

# U.S. Agricultural Trade: Trends, Composition, Direction, and Policy

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### Summary

U.S. agricultural exports for FY2008 are forecast by the U.S. Department of Agriculture to reach a record \$91 billion, while agricultural imports are expected to reach \$75.5 billion, also a record level. The agricultural trade surplus is projected to be \$15.5 billion. Exports of high-value products (e.g., fruits, vegetables, meats, wine and beer) have increased since the early 1990s and now account for 60% of total U.S. agricultural exports. Exports of bulk commodities (e.g., soybeans, wheat, and feed grains) remain significant. Much of the growth in U.S. export value in 2007 is due to increased bulk exports.

Leading markets for U.S. agricultural exports are Canada, Mexico, Japan, the European Union, China, South Korea, and Taiwan. The United States dominates world markets for corn, wheat, and cotton. Brazil has overtaken the United States as the world's leading supplier of soybeans and is the world's leading supplier of beef and poultry to world markets. The U.S. share of world beef exports, which declined after the 2003 discovery of a case of "mad cow disease" in the United States, are recovering as more countries re-open markets to U.S. product. The United States, European Union, Australia, and New Zealand are dominant suppliers of dairy products in global agricultural trade.

Most U.S. agricultural imports are high-value products. The biggest import suppliers are the European Union and NAFTA partners Canada and Mexico, which together provide 55% of total U.S. agricultural imports. Australia, Brazil, New Zealand, Indonesia, and Colombia are also major suppliers of agricultural imports to the United States.

Among the fastest-growing markets for U.S. agricultural exports are Canada and Mexico, both partners with the United States in the North American Free Trade Agreement (NAFTA). U.S. agricultural exports to China, a member of the World Trade Organization since 2001, have grown at an annual rate of 15% since 1992.

Both the EU and the United States subsidize their agricultural sectors, but overall the EU outspends the United States five to one. Recent reforms of the EU's Common Agricultural Policy shift substantial spending into direct income support decoupled from production and into rural development. Canada supports some sectors (e.g., dairy and poultry) more than others. Australia provides less support to its agriculture. EU and U.S. export subsidies are declining largely in response to policy changes and market forces. Border measures (tariffs) are more important in Canada than in either the United States or the EU. Australia operates a mix of trade measures. The United States is the dominant supplier of foreign food aid, followed by the EU, Canada, and Australia. U.S. food aid is almost exclusively in the form of commodities, while other donors provide a mix of cash and commodities.

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#### U.S. Agricultural Exports, Imports, and Trade Balance

• The value of U.S. agricultural exports, supported by a weak dollar, strong foreign demand, and high prices for many products, is forecast by the U.S. Department of Agriculture (USDA) to reach \$91 billion in FY2008, a record high.

• U.S. agricultural imports, forecast to reach a record \$75.5 billion in FY2008, reflect strong U.S. demand for imported foods, despite a weak dollar and negative effects on disposable income from high fuel prices and the housing slump.

• The \$15.5 billion U.S. agricultural trade surplus forecast for FY2008 is more than half of its all-time high—\$27 billion—reached in FY1996.



Figure 1. U.S. Agricultural Exports, Imports, and the Trade Balance, FY1998-FY2008F

Table I. U.S. Agricultural Exports and Imports, FY1988-FY2008F(\$ billion)

Year	Exports	Imports	Balance
1988	35.3	21.0	4.3
989	39.6	21.5	8.
1990	40.2	22.6	17.7
99	37.6	22.6	5.0
992	42.4	24.3	8.
993	42.6	24.4	8.
994	43.9	26.6	17.3

Year	Exports	Imports	Balance
995	54.6	29.9	24.7
996	59.8	32.6	27.2
997	57.3	35.8	21.5
998	53.6	36.8	6.8
999	49.	37.3	11.8
2000	50.7	38.9	11.9
2001	52.7	39.0	3.7
2002	53.3	41.0	12.3
2003	56.0	45.7	۱0.3
2004	62.4	52.7	9.7
2005	62.5	57.7	4.8
2006	68.6	64.0	4.6
2007	81.9	70.0	11.9
2008F	91.0	75.5	5.5

**Source:** U.S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

Note: F= Forecast

#### Shares of U.S. Crop Production Exported: Selected Commodities

• USDA estimates that production from one-third of harvested acreage is exported.

• In FY2008, a forecast 58% of the U.S. wheat crop will be exported, while 18% of the U.S. corn crop would move into world markets. Corn's slightly declining export share of production reflects competition from strong domestic demand for corn for livestock feed and for ethanol production.

• The export shares of soybeans and cotton in FY2008 are forecast to reach 38% and 88%, respectively.



Figure 2. U.S. Agricultural Exports: Share of U.S. Production Exported, 1990/91-2007/08F

Table 2. U.S. Agricultural Exports: Shares of U.S. Production Exported, 1990/91-
2007/08F

	(percent)				
Year	Wheat	Corn	Cotton	Soybeans	
990/9	38.4	22. I	50.2	28.9	
99 /92	65.5	21.4	37.7	34.4	
l 992/93	55.5	17.7	32.0	35.2	
l 993/94	50.8	20.6	42.5	31.5	
l 994/95	51.5	23.0	47.8	33.4	
l 995/96	56.9	<b>28</b> . I	42.8	39.1	
996/97	44.0	9.9	36.2	37.2	
997/98	41.9	16.2	39.9	32.5	
998/99	41.8	21.0	30.9	29.4	
l 999/00	47.1	20.7	39.8	36.7	
2000/01	46.2	19.2	39.2	36.1	
2001/02	49.6	9.6	54. I	36.8	
2002/03	52.2	18.0	<b>69</b> . l	37.9	
2003/04	50.6	19.0	75.3	36. I	

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Year	Wheat	Corn	Cotton	Soybeans
2004/05	48.5	5.	62.0	35.1
2005/06	47.9	9.9	73.5	30.7
2006/07	50.7	20.2	60.3	35.1
2007/08F	57.8	18.5	85.3	38.4

**Source:** Calculated by CRS using data from the U.S. Department of Agriculture's Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

## Shares of U.S. Livestock Production Exported: Selected Commodities

• Beef exports, which grew from around 4% of production in 1990 to almost 10% in 2003, have slowly recovered from export bans on U.S. beef following the 2003 discovery of a BSE-infected cow in the United States. The beef export share of production in 2008 is forecast to be 6.5%.

• Pork exports as a share of production have grown substantially, from less that 2% in 1990 to a forecast 14% in 2008.

• Poultry's export share of production has more than doubled since 1990, from 6.2% to a forecast 15.3% in 2008.





(percent)				
Year	Beef	Pork	Poultry	
1990	4.4	1.6	6.2	
1991	5.1	1.8	6.4	
1992	5.7	2.4	7.1	
1993	5.5	2.6	8.9	
1994	6.5	3.1	2.	
1995	7.1	4.4	5.7	
1996	7.2	5.7	6.9	
1997	8.3	6.0	6.3	
1998	8.3	6.5	5.8	
1999	9.0	6.6	5.6	
2000	9.1	6.8	6.3	
2001	8.6	8.1	8.0	
2002	8.9	8.2	5.	
2003	9.5	8.6	5.2	
2004	l.9	0.6	4.2	
2005	2.8	2.9	4.9	
2006	4.3	4.2	4.7	
2007	5.4	3.9	5.4	
2008F	6.5	4.3	15.3	

#### Table 3. U.S.Agricultural Exports: Shares of U.S. Production of Livestock Exported, 1990-2008F

**Source:** Calculated by CRS using data from the U.S. Department of Agriculture's Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

#### **Composition of U.S. Agricultural Exports: Major Commodity Components**

• The United States exports a wide range of agricultural products, including horticultural products, livestock products and poultry, and field crops.

• Horticultural product exports (fruits, vegetables, tree nuts, and their preparations)—valued at \$17.9 billion in FY2007—are the leading commodity components of U.S. agricultural exports.

• Oilseeds (mainly soybeans) and oilseed products (mainly meal and oil)—valued at \$14 billion in FY2007—comprise the second largest category of U.S. agricultural exports.

• Livestock and poultry products together amounted to \$13.9 billion in FY2007.

• Field crop exports (feed grains, wheat, cotton, and tobacco) accounted for just under \$22 billion of U.S. agricultural exports in FY2007.



Figure 4. U.S. Agricultural Exports of Major Commodities, FY2007

Table 4. U.S. Agricultural Exports of Major Commodities, FY2007

Commodity	(\$ Billion)
Horticultural Products	7.9
Oilseeds and Products	I 3.7
Livestock Products	0.
Feed Grains	9.8
Cotton	4.3
Wheat	6.4
Poultry/Prods.	3.8
Tobacco	1.1

**Source:** U.S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

## Composition of U.S. Agricultural Exports: Bulk, Consumer-Ready, and Intermediate Product Exports

• *Bulk agricultural exports* include products like wheat, coarse grains, cotton, and soybeans.

• *Intermediate products* have been processed to some extent and include products like wheat flour, soybean oil, and feeds.

• *Consumer-ready* includes both processed products such as breakfast cereals and products such as fresh fruits and vegetables.

• Until 1990, bulk agricultural exports were the mainstay of U.S. farm export trade. Since FY1991, the total of high-value (intermediate and consumer-ready) products has exceeded the value of bulk agricultural exports.

• In FY2007, high-value exports accounted for 60% of total U.S. agricultural exports and bulk exports for 40%. The growth in U.S. agricultural exports in FY2007 is due largely to increased exports of bulk commodities.





## Table 5. U.S. Agricultural Exports, FY1990-FY2007: Total, Bulk, Consumer-Ready, and Intermediate Product Exports

(\$ thousands) Consumer-% of % of % of Year Total Bulk Intermediate Oriented Total Total Total 990 40,347,960 21,793,461 54.0 9,891,735 24.5 8,662,764 21.5 30.6 8.588.074 99 37,864,207 17,701,487 46.7 11,574,646 22.7 42,554,780 13,689,029 32.2 22.0 992 19,523,240 45.9 9,342,511 43,057,753 14,889,726 1993 19,084,550 44.3 34.6 9,083,477 21.1 994 43,893,020 17,940,578 40.9 16,460,463 37.5 9,491,979 21.6

Year	Total	Total Bulk % of Consumer- Total Bulk Total Oriented				Intermediate	% of Total
995	54,613,152	24,446,611	44.8	l 8,847,340	34.5	,3 9,20	20.7
1996	59,785,653	28,781,235	48. I	20,167,462	33.7	10,836,956	8.
997	57,305,347	24,250,805	42.3	20,928,673	36.5	12,125,869	21.2
998	53,661,663	20,925,957	39.0	20,716,672	38.6	12,019,034	22.4
999	49,118,260	18,596,897	37.9	19,969,550	40.7	10,551,813	21.5
2000	50,761,767	18,580,955	36.6	21,568,538	42.5	10,612,274	20.9
2001	52,716,911	18,436,458	35.0	22,673,764	43.0	l I,606,689	22.0
2002	53,319,318	19,122,275	35.9	21,807,002	40.9	I 2,390,04 I	23.2
2003	56,013,986	21,224,523	37.9	22,848,832	40.8	11,940,632	21.3
2004	62,408,83 I	26,903,911	43. I	23,361,967	37.4	12,142,954	9.5
2005	62,516,299	23,613,456	37.8	26,287,920	42.0	12,614,923	20.2
2006	68,592,659	25,619,902	37.4	29,363,487	42.8	I 3,609,27 I	9.8
2007	81,947,137	32,681,114	39.9	33,   39,606	40.4	6, 26, 4 7	19.7

**Source:** Data in this table are compiled from U.S. Department of Agriculture, Foreign Agricultural Service databases, available at http://www.fas.usda.gov/scriptsw/bico/bico\_frm.asp.

#### Major Country Markets for U.S. Agricultural Exports

• Canada and Mexico, both U.S. partners in the North American Free Trade Agreement (NAFTA), are the first- and second-largest markets for U.S. agricultural exports. Total U.S. agricultural exports to these two countries in FY2008 are forecast to exceed \$28 billion.

• Japan (\$10.8 billion), which was the number one U.S. destination for agricultural products for many years, is the third-largest export destination.

• The EU-27, forecast to be the fourth largest U.S. export market with \$8.9 billion in FY2008, is followed closely by China, which has become the fifth largest U.S. farm export market with \$7.8 billion. (China-Hong Kong combined—a forecast \$9.1 billion—would occupy the fourth place as an overseas market for U.S. agricultural exports for FY2008.)

• Other Asian markets—South Korea and Taiwan—also are major markets for U.S. agricultural exports with forecast values of \$3.5 billion and \$3.1 billion, respectively.



Figure 6. Major Country Markets for U.S. Exports, FY2006-FY2008F

 Table 6. Major Country Markets for U.S. Agricultural Exports, FY2006-FY2008F

 (\$ billion)

	(\$ Dillon)		
Country	2006	2007	2008F
Canada	.6	3.2	4.7
Mexico	0.4	12.3	3.7
Japan	8.2	9.7	l 0.4
EU-27	7.2	8. I	8.9
China	6.6	7.0	7.8
South Korea	2.7	3.2	3.5
Taiwan	2.4	2.9	3.3
Russia	0.9	1.1	1.3
Turkey	1.0	1.4	1.5
Hong Kong	0.9	1.1	1.3

**Source:** U.S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

Note: F=Forecast

#### World Export Market Shares: Crops

• Wheat: Although it has lost export market share over the last decade, the United States remains the major supplier of wheat and wheat products to the world market, with a forecast share of 30% in marketing year 2007/2008. Argentina, Canada, and the EU are major competitors in this market (see Figure 7 and Table 7).

• **Rice:** Thailand (30% forecast for 2008) is the world's dominant rice exporter; but Vietnam (17%) has emerged as a major competitor. India's export market share in 2007 is forecast to be 11% (see **Figure 8** and **Table 8**).

• **Corn:** The United States dominates the world market for corn with a 2007 forecast export share of 67% (see **Figure 9** and **Table 9**).

• **Soybeans:** Brazil has overtaken the United States as the world's main supplier of soybeans with a 2008 forecast share of 41%. The U.S. share has declined from 73% in 1995/1996 to a forecast of 41% in 2007/2008, while over the same period, Brazil's share grew from 11% to 41%. (see **Figure 10** and **Table 10**).

• **Cotton:** U.S. cotton exports are estimated to be 39% of the world total in 2007/2008. Competitors include Uzbekistan (11%) and West/Central African countries (7%) (see **Figure 11** and **Table 11**).



Figure 7. Shares of World Exports of Wheat and Wheat Products, 2007/08F

			(perce	nt)			
Country	1995/96	1996/97	1997/98	1998/99	1999/2000	2000/01	2001/02
Argentina	4.5	9.7	9.4	9.0	9.9	11.1	10.8
Australia	12.2	17.5	14.7	5.8	5.3	16.3	15.3
Canada	17.2	17.4	20.4	4.	7.3	17.0	15.5
European Unionª	13.3	17.1	3.6	4.3	18.2	15.3	11.8
Kazakhstan, Rep.	4.3	2.2	3.4	2.3	5.8	3.9	3.7
United States	34.1	26.2	27.1	28.4	26.3	27.4	24.3
Rest of World	14.4	9.8	11.4	6.	7.2	9.0	8.6
Country	2002/03	2003/04	2004/05	2005/06	2006/07E	2007/08F	
Argentina	5.9	7.1	12.0	7.3	0.6	10.3	
Australia	10.2	14.6	14.0	3.4	9.8	7.5	
Canada	8.8	15.0	3.5	3.8	6.9	13.6	
European Unionª	16.9	9.5	13.4	3.9	2.	8.4	
Kazakhstan, Rep.	5.8	<b>4</b> . I	2.7	3.4	7.0	7.5	
United States	21.3	31.2	25.3	24.2	21.8	30.4	
Rest of World	31.1	18.5	19.5	24.0	21.9	22.3	

#### Table 7. Shares of World Exports of Wheat and Wheat Products, 1995/96-2007/08F

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: July-June marketing year.

E = Estimate

F = Forecast

a. 1995/96-1998/99 data are EU-15 and 1990/00 to present are EU-27.



Figure 8. Shares of World Exports of Rice, 2007/08F



(percent)
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Country	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/0 I
China	0.2	1.3	5.0	13.5	10.9	3.0	7.6
India	20.0	l 8.6	11.1	16.9	11.1	6.4	7.9
Pakistan	8.5	8.5	9.4	7.2	7.4	8.9	9.9
Thailand	28.6	26.8	27.7	23.0	26.9	28.8	30.8
United States	l 4.6	3.3	2.2	11.5	10.7	12.5	l 0.4
Vietnam	11.1	15.4	17.6	13.7	l 8.4	14.8	4.4
Rest of World	7.	6.	17.0	14.2	14.7	15.7	9.
Country	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07E	2007/08F
China	7.0	9.4	3.2	2.3	4.2	4.5	5.4
India	23.9	16.0	11.7	16.2	15.7	3.	11.4
Pakistan	5.8	7.1	7.3	10.5	12.4	9.0	l 0.7
Thailand	26.0	27.4	37.3	25.1	25.5	32.5	30.2
United States	11.8	3.9	11.4	3.3	3.4	10.7	11.7

Vietnam	11.6	3.8	15.8	17.8	16.3	15.9	6.8
Rest of World	l 3.8	12.4	13.3	14.9	12.5	14.2	3.8

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: July-June marketing year.

E = Estimate

F = Forecast



Figure 9. Shares of World Exports of Corn, 2007/08F

#### Table 9. Shares of World Exports of Corn, 1995/96-2007/08F

(percent)

(per centy)							
Country	1995/96	1996/97	1997/98	1998/99	1999/2000	2000/01	2001/02
Argentina	0.7	15.3	20.2	11.4	2.3	16.1	11.8
China	0.2	5.8	9.8	4.9	3.7	9.6	11.8
South Africa, Rep.	2.7	2.4	1.7	1.2	1.2	1.9	1.6
United States	81.4	70.0	59.9	75.7	68.4	63.7	64.9
Rest of World	4.9	6.5	8.4	6.8	4.4	8.8	9.9
Country	2002/03	2003/04	2004/05	2005/06	2006/07E	2007/08F	
Argentina	6.	3.2	8.	3.0	17.3	6.	
China	9.8	9.6	10.0	4.5	5.8	۱.6	

South Africa, Rep.	1.5	1.0	2.0	1.7	0.5	0.9
United States	52.4	61.7	59.7	67.9	59.7	66.7
Rest of World	10.2	14.5	10.2	12.9	16.7	14.6

Source: U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: October-September marketing year.

E = Estimate

F = Forecast



Figure 10. Shares of World Exports of Soybeans, 2007/08F

(percent)								
Country	1995/96	1996/97	1997/98	1998/99	1999/2000	2000/01	2001/02	
Argentina	6.6	2.1	8.0	8.9	9.0	3.8	.3	
Brazil	10.9	22.9	22.	23.3	24.3	28.7	27.4	
Canada	1.9	1.3	1.9	2.3	2.1	1.4	0.9	
Paraguay	5.0	5.8	5.8	6.0	4.4	4.7	4.3	
United States	73.0	65.6	60.0	57.2	58.2	50.3	54.7	
Rest of World	2.5	2.3	2.2	2.2	.9	1.2	1.3	

Country	2002/03	2003/04	2004/05	2005/06	2006/07E	2007/08F
Argentina	14.3	2.0	14.8	11.3	3.4	3.9
Brazil	32. I	36.3	31.1	40.5	33.0	40.7
Canada	1.2	۱.6	1.7	2.1	2.4	1.7
Paraguay	4.6	4.9	4.5	3.9	5.8	5.7
United States	46.5	42.9	46. I	40.0	42.8	35.9
Rest of World	1.3	2.2	1.8	2.3	2.6	2.1

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: Marketing year.

E = Estimate

F = Forecast



Figure 11. Shares of World Exports of Cotton, 2007/08F

	(percent)									
Country	1995/96	1996/97	1997/98	1998/99	1999/2000	2000/0 I	2001/02			
Australia	5.3	8.9	0.	2. <b>9</b>	11.8	4.9	l 0.8			
West/Central Africaª	10.2	12.3	3.5	15.3	3.7	2.4	l 2.2			
United States	28.1	25.6	28. I	l 8.3	24.8	25.7	37.9			
Uzbekistan	l 6.5	17.0	17.1	l 6.2	15.4	3.	l 2.0			
Rest of World	39.8	36.3	31.0	37.3	34.2	33.9	27.1			
Country	2002/03	2003/04	2004/05	2005/06	2006/07E	2007/08F				
Australia	8.8	6.5	5.7	6.5	5.7	3.4				
West/Central Africaª	2.5	13.3	11.8	l 0.0	10.1	7.4				
United States	39.2	41.4	41.2	39.4	34.6	39.2				
Uzbekistan	11.2	9.3	11.3	l 0.8	2.0	11.0				
Rest of World	28.3	29.4	30.0	33.4	37.6	39.1				

#### Table 11. Shares of World Exports of Cotton, 1995/96-2007/08F

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: Marketing year.

E = Estimate

F = Forecast

a. Includes Benin, Burkina, Cameroon, CAR, Chad, Cote d'Ivoire, Mali, Niger, Senegal and Togo.

#### World Market Shares: Livestock and Dairy

• **Beef**: Brazil, with 33% (forecast) of world exports in 2008, has emerged as the world's largest supplier of beef to world markets. The U.S. share of world beef exports, 18% in 2003, has declined to a forecast 10% for 2008, due to continuing effects of mad cow disease on global beef trade and U.S. (See **Figure 12** and **Table 12**).

• **Pork**: The United States (28%) and the EU (22%) are forecast to be the world's largest exporters of pork in 2008 (**Figure 13** and **Table 13**).

• **Poultry**: Brazil is the world's leading supplier of poultry meat (41% forecast for 2008). The United States, with 34% of world exports, and the EU (9%) have lost market share to Brazil in recent years (**Figure 14** and **Table 14**).

• **Dairy Products**: In 2008, New Zealand (28%), the United States (25%), and Australia (15%) are forecast to be the leading suppliers of nonfat dry milk to world markets. The EU (46%) dominates the world market for cheese, while New Zealand (50%) is the world's largest exporter of butter.



Figure 12. Shares of World Exports of Beef and Veal, 2008F

#### Table 12. Shares of World Exports of Beef and Veal, 1995-2008F

(percent)										
Country	1995	1996	1997	1998	1999	2000	200			
Argentina	9.8	9.6	7.9	5.6	6.3	6.2	3.0			
European Unionª	22.0	21.3	l 8.8	14.3	17.8	11.5	l 0.8			
United States	5.	16.4	16.7	8.	9.	19.5	8.			
Brazil	4.2	4.3	4.0	5.6	8. I	8.6	I 3.2			
Australia	20.3	19.8	20.4	23.3	22.2	23.3	24.7			
New Zealand	9.1	9.7	8.8	9.0	7.7	8.4	8.7			
Rest of World	9.4	18.9	23.3	24. I	18.8	22.5	21.5			
Country	2002	2003	2004	2005	2006	2007	2008F			
Argentina	5.5	6.0	9.6	10.8	7.8	7.0	6.7			
European Unionª	9.2	6.9	5.7	3.6	3.0	2.3	2.2			
United States	17.7	8.	3.3	4.5	7.3	8.6	9.7			
Brazil	4.0	18.4	25.1	26.5	29.3	31.9	33.1			
Australia	21.8	9.7	21.3	9.9	20. I	19.3	17.3			

New Zealand	7.7	8.7	9.3	8.3	7.5	6.9	6.6
Rest of World	24.0	22.2	25.8	26.4	25.0	24.0	24.4

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: P = Preliminary

F = Forecast

a. 1995-1998 data are EU-15 and 1999 to present are EU-27.



Figure 13. Shares of World Pork Exports, 2008F



(percent)									
Country	1995	1996	1997	1998	1999	2000	2001		
Canada	15.5	3.8	4.6	14.9	ا 0.8	20.4	21.5		
United States	5.	15.8	16.5	19.2	11.3	18.0	20.9		
European Unionª	32.7	30.9	33.I	35.7	31.1	41.2	28.7		
China, People's Republic of	4.4	4.9	7.0	7.0	2.8	4.4	6.6		
Taiwan	6.	3.9	2.4	0.1	_				
Rest of World	6.	20.7	26.4	23. I	43.8	15.9	22.2		

Country	2002	2003	2004	2005	2006	2007	2008F
Canada	22.2	23.4	20.7	21.7	20.6	20.2	9.9
United States	18.8	18.7	21.1	24.2	25.9	26.6	28.0
European Union <sup>a</sup>	25.5	27.3	27.7	22.9	24.4	24.6	21.9
China, People's Republic of	7.9	9.5	11.4	10.8	11.3	8.5	8.7
Taiwan	—	—	—	—	—	—	—
Rest of World	25.7	21.0	19.1	20.4	17.7	20.0	21.5

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

**Notes:** P = Preliminary

F = Forecast

— = Less than 0.1%

a. 1995-1998 data are EU-15 and 1999 to present are EU-27.



Figure 14. Shares of World Poultry Meat Exports, 2008F

	(percent)									
Country	1995	1996	1997	1998	1999	2000	200			
United States	41.3	41.9	49.2	47. I	40. I	40.3	40.3			
Brazil	10.0	11.7	15.3	13.9	14.2	15.7	9.6			
European Unionª	NA	NA	18.0	9.	14.9	3.	l 0.3			
China (PRC)	6.2	6.6	8.2	7.7	7.2	8.4	7.8			
Rest of World	42.5	39.8	9.4	2.	23.6	22.5	21.9			
Country	2002	2003	2004	2005	2006	2007	2008F			
United States	33.2	37.5	36.3	35. I	36.7	36.4	33.7			
Brazil	24.0	32.0	40.4	40.7	38.9	40.5	41.4			
European Unionª	11.6	2.	12.2	10.3	10.7	9.8	9.4			
China (PRC)	6.7	6.5	4.0	4.9	5.0	4.9	5.2			
Rest of World	24.5	11.9	7.2	8.9	8.6	10.3	l 0.2			

#### Table 14. Shares of World Total Poultry Meat Exports, 1994-2008F

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: NA= Not Available

P= Preliminary

F= Forecast

a. 1997-1998 data are EU-15 and 1999 to present are EU-27.



Figure 15. Shares of World Nonfat Dry Milk Exports, 2008F

#### Table 15. Shares of World Nonfat Dry Milk Exports, 1995-2008F

(percent)										
Country	1995	1996	1997	1998	1999	2000	200			
Canada	2.5	2.5	2.9	3.8	2.7	1.9	3.7			
United States	9.5	2.4	11.3	11.5	14.4	8.5	7.7			
European Unionª	NA	NA	27.3	19.4	24.5	27. I	22.3			
Australia	0.9	2.8	19.8	22.1	5.9	15.2	17.5			
New Zealand	9.7	11.5	20.8	21.8	3.6	10.5	15.7			
Rest of World	67.4	70.8	18.0	21.4	29.0	36.7	33. I			
Country	2002	2003	2004	2005	2006	2007	2008F			
Canada	3.7	2.4	1.1	0.5	1.2	0.7	0.7			
United States	9.6	9.3	۱6.0	23.2	26.3	21.0	24.9			
European Unionª	20.0	22.3	19.2	15.9	8. I	14.0	4.			
Australia	17.7	12.8	13.0	11.8	17.3	14.4	15.2			
New Zealand	9.0	20.8	21.2	18.5	22.3	26.9	28.3			
Rest of World	30.0	32.3	29.5	30.1	24.9	23.0	16.8			

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

#### Notes: NA= Not Available

P= Preliminary

- F= Forecast
- a. 1997-1998 data are EU-15 and 1999 to present are EU-27.



Figure 16. Shares of World Cheese Exports, 2008F

Table 16. Shares of World Cheese Exports,	1994-2008F

	(percent)								
Country	1994	1995	1996	1997	1998	1999	2000	200	
European Unionª	NA	NA	NA	51.0	46.2	45.2	31.1	30.8	
New Zealand <sup>b</sup>	5.9	6.9	6.7	25.0	25.6	26. I	16.3	۱6.0	
Australia	4.1	4.5	4.3	13.3	16.6	18.7	14.4	3.9	
Ukraine	0.2	0.2	0.1	0.2	0.4	0.7	0.8	2.0	
United States	1.1	1.1	1.2	4.0	4.1	<b>4</b> . I	3.0	3.4	
Argentina	0.6	0.5	0.4	2.0	1.9	2.2	1.4	1.1	
Canada	0.3	0.6	0.6	2.4	3.0	2.7	1.2	1.2	
Rest of World	87.8	86.2	86.6	2.0	2.2	0.3	31.8	31.5	
Country	2002	2003	2004	2005	2006	2007	2008F		
European Unionª	30.3	31.3	29.7	28.7	31.7	31.3	45.6		
New Zealand <sup>b</sup>	16.7	6.9	16.4	15.2	15.1	6.	21.9		

Australia	3.	l 2.0	12.0	3.	11.4	11.1	14.2	
Ukraine	2.2	3.5	5.3	6.7	2.8	3.4	5.0	
United States	3.3	3.0	3.5	<b>4</b> . I	5.4	5.0	7.2	
Argentina	1.6	1.3	1.8	2.6	3.3	2.4	3.9	
Canada	1.0	0.6	0.6	0.5	0.5	0.4	0.6	
Rest of World	31.8	31.2	30.8	29.1	29.9	30.3	1.6	

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: NA= Not Available

P= Preliminary

F= Forecast

- a. 1997-1998 data are EU-15 and 1999 to present are EU-27.
- b. Year ending May 31 of the year shown.
- c. Year ending June 30 of the year shown.



Figure 17. Shares of World Butter Exports, 2008F

(percent)								
Country	1994	1995	1996	1997	1998	1999	2000	2001
New Zealand <sup>a</sup>	20.2	9.3	21.0	42. I	50.2	34. I	37.0	36.4
European Union <sup>b</sup>	NA	NA	NA	29.2	26.8	24.5	21.4	21.7
Australia	7.1	6.9	6.6	l 4.8	16.7	14.3	15.2	l 2.9
Ukraine	1.7	5.6	8.4	7.9	1.6	1.0	3.4	5.6
Canada	0.2	0.5	1.1	1.6	1.9	1.3	1.1	1.7
United States	7.1	5.2	1.7	2.4	0.5	0.2	0.4	0.0
Rest of World	63.7	62.5	61.1	2.0	2.2	24.5	21.5	21.6
Country	2002	2003	2004	2005	2006	2007	2008F	
New Zealand <sup>a</sup>	36.1	33.6	31.8	27.8	36.5	37.2	50.3	
European Union <sup>b</sup>	23.5	27.0	28. I	29.9	24.7	24.2	30.7	
Australia	12.8	9.3	6.0	6.2	8.2	7.4	9.0	
Ukraine	1.5	1.5	3.3	2.1	1.3	0.7	0.8	
Canada	1.7	١.٥	1.4	1.8	1.8	1.5	2.0	
United States	0.3	1.0	0.7	0.8	1.1	3.3	5.1	
Rest of World	24.0	26.6	28.8	31.5	26.4	25.7	2.2	

#### Table 17. Shares of World Butter Exports, 1994-2008F

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: NA= Not Available

P= Preliminary

F= Forecast

- a. Year ending May 31 of the year shown.
- b. 1997-1998 data are EU-15 and 1999 to present are EU-27.
- c. Year ending June 30 of the year shown.

#### World Market Shares: Sugar

• Brazil dominates the world market for sugar with an export market share forecast at 41% for 2007/2008.

• Australia, with 7% of global sugar exports, is the world's second-largest exporter of sugar.

• Sugar exports from the United States, a sugar importer, are negligible (only 0.4% forecast for 2007/08).



Figure 18. Shares of World Centrifugal Sugar Exports, 2007/08F

Table	18. Shares	of World	Centrifugal	Sugar Exports,	1995/96-2007/08F
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(percent)							
Country	1995/96	1996/97	1997/98	1998/99	1999/2000	2000/01	2001/02
United States	0.9	0.5	0.4	0.6	0.3	0.3	0.3
Mexico	1.8	2.6	2.9	1.4	0.8	0.4	1.0
Total Caribbean	12.8	11.5	8.0	9.7	9.5	9.0	8.4
DR-CAFTA <sup>a</sup>	5.2	5.7	6.3	5.2	5.2	6.0	5.3
Brazil	16.4	15.5	9.	23.2	27.1	20. I	27.4
European Union <sup>b</sup>	3.	14.0	16.9	14.2	14.7	17.2	11.3
Australia	12.0	12.2	2.	10.8	9.9	8.0	8.5
Rest of World	37.8	38.0	34.4	35.0	32.6	39.0	37.8
Country	2002/03	2003/04	2004/05	2005/06	2006/07P	2007/08F	
United States	0.3	0.6	0.5	0.4	0.8	0.4	
Mexico	0.1	0.0	0.3	1.7	0.3	0.9	
Total Caribbean	4.8	5.2	2.5	2.6	2.3	2.0	
DR-CAFTAª	5.0	5.3	5.8	5.0	5.8	5.4	
Brazil	29.7	32.7	38.4	34.4	41.9	40.5	
European Union <sup>b</sup>	11.9	10.5	12.8	16.8	2.8	2.7	

Congressional Research Service

Australia	8.7	8.9	9.5	8.5	7.7	7.2
Rest of World	39.4	36.8	30.2	30.7	38.5	40.9

**Source:** U.S. Department of Agriculture. Foreign Agricultural Service Production, Supply and Distribution Online database, http://www.fas.usda.gov/psdonline/psdHome.aspx.

Notes: P= Preliminary

F= Forecast

a. The EU Includes French overseas departments of Reunion, Guadeloupe, and Martinique. EU trade data does not Include intra trade. Beginning 2004/05, the data reflects the EU enlargement by accession of ten countries. EU exports include sugar-containing products.

b. DR-CAFTA includes Dominican Republic and Central America. 1995/96-2003/04 data are EU-15, 2004/05-2005/06 are EU-25, and 2006/07 to present are EU-27.

#### Major U.S. Agricultural Imports

• High-value horticultural products (fruits, vegetables, nuts, wine, beer, nursery stock and flowers, and others) are the largest category of U.S. agricultural imports—more than \$25 billion—in FY2007.

• Other high-value imports include grains and feeds (\$6.0 billion), red meats (\$4.6 billion), and oilseeds and products (\$4.0 billion).

• Imports of tropical products such as coffee, cocoa, and sugar amounted to \$8.4 billion in FY2006.



Figure 19. Major Agricultural Imports by Commodity, FY2007

Commodity	FY2007 Imports
Fruits, Nuts & Preps.	9.9
Wine & Malt Beverage	8.2
Vegetables & Preps.	7.3
Grains and Feeds	6.0
Red Meats	4.6
Oilseeds and Products	4.0
Coffee and Products	3.7
Dairy Products	2.7
Sugar and Products	2.0
Cocoa and Products	2.6
Essential Oils	2.4
Livestock and Products	2.4
Nursery and cut flowers	1.5

## Table 19. Major U.S. Agricultural Imports, FY2007 (\$ billions)

**Source:** U.S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

#### U.S. Agricultural Imports by Country of Origin

• The EU-27 (\$15.7 billion) and NAFTA partners Canada (\$15.7 billion) and Mexico (\$10.3 billion) are forecast to be the source of more than 55% of total U.S. agricultural imports in FY2008.

• Australia (at \$2.7 billion), with whom the United States entered a free trade agreement (FTA) in 2005, is forecast to be the fourth-largest supplier in FY2008.

• Agricultural imports from Brazil also are expected to reach \$2.7 billion in FY2007.



Figure 20. U.S. Agricultural Imports by Country of Origin, FY2006-FY2008F

 Table 20. U.S. Agricultural Imports by Country of Origin, FY2006-FY2008F

	(. )		
Country	FY2006	FY2007	FY2008F
European Union	4.	5.0	5.7
Canada	13.2	14.7	5.7
Mexico	9.3	9.9	10.3
Australia	2.4	2.6	2.7
Brazil	2.2	2.5	2.7
New Zealand	1.7	1.7	1.7
Colombia	1.5	1.5	1.6
Indonesia	2.0	1.9	2.3

**Source:** U.S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

Notes: F= Forecast

#### **Regional Market Growth in U.S. Agricultural Exports**

• Economic growth in Asia has contributed to relatively consistent long-term growth in U.S. agricultural exports to the region.

• Despite some year-to-year variation, the EU, the United States' fifth-largest export market, has been a relatively stable market for U.S. agricultural exports.

• Agricultural exports to countries in the former Soviet Union have declined in value since the 1992 break-up of the USSR.

• Agricultural exports to Latin America, including Mexico, and to Canada have grown rapidly since the early 1990s because of geographic proximity, NAFTA, and other factors.



Figure 21. Growth in U.S. Agricultural Exports, FY1992-FY2008F

 Table 21. Change in U.S. Agricultural Exports to Selected Markets, FY1992-FY2008F

 (\$ billion)

Year	Asia	European Union	Latin America <sup>a</sup>	Former Soviet Union	Canada
992	17.8	7.2	6.5	2.7	4.8
1993	17.8	7.2	6.9	1.6	5.2
1994	9.9	6.6	7.4	1.5	5.3
995	24.0	8.4	8.2	2.1	5.8
1996	26.0	9.2	9.9	1.7	6.0
997	23.9	9.0	10.0	2.9	6.6
1998	19.7	8.5	11.3	2.6	7.0

Year	Asia	European Union	Latin America <sup>a</sup>	Former Soviet Union	Canada
999	18.5	7.0	10.4	1.4	7.0
2000	19.7	6.4	10.6	1.6	7.5
2001	20. I	6.5	11.6	1.8	8.0
2002	19.5	6.5	11.5	0.9	8.6
2003	21.7	6.3	12.4	0.7	9.
2004	24.3	7.0	3.6	0.7	9.6
2005	22.5	7.2	14.4	0.9	l 0.4
2006	24.9	7.2	16.5	0.9	11.6
2007	29.3	8.1	19.9	1.1	I 3.2
2008F	32.2	8.9	22.4	1.3	14.7
Rate of Growth <sup>b</sup>	3.55%	1.25%	7.55%	-4.21%	6.81%

**Source:** U. S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

#### Notes: F= Forecast

a. Including Mexico.

b. The rate of growth is the change in U.S. exports from 1992 to 2008F. Calculations were made by CRS using a compound rate of growth calculator.

#### Growth in U.S. Agricultural Exports to Asian Markets

• Like the EU, Japan also has been a relatively stable export market for U.S. agricultural exports.

• U.S. agricultural exports to China, fueled by rates of GDP growth in excess of 9%, have grown rapidly since the early 1990s (15.2%). In FY2008 U.S. agricultural exports to China are forecast to be more than four times their value in FY2001, when China became a member of the World Trade Organization.

• Rapid income growth in Southeast Asia also has stimulated demand for U.S. agricultural exports since 1992.

• Agricultural exports to South Asia have shown slow but steady growth since 1992.



Figure 22. Growth in Agricultural Exports to Asian Markets, FY1992-FY2008F

Table 22. Change in U.S.Agricultural Exports to Asian Markets, FY1992-FY2008F(\$ billion)

Year	Japan	Southeast Asia	South Asia	China	
1992	8.4	1.5	0.5	0.7	
1993	8.5	1.6	0.6	0.3	
994	9.2	8.1	0.6	0.9	
1995	10.5	2.6	0.1	2.4	
1996	11.9	3.4	0.7	1.8	
997	10.7	3.1	0.7	۱.8	
1998	9.5	2.3	0.6	1.5	
999	8.9	2.2	0.5	1.0	
2000	9.4	2.6	0.4	1.5	
2001	8.9	2.9	0.6	1.9	
2002	8.3	2.9	0.8	1.8	
2003	8.8	2.9	0.6	3.5	
2004	8.5	3.1	0.7	6.1	
2005	7.8	3.4	0.7	5.3	
2006	8.2	3.4	0.7	6.6	

Year	Japan	Southeast Asia	South Asia	China
2007	9.7	4.3	1.0	7.1
2008F	10.4	4.8	1.1	7.8
Rate of Growth <sup>a</sup>	1.26%	7.08%	4.75%	15.24%

**Source:** U.S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

Notes: F = Forecast

a. The rate of growth is the change in U.S. exports from 1992 to 2008F. Calculations were made by CRS using a compound rate of growth calculator.

#### Growth in Agricultural Exports to North and South America

• Growth in U.S. agricultural trade with Canada and Mexico, both NAFTA trading partners, and with Latin America has been particularly strong since 1992.

- U.S. agricultural exports to Canada are forecast to reach \$14.7 billion in FY2007.
- U.S. agricultural exports to Mexico are expected to be \$13.7 billion in FY2007.

• U.S. agricultural exports to Latin America (excluding Mexico) are expected to reach \$8.7 billion in FY2008.

Figure 23. Growth in the Agricultural Exports to North and South America, FY1992-FY2008F



Year	Latin America ex. Mexico	Canada	Mexico	NAFTA	
992	2.8	4.8	3.7	8.5	
993	3.3	5.2	3.7	8.9	
994	3.2	5.3	4.1	<b>9</b> .4	
995	4.5	5.8	3.7	9.5	
996	4.9	6.6	5.1	11.7	
997	4.9	6.6	5.1	11.7	
998	5.3	7.0	6.0	I 3.0	
999	4.7	7.0	5.7	l 2.7	
2000	4.3	7.5	6.3	13.8	
2001	4.3	8.0	7.3	15.3	
2002	4.5	8.6	7.1	5.7	
2003	4.8	9.1	7.6	l 6.7	
2004	5.2	9.6	8.4	I 8.0	
2005	5.2	10.4	9.3	l 9.7	
2006	6.	11.6	10.4	22.0	
2007	7.6	13.2	2.3	25.5	
2008F	8.7	14.7	3.7	28.4	
Rate of Growth <sup>a</sup>	6.90%	6.81%	8.00%	7.35%	

## Table 23. Change in Agricultural Exports to North and South America, FY1992-FY2008F

(\$ billion)

**Source:** U.S. Department of Agriculture. Economic Research Service, Outlook for U.S. Agricultural Trade, AES-56, November 30, 2007, available at http://usda.mannlib.cornell.edu/usda/current/AES/AES-11-30-2007.pdf.

#### Notes: F = Forecast

a. The rate of growth is the change in U.S. exports from 1992 to 2008F. Calculations were made by CRS using a compound rate of growth calculator.

#### Producer Support Estimates (PSEs) in Selected OECD Countries<sup>1</sup>

• PSEs measure assistance to producers in terms of the value of monetary transfers generated by agricultural policy. Transfers are paid either by consumers or by taxpayers in the form of market price support, direct payments, or other support. They are a broader measure of support than direct government subsidies alone (which are discussed below). The percentage PSE measures support in relation to the total value of production.

• PSEs are an indication of the extent to which government policy supports (subsidizes) agricultural producers.

<sup>&</sup>lt;sup>1</sup> Agricultural policies in OECD Countries Monitoring and Evaluation, Paris, OECD, 2007.

• PSEs vary considerably among OECD countries. Australia, with 6% in 2006, is among the lowest, while Korea at 63% and Japan at 53% are among the highest.

• The EU's PSE (32%) is almost three times that of the United States' (11%).



#### Figure 24. Producer Support Estimates (PSEs) in Selected OECD Countries

Table 24. Producer Support Estimates (PSEs) in Selected OECD Countries

(percent)

Country	1986-88	2004-2006	2004	2005	2006p		
Australia	8	4	4	4	6		
EU	41	34	36	33	32		
Japan	64	55	56	55	53		
Korea	70	63	63	63	63		
U.S.	22	14	16	16	П		

**Source:** Organization for Economic Co-operation and Development (OECD), Agricultural Policies in OECD Countries: Monitoring and Evaluation, 2007.

Note: P = Provisional

## Producer Support Estimates (PSEs) in the United States and the European Union: Selected Commodities<sup>2</sup>

• The PSE for all agricultural products in the EU declined from 41% in 1986-88 to32% in 2006.

• The PSE for all agricultural products in the United States declined from 22% in 1986-88 to 11% in 2006.

• EU policy changes to greater income support and away from commodity support have reduced the level of subsidies to wheat, corn, and oilseeds (soybeans). Products still heavily subsidized in the EU are rice, sugar, milk, and beef and veal.

• In the United States, high commodity prices more than policy changes have reduced the level of individual commodity support for grains. Milk and sugar, however, are still highly subsidized. (OECD does not calculate PSEs for non-food crops, such as cotton, which also is heavily subsidized in the United States).





<sup>&</sup>lt;sup>2</sup> PSEs for individual commodities are from *Agricultural Policies in OECD Countries: Monitoring and Evaluation*, Paris, OECD, 2007. OECD will produce commodity-specific PSEs in 2007.

(percent)							
Products	986-88 (Average)	2004-2006	2004	2005	2006P		
Wheat	47	4.8	4.6	I.8	8.0		
Corn	34.8	9.7	10.8	17.6	0.7		
Rice	50	5.3	7.4	7.5	1.0		
Soybeans	1.7	0.6	2.8	-0.6	-0.5		
Sugar	55.9	41.6	54.2	44.4	26.2		
Milk	36.1	9.9	27.6	19.2	l 2.8		
Beef and Veal	1.1	0.0	0.0	0.0	0.0		

## Table 25. Producer Support Estimates (PSE) in the United States by Commodity (percent)

**Source:** Organization for Economic Cooperation and Development (OECD), Agricultural Policies in OECD Countries: Monitoring and Evaluation, 2007 edition.

**Note:** P = Provisional



Figure 26. Producer Support Estimate (PSEs) in the European Union

(percent)					
Products	l986-88 (Average)	2004-2006	2004	2005	2006P
Wheat	49.7	4.0	6.3	4.5	1.1
Corn	51.0	11.8	17.3	15.0	3.0
Rice	58.9	33.3	40.2	36.5	23.2
Soybeans	60.9	0. l	0.1	0.1	1.0
Sugar	61.4	51.9	64.4	53.8	37.5
Milk	69.8	27.8	35.9	23.5	23.8
Beef and Veal	52.9	57.7	66.7	57.7	48.8

#### Table 26. Producer Support Estimates (PSEs) in the European Union

Source: Organization for Economic Cooperation and Development (OECD), Agricultural Policies in OECD Countries: Monitoring and Evaluation, 2007 edition.

Note: P = Provisional

#### Domestic Support and Export Subsidies in the United States and the European Union: Budgetary Outlays

The governments of both the United States and the European Union provide income • support to farmers and subsidize agricultural exports. At current exchange rates, the EU sends about five times as much as the United States in support of agriculture.

In the United States, domestic support and export subsidies are concentrated on • wheat, rice, feed grains, and cotton. Domestic support in the United States has declined in recent years as prices for supported agricultural commodities have increased.

The European Union provides domestic support and export subsidies to a broader range of products including grains, sugar, oils and fats, dairy products, meat, poultry and eggs, and fruits and vegetables.

• EU support remains large, but the nature of its support has changed. In 2007, the EU estimates that 55% of its support will be provided as decoupled (not linked to production) direct aid to farmers. An additional 22% of EU aid will go to promote rural development in the countryside.

(\$ billion)			
European Union	2005	2006	2007E
Export Subsidies <sup>a</sup>	3.709	3.376	1.881
Domestic Support <sup>b</sup>	60.311	66. 56	69.064
Total	64.020	69.532	70.945

2005

(-)

20.187

2006

(-)

20.211

### Table 27. U.S. and EU Government Spending on Agricultural Support, 2005-2007E

Export Subsidies<sup>c</sup>

Domestic Support<sup>d</sup>

**United States** 

0.227

3.558

2007E

Total	20.187	20.211	3.785

**Source:** U.S. Department Of Agriculture, Economic Research Service Table 35—CCC Net Outlays by Commodity and Function, available at http://www.ers.usda.gov/Publications/AgOutlook/AOTables/; and Commission of the European Union, Agriculture in the European Union, Statistical and Economic Information 2006, available at http://ec.europa.eu/agriculture/agrista/2006/table\_en/index.htm. Currency conversions calculated by CRS.

#### **Notes:** E = Estimate

a. EU export subsidies include export refunds, but exclude foreign food aid.

b. EU domestic support includes expenditures for intervention purchasing and other price support measures, production and processing subsidies, set-aside and income support, monetary compensatory amounts, and stock depreciation.

c. U.S. export subsidies include net outlays of the Community Credit Corporation for the Export Enhancement Program, Dairy Export Incentive Program, Export Credit Guarantee Programs, Market Access Program, Technical Assistance to Emerging Markets, Foreign Market Development Cooperative Program, and Quality Samples Program. Foreign food aid is excluded. Minus (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

d. U.S. domestic support includes net CCC outlays, including interest payments and operating expenses, minus CCC export outlays. Net costs of crop insurance are included. Conservation Reserve Program and other conservation spending is included.

## Table 28.Agricultural and Trade Policies in the United States and the EuropeanUnion

United States	European Union		
Domestic Support			
Producers of wheat, feed grains, upland cotton, rice, and oilseeds are eligible for direct payments entitling them to fixed annual payments until 2007. Payments are based on established acreage and yields. A few planting restrictions apply and conservation rules must be observed. Holders of contracts qualify for nonrecourse marketing assistance loans and loan deficiency payments. Producers of soybeans and other oilseeds also are eligible for contract payments and nonrecourse marketing assistance loans and loan deficiency payments.	Historically, agricultural support has been based primarily on market price support provided through institutional prices. For many commodities, these policies have been operated together with measures to limit the volume of production to which the price support applies. From 1993/1994 on, as part of the May 1992 reform of the Common Agricultural Policy (CAP), there has been some substitution for market price support by direct payments. For supported crops, direct payments were based on historical areas and yields and operated in conjunction		
Substantial emergency assistance was provided to U.S. farmers in 1998, 1999, 2000, and 2001 to counter the	with a land set-aside requirement. Oilseeds support is based on area payments.		
effects of declining commodity prices and natural disasters.	For livestock products, direct payments were based on fixed reference numbers and for beef they are subject to		
Prices of milk and dairy products are supported by an administered minimum price for milk, CCC purchase of dairy products, tariffs, and import quotas. Other livestock products are not supported by administered prices.	limitations on stocking density. Further price reductions, part of Agenda 2000 reforms further reduced grain and meat prices and will be only partially compensated by increases in direct payments.		

The price of sugar is supported above an administered minimum price by controlling supply through a tariff import quota.

A counter-cyclical income support program for grain, cotton, and oilseed producers was included in the 2002 farm bill. Dairy farmers also receive a form of countercyclical support through Milk Income Loss Contract payments under the 2002 farm bill. Beginning in 2005, EU farmers receive a decoupled Single Farm Payment (SFP) which generally groups the previous direct payments into one and is decoupled from production. Eligibility for the SFP is conditioned on farmers' observing enumerated environmental and "good farming" practices.

United States	European Union		
Trade Measures			
Import quotas for dairy and sugar are subject to conversion to tariff quotas under the 1994 Uruguay Round (UR) Agreement on Agriculture. Export subsidies provided under the Export Enhancement Program (EEP) and other commodity specific subsidies are	Trade restrictions in the form of variable import levies which kept imported agricultural products at prices that are as high as EU internal prices were converted to tariff quotas as the EU implemented the 1994 Uruguay Round Agreement on Agriculture.		
subject to reduction under the UR Agreement. Export market development programs, the Market Access Program (MAP,) and the Foreign Market Development Program (FMDP) assist producer groups, associations, and firms with promotional and other activities.	Export subsidies (called restitutions or refunds) are		
A federally chartered public corporation, the Commodity Credit Corporation (CCC), makes credit guarantees available to private financial institutions who finance the purchase U.S. agricultural exports. The United States has negotiated free trade agreements (ETAs) with Canada and Maxisa which source substantially.	EU countries (but not the EU itself) operate market development and export promotion programs funded by Government outlays and mandatory producer levies. France, Netherlands, and Germany have the largest programs devoted to promoting mainly exports of high- value products.		
(FTAs) with Canada and Mexico which cover substantially all agricultural trade among FTA signatories. The United States has negotiated FTAS with Chile and Central American countries and is involved in negotiating other bilateral FTAs with Thailand and South Korea, among others.	France, for example, assists with export financing through the Company for International Trade Insurance (COFACE), which is majority held independently. COFACE commercial risk coverage is usually less than three years, but longer terms are available in certain cases.		
	Several preferential trade arrangements have been concluded with former European colonies in Africa, the Caribbean, and the Pacific.		
Foo	d Aid		
The United States is the world's leading supplier of food	The EU provides about 1/3 of world food aid.		

The United States is the world's leading supplier of foo aid. It provides more than half of the global total.

The United States provides food aid mainly through P.L. 480 also known as the Food for Peace program. Wheat and wheat flour are the main commodities provided as food aid, but rice and vegetable oils are also important in P.L. 480 programs. Higher-value products are made available in special feeding programs. Responsibility for implementing food aid programs is shared by USDA and the U.S. Agency for International Development (AID).

P.L. 480 food aid is provided on concessional terms (Title I) and as donations (Titles II and III). Title I food aid is intended to help develop overseas markets; Titles II and III are for humanitarian or developmental purposes.

Two other food aid programs are conducted under Section 416(b) of the Agricultural Act of 1949 and the Food for Progress Act of 1985. The former provides surplus CCC inventories as donations; the latter provides concessional credit terms or commodity donations to support emerging democracies or countries making free market economic reforms. A recently enacted food aid program, the McGovern-Dole School Food for Education program, finances school feeding and child nutrition projects in poor countries.

EU food aid consists of two parts, EU aid and individual country bilateral programs. EU aid is distributed mainly through the United Nations' World Food Program; bilateral aid is distributed directly to receiving countries. Bilateral food aid constitutes about 70% of the total of EU food aid. All EU food aid is provided as donations.

Wheat is the predominant commodity in EU food aid; lesser amounts of skim milk powder, vegetable oils, sugar, and pulses are provided.

Canada	Australia	
Domestic S	upport	
Agricultural policy involves a broad range of measures implemented by both the Federal and Provincial Governments.	Both Commonwealth and State programs provide funds for farm restructuring, rural development and research, and income-tax concessions. Under the	
Wheat and other grain prices are supported by the Canadian Wheat Board (CWB) which has an exclusive right to purchase wheat produced in Manitoba, Saskatchewan, Alberta, and the Peace River Valley of British Columbia, and	Rural Adjustment Scheme, the Commonwealth offers interest rate subsidies on commercial loans for productivity improvements, short-term downturns, c reestablishment after leaving farming.	
to export it or sell it domestically. Farmers can participate in the Canadian Agricultural income Stabilization Program which protects farmer against risks	Excise taxes on diesel fuel used in off-road vehicles and machinery are refunded under the Diesel Fuel Rebate Scheme	
associated with weather and low prices. Supply management systems exist for several commodities,	The Commonwealth guarantees Australian Wheat Board loans used to finance advance payments to wheat producers	
including milk, poultry, and eggs. Marketing boards set producer prices and production quotas for some commodities.	wheat producers. A large number of statutory marketing boards exist a the Commonwealth and State levels. The purposes of these boards are to increase producer returns	
Provincial governments operate other, autonomous programs, often through provincial marketing boards. About one-third of total budgetary expenditure for Canadian	these boards are to increase producer returns, stabilize prices, and assist with marketing. States impose supply controls on milk. Some States	
agriculture is provided by Provincial Governments.	impose supply controls on eggs, sugar, and rice. Marketing arrangements operate in some States for barley, sorghum, corn, rice, and tobacco.	
Trade Mea	asures	
Import quotas apply to imports of certain products— particularly dairy, poultry, and eggs—and are used in conjunction with supply management schemes for those	Tariffs protect sugar, tobacco, and processed fruit an vegetables. A tariff-rate quota applies to cheese imports from all countries except New Zealand	
products. The Uruguay Round Agreement required that these quotas be converted to tariffs with some minimum access for imports provided.	Local content restrictions apply to fruit juices and tobacco.	
A tariff rate quota on imports of boneless beef applies to imports from all countries except the United States and Mexico, Canada's partners in NAFTA.	Manufacturing milk (milk used in the manufacturing o dairy products) is supported through export subsidie financed by levies on all domestic milk production.	
Canada agreed to gradually eliminate its tariffs on most U.S. agricultural products under the bilateral free trade agreement with the United States. It reached a separate bilateral agreement with Mexico under the North American Free Trade Agreement, which also requires a scheduled	AWB Ltd., the privatized version of the Australian Wheat Board, has monopoly control of wheat exports. A Crown corporation is the sole exporting authority for sugar in Queensland, the main sugar producing state.	
elimination of tariffs on most agricultural products.	The Commonwealth provides export credit for when exports and extends credit insurance. The Australian	
The Federal Government guarantees export credit for wheat exports, usually for three years or less. It is also responsible for debt of the Canadian Wheat Board, which can borrow money to finance wheat sales.	Wheat Board makes sales on credit terms. The Government's Export Finance and Insurance Corporation provides export insurance and insures credit sales by the Australian Wheat Board.	
Canada promotes exports, including agricultural exports, through the Program for Export Market Development. Assistance is made available to commodity associations. Some important commodity groups and associations fund all	Export promotion is provided primarily by commodi marketing boards and associations; the Commonwealth Government provides only modest assistance to promote agricultural exports.	

#### Table 29. Agricultural and Trade Policies in Canada and Australia

Food Aid

programs.

are part of their own export market development activities. Provincial Governments have modest export promotion

Canada	Australia
Canada is the third largest provider of food aid. Food aid is administered as part of Canada's foreign aid program; the Canadian International Development Agency (CIDA) is responsible for implementing the program. Food	Australian food aid is provided mainly to meet disaster or emergency situations. Australian food aid is provided both bilaterally and through the U.N. World Food Program.
aid is donated and used to help recipient countries reform their agricultural policies or to meet humanitarian emergencies. In 1994, 60% of Canadian food aid was distributed multilaterally, mainly through the U.N. World Food Program.	The main commodities provided under Australia's food aid program have been wheat, rice, and wheat flour. Other commodities include vegetable oils, peas, and biscuits.
Wheat and wheat flour make up the largest portion of Canadian food aid. Non-grain products, especially canola (rapeseed) oil, pulses, and fish account for about a third.	

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