

Wheat

World wheat production is expected to increase by an average of almost 10 million tons per year between 1998 and 2007. Above-trend yields in China, the United States, Former Soviet Union (FSU), and Eastern Europe produced a dramatic record global yield in 1997, and a return to trend means lower yields for several years in these key wheat-producing countries. World area is projected to expand gradually after 1998, as wheat prices strengthen relative to most other crops. However, world area will not exceed the 1997 level until 2001 and, at the end of the baseline, will remain 6 million hectares below the 1981 record. Land availability is constrained in most countries by climate and increased urbanization. Wheat area declined in the 1980s and 1990s in the FSU and Eastern Europe, as unprofitable area went out of production when the role of centralized planning was reduced. Much of that area is expected to remain out of production through the baseline.

Foreign consumption growth for wheat is projected to average almost 10 million tons per year between 1997 and 2007, twice the rate posted during the previous 10 years. Food demand is expected to account for most foreign consumption growth, but feed and industrial use also will expand slowly. Wheat feed use will fall in many regions as wheat prices rise relative to feed grains, but wheat feeding will increase in the FSU and the EU. In the FSU, increased livestock production will boost wheat feeding, while in the EU, wheat that fails to meet milling standards will not be eligible for

price supports and will move into feed channels. Per capita food use of wheat is projected to rise in regions with modest but growing incomes.

World wheat trade (including the wheat equivalent of wheat flour) is projected to grow an average of more than 3 million tons annually during 1997-2007.

Projected growth is well above that of the 1980s, but less than during the 1970s. Wheat trade is projected to rebound from the unusually low levels in 1997 due to increased imports by China, and then return to trend growth, with some acceleration toward the end of the baseline.

Projected world import growth is broad-based among the lower- and middle-income countries that are expected to show relatively strong economic growth over the next 10 years, including much of Asia, Latin America, North Africa, and the Middle East. Gains in incomes and urbanization will continue to shift consumer preferences away from rice, coarse grains (for food use), and tubers, and toward wheat-based foods and meat. Per capita wheat consumption is expected to continue to increase relative to rice in China and Southeast Asia. In North Africa, rising incomes and market-oriented farm reforms, including privatization of trade, are expected to boost imports.

China's wheat imports are projected to rebound from a 1997 low of 2 million tons, as yields return to trend

Figure 3
Wheat: Historical and projected world area and yield

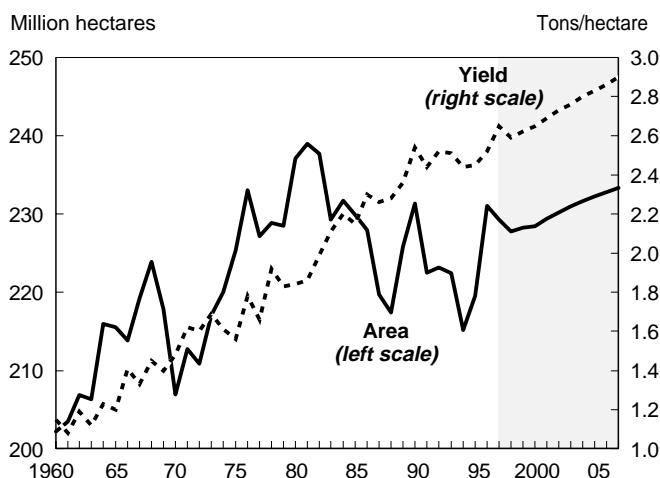


Figure 4
Wheat: Historical and projected world supply and use

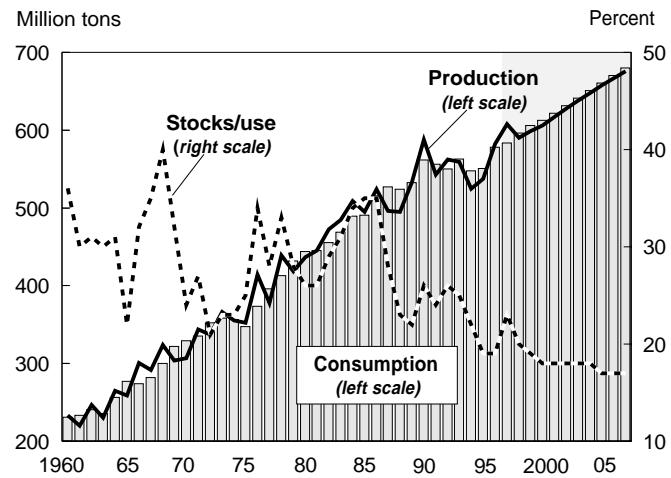
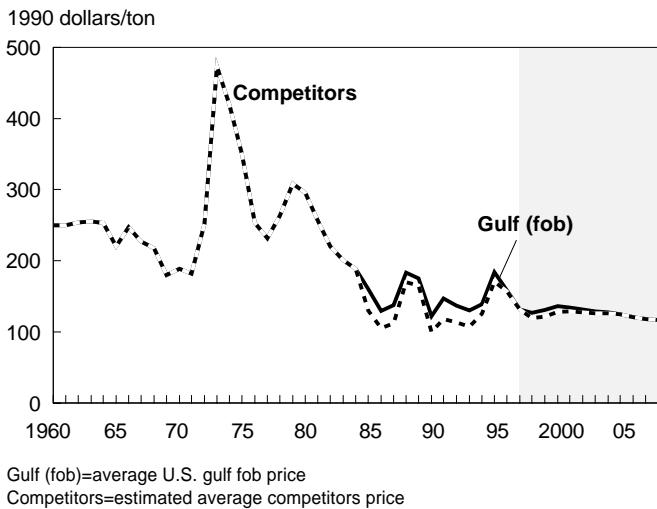


Figure 5
Wheat: Historical and projected real prices

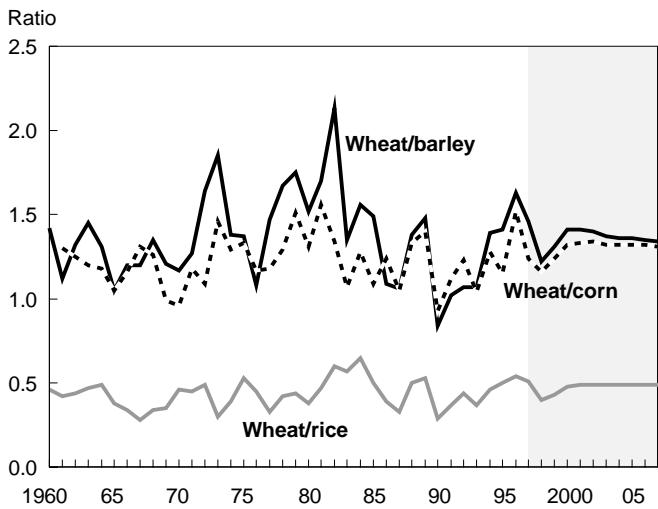


and limited area reduces production, and then to increase gradually through the baseline as demand outstrips production. China is a key source of uncertainty in global wheat import prospects because of the uncertain impacts of potential water constraints, yield improvements, dietary shifts toward meats, and policies toward grain imports.

In the past, many importers benefited from exporter subsidies, credit, or food aid. Under the Uruguay Round agreement, subsidized exports will fall from about 40 percent of world trade in 1994 to about 25 percent by 2000. However, budgeted EEP funds are assumed to be spent starting in 1998/99, so targeted countries will receive larger exporter subsidies than in recent years. Some countries will be affected by the outlook for no increase in the nominal value of credit and food aid. Wheat imports by the least developed countries, particularly the Sub-Saharan Africa region, are likely to decline relative to imports by the higher income developing countries.

U.S. wheat exports are projected to grow fairly rapidly in the early years of the baseline, but flatten when prices get high enough for the EU to export without subsidy in 2000/01. U.S. export growth will recover late in the baseline, reaching 42.2 million tons in 2007, still lower than in 1981 and 1987. The U.S. share of world trade will increase until 2000 and then decline slowly to less than one-third. In the early years of the baseline, U.S. exports will benefit from rebounding U.S. production, the use of EEP, and Uruguay Round limits on EU wheat exports. As time progresses, however, slow U.S. yield growth and large acreage in

Figure 6
Wheat: Historical and projected price ratios



the CRP will limit the U.S. ability to expand production relative to competitors.

Compared with the 1980s and early 1990s, the EU is a less significant competitor in world wheat trade, particularly during 1998–2000, because of internal policy reforms and Uruguay Round constraints on subsidized exports. After 2000, although the EU is expected to be able to consistently export some wheat without subsidy, the EU land set aside is expected to remain at about 10 percent in order to avoid building excess grain stocks.

Initially, land constraints and competitive prices for other crops are expected to limit wheat exports by Argentina, Australia, and Canada. But later, Argentina and Australia are projected to find it increasingly profitable to increase wheat production and exports. Canada's exports will stay relatively flat, largely because of expected slow yield growth. In the early years of the baseline, Canada will maintain wheat exports by reducing stocks, but then wheat area will increase in response to strengthening prices. Minor exporters, like Eastern Europe, will become more important in the latter part of the baseline.

Highlights for Major Importers

Higher incomes and population growth is expected to fuel strong demand for wheat in most regions. Gains in incomes and urbanization will continue to shift consumer preferences away from coarse grains (for food use), rice, and tubers, and toward wheat-based

foods. China remains the largest source of uncertainty regarding wheat import prospects.

China. For the entire baseline, China's wheat imports are projected to remain below the 12.5 million tons imported in 1995, but grow from a low of 2 million forecast for 1997/98, reaching 11 million by 2007. Consumption, driven mostly by increased population, is expected to grow faster than production because declining area partly offsets rapidly increasing yields. From 1998 to 2007, China's wheat production is projected to increase only 7 million tons compared with the exceptional 39-million-ton increase from 1988 to 1997. It is expected that China's future wheat imports will be based more on economic factors than on self-sufficiency goals.

The projections of China's future trade create, perhaps, the greatest amount of uncertainty in the wheat trade outlook. During the 1990s, China's wheat imports have ranged from 2 million tons to over 15 million. There is considerable uncertainty regarding such factors as water constraints and future yield improvements, foreign exchange earnings, the pace of dietary shifts toward meats, and the pace of market liberalization. The baseline projections represent what is considered the most likely path of future trade, but the recent history suggests that a wide range of trade outcomes is plausible.

Former Soviet Union. The FSU is expected to be a small net importer of wheat during the next 10 years. Demand for grain will be low compared with the 1980s and early 1990s because of low livestock inventories and sluggish economic growth. After 2000, economic growth is expected to accelerate and boost demand, but yield growth is also expected to pick up, resulting in little trade growth.

Southeast Asia. In the baseline scenario (developed in the fall of 1997), wheat imports by Southeast Asia (*Indonesia, Malaysia, the Philippines, and Thailand*) show strong growth as rising incomes and urbanization boost food demand and lead to dietary shifts away from rice, tubers, and coarse grains (for food use). These trends will likely be slowed in the near term by changes in macroeconomic prospects (see the Asia Crisis box page 12)), but the effects on wheat will be less than those for most other commodities.

Latin America. Most countries in Latin America are wheat importers, because limited crop area has a

climate well suited to wheat production. Per capita wheat consumption is expected to increase modestly, except in the Central America/Caribbean region. Steady consumption growth gradually boosts imports. *Brazil* is expected to remain one of the world's largest wheat importers. Despite yield-driven gains in production, Brazil's wheat imports are projected to grow by just over 1 percent per year over the baseline.

North Africa and the Middle East. Prospects for increased wheat production in North Africa and the Middle East are limited by the shortage of cropland. Strong population growth is boosting consumption and, while per capita food consumption may decline in *Iran*, it is expected to increase slowly in most of the rest of the region, including *Iraq*. Wheat imports by the region are projected to grow from about 30 million tons in 1998 to more than 40 million by 2007. *Egypt* and *Iran* remain among the world's largest importers, and by 2007 *Algeria* is expected to import more than 5 million tons. By 2007, the region is likely to account for almost a third of world wheat imports, with the growth in regional demand helping to underpin projected gains in world trade.

Highlights for Major Foreign Exporters

Compared with the 1980s and early 1990s, the EU is expected to be a smaller wheat exporter until 2002, because of internal policy reforms and the Uruguay Round agreement. U.S. exports capture about a third of world trade for the entire baseline period, because land constraints and the profitability of alternative crops limit competing exporters' production.

European Union. EU policy changes implemented as part of the 1992/93 CAP reform, and the Uruguay Round commitments to reduce subsidized exports will limit EU wheat exports until world prices reach intervention levels. In the baseline, the EU is projected to be able to consistently export wheat without subsidy by 2000/01. However, the timing of unsubsidized EU exports is a major uncertainty in the projections that will have a significant impact on U.S. wheat exports. Recent history has shown that seasonal or annual variations in market conditions may result in periods of relatively high world prices and unsubsidized exports prior to 2000, as well as periods of tight EU supplies that lead to export taxes on wheat. Potential changes in EU intervention or set-aside policies also contribute uncertainty to the projections.

Details of EU Wheat Export Projections

The EU is projected to begin exporting some wheat without the aid of export subsidies by about 2000/01. Unsubsidized EU wheat exports are expected to occur as projected real world prices and internal EU market prices converge, allowing the EU to export beyond the limits set for subsidized exports during the Uruguay Round. In the early years of the projections, EU market prices of wheat are expected to remain above world prices, with EU wheat exports projected at or below the UR limits. By 2000/01, firm world prices and declining internal prices are expected to permit the EU to export wheat without subsidy, with exports exceeding the UR limits by about 45 percent, or 7.6 million tons by 2007.

It is important to note that the projections do not account for annual or seasonal variability in market conditions that, as has occurred in the last 3 years, may result in periods of relatively high world prices and unsubsidized wheat exports prior to 2000, as well as periods of tight EU supplies that lead to export taxes on wheat.

Several key factors and assumptions affect the projections. First, with the assumption that no significant reforms will be made to the Common Agricultural Policy (CAP), the EU is expected to

maintain a 5-percent land set-aside through 1999/2000, then increase to 10 percent for the duration of the projection period. A lower set-aside rate could allow the EU to produce and export more wheat. However, because the set-aside is not crop specific, a smaller set-aside would also likely lead to excess supplies of coarse grains, primarily barley, that would exceed the EU's UR limits on coarse grain exports and that could not be exported without subsidy. Revision of the CAP to alter the set-aside mechanism or to reduce internal coarse grain prices closer to world prices would appear to be needed to push EU wheat exports significantly higher than the current projections.

Finally, the projections incorporate the assumption that the European Currency Unit (ECU) will strengthen relative to the dollar during 1998-2007, reflecting tighter fiscal and monetary policies in EU member states as they prepare for the European Monetary Union. A strong ECU means that EU farmers will face prices that decline more (or increase less) than prices denominated in U.S. dollars. The strengthening ECU tends to reduce producer and export incentives, particularly toward the end of the projection period.

Baseline EU wheat production is high enough that the EU is able to export up to its Uruguay Round limit in the first years of the baseline. In response to high production, the EU is assumed to raise the land set-aside rate from 5 percent during 1997-1999 to 10 percent in 2000/01 and maintain that level for the remainder of the projection period. The world market price for wheat is projected to strengthen and match the EU market price by 2000/01, allowing the EU to export wheat without subsidy in that year and thereafter. The EU is assumed to retain the 10-percent set-aside option in the later years because barley exports will remain constrained by the Uruguay Round subsidized export limits, and a lower set-aside would likely generate large barley surpluses.

EU wheat export supplies are also expected to be affected by expanding internal demand for feed wheat. Grain feed demand is projected to remain relatively

strong because of rising production of pork and poultry. Demand for these meats, whose production is more feed-intensive than beef, is expected to remain stronger than for beef, both due to the effects of the BSE scare on domestic demand, and due to rising, unsubsidized exports of pork and poultry.

Canada. Wheat area and production are expected to remain steady, at a level slightly higher than the 1993-97 average. Projected exports range from 17.9-18.4 million tons. Canola plantings significantly affect area and production of other crops, particularly wheat. For the near term, strength in grain prices will encourage substitution back out of canola. In later years, the projections assume that rotational constraints on canola plantings will limit canola acreage to a maximum of approximately 5.8 million hectares.

Food Aid Assumptions and Sub-Saharan Africa Grain Import Projections

The long-term outlook for Sub-Saharan Africa's food grain imports is closely linked to the assumptions on global availability of grain food aid, and prospects for the region's chronically limited capacity to import food commercially. Baseline assumptions for the United States and other donors indicate a gradual decline in the global availability of grain food aid (see table). For Sub-Saharan Africa, however, this decline is expected to be offset by an increasing share of global aid allocated to the region as needs decline in the transition economies of the CEE and FSU. If historical patterns hold, wheat will account for about 66 percent of grain food aid available to the region, corn 22 percent, and rice 12 percent.

The macroeconomic assumptions for Sub-Saharan Africa suggest little improvement in the rate of income growth or inflows of investment or export earnings. With the baseline indicating a slower decline in real food grain prices than in the past, and assuming that the share of available foreign exchange that countries in the region spend on commercial

food grain imports remains near present levels, growth in commercial imports will be limited.

These food aid and commercial import assumptions, combined with the modest projected growth in food grain production, result in a gradual decline in the already-low average level of per capita food grain consumption in Sub-Saharan Africa. For the region as a whole, per capita food grain consumption is projected to fall from an average of about 128 kgs in 1994-96 to about 121 kgs by 2007. This indicates further deterioration of the nutritional status in at least some parts of the region. Alternate assumptions that increase the availability of food aid for Sub-Saharan Africa, or the share of commercial import capacity allocated to food grains, would increase projected imports and consumption. A larger food aid allocation would come at the cost of donor budgets or other aid recipients. Allocation of a larger share of commercial import capacity to food grains could reduce imports of investment goods and tax future growth prospects.

Sub-Saharan Africa: Details of food grain import projections

World food grain aid 1/	S.S. Africa		Wheat			Rice			Corn			
	Food grain aid	Share of world grain aid	Food aid 2/	Com- mercial	Total	Food aid 2/	Com- mercial	Total	Food aid 2/	Com- mercial	Total	
	--- 1,000 tons ---		Percent			--- 1,000 tons ---		--- 1,000 tons ---			--- 1,000 tons ---	
1993	12,615	3,567	28	2,242	2,861	5,103	405	2,153	2,558	920	955	1,875
1994	8,657	3,058	35	1,900	2,700	4,600	400	1,957	2,357	760	1,249	2,009
1995	7,343	2,414	33	1,672	2,303	3,975	278	2,654	2,932	465	262	727
1996	4,900	2,254	46	1,585	2,902	4,487	270	2,211	2,481	400	1,594	1,994
1997	5,319	2,250	42	1,485	2,835	4,320	270	2,462	2,732	495	1,190	1,685
1998	5,114	2,202	43	1,453	3,231	4,684	264	2,891	3,155	484	796	1,280
1999	5,014	2,198	44	1,450	2,921	4,371	264	2,782	3,046	483	586	1,069
2000	4,898	2,186	45	1,443	2,900	4,343	262	2,787	3,049	481	562	1,043
2001	4,901	2,226	45	1,469	2,787	4,256	267	2,712	2,979	490	549	1,039
2002	4,931	2,281	46	1,505	2,696	4,201	274	2,596	2,870	502	526	1,028
2003	4,963	2,337	47	1,542	2,726	4,268	280	2,506	2,786	514	511	1,025
2004	4,969	2,381	48	1,572	2,690	4,262	286	2,396	2,682	524	449	973
2005	5,003	2,441	49	1,611	2,631	4,242	293	2,358	2,651	537	345	882
2006	5,064	2,515	50	1,660	2,565	4,225	302	2,251	2,553	553	285	838
2007	5,100	2,579	51	1,702	2,661	4,363	309	2,197	2,506	567	235	802

1/ USDA baseline assumptions. U.S. assumptions are for constant nominal U.S. P.L. 480, Title I budget and 2.1 percent annual growth in P.L. 480, Titles II and III budgets for FY 1999-2007. Assumes constant real budget for Australia and Canada, and constant tonnage donations by the EU, Japan, and other donors.

2/ Based on historical shares of food aid in the form of wheat (66 percent), corn (22 percent), and rice (12 percent).

Australia. Australia is projected to increase wheat exports gradually over the baseline period, from 14 million tons to more than 16 million by 2007, well above the 12.4 million tons averaged during 1992-1996. Export subsidy disciplines affecting other exporters under the Uruguay Round and strong demand growth for Australia's white wheat are expected to maintain favorable returns to Australian wheat producers.

Argentina. Argentina's wheat exports are expected to increase dramatically as wheat prices rise relative to competing crops in the latter year of the baseline. In the early years of the baseline, Argentina is projected to export less than 8 million tons of wheat, less than in 1996/97 and 1997/98, but more than the 1992-1996 average of 6.6 million. Argentina is expected to

be quite sensitive to relative price changes between wheat, oilseeds, and feed grains. With projected wheat prices strengthening later in the baseline, wheat exports are expected to exceed 11 million tons by 2007.

Central and Eastern Europe. In the first years of the baseline, the Central and Eastern Europe region is projected to be small net exporter of wheat but, by 2007, the region's projected net wheat exports rise to more than 4 million tons. Production is expected to expand in response to higher world prices and productivity gains. The timing and volume of increases in wheat exports from this region, will depend, however, on highly uncertain agricultural policies and investments in marketing and transportation infrastructure.

Table 7--Wheat Supply and Use Projections--continued

	Area	Yield	Production	Imports	Exports	Consumption			Feed	Ending stocks
						Total	Food	Food/cap		
	1,000 ha	Tons/ha	---	1,000 tons	---	Kgs.	---	1,000 tons	---	
Australia										
1994	8,003	1.11	8,903	35	6,343	3,900	2,274	125.8	1,633	2,405
1995	9,721	1.70	16,504	20	13,300	3,654	1,838	100.7	1,778	1,975
1996	11,327	2.08	23,586	20	18,710	4,790	3,322	180.2	1,178	2,081
1997	10,800	1.76	19,000	30	14,000	4,900	2,250	120.9	2,600	2,211
1994-97 ave.	9,963	1.71	16,998	26	13,088	4,311	2,421	131.9	1,797	2,168
1999	10,763	1.73	18,631	32	14,293	4,387	2,295	121.1	2,092	2,742
2000	10,750	1.76	18,928	33	14,584	4,433	2,307	120.7	2,126	2,686
2001	10,910	1.78	19,431	34	14,956	4,510	2,322	120.5	2,187	2,685
2002	11,054	1.80	19,892	35	15,331	4,584	2,339	120.4	2,245	2,697
2003	11,121	1.82	20,228	35	15,576	4,676	2,356	120.3	2,322	2,708
2004	11,148	1.84	20,515	36	15,790	4,761	2,372	120.2	2,389	2,708
2005	11,187	1.86	20,806	37	15,991	4,840	2,389	120.2	2,453	2,720
2006	11,286	1.88	21,166	38	16,257	4,916	2,406	120.2	2,510	2,751
2007	11,288	1.89	21,378	38	16,405	4,990	2,423	120.2	2,568	2,772
Brazil										
1994	1,365	1.60	2,185	6,545	0	8,100	8,100	50.4	300	1,306
1995	1,034	1.49	1,540	5,470	0	8,100	8,100	49.8	300	216
1996	1,800	1.78	3,200	5,178	0	8,100	8,100	49.2	300	494
1997	1,550	1.81	2,800	5,700	0	8,500	8,200	49.3	600	494
1994-97 ave.	1,437	1.69	2,431	5,723	0	8,200	8,125	49.7	375	628
1999	1,344	1.65	2,221	6,250	0	8,476	8,121	50.0	355	670
2000	1,384	1.70	2,352	6,318	0	8,659	8,323	50.6	336	681
2001	1,392	1.75	2,442	6,334	0	8,767	8,418	50.8	349	690
2002	1,406	1.80	2,529	6,423	0	8,938	8,580	51.3	358	704
2003	1,408	1.84	2,591	6,488	0	9,068	8,701	51.7	367	715
2004	1,401	1.88	2,639	6,601	0	9,228	8,852	52.1	376	727
2005	1,402	1.93	2,704	6,667	0	9,360	8,975	52.5	385	738
2006	1,393	1.97	2,748	6,777	0	9,511	9,115	52.9	396	752
2007	1,391	2.01	2,800	6,856	0	9,644	9,239	53.3	405	764
Canada										
1994	10,838	2.13	23,122	111	20,850	7,821	3,800	133.3	4,035	5,679
1995	11,141	2.25	25,037	131	16,341	7,778	3,801	131.9	3,900	6,728
1996	12,262	2.43	29,801	275	19,500	8,218	3,975	136.5	4,193	9,086
1997	11,400	2.13	24,300	200	19,000	8,500	4,000	136.0	4,500	6,086
1994-97 ave.	11,410	2.24	25,565	179	18,923	8,079	3,894	134.4	4,157	6,895
1999	11,859	2.20	26,045	127	17,937	8,153	3,758	125.3	4,395	6,361
2000	11,962	2.20	26,269	128	17,961	8,312	3,800	125.6	4,511	6,485
2001	11,948	2.20	26,268	130	18,062	8,326	3,838	125.7	4,487	6,495
2002	11,953	2.20	26,312	131	18,109	8,330	3,866	125.5	4,464	6,499
2003	11,939	2.20	26,315	132	18,145	8,315	3,879	124.9	4,435	6,486
2004	11,961	2.21	26,388	134	18,162	8,340	3,895	124.4	4,445	6,506
2005	11,982	2.21	26,466	135	18,227	8,359	3,912	123.9	4,447	6,521
2006	11,936	2.21	26,408	136	18,222	8,338	3,928	123.5	4,410	6,505
2007	11,930	2.22	26,432	138	18,246	8,330	3,941	122.9	4,389	6,499
Central America & Caribbean										
1994	14	1.57	22	2,880	0	2,910	2,760	40.6	160	195
1995	6	1.67	10	2,368	0	2,386	2,216	32.1	160	187
1996	4	1.75	7	2,677	0	2,654	2,472	35.2	170	217
1997	4	1.50	6	2,795	0	2,805	2,650	37.2	110	213
1994-97 ave.	7	1.61	11	2,680	0	2,689	2,525	36.3	150	203
1999	5	1.66	8	2,849	0	2,858	2,744	37.3	114	193
2000	5	1.68	8	2,846	0	2,856	2,743	36.8	113	191
2001	5	1.68	9	2,862	0	2,870	2,756	36.4	114	192
2002	5	1.69	9	2,877	0	2,885	2,770	36.0	115	193
2003	5	1.70	9	2,897	0	2,905	2,789	35.8	116	194
2004	5	1.71	9	2,916	0	2,924	2,807	35.5	117	195
2005	5	1.72	9	2,935	0	2,943	2,825	35.2	118	196
2006	5	1.73	9	2,954	0	2,962	2,843	34.9	119	197
2007	5	1.74	9	2,969	0	2,978	2,857	34.6	121	198

See note at end of table.

Continued--

Table 7--Wheat Supply and Use Projections--continued

	Area	Yield	Production	Imports	Exports	Consumption			Ending stocks	
						Total	Food	Food/cap		
	1,000 ha	Tons/ha	---	1,000 tons	---	Kgs.	---	1,000 tons	---	---
Indonesia										
1994	0	0.00	0	3,800	0	3,500	3,360	16.5	140	450
1995	0	0.00	0	3,600	1	3,749	3,610	17.5	140	300
1996	0	0.00	0	4,195	0	4,095	3,860	18.4	140	400
1997	0	0.00	0	4,500	0	4,500	4,360	20.5	140	400
1994-97 ave.	0	0.00	0	4,024	0	3,961	3,798	18.2	140	388
1999	0	0.00	0	4,967	0	4,960	4,819	22.0	141	165
2000	0	0.00	0	5,323	0	5,311	5,170	23.2	141	177
2001	0	0.00	0	5,648	0	5,637	5,496	24.4	141	188
2002	0	0.00	0	5,899	0	5,891	5,750	25.1	141	196
2003	0	0.00	0	6,173	0	6,164	6,023	26.0	141	206
2004	0	0.00	0	6,555	0	6,542	6,401	27.3	142	218
2005	0	0.00	0	6,900	0	6,889	6,746	28.4	142	230
2006	0	0.00	0	7,258	0	7,246	7,103	29.5	143	242
2007	0	0.00	0	7,679	0	7,665	7,521	30.8	144	256
Iran										
1994	7,600	1.51	11,500	3,200	0	14,200	13,700	212.0	500	4,800
1995	7,600	1.49	11,300	2,750	0	15,100	14,350	217.1	750	3,750
1996	7,600	1.45	11,000	6,849	0	16,000	15,200	225.1	1,000	5,599
1997	7,400	1.35	10,000	5,000	0	16,500	16,000	232.0	750	4,099
1994-97 ave.	7,550	1.45	10,950	4,450	0	15,450	14,813	221.5	750	4,562
1999	7,601	1.45	11,042	5,128	0	15,922	15,272	212.5	650	3,264
2000	7,637	1.46	11,149	5,331	0	16,225	15,569	211.7	650	3,519
2001	7,657	1.47	11,234	5,534	0	16,564	15,898	211.3	650	3,723
2002	7,672	1.47	11,313	5,709	0	16,889	16,226	211.1	650	3,856
2003	7,688	1.48	11,393	5,894	0	17,185	16,521	210.4	650	3,958
2004	7,708	1.49	11,480	6,147	0	17,467	16,800	209.6	650	4,118
2005	7,724	1.50	11,561	6,335	0	17,751	17,081	208.9	650	4,263
2006	7,738	1.50	11,639	6,488	0	18,049	17,375	208.4	650	4,341
2007	7,755	1.51	11,723	6,692	0	18,336	17,658	207.7	650	4,420
Japan										
1994	152	3.72	565	6,310	452	6,400	5,487	43.8	913	1,275
1995	151	2.94	444	6,101	559	6,061	5,146	41.0	915	1,200
1996	159	3.01	478	6,264	400	6,342	5,350	42.6	992	1,200
1997	158	3.63	573	6,200	400	6,373	5,360	42.5	940	1,200
1994-97 ave.	155	3.32	515	6,219	453	6,294	5,336	42.5	940	1,219
1999	177	3.06	541	6,171	400	6,311	5,380	42.5	931	1,202
2000	178	3.07	547	6,172	400	6,318	5,389	42.5	930	1,203
2001	179	3.09	554	6,168	400	6,321	5,398	42.5	923	1,204
2002	180	3.11	560	6,163	400	6,323	5,406	42.5	916	1,204
2003	181	3.12	566	6,155	400	6,321	5,414	42.5	908	1,204
2004	183	3.14	573	6,145	400	6,318	5,419	42.5	900	1,204
2005	184	3.16	580	6,132	400	6,313	5,422	42.4	892	1,203
2006	185	3.17	587	6,117	400	6,306	5,422	42.4	883	1,201
2007	187	3.18	594	6,098	400	6,294	5,421	42.4	874	1,199
Malaysia										
1994	0	0.00	0	1,157	129	1,058	995	50.9	60	230
1995	0	0.00	0	1,065	112	1,083	947	47.4	50	100
1996	0	0.00	0	1,139	100	1,039	850	41.7	50	100
1997	0	0.00	0	1,200	100	1,100	950	45.7	50	100
1994-97 ave.	0	0.00	0	1,140	110	1,070	936	46.4	53	133
1999	0	0.00	0	1,203	109	1,088	1,033	47.8	54	108
2000	0	0.00	0	1,254	113	1,134	1,078	49.0	56	115
2001	0	0.00	0	1,310	117	1,185	1,127	50.3	59	122
2002	0	0.00	0	1,369	121	1,240	1,179	51.6	61	130
2003	0	0.00	0	1,430	124	1,297	1,234	53.1	63	139
2004	0	0.00	0	1,494	127	1,358	1,292	54.6	66	149
2005	0	0.00	0	1,560	129	1,421	1,353	56.3	68	159
2006	0	0.00	0	1,627	131	1,485	1,415	57.9	71	169
2007	0	0.00	0	1,696	133	1,552	1,478	59.4	74	180

See note at end of table.

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Table 7--Wheat Supply and Use Projections--continued

	Area	Yield	Production	Imports	Exports	Consumption			Ending stocks	
						Total	Food	Food/cap	Feed	
	1,000 ha	Tons/ha	---	1,000 tons	---	Kgs.	---	1,000 tons	---	
Poland										
1994	2,407	3.18	7,659	990	5	8,797	5,102	132.2	3,600	917
1995	2,407	3.60	8,668	553	136	9,002	5,393	139.6	3,650	1,000
1996	2,480	3.46	8,579	1,714	150	9,143	5,500	142.1	3,500	2,000
1997	2,549	3.24	8,250	400	200	9,450	5,700	147.0	3,800	1,000
1994-97 ave.	2,461	3.37	8,289	914	123	9,098	5,424	140.2	3,638	1,229
1999	2,453	3.51	8,605	712	0	9,317	5,709	146.3	3,609	1,217
2000	2,473	3.56	8,810	541	0	9,351	5,707	145.7	3,645	1,217
2001	2,470	3.60	8,890	423	0	9,313	5,711	145.3	3,601	1,217
2002	2,467	3.63	8,955	309	0	9,264	5,717	144.9	3,547	1,217
2003	2,464	3.66	9,020	228	0	9,248	5,723	144.5	3,525	1,217
2004	2,466	3.70	9,115	200	67	9,248	5,727	144.1	3,521	1,217
2005	2,468	3.73	9,197	200	178	9,219	5,731	143.7	3,488	1,217
2006	2,463	3.75	9,236	200	256	9,180	5,736	143.4	3,445	1,217
2007	2,463	3.78	9,302	200	348	9,154	5,738	143.0	3,415	1,217
Russia										
1994	22,184	1.45	32,100	1,879	395	42,616	22,221	149.8	20,426	7,693
1995	23,909	1.26	30,100	4,991	177	39,420	21,500	145.1	17,920	3,187
1996	25,721	1.36	34,900	1,980	600	37,814	22,200	150.0	14,650	1,653
1997	25,700	1.72	44,200	2,000	1,250	38,814	24,000	162.4	14,650	7,789
1994-97 ave.	24,379	1.45	35,325	2,713	606	39,666	22,480	151.8	16,912	5,081
1999	24,867	1.49	36,942	2,015	500	38,406	22,822	154.3	15,584	2,880
2000	25,024	1.51	37,703	1,818	500	38,978	23,716	160.1	15,263	2,923
2001	24,822	1.52	37,805	2,044	550	39,276	24,007	161.9	15,270	2,946
2002	24,602	1.54	37,899	2,235	600	39,516	24,177	162.9	15,339	2,964
2003	24,343	1.56	37,990	2,442	650	39,764	24,185	162.7	15,579	2,982
2004	24,138	1.58	38,251	2,713	700	40,229	24,486	164.4	15,743	3,017
2005	23,934	1.61	38,559	2,784	750	40,567	24,630	165.1	15,938	3,043
2006	23,729	1.64	38,924	2,845	800	40,941	24,804	166.0	16,138	3,071
2007	23,549	1.68	39,449	2,643	850	41,221	24,827	165.9	16,394	3,092
Saudi Arabia										
1994	599	4.47	2,679	29	1,651	1,878	1,678	91.9	200	1,229
1995	465	4.30	2,000	43	181	1,850	1,600	84.9	200	1,241
1996	265	4.53	1,200	200	0	1,800	1,700	87.2	100	841
1997	330	4.55	1,500	300	0	1,800	1,700	84.1	100	841
1994-97 ave.	415	4.45	1,845	143	458	1,832	1,670	87.0	150	1,038
1999	305	4.52	1,376	598	2	1,968	1,840	84.9	128	770
2000	299	4.56	1,363	667	1	2,004	1,874	83.8	132	795
2001	293	4.61	1,349	719	0	2,050	1,916	83.0	136	813
2002	284	4.66	1,321	793	0	2,097	1,961	82.4	138	830
2003	275	4.70	1,293	876	0	2,143	2,005	81.8	140	856
2004	269	4.75	1,279	932	0	2,189	2,048	81.1	143	878
2005	264	4.80	1,265	1,003	0	2,239	2,095	80.5	145	907
2006	258	4.85	1,251	1,064	0	2,290	2,145	80.0	147	932
2007	253	4.89	1,237	1,127	0	2,341	2,192	79.4	151	955
Slovakia										
1994	442	4.85	2,145	2	200	1,823	668	124.7	1,162	450
1995	437	4.43	1,938	5	201	1,817	690	128.4	1,150	375
1996	415	4.13	1,713	250	50	1,838	850	157.6	1,000	450
1997	415	4.70	1,950	100	50	2,000	930	171.8	1,000	450
1994-97 ave.	427	4.53	1,937	89	125	1,870	785	145.6	1,078	431
1999	418	4.34	1,814	42	0	1,850	932	170.3	918	452
2000	432	4.41	1,907	2	0	1,898	1,019	185.1	879	463
2001	433	4.46	1,929	0	20	1,907	1,022	184.6	885	466
2002	432	4.50	1,946	0	51	1,897	1,015	182.3	883	463
2003	429	4.54	1,949	0	81	1,874	981	175.3	892	457
2004	429	4.59	1,968	0	105	1,865	978	173.9	887	455
2005	429	4.63	1,987	0	155	1,839	952	168.5	886	449
2006	427	4.66	1,992	0	159	1,834	940	165.6	895	448
2007	426	4.70	2,000	0	204	1,803	908	159.4	896	441

See note at end of table.

Continued--

Table 7--Wheat Supply and Use Projections--continued

	Area	Yield	Production	Imports	Exports	Consumption			Feed	Ending stocks
						Total	Food	Food/cap		
	1,000 ha	Tons/ha		---	1,000 tons	---	Kgs.	---	1,000 tons	---
South Africa										
1994	1,035	1.77	1,832	900	140	2,474	2,464	59.4	10	403
1995	1,363	1.43	1,950	900	160	2,650	2,690	63.5	10	443
1996	1,294	2.09	2,700	700	150	3,050	3,090	71.3	10	643
1997	1,380	1.67	2,300	700	150	3,050	3,285	74.2	15	443
1994-97 ave.	1,268	1.73	2,196	800	150	2,806	2,882	67.1	11	483
1999	1,363	1.87	2,544	662	100	3,069	3,068	66.3	1	585
2000	1,386	1.89	2,626	672	100	3,187	3,124	66.1	1	596
2001	1,403	1.92	2,698	674	100	3,258	3,200	66.3	1	610
2002	1,418	1.95	2,761	682	100	3,327	3,281	66.6	1	626
2003	1,434	1.97	2,826	695	100	3,405	3,363	66.8	1	642
2004	1,451	2.00	2,895	708	100	3,488	3,442	67.0	1	657
2005	1,466	2.02	2,963	716	100	3,563	3,526	67.3	1	673
2006	1,481	2.05	3,031	728	100	3,642	3,615	67.6	1	690
2007	1,498	2.07	3,103	739	100	3,726	3,701	67.9	1	706
South Korea										
1994	2	1.00	2	4,293	0	4,294	2,207	49.0	2,087	742
1995	2	5.00	10	2,554	0	2,561	2,289	50.3	272	745
1996	3	3.67	11	3,465	0	3,412	2,200	47.9	1,212	809
1997	2	5.00	10	3,800	0	3,800	2,200	47.4	1,500	819
1994-97 ave.	2	3.67	8	3,528	0	3,517	2,224	48.7	1,268	779
1999	2	5.00	10	3,000	0	3,040	2,379	50.2	662	525
2000	2	5.00	10	2,814	0	2,856	2,304	48.2	552	494
2001	2	5.00	10	2,759	0	2,782	2,321	48.1	461	481
2002	2	5.00	10	2,712	0	2,731	2,346	48.2	385	472
2003	2	5.00	10	2,679	0	2,695	2,374	48.4	321	466
2004	2	5.00	10	2,659	0	2,673	2,405	48.6	268	462
2005	2	5.00	10	2,644	0	2,657	2,433	48.8	224	459
2006	2	5.00	10	2,636	0	2,648	2,461	49.0	187	458
2007	2	5.00	10	2,633	0	2,644	2,487	49.2	156	457
Sub-Saharan Africa										
1994	1,540	1.57	2,417	4,600	0	7,138	7,046	13.0	3	400
1995	1,657	1.61	2,661	3,975	0	6,786	6,735	12.1	0	250
1996	2,097	1.59	3,324	4,742	0	7,943	7,186	12.5	0	373
1997	2,084	1.62	3,383	4,450	0	7,733	6,908	11.7	0	473
1994-97 ave.	1,845	1.60	2,946	4,442	0	7,400	6,969	12.3	1	374
1999	1,809	1.70	3,072	4,371	0	7,377	7,375	11.8	2	370
2000	1,847	1.72	3,183	4,343	0	7,518	7,537	11.8	2	379
2001	1,897	1.75	3,317	4,256	0	7,571	7,577	11.5	2	381
2002	1,922	1.77	3,411	4,201	0	7,609	7,642	11.3	2	384
2003	1,962	1.80	3,535	4,268	0	7,794	7,829	11.3	2	393
2004	1,992	1.83	3,644	4,262	0	7,903	7,882	11.0	2	396
2005	2,019	1.86	3,748	4,242	0	7,986	7,962	10.9	2	400
2006	2,057	1.88	3,875	4,225	0	8,095	8,068	10.7	2	405
2007	2,084	1.91	3,986	4,363	0	8,337	8,305	10.7	2	417
Taiwan										
1994	1	4.00	4	895	0	900	857	40.3	43	99
1995	1	3.00	3	1,092	0	1,080	1,037	48.3	43	114
1996	0	0.00	0	1,016	0	1,000	955	44.1	45	130
1997	1	5.00	5	1,100	0	1,100	1,055	48.3	45	135
1994-97 ave.	1	4.00	3	1,026	0	1,020	976	45.2	44	120
1999	0	0.00	0	1,119	0	1,120	1,076	48.4	44	121
2000	0	0.00	0	1,129	0	1,129	1,085	48.5	44	121
2001	0	0.00	0	1,139	0	1,138	1,095	48.5	43	122
2002	0	0.00	0	1,149	0	1,149	1,106	48.6	43	122
2003	0	0.00	0	1,159	0	1,159	1,117	48.7	42	122
2004	0	0.00	0	1,169	0	1,169	1,128	48.8	42	122
2005	0	0.00	0	1,179	0	1,179	1,138	48.9	41	122
2006	0	0.00	0	1,188	0	1,188	1,148	48.9	40	122
2007	0	0.00	0	1,197	0	1,197	1,158	49.0	39	122

See note at end of table.

Continued--

Table 7--Wheat Supply and Use Projections--continued

	Area	Yield	Production	Imports	Exports	Consumption			Ending stocks	
						Total	Food	Food/cap	Feed	---
						1,000 ha	Tons/ha	---	1,000 tons	---
Other Central & Eastern Europe										
1994	5,313	2.90	15,401	924	600	14,566	10,731	191.4	3,500	3,284
1995	4,951	3.22	15,950	565	2,608	13,341	9,918	177.6	3,050	3,850
1996	3,868	2.19	8,481	1,450	4	12,377	9,866	177.1	2,600	1,400
1997	4,980	3.15	15,670	800	1,350	14,145	11,100	199.6	3,075	2,375
1994-97 ave.	4,778	2.90	13,876	935	1,141	13,607	10,404	186.4	3,056	2,727
1999	4,871	2.95	14,377	1,002	1,187	14,199	11,106	199.3	3,093	1,192
2000	4,951	3.01	14,922	800	1,089	14,588	11,142	199.4	3,447	1,237
2001	5,066	3.04	15,411	606	954	15,022	11,249	200.8	3,774	1,278
2002	5,103	3.07	15,642	601	1,144	15,080	11,356	202.2	3,723	1,297
2003	5,119	3.09	15,811	598	1,294	15,101	11,498	204.3	3,603	1,311
2004	5,107	3.12	15,933	595	1,447	15,071	11,624	206.1	3,446	1,321
2005	5,107	3.14	16,054	591	1,580	15,055	11,708	207.3	3,347	1,331
2006	5,116	3.15	16,139	589	1,600	15,121	11,791	208.5	3,330	1,338
2007	5,114	3.17	16,227	588	1,594	15,214	11,900	210.2	3,313	1,345
Other Former Soviet Union										
1994	15,908	0.93	14,741	5,521	3,500	18,085	13,565	145.5	4,537	6,380
1995	16,378	0.85	13,909	4,257	4,487	17,130	13,947	148.8	3,751	2,929
1996	16,341	0.97	15,889	4,095	2,350	17,309	14,090	149.3	3,216	3,254
1997	15,905	1.16	18,430	3,970	3,350	17,860	15,440	162.4	3,080	4,444
1994-97 ave.	16,133	0.98	15,742	4,461	3,422	17,596	14,261	151.5	3,646	4,252
1999	15,599	1.21	18,827	4,078	3,500	19,877	15,078	155.9	4,799	3,975
2000	15,808	1.23	19,493	4,079	3,700	20,737	15,868	162.4	4,869	3,110
2001	15,787	1.26	19,830	4,719	3,800	20,747	15,696	159.1	5,051	3,112
2002	15,755	1.28	20,179	5,305	4,000	21,388	16,147	162.1	5,241	3,208
2003	15,696	1.31	20,537	5,393	4,100	21,772	16,305	162.0	5,467	3,266
2004	15,673	1.34	21,006	5,478	4,200	22,218	16,533	162.6	5,683	3,332
2005	15,646	1.37	21,511	5,449	4,300	22,602	16,692	162.5	5,910	3,390
2006	15,617	1.41	22,065	5,397	4,400	23,002	16,863	162.5	6,139	3,450
2007	15,604	1.46	22,728	5,214	4,400	23,471	17,090	162.9	6,382	3,521
Other N. Africa & Middle East										
1994	3,839	1.48	5,689	7,131	6	12,414	11,891	158.0	565	3,619
1995	3,917	1.62	6,360	6,535	358	12,067	11,540	148.7	400	4,089
1996	3,916	1.58	6,185	8,000	500	13,786	11,856	148.0	600	3,988
1997	3,653	1.31	4,795	9,310	400	14,455	14,050	170.0	600	3,238
1994-97 ave.	3,831	1.50	5,757	7,744	316	13,181	12,334	156.2	541	3,734
1999	3,950	1.57	6,183	9,276	0	15,403	14,822	168.6	581	4,400
2000	4,020	1.60	6,439	9,689	0	15,952	15,377	169.7	569	4,576
2001	4,079	1.63	6,663	10,037	0	16,521	15,953	171.0	562	4,755
2002	4,111	1.66	6,829	10,416	0	17,077	16,514	171.9	554	4,923
2003	4,144	1.69	6,998	10,792	0	17,630	17,075	172.7	547	5,083
2004	4,169	1.72	7,155	11,164	0	18,166	17,617	173.2	539	5,236
2005	4,197	1.74	7,323	11,553	0	18,722	18,178	173.9	532	5,390
2006	4,228	1.77	7,487	11,898	0	19,248	18,711	174.2	525	5,527
2007	4,256	1.80	7,653	12,371	0	19,859	19,329	175.3	517	5,692

Note: Food category includes other uses in some countries.