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The Addition of the Dominican Republic to the Central American Free Trade Agreement: What it Means for U.S. Agriculture

*Jeremy W. Mattson and Won W. Koo**

The United States signed a free trade agreement (FTA) in August 2004 with the Dominican Republic that integrates the country into the Central American Free Trade Agreement (CAFTA), signed in May 2004 between the United States and five Central American countries (Costa Rica, El Salvador, Guatemala, Honduras, and Nicaragua). The Dominican Republic joins these Central American countries and the United States in being a member of CAFTA. The FTA must be approved by the U.S. Congress before being implemented, and the legislature had not yet considered it as of early 2005.

Prior to the inclusion of the Dominican Republic, Koo et al. (2003) analyzed the effect of CAFTA on the U.S. sugar industry and U.S. agriculture in general. The objective of this paper is to expand upon the previous study by examining the impact that an FTA including the Dominican Republic could have on U.S. agriculture.

GENERAL CHARACTERISTICS OF THE COUNTRIES

The Dominican Republic is a country of 8.8 million people situated on the island of Hispaniola in the Caribbean Sea. The country has a per capita GDP of about \$6,000 (Table 1). Of the six CAFTA countries besides the United States, the Dominican Republic has the second largest population and the second highest per capita GDP. Agriculture accounted for 10.7 percent of the Dominican Republic's GDP in 2003, which is below the average of the five Central American members of CAFTA. In the United States, on the other hand, just 1.4 percent of GDP comes from agriculture.

The Dominican Republic's total imports equaled about \$8 billion in 2003, and exports were near \$5.5 billion. The country's total imports and exports are equal to about 15 percent and 10 percent of GDP, respectively, which is similar to those for the five Central American countries. While the United States and most of the Central American countries are net exporters of agricultural products, the Dominican Republic has been net importer in recent years. Agricultural exports for the Dominican Republic totaled \$604 million in 2003, while imports equaled \$752 million. Almost 33 percent of the total exports from the five Central American countries is agricultural exports, while just 11 percent of the Dominican Republic's exports and 8.7 percent of U.S. exports are agricultural products. Meanwhile, 9.5 percent of imports by the Dominican Republic consists of agricultural products, compared to 13.4 percent for the Central America countries and 4.2 percent for the United States.

**Research Assistant and Professor and Director, respectively, in the Center for Agricultural Policy and Trade Studies.*

		Dominican Republic	Five Central American countries	United States
Population	(million people)	8.8	37.0	293.0
Per capita GDP	(\$ purchasing power parity)	6,000	4,100	37,800
% GDP from Agriculture	(%)	10.7%	15.9%	1.4%
Total Exports	(billion \$)	6	14	715
Total Imports	(billion \$)	8	23	1,260
Agricultural Exports	(billion \$)	0.6	4.6	62.3
Agricultural Imports	(billion \$)	0.8	3.1	53.5
Total Land	(1,000 hectares)	4,838	41,350	915,896
Agricultural Land	(1,000 hectares)	3,696	18,988	411,863
Arable Land	(1,000 hectares)	1,096	5,238	176,018
Per Capita Arable Land	(hectares)	0.12	0.14	0.60

Note: Most recent available data reported. Sources: U.S. Census Bureau, CIA World Factbook, FAOSTAT

The Dominican Republic has 3.7 million hectares of agricultural land and 1.1 million hectares of arable land. The country has similar land resources to the five Central American countries, which combine to equal 19 million hectares of agricultural land and 5.2 million hectares of arable land. In comparison, the United States has 412 million hectares of agricultural land and 176 million hectares of arable land. The Dominican Republic has 0.12 hectares of arable land per capita, which is similar to that for the five Central American countries, while the United States has 0.60 hectares of arable land per capita. Lower per capita arable land indicates a decreased likelihood of having an exportable surplus of agricultural products.

DOMINICAN REPUBLIC AGRICULTURAL PRODUCTION AND TRADE

Agricultural goods produced in the Dominican Republic include sugarcane, coffee, cotton, cocoa, tobacco, rice, beans, potatoes, corn, bananas, cattle, pigs, dairy products, beef, and eggs (Central Intelligence Agency 2005). Figure 1 shows the amount of land devoted to specific crops in the Dominican Republic in 2003. Sugarcane, coffee, cocoa beans, and rice are the primary crops, accounting for more than half of the harvested area. The country also produces and exports cigars. The most important agricultural exports are cigars, sugar, and cocoa beans (Table 2). The Dominican Republic's largest agricultural imports are corn, tobacco leaves, soybean meal, soybean oil, and wheat (Table 3).

The Dominican Republic produced about 1.1 million metric tons of sugar per year during the 1970s and early 1980s, and exports surpassed 1 million metric tons during a number of years in the 1970s. Production declined in the late 1980s and throughout the 1990s to a low of 371 thousand metric tons in 1998/99. During the last three years, production has been steady at about 500 thousand metric tons. Domestic consumption in the Dominican Republic has been steady at about 320 thousand metric tons per year, and exports have remained at 185 thousand metric tons, most of which are shipped to the United States.

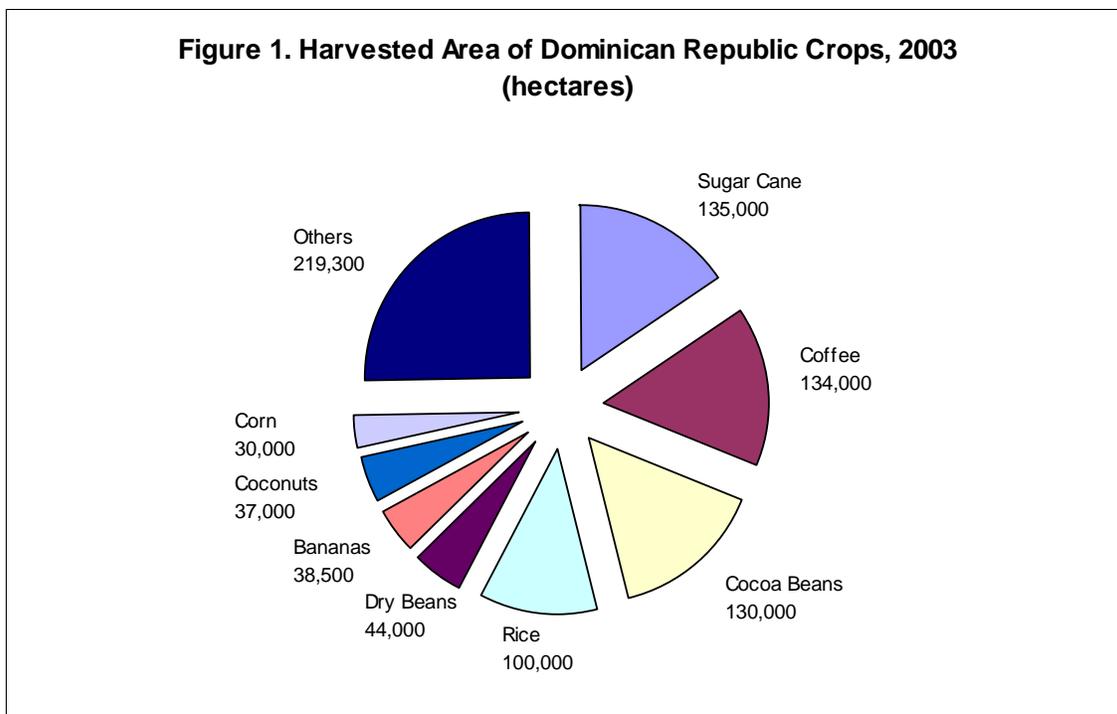


Table 2. Dominican Republic Agricultural Exports, 2003

Product	value (1,000 dollars)
Cigars	212,329
Sugar	90,869
Cocoa Beans	67,909
Bananas	34,203
Beverages Dist Alcoholic	22,226
Beer of Barley	18,862
Extract Tea, Mate, Prep.	13,081
Coffee Roasted	11,243
Cantaloupes & other Melons	10,151
Avocados	9,537

Source: FAOSTAT

Table 3. Dominican Republic Agricultural Imports, 2003

Product	value (1,000 dollars)
Corn	113,449
Tobacco Leaves	85,753
Soybean Meal	82,008
Soybean Oil	56,151
Wheat	52,268
Beverages Dist Alcoholic	29,939
Sugar Confectionery	16,048
Wine	15,020
Infant Food	13,586
Barley	13,228

Source: FAOSTAT

U.S. - DOMINICAN REPUBLIC AGRICULTURAL TRADE

The United States has had an agricultural trade surplus with the Dominican Republic in recent years (Figure 2). U.S. agricultural exports to the country equaled \$461 million in 2004, while imports totaled \$261 million. The major U.S. exports to the country are corn, soybean meal, tobacco, and wheat (Table 4). Sugar and cocoa are the most important U.S. imports from the country, while other imports include coffee, malt beverages, avocados, and tobacco (Table 5).

The United States has a large market share for many of the agricultural products imported by the Dominican Republic. A report from the USDA's Foreign Agricultural Service (FAS) (October 1, 2004a) indicates that 82 percent of all agricultural imports by the Dominican Republic in 2002 were exported by the United States. In many years, the United States kept close to 100 percent market share for Dominican imports of corn, wheat, and soybean meal.

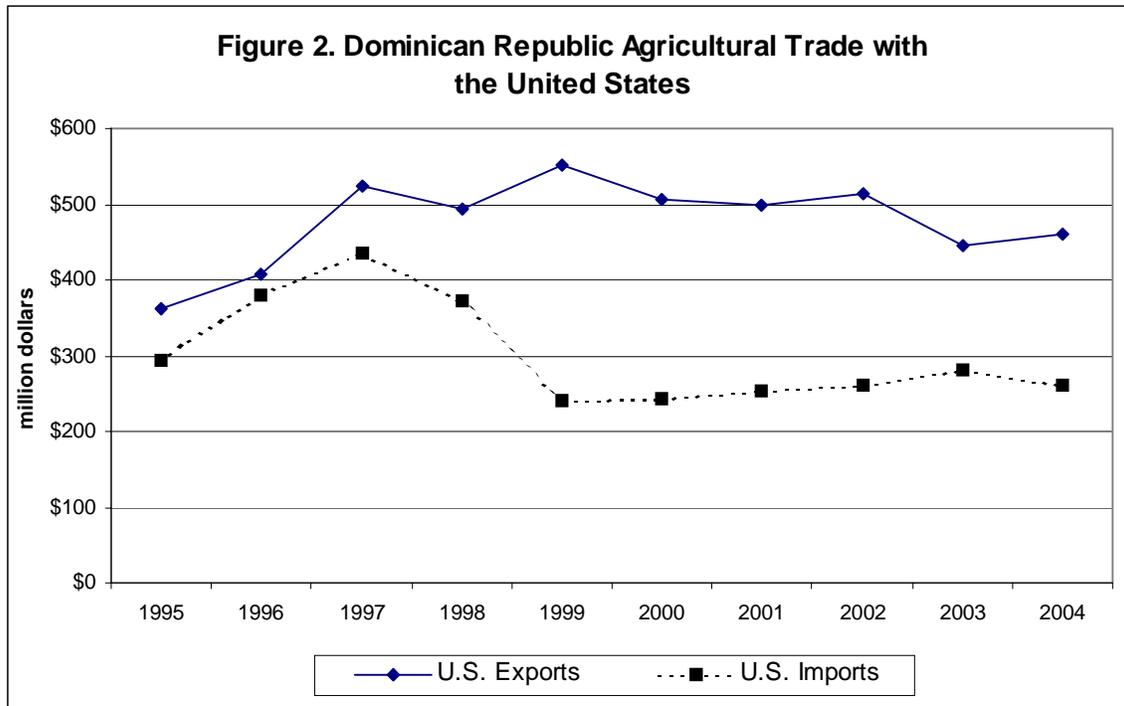


Table 4. U.S. Agricultural Exports to Dominican Republic

	2000	2001	2002	2003	2004
	----- thousand dollars-----				
Total Agricultural	506,350	497,933	513,200	444,833	461,205
Corn	91,841	90,874	103,520	100,462	82,540
Tobacco, unmanufactured	101,194	85,271	81,193	66,257	71,203
Wheat	36,924	38,759	45,316	40,072	53,956
Rice-Paddy, Milled	14,173	3,786	75	2,559	35,738
Soybean Meal	66,956	69,608	69,782	73,218	30,908
Dairy Products	15,013	14,827	13,284	9,166	16,300
Soybean Oil	4,383	6,488	18,225	7,875	14,035

Source: FAS/USDA

Table 5. U.S. Agricultural Imports from Dominican Republic

	2000	2001	2002	2003	2004
	----- thousand dollars-----				
Total Agricultural	243,450	254,221	260,138	280,451	260,741
Sugar	77,950	65,493	69,461	77,238	74,051
Cocoa and products	16,183	28,765	38,340	55,242	40,405
Malt Beverages	12,069	12,700	19,023	18,077	19,572
Avocados	8,333	8,471	10,760	13,988	16,195
Tobacco, unmanufactured	27,077	24,329	12,133	10,466	15,297
Molasses	10,047	11,851	11,114	10,389	11,891
Coconut Meat	11,169	11,464	9,848	8,883	8,046
Coffee, including products	11,287	6,608	7,796	10,989	305

Source: FAS/USDA

Data from the FAS's Production, Supply, and Distribution (PS&D) database show that the Dominican Republic imports close to 1 million metric tons of corn in a year, with all purchases coming from the United States. The Dominican Republic was the ninth-largest importer of U.S. corn in 2003. The country was the fourth-largest importer of U.S. corn in the Western Hemisphere, after Canada, Mexico, and Colombia. Corn production in the Dominican Republic is limited, and the country's livestock industry relies on imports from the United States (FAS June 14, 2004).

Because of an unfavorable climate, wheat and soybeans are not grown in the Dominican Republic. Almost all Dominican wheat imports are from the United States because of quality, proximity, and price (FAS March 23, 2004). The country does not import soybeans because it does not have the crushing facilities (FAS March 30, 2004). Instead, they import soybean meal and soybean oil. The United States has been the main supplier of soybean meal to the Dominican Republic, but there is increased competition from South America. U.S. market share for soybean meal dropped from 100 percent in 2002 to about 66 percent in 2003 due to lower prices from Brazil (FAS March 30, 2004). U.S. market share for soybean oil has been much lower (6 percent in 2002) and has also declined due to the availability of lower-priced oils from South America (FAS March 30, 2004).

The Dominican Republic is one of the leading exporters of sugar to the United States (Table 6). The United States restricts imports through use of a tariff-rate quota (TRQ). Under this system, each country is allocated a different quota. The Dominican Republic's annual allocation of 185 thousand metric tons is the largest allotment given and equals 16.4 percent of the total U.S. import quota (FAS October 1, 2004b). The Dominican Republic's sugar exports to the United States are usually close to its quota allocation.

	2000	2001	2002	2003	2004
-----metric tons-----					
Dominican Republic	199,981	151,366	170,439	178,647	177,608
Guatemala	151,490	85,779	92,006	238,688	157,959
Philippines	91,663	89,573	76,692	137,609	137,278
Brazil	152,202	230,731	129,189	154,673	133,367
Costa Rica	67,920	22,821	15,274	39,574	129,378
Colombia	68,535	58,774	91,428	153,645	129,292
Australia	92,158	83,413	90,756	79,197	88,478
El Salvador	60,661	80,197	55,557	77,966	64,182
Nicaragua	56,969	4,205	21,366	32,897	49,340
Argentina	42,579	43,581	65,377	43,958	41,784
Peru	21,857	62,453	41,760	40,926	41,278
Mexico	86,556	126,367	182,896	35,540	36,332
Panama	65,835	47,070	37,609	38,423	24,973
Honduras	5,592	22,185	10,691	25,469	15,739
Others	309,583	247,930	313,006	253,238	214,030

Source: FAS/USDA

EFFECTS OF THE FREE TRADE AGREEMENT ON TRADE FLOWS

The addition of the Dominican Republic could benefit U.S. grains, oilseeds, meats, and processed foods, while it could have some negative impact on U.S. sugar. The elimination of tariffs on soybean oil and sorghum and the increase in market access for rice, beef, pork, poultry, and dairy could lead to increased U.S. exports of these commodities. The Report of the Agricultural Technical Advisory Committee for Trade in Animals and Animal Products (a committee of industry leaders reporting to the U.S. President, Congress, and the U.S. Trade Representative) concludes that the agreement with the Dominican Republic is favorable for beef, pork, poultry, and dairy.

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If the agreement passes, the duty on crude soybean oil will be eliminated immediately. The 20 percent duty on refined soybean oil will gradually be eliminated over 15 years through linear cuts, and refined soybean oil, corn oil, cottonseed oil, and margarine face a restrictive safeguard measure which will be phased out over 15 years (Agricultural Technical Advisory Committee for Grains, Feed, and Oilseeds 2004). The Dominican Republic has been a growing market for soybean oil, and this agreement could help the United States compete against South American producers. However, the long phase-in period will slow potential growth in refined soybean oil exports. Free trade for rice faces a longer phase-in period of 20 years.

Since the Dominican Republic does not currently impose any tariffs on U.S. wheat, corn, barley, soybeans, or soybean meal, the FTA may not have a significant effect on U.S. exports of these commodities. The agreement would, however, lock in these zero tariff rates. U.S. exports to the Dominican Republic could also increase if the agreement leads to increased economic growth in the country.

The agreement could increase the Dominican sugar exports to the United States as it increases the country's quota allocation. The size of the increase, however, is not large. In the first year of CAFTA, the Dominican Republic will be allowed to export an additional 10 thousand metric tons of sugar to the United States above its current quota allocation of 185 thousand metric tons. After the first year, the Dominican Republic's quota allocation will continue to grow by 200 metric tons per year (Table 7). As Koo et al. (2003) conclude, the overall potential increase in sugar imports from CAFTA members and other countries could have a significant, harmful effect on the U.S. sugar industry. The addition of the Dominican Republic to CAFTA, however, will not have a significant impact on the level of sugar imports from these countries. Without the Dominican Republic, CAFTA allows for an increase of 97 thousand metric tons in the first year and 138 thousand metric tons in year 15. With the Dominican Republic, CAFTA allows for an increase

Year	Guatemala	El Salvador	Nicaragua	Costa Rica	Honduras	Dominican Republic	CAFTA without Dominican Rep.	CAFTA with Dominican Rep.
1	32,000	24,000	22,000	11,000	8,000	10,000	97,000	107,000
2	32,640	24,480	22,440	11,220	8,160	10,200	98,940	109,140
3	33,280	24,960	22,880	11,440	8,320	10,400	100,880	111,280
4	37,000	28,000	23,320	11,660	8,480	10,600	108,460	119,060
5	37,740	28,560	23,760	11,880	8,640	10,800	110,580	121,380
6	38,480	29,120	24,200	12,100	8,800	11,000	112,700	123,700
7	39,220	29,680	24,640	12,320	8,960	11,200	114,820	126,020
8	42,000	31,000	25,080	12,540	9,120	11,400	119,740	131,140
9	42,840	31,620	25,520	12,760	9,280	11,600	122,020	133,620
10	43,680	32,240	25,960	12,980	9,440	11,800	124,300	136,100
11	44,520	32,860	26,400	13,200	9,600	12,000	126,580	138,580
12	47,000	34,000	26,840	13,420	9,760	12,200	131,020	143,220
13	47,940	34,680	27,280	13,640	9,920	12,400	133,460	145,860
14	48,880	35,360	27,720	13,860	10,080	12,600	135,900	148,500
15	49,820	36,040	28,160	14,080	10,240	12,800	138,340	151,140
Per year growth after year 15	940	680	440	220	160	200	2,440	2,640

Source: U.S. Trade Representative, CAFTA-DR Final Text, Annex 3.3 U.S. General Notes and Appendix 1

of 107 thousand metric tons in the first year and 151 thousand metric tons in year 15. Most of the increase in sugar imports under CAFTA will come from Guatemala, El Salvador, and Nicaragua. Furthermore, the Dominican Republic may not have the capacity to significantly increase sugar exports to the United States.

CONCLUSIONS

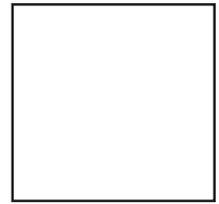
The addition of the Dominican Republic to CAFTA could be positive to U.S. agriculture overall, but the impact would not likely be substantial. Sugarcane, coffee, cocoa beans, and rice are the primary crops in the Dominican Republic, and the most important agricultural exports are cigars, sugar, and cocoa beans. The country's largest agricultural imports are corn, tobacco leaves, soybean meal, soybean oil, and wheat. The United States currently is the main supplier of agricultural exports to the Dominican Republic and the largest importer of agricultural products from the country. The elimination of tariffs on soybean oil and sorghum and the increase in market access for rice, beef, pork, poultry, and dairy could lead to increased U.S. exports of these commodities. The agreement could result in an increase in Dominican sugar exports to the United States as it increases the country's quota allocation. The size of the increase, however, is not large. CAFTA, overall, could have a negative effect on the U.S. sugar industry, but the addition of the Dominican Republic will not have a significant impact.

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North Dakota State University
Dept. of Agribusiness & Applied Economics
P.O. Box 5636
Fargo, ND 58105-5636



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