | 10.15 | 10.15 | 10.15 | 10.15 |
| Sugarcane | 9.15 | 9.15 | 9.15 | 9.15 | 9.15 | 9.15 | 9.15 | 9.15 | 9.15 | 9.15 | 9.15 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Carry-in Stocks | 1671 | 1607 | 985 | 1089 | 1222 | 1388 | 1473 | 1526 | 1555 | 1588 | 1611 |
| Production | 10500 | 10657 | 11078 | 10947 | 10968 | 10864 | 10868 | 10837 | 10850 | 10842 | 10851 |
| Beet Sugar | 851 | 985 | 1177 | 1023 | 1080 | 1024 | 1064 | 1059 | 1086 | 1092 | 1112 |
| Cane Sugar | 9654 | 9672 | 9900 | 9923 | 9888 | 9840 | 9804 | 9778 | 9764 | 9750 | 9739 |
| Net Imports | 1190 | 341 | 999 | 1521 | 1917 | 2194 | 2442 | 2742 | 3034 | 3357 | 3701 |
| Exports | 110 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Imports | 1300 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 11700 | 11621 | 11973 | 12334 | 12718 | 12973 | 13257 | 13550 | 13852 | 14176 | 14530 |
| Carry-out Stocks | 1607 | 985 | 1089 | 1222 | 1388 | 1473 | 1526 | 1555 | 1588 | 1611 | 1633 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption <br> Stocks/Consumpti13.74 <br> on | 8.89 | 8.78 | 8.99 | 9.20 | 9.43 | 9.56 | 9.70 | 9.85 | 10.01 | 10.17 | 10.36 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 470 | 473 | 491 | 489 | 488 | 486 | 486 | 487 | 488 | 489 | 490 |
| Yield | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 32 | 32 | 33 | 33 |
| Production | 14100 | 14484 | 15225 | 15313 | 15398 | 15441 | 15544 | 15664 | 15805 | 15934 | 16075 |

Cuba - Sugar Extraction Rate (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarcane | 10.34 | 10.34 | 10.34 | 10.34 | 10.34 | 10.34 | 10.34 | 10.34 | 10.34 | 10.34 | 10.34 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 132 | 150 | 87 | 68 | 57 | 60 | 57 | 51 | 41 | 32 | 21 |
| Production | 1450 | 1498 | 1574 | 1583 | 1592 | 1597 | 1607 | 1620 | 1634 | 1648 | 1662 |
| Net Exports | 732 | 934 | 945 | 930 | 904 | 903 | 907 | 915 | 921 | 928 | 935 |
| Consumption | 700 | 626 | 648 | 665 | 685 | 697 | 707 | 714 | 723 | 731 | 738 |
| Carry-out Stocks | 150 | 87 | 68 | 57 | 60 | 57 | 51 | 41 | 32 | 21 | 10 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption <br> Stocks/Consumpti21.43 <br> on $\mathbf{6 0 . 5 3}$ | 53.86 | 55.51 | 56.67 | 58.13 | 58.89 | 59.47 | 59.82 | 60.31 | 60.66 | 61.02 |  |

Egypt - Area Harvested (1000 hectares)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 63 | 63 | 64 | 64 | 64 | 65 | 65 | 65 | 65 | 65 | 66 |
| Sugarcane | 120 | 121 | 122 | 123 | 125 | 127 | 128 | 130 | 132 | 134 | 136 |
| Total Area | 183 | 184 | 186 | 187 | 189 | 191 | 193 | 195 | 197 | 199 | 202 |

Egypt - Yields (metric tons/hectare)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 49.00 | 48.54 | 49.07 | 49.32 | 49.64 | 49.95 | 50.26 | 50.57 | 50.88 | 51.19 | 51.50 |
| Sugarcane | 103.90 | 103.27 | 102.86 | 102.63 | 102.55 | 102.61 | 102.77 | 103.03 | 103.38 | 103.79 | 104.26 |

Egypt - Production (1000 metric tons)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 3067 | 3043 | 3136 | 3156 | 3196 | 3231 | 3250 | 3269 | 3290 | 3335 | 3376 |
| Sugarcane | 12468 | 12491 | 12567 | 12673 | 12828 | 13005 | 13205 | 13424 | 13662 | 13917 | 14188 |

Egypt - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 12.75 | 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 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 459 | 520 | 515 | 513 | 513 | 514 | 516 | 518 | 521 | 524 |
| Production | 1370 | 1450 | 1481 | 1492 | 1511 | 1530 | 1550 | 1571 | 1594 | 1622 |
| Beet Sugar | 390 | 388 | 400 | 402 | 408 | 412 | 414 | 417 | 419 | 425 |
| Cane Sugar | 980 | 1062 | 1081 | 1090 | 1103 | 1118 | 1136 | 1154 | 1175 | 1197 |
| Net Imports | 1230 | 941 | 1004 | 1072 | 1142 | 1191 | 1238 | 1272 | 1308 | 1335 |
| Exports | 0 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Imports | 1230 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 2539 | 2396 | 2486 | 2565 | 2652 | 2720 | 2786 | 2840 | 2899 | \#N/A |
| Carry-out Stocks | 520 | 515 | 513 | 513 | 514 | 516 | 518 | 521 | 524 | 527 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption | 35.31 | 32.74 | 33.39 | 33.87 | 34.44 | 34.75 | 35.04 | 35.18 | 35.37 | 35.51 | 35.64 |
| Stocks/Consumpti20.48 <br> on | 21.50 | 20.63 | 19.98 | 19.37 | 18.96 | 18.61 | 18.35 | 18.08 | 17.85 | 17.63 |  |

European Union - Sugar Quota (1000 metric tons, white sugar equivalent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A-Quota | \#N/A | \#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 | \#N/A |
| A plus B Quota | 13669 | 13669 | 13669 | 13669 | 13669 | 13669 | 13669 | 13669 | 13669 | 13669 | 13669 |
| Raw Sugar <br> Equivalent | 14626 | 14626 | 14626 | 14626 | 14626 | 14626 | 14626 | 14626 | 14626 | 14626 | 14626 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 2400 | 2462 | 2505 | 2499 | 2490 | 2488 | 2489 | 2488 | 2488 | 2487 |
| Yield | 58.02 | 58.12 | 58.26 | 58.41 | 58.56 | 58.71 | 58.86 | 59.02 | 59.17 | 59.32 |
| Production | 139239 | 143114 | 145940 | 145947 | 145831 | 146073 | 146488 | 146862 | 147230 | 147557 |

European Union - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 15.04 | 15.04 | 15.04 | 15.04 | 15.04 | 15.04 | 15.04 | 15.04 | 15.04 | 15.04 | 15.04 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 5773 | 4608 | 3619 | 3636 | 3653 | 3662 | 3674 | 3685 | 3694 | 3702 | 3708 |
| Production | 21233 | 21814 | 22239 | 22240 | 22223 | 22259 | 22322 | 22378 | 22433 | 22483 | 22536 |
| Net Exports | 4873 | 5431 | 4702 | 4560 | 4441 | 4335 | 4258 | 4218 | 4175 | 4168 | 4202 |
| Exports | 7130 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Imports | 2257 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 17525 | 17372 | 17519 | 17664 | 17772 | 17913 | 18052 | 18152 | 18249 | 18310 | 18332 |
| Carry-out Stocks | 4608 | 3619 | 3636 | 3653 | 3662 | 3674 | 3685 | 3694 | 3702 | 3708 | 3710 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption <br> Stocks/Consumpti26.29 <br> on | 48.95 | 48.44 | 48.76 | 49.09 | 49.32 | 49.65 | 49.98 | 50.22 | 50.45 | 50.58 | 50.61 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 5730 | 5160 | 4703 | 4684 | 4745 | 4831 | 4886 | 4932 | 4966 | 5002 |
| 5033 |  |  |  |  |  |  |  |  |  |  |
| Production | 18430 | 18614 | 18711 | 19073 | 19273 | 19403 | 19598 | 19730 | 19827 | 19909 |
| Net Exports | -800 | -1018 | -1646 | -1652 | -1760 | -1883 | -1961 | -2099 | -2284 | -2480 |
| 1982 |  |  |  |  |  |  |  |  |  |  |
| Exports | 200 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Imports | 1000 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 19800 | 20089 | 20376 | 20663 | 20948 | 21231 | 21513 | 21795 | \#N/A |  |
| Carry-out Stocks | 5160 | 4703 | 4684 | 4745 | 4831 | 4886 | 4932 | 4966 | 5002 | 22358 |
| 22642 |  |  |  |  |  |  |  |  |  |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita | 17.10 | 17.11 | 17.12 | 17.13 | 17.14 | 17.15 | 17.16 | 17.17 | 17.18 | 17.19 | 17.20 |
| Consumption <br> Stocks/Consumpti26.06 <br> on 23.41 | 22.99 | 22.97 | 23.06 | 23.02 | 22.92 | 22.78 | 22.66 | 22.51 | 22.36 |  |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 333 | 333 | 341 | 345 | 346 | 347 | 348 | 349 | 352 | 354 |
| Yield | 67.60 | 67.52 | 67.72 | 67.92 | 68.12 | 68.32 | 68.52 | 68.72 | 68.92 | 69.12 |
| Yroduction | 22511 | 22463 | 23105 | 23403 | 23575 | 23689 | 23836 | 24017 | 24237 | 24471 |

Indonesia - Sugar Extraction Rate

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarcane | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 1120 | 920 | 900 | 903 | 905 | 906 | 905 | 904 | 903 | 902 |
| Production | 1800 | 1797 | 1848 | 1872 | 1886 | 1895 | 1907 | 1921 | 1939 | 1958 |
| Net Imports | 1800 | 2033 | 2062 | 2091 | 2130 | 2170 | 2208 | 2243 | 2274 | 2303 |
| Exports | 0 | \#N/A | \#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 |
| \#N/A | \#N |  |  |  |  |  |  |  |  |  |
| Consumption | 3800 | 3851 | 3907 | 3961 | 4014 | 4066 | 4116 | 4165 | 4214 | 4262 |
| Carry-out Stocks | 920 | 900 | 903 | 905 | 906 | 905 | 904 | 903 | 902 | 901 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption | 16.78 | 16.76 | 16.77 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 | 16.78 |
| Stocks/Consumpti24.21 <br> on | 23.36 | 23.11 | 22.84 | 22.57 | 22.27 | 21.98 | 21.68 | 21.41 | 21.14 | 20.88 |  |

Japan - Area Harvested (1000 hectares)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 87 | 84 | 83 | 81 | 80 | 78 | 77 | 75 | 73 | 72 | 70 |
| Sugarcane | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Total Area | 106 | 104 | 101 | 99 | 98 | 96 | 95 | 93 | 92 | 90 | 88 |

Japan - Yields (metric tons/hectare)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 54.30 | 54.47 | 54.75 | 55.08 | 55.44 | 55.80 | 56.17 | 56.55 | 56.92 | 57.29 | 57.67 |
| Sugarcane | 60.31 | 60.35 | 60.40 | 60.44 | 60.48 | 60.53 | 60.57 | 60.61 | 60.66 | 60.70 | 60.75 |

Japan - Production (1000 metric tons)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 4697 | 4600 | 4534 | 4476 | 4420 | 4362 | 4302 | 4239 | 4170 | 4097 |
| Sugarcane | 1146 | 1167 | 1125 | 1089 | 1118 | 1075 | 1097 | 1109 | 1112 | 1108 |

Japan - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 18.94 | 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 | 12.13 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 433 | 465 | 460 | 461 | 464 | 467 | 469 | 471 | 471 | 471 |
| Production | 890 | 1013 | 995 | 980 | 973 | 957 | 948 | 937 | 925 | 910 |
| Beet Sugar | 750 | 871 | 859 | 848 | 837 | 826 | 815 | 803 | 790 | 776 |
| Cane Sugar | 140 | 142 | 136 | 132 | 136 | 130 | 133 | 134 | 135 | 134 |
| Net Imports | 1392 | 1224 | 1248 | 1263 | 1270 | 1288 | 1302 | 1317 | 1334 | 1351 |
| Exports | 10 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N | \#N/A |  |  |  |  |  |  |  |  |  |
| Imports | 1402 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Consumption | 2250 | 2242 | 2242 | 2240 | 2240 | 2243 | 2248 | 2254 | 2258 | 2261 |
| Carry-out Stocks | 465 | 460 | 461 | 464 | 467 | 469 | 471 | 471 | 471 | 471 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption <br> Stocks/Consumpti20.67 <br> on | 20.50 | 20.58 | 20.73 | 20.87 | 20.93 | 20.94 | 20.90 | 20.87 | 20.84 | 20.82 |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 150 | 150 | 102 | 74 | 57 | 50 | 48 | 46 | 45 | 44 |
| Net Imports | 1340 | 1286 | 1323 | 1349 | 1387 | 1414 | 1436 | 1453 | 1468 | 1481 |
| Exports | 340 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Imports | 1680 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Consumption | 1340 | 1334 | 1351 | 1367 | 1394 | 1417 | 1437 | 1454 | 1469 | 1482 |
| \#N/A | 1493 |  |  |  |  |  |  |  |  |  |
| Carry-out Stocks | 150 | 102 | 74 | 57 | 50 | 48 | 46 | 45 | 44 | 43 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita 27.39 27.10 27.29 | 27.47 | 27.88 | 28.22 | 28.51 | 28.74 | 28.95 | 29.11 | 29.24 |  |  |
| Consumption <br> Stocks/Consumpti11.19 <br> on | 7.63 | 5.46 | 4.15 | 3.62 | 3.36 | 3.22 | 3.09 | 3.01 | 2.91 | 2.80 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 325 | 325 | 327 | 329 | 331 | 333 | 336 | 338 | 340 | 343 |
| Yield | 74.10 | 74.11 | 74.26 | 74.41 | 74.56 | 74.71 | 74.86 | 75.01 | 75.16 | 75.31 |
| Production | 24083 | 24098 | 24287 | 24486 | 24697 | 24909 | 25129 | 25355 | 25587 | 25820 |

South Africa - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarcane | 11.07 | 11.07 | 11.07 | 11.07 | 11.07 | 11.07 | 11.07 | 11.07 | 11.07 | 11.07 | 11.07 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 920 | 980 | 967 | 953 | 942 | 935 | 929 | 915 | 921 | 928 |
| Production | 2665 | 2668 | 2689 | 2711 | 2734 | 2757 | 2782 | 2807 | 2832 | 2858 |
| Net Exports | 1050 | 1140 | 1215 | 1276 | 1321 | 1367 | 1447 | 1430 | 1433 | 1448 |
| Exports | 1300 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Imports | 250 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Consumption | 1555 | 1541 | 1487 | 1446 | 1419 | 1397 | 1349 | 1372 | 1393 | 1407 |
| Carry-out Stocks 980 | 967 | 953 | 942 | 935 | 929 | 915 | 921 | 928 | 931 | 933 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption | 35.22 | 35.12 | 34.15 | 33.51 | 33.24 | 33.15 | 32.44 | 33.43 | 34.41 | 35.19 | 35.80 |
| Stocks/Consumpti63.02 <br> on | 62.74 | 64.08 | 65.12 | 65.94 | 66.52 | 67.87 | 67.15 | 66.58 | 66.21 | 66.05 |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 1268 | 1267 | 1308 | 1335 | 1355 | 1369 | 1381 | 1395 | 1411 | 1427 |
| Yield | 15.20 | 15.24 | 15.30 | 15.37 | 15.45 | 15.53 | 15.61 | 15.69 | 15.78 | 15.86 |
| Production | 19274 | 19311 | 20021 | 20531 | 20943 | 21255 | 21565 | 21894 | 22259 | 22636 |

Former Soviet Union - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugar Beets | 11.56 | 11.56 | 11.56 | 11.56 | 11.56 | 11.56 | 11.56 | 11.56 | 11.56 | 11.56 | 11.56 |

Former Soviet Union - Sugar Supply and Utilization (1000 metric tons, raw value)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 580 | 470 | 319 | 262 | 246 | 260 | 273 | 281 | 281 | 281 |
| Production | 2250 | 2232 | 2314 | 2373 | 2421 | 2457 | 2493 | 2531 | 2573 | 2617 |
| Net Imports | 4090 | 3799 | 3880 | 3915 | 3964 | 3969 | 3964 | 3947 | 3938 | 3919 |
| Exports | 110 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Imports | 4200 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Consumption | 6450 | 6182 | 6251 | 6304 | 6372 | 6413 | 6449 | 6477 | 6511 | 6541 |
| Carry-out Stocks | 470 | 319 | 262 | 246 | 260 | 273 | 281 | 281 | 281 | 276 |

Former Soviet Union - Per Capita Sugar Consumption (kilograms) and Stocks to Use Ratio (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption | 21.86 | 20.93 | 21.14 | 21.29 | 21.47 | 21.57 | 21.64 | 21.68 | 21.74 | 21.78 |
| Stocks/Consumpti7.29 <br> on | 5.15 | 4.19 | 3.90 | 4.08 | 4.25 | 4.35 | 4.34 | 4.31 | 4.22 | 4.11 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area Harvested | 683 | 685 | 794 | 876 | 936 | 980 | 1014 | 1039 | 1057 | 1071 |
| Yield | 57.60 | 57.40 | 57.43 | 57.55 | 57.68 | 57.82 | 57.96 | 58.11 | 58.25 | 58.39 |
| Production | 39341 | 39322 | 45618 | 50384 | 53960 | 56676 | 58757 | 60352 | 61570 | 62544 |

Thailand - Sugar Extraction Rates (percent)

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Sugarcane | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Carry-in Stocks | 732 | 262 | 560 | 720 | 810 | 864 | 898 | 923 | 943 | 961 |
| Production | 4330 | 4325 | 5018 | 5542 | 5936 | 6234 | 6463 | 6639 | 6773 | 6880 |
| Net Exports | 2700 | 1981 | 2780 | 3344 | 3741 | 4026 | 4231 | 4375 | 4475 | 4548 |
| Exports | 2700 | \#N/A | \#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 |
| \#N/A |  |  |  |  |  |  |  |  |  |  |
| Consumption | 2100 | 2046 | 2077 | 2109 | 2141 | 2174 | 2207 | 2243 | 2280 | 2316 |
| Carry-out Stocks | 262 | 560 | 720 | 810 | 864 | 898 | 923 | 943 | 961 | 977 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Per Capita <br> Consumption | 31.54 | 30.47 | 30.68 | 30.90 | 31.14 | 31.39 | 31.66 | 31.97 | 32.29 | 32.61 | 32.95 |
| Stocks/Consumpti12.48 <br> on | 27.35 | 34.69 | 38.41 | 40.35 | 41.33 | 41.82 | 42.05 | 42.16 | 42.20 | 42.18 |  |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Net Exports | -15118 | -11371 | -10774 | -10887 | -10855 | -11100 | -11308 | -11303 | -11272 | -11225 | -11116 |

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

|  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | 11.35 | 18.00 | 17.05 | 16.65 | 15.90 | 15.95 | 16.20 | 16.70 | 17.05 | 17.55 | 18.05 |
| $\$ /$ ton | 250.22 | 396.83 | 375.88 | 367.07 | 350.53 | 351.63 | 357.15 | 368.17 | 375.88 | 386.91 | 397.93 |


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