



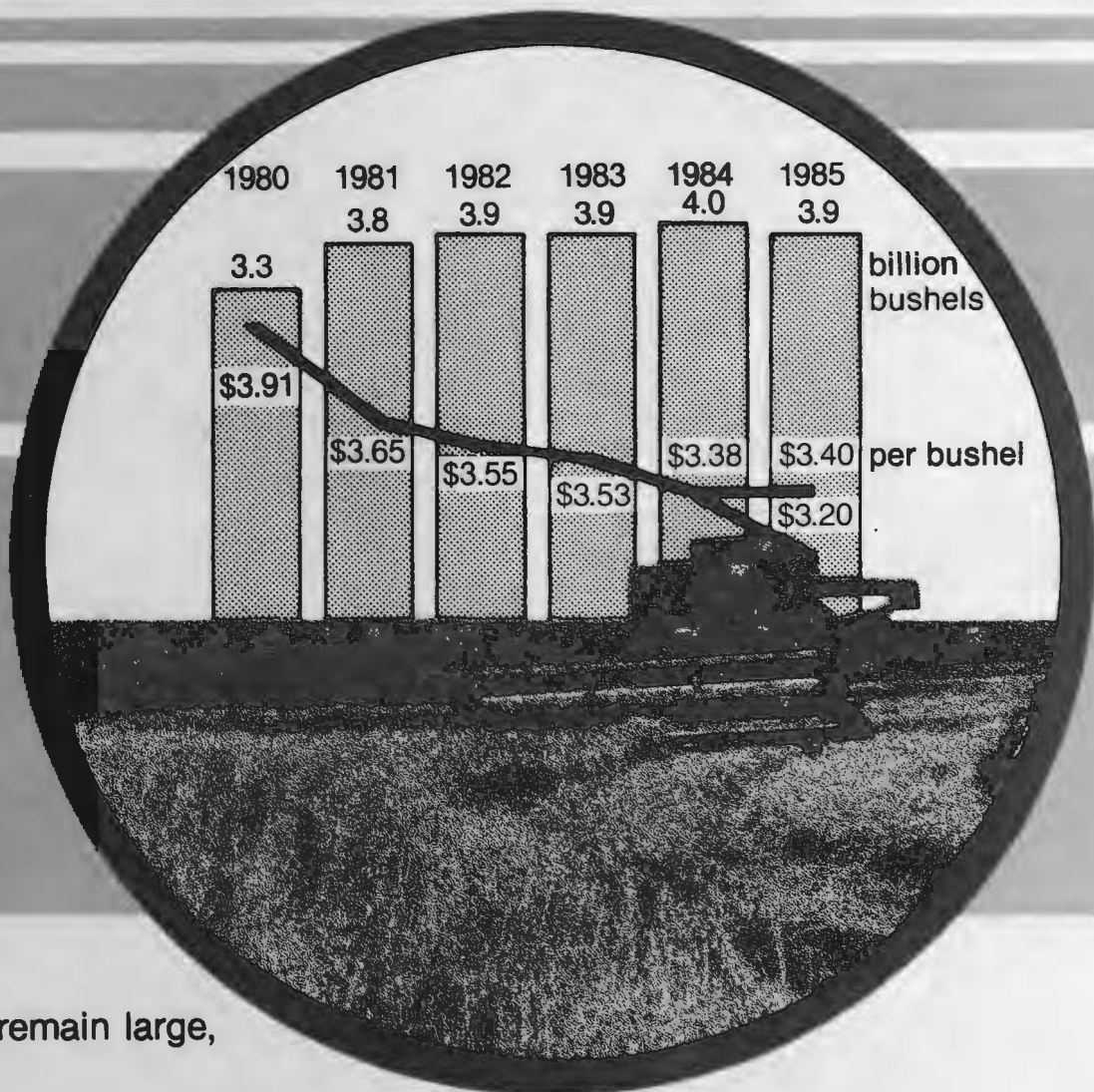
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Wheat

Outlook and Situation Report



Wheat supplies to remain large,
prices weak

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SUMMARY

Favorable winter and spring moisture conditions in the Plains wheat belt and widening use of high yielding varieties, combined with heavy participation in the acreage reduction program, are forecast to produce a U.S. winter wheat crop of 1.97 billion bushels. This is down from 1984's 2.06 billion bushels.

The smallest planted acreage in 6 years will result in a winter wheat harvest estimated at 48.5 million acres yielding over 40 bushels an acre. Production of Hard Red Winter, forecast at a record 1.34 billion bushels, will not offset an expected 30-percent shortfall in Soft Red output and an anticipated 10-percent drop in White winter wheat.

Program participation will also be higher in spring wheat areas, but farmers intend to increase plantings because of the reduced acreage conservation requirement--30 percent of the wheat base, versus up to 50 percent in 1984. Dry soil conditions may be a threat to some areas of an early seeded crop, but output of Durum and other spring wheat is expected to rise. Total U.S. wheat production for 1985 is projected at 2.53 billion bushels, down 2 percent from a year ago.

Even with the combination of a reduced 1985 crop and old-crop stocks, the 1985/86 wheat supply will be only fractionally under the record 4 billion bushels a year earlier. More importantly, demand for U.S. wheat will likely decline.

The record use of wheat for livestock and poultry feed in 1984/85 likely will not be

repeated as increased supplies of corn and sorghum will favor feed grain use. Also, the United States will face some of the same factors that caused deteriorating exports for the past 3 years--large supplies and aggressive marketing policies in foreign exporting nations, another record world wheat harvest, a high-valued dollar, and improved crop prospects this year in the Soviet Union. Estimated export volume, at 1.2 billion bushels, will be down 16 percent from a year ago, second only to the record decline in 1982/83. The export forecast does not take into account the recently announced Export Enhancement Program. As a result, yearend stocks on May 31, 1986, may rise to 1.6 billion bushels. Under these conditions, the average farm price may fall below 1984/85's \$3.38 a bushel, within a range of \$3.20 to \$3.40.

Record wheat disappearance in 1984/85--due to large early season feed use--helped reduce carryover stocks only slightly. Farm prices hovered around the \$3.30-loan rate most of the season, averaging out at \$3.38 a bushel. At those prices, many farmers found forfeiture of their regular and reserve loans most practical, causing Government-owned stocks to more than double in 1984/85.

World wheat production, projected at 520 million metric tons in 1985/86, may be a record for the fifth straight year. On balance, the 1985/86 global wheat situation will likely encompass production exceeding use, continued expansion of stocks, world trade still about 100 million tons (but falling from the 1984/85 record), and lower prices.

OUTLOOK FOR 1985/86

Reduced Harvested Area Cuts 1985 Winter Crop Slightly

Faced with the outlook of mounting U.S. wheat surpluses, USDA announced the features of the 1985 wheat program last June. The basic provisions include a 20-percent nonpaid acreage reduction program (ARP) and a 10-percent paid land diversion (PLD). Missing from this year's program is the payment-in-kind (PIK) feature, which was an important provision in the preceding 2 years, particularly in 1983. In exchange for idling 30 percent of their established wheat base acreage, producers will be eligible for a target price of \$4.38 a bushel and can obtain a \$3.30-a-bushel loan on their production.

With 1984/85 farm wheat prices consistently below last year and below the loan rate during the harvest glut, and with a similar situation in prospect for 1985/86, wheat growers were expected to flock to the signup desks. Total acreage enrolled in the program rose to 3 out of every 4 acres, much higher than 1984's 60 percent of base area. However, the 1985 participation rate is still not as heavy as in 1983, when as much as a whole farm's acreage could have been left idle due to the PIK program option. The impact of the acreage adjustment programs for past crops appears below.

Reducing acreage by program compliance has not contributed fully toward the sought-after reduction in U.S. wheat production. Two of the last three harvests were moderately under 1981's record 2.8 billion bushels. Even the 1983 crop, which saw 30 million acres of wheatland taken out of production, was the fourth largest in history. The average annual yield for the last three crops was 37.7 bushels per acre, compared

with only 33 bushels for the preceding five harvests. Along with the coincidence of generally good growing conditions during the past three seasons and the removal of the marginally productive land through program compliance, higher yields also reflected widening use of improved varieties, the increased area planted to normally higher-yielding Soft Red Winter wheat, and some increased fertilizer use.

The acreage cutback for 1985 appears to be slightly more than in 1984, but ample winter and spring moisture throughout wheat growing areas suggests that above trend yields may once again push wheat production upward—possibly close to 1984's 2.6 billion bushels. The first 1985 winter wheat crop forecast, based on survey conditions around May 1, is 1.97 billion bushels. This would be the fifth season in succession that around 2 billion bushels of winter wheat have been garnered. Chances are two out three that the May 1 forecast will not differ by more than 128 million bushels from final production.

Winter wheat seedings totaled nearly 58 million acres, down 9 percent from a year ago. In the larger Hard Red Winter wheat growing States of Kansas, Oklahoma, Colorado, Nebraska, Montana, and Texas, participation in the acreage reduction effort increased to near 72 percent of base acreage, compared with 65 percent in 1984. But this year's acreage conservation reserve requirement (ACR), at 30 percent of the base, was smaller. In comparison, as much as 50 percent of a farm's base could have been enrolled through the added PIK provision in 1984. So, more wheat land production is protected by the current program at a lower expense of designating fewer acres to nonproduction. Relative to the past two crops, more Hard Red Winter wheat acres will be harvested. In combination with larger acreage, near-record yields from favorable winter and spring weather raise the 1985 HRW forecast to a record 1.34 billion bushels.

Harvested area for Soft Red Winter was down 27 percent from 1984, but not entirely due to high program enrollment. Last fall's dry weather in the Southeast, together with flooding in the Central States' wheat growing belt, prevented growers from planting large areas to winter wheat. In many instances, growers placed these nonplanted acres into

Wheat Crop	Base	Enrolled	Idled	Harvested
Million acres				
1982	90.6	43.8	5.8	77.9
1983	90.9	77.3	30.0	61.4
1984	94.0	57.0	18.5	66.9
1985	93.9	69.4	20.8	

ACR, thus qualifying from program benefits. SRW production is forecast at 374 million bushels, the smallest in 6 years. Reduced seeding of winter Soft White wheat in the Pacific Northwest will result in a harvest of around 260 million bushels.

Larger Plantings Increase Spring Wheat Acreage

Favorable spring weather in the Northern States allowed the 1985 spring wheat crop (Hard Red Spring and Durum) to be seeded in near-record time. Early February planting intentions revealed that seedings would be about 1.3 million acres more than in 1984. Actual plantings will be verified in USDA's Acreage report released on July 10. Even so, the April program participation announcement indicated that 1985's increased level of enrollment (91.5 percent of base acreage in North Dakota) would require spring wheatland left unplanted in the conservation reserve to about equal that of 1984. This would indicate that growers made their decision to enter the program much before spring planting. If they stay with those plans, area will likely be 8 percent larger than a year ago. While much of the spring wheat belt was favorably moist for seeding, some areas need added moisture to repeat last year's record yields. The 1985 spring wheat crop (including Durum) may be around 550 million bushels.

Large Seasonal Supply Will Dominate Again

U.S. wheat production in 1985 appears headed down. However, the decline may not be sufficient to preclude another marketing year with near-record supplies. The first forecast of 1985's crop is 2.53 billion bushels, down only 3 percent from a year ago. Combined with old-crop stocks that are only 128 million bushels below the June 1983 record of 1.51 billion, the 1985/86 wheat supply will again be close to 4 billion bushels for the fourth successive season. From this outlook, the same conclusion reported in last June's Wheat Outlook and Situation Report may be quoted. "Such a supply portends prices near loan rates, unless there are unexpected increases in demand."

Domestic demand for wheat food use (bread, bakery, and cereal) continues to be on a well-established trend that does not deviate

Wheat: Supply and disappearance

Item	1985/86 Projected
	Million bushels
June 1 stocks	1,387
Production	2,525 ± 225
Total supply 1/	3,917 ± 225
Exports	1,200 ± 150
Food	650 ± 10
Seed	100 ± 5
Feed	350 ± 100
Total disappearance	2,300 ± 160
Ending stocks	1,617 ± 175

1/ Includes imports.

much more than 1 percent per year. Increasing wheat product use is unresponsive to even today's current low prices. In contrast, low wheat prices will attract livestock and poultry producers to use wheat in their feeding rations. Ordinarily, wheat prices, even when they are low, are at a premium over feed grain prices and as a result, most of the wheat feed demand is derived when a shortage of readily available feed grain stocks lifts feed grain prices near or above that of wheat. A varying amount of wheat that is discounted for low quality will also end up as animal feed. Prospective wheat feed use in 1985/86 will likely be trimmed from 1984/85's record 450 million bushels because of the current large supplies of corn, sorghum, and barley.

Exports will again be the key to cutting into excessive wheat stocks. World wheat trade will likely continue strong at about 100 million tons, but down from 1984/85. The United States will face some of the same factors that caused deteriorating export shipments the past 3 years. Even if the U.S. dollar declines from its current high value during 1985/86, export competition will be keen because of higher supplies in competitor nations. Therefore, gains in the U.S. wheat export share, at the expense of competitors, is not likely, barring official export stimulus. The USDA recently announced implementation of a \$2-billion export enhancement program which will offer Government-owned commodities as bonuses to U.S. exporters to expand sales of U.S. agricultural products in

targeted markets. Currently, the prospect of large 1985 production in leading world wheat consuming nations, the Soviet Union, China, and India, will affect the coming export season. The potential for expanding exports through increased funding of credit and concessional programs may also be on the upswing, but this expansion often partly replaces commercial sales. In conclusion, there appears little prospect for increasing 1985/86 wheat exports. At this early date, the U.S. export forecast is 1.20 billion bushels, compared with 1.43 billion in 1984/85, the lowest since 1978/79. On balance, total 1985/86 wheat use may not exceed the expected crop, causing yearend stocks to move up toward 1.6 billion bushels. Just a decade ago, a year's production approximated that size.

These 1985/86 supply--demand prospects point to an average farm price resting around the \$3.30-a-bushel national loan rate. With the high participation rate in the 1985 wheat program, a large portion of the crop will be eligible for loan placement. Expected heavy use of the 1985 loan program, combined with the large quantities of grain owned by the Commodity Credit Corporation (CCC), the farmer-owned reserve (FOR), and the new special producer storage loan program, may act positively on wheat prices, particularly if export demand makes an upturn late in the season. For 1985/86, the average farm price may range between \$3.20 and \$3.40 a bushel, compared with \$3.38 in 1984/85.

Farm Bill Proposals Multiply

The 1985 wheat crop will be the last one produced under provisions of the Agriculture and Food Act of 1981. During the past year or so, provisions of the 1981 Act have been widely debated, particularly those dealing with price and income support levels, methods for adjusting them, and related issues such as the purpose and operation of the grain reserve.

During recent weeks, a dozen or more bills have been introduced in Congress to amend or replace the 1981 Act and previous legislation. Although the bills sometimes reflect widely differing viewpoints, they generally have some common themes, namely, that price and income supports should be

related to market prices and that the United States should more aggressively promote exports.

The final outcome of the farm bill debate is far from certain. Significant changes in price support levels, stock management policies, and other items could have important effects on the wheat market for 1986/87 and years to come. And, if a consensus emerges this year, particularly one that calls for immediate and significant changes in program provisions, wheat use and pricing during the 1985/86 marketing year could be affected as well.

THE 1984/85 SITUATION

Wheat Stocks Down Slightly

Compared with past years, wheat disappearance during January-March 1985, took the most precipitous decline ever. This was solely due to a drop in export loadings of nearly 30 percent from the prior 3 months. Still, April 1 wheat stocks, inventoried at 1.67 billion bushels, were down only 5 percent from a year ago as early season exports, combined with heavy use of wheat for livestock and poultry feeding, cut sharply into 1984/85's record 4-billion-bushel supply. Inventories in Kansas and North Dakota, the major bread wheat producing States, accounted for one-third of the total.

April 1's readily marketable supply (total stocks less FOR and CCC-owned stocks) was down more than one-third from last year as continuing near-loan rate prices spurred producers to forfeit outstanding 1983-crop regular loans and prior reserve loans, lifting CCC stocks to 385 million bushels, compared with 167 million last April. CCC inventory is the largest since the mid-1960's. Low prices also upped FOR stocks to 75 million bushels more than last year as producers were encouraged through prepaid storage payments to maintain more grain in the reserve. For farmers to redeem reserve loans, farm prices need to climb to \$4.45 to \$4.65 a bushel, more than \$1 above current prices. Inasmuch as the reserve is in nonrelease status, nearly 75 percent of old-crop carryover will not be

Wheat: Supply and disappearance

available on the commercial markets as the 1985/86 marketing year begins.

Bustling Early Season Exports Fade

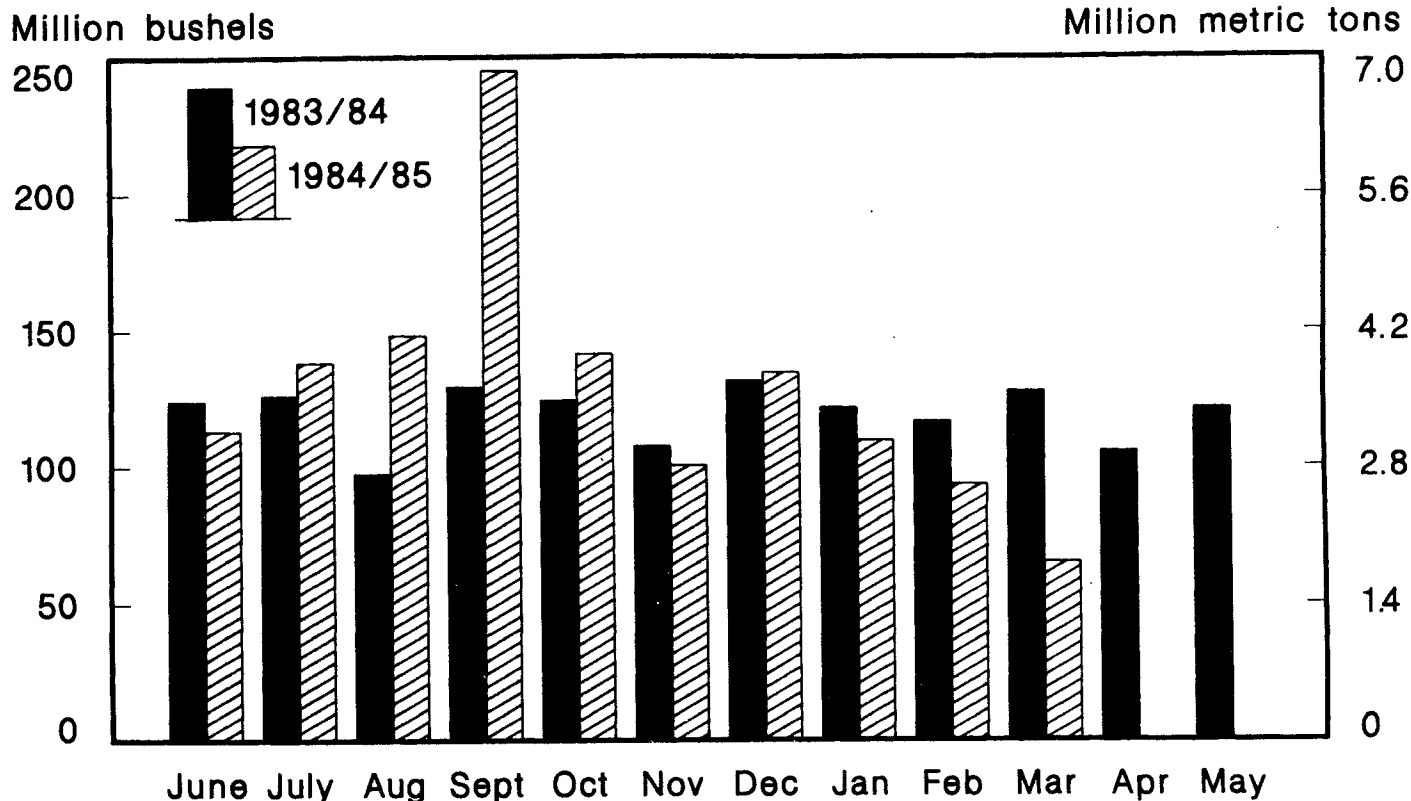
The adage that what goes up must come down appropriately describes the 1984/85 wheat export season. Large sales at harvest (low prices) to China, combined with the heaviest buying ever by the Soviet Union, created an optimistic forecast for what could have been the second strongest export season in history. Total overseas shipments of U.S. wheat grain and products during June–January nearly topped 1.2 billion bushels, just under the rate set in the record 1981/82 season. September 1984 wheat loadings reached a new monthly high of 245 million bushels, far above the previous high of 197 million in September 1981.

Since January, the U.S. competitive situation reversed as the export pace dropped dramatically from an average monthly rate of

Item	June–Mar.	
	1983/84	1984/85
	Million bushels	
June 1 stocks	1,515	1,399
Production	2,420	2,595
Total supply 1/	3,938	4,002
Exports	1,203	1,285
Food	534	545
Seed	79	70
Feed	364	434
Total disappearance	2,180	2,334
April 1 stocks	1,758	1,668
Farm-owned reserves	585	663
CCC inventory	167	386
Free	1,006	619

1/ Includes imports.

U.S. Marketing Year Exports



Includes flour and products in wheat equivalent.

145 million bushels to 89 million. Sales and shipments to China and the Soviet Union came to a standstill by February and both countries even cancelled some outstanding sales. The downturn reflects aggressive selling by Southern Hemisphere (Argentina and Australia) wheat producers. Argentina's production was almost a record and Australia sold off quantities of feed quality wheat left over from the prior season.

This export year has not only been hurt by the strong dollar and current prices being buoyed up by the loan rate, but also by the suspension of the blended credit program due to rulings on the cargo preference provision. An earlier export forecast of 1.5 billion bushels in 1984/85 was adjusted to 1.43 billion, due entirely to the exceptionally slow late season pace.

Depressed Prices Even with Lower "Free" Supplies

During the first half of 1984/85, monthly average farm prices closely followed the path of a year earlier, except that they were about 12 cents a bushel lower. This reduction could be construed as somewhat constructive when taking into consideration that the loan rate, which often acts as a floor price, was lowered 35 cents a bushel from 1983/84--\$3.65 to \$3.30 a bushel. Although prices dipped below loan rates during the harvest, the early surge of exports and increasing stocks going into the reserve and owned by the CCC likely kept average prices from plummeting further. However, the impact of faltering demand during the late season is reflected in average farm prices, which dropped 15 cents a bushel from a year earlier during the second-half of 1984/85. Export sales fell dramatically during this period. The early season price strength carries enough weight to make 1984/85's farm price average \$3.38 a bushel, 8 cents above the loan, compared with \$3.54 or 11 cents below the loan in 1983/84.

Setting the stage for 1985/86 price expectations is the reduced amount of U.S. "free" wheat supplies, the potential for another large world wheat crop in combination with large exportable stocks, and heavy use of the loan program. Together, these factors point to a market year with little upside potential.

WORLD WHEAT OUTLOOK

World Wheat Crop Develops Well; Consumption and Stocks Higher

Global wheat output topped 500 million tons for the first time last season and early prospects suggest that 1985/86 production may be up 6 million tons from last year's record 514 million metric tons. The broadening world interest in augmenting yields through newer adaptable varieties and fertilizer use, also points to the potential of another record world crop. Fall seeded area for winter wheat in the Northern Hemisphere may be up slightly as Canadian and U.S. growers expand hard winter wheat bread varieties into areas that traditionally grow spring wheat. Winter wheat was also seeded on a larger area in the Soviet Union, although there may be some offsetting reductions in Western and Eastern Europe. Areas planted to spring wheats, mainly in Canada, the United States, and the Soviet Union, will be higher than in 1984, reflecting a hefty increase in Canada's area. Wheat area is also predicted to expand in the Southern Hemisphere, particularly Australia.

Among major countries that depend on imports to make up for domestic shortfalls, the 1985 wheat production outlook is as follows:

- o India, which less than 5 years ago depended upon world markets to make up additional needs, now seems to have become fairly self-sufficient. The 1985 harvest is projected to be a near-record, resulting in surplus stocks that are likely to be exported.
- o The Soviet Union, whose 1984 crop was the smallest in a series of successive poor crops, may be due for a recovery in 1985. Both spring and winter wheat areas have improved soil moisture supplies, suggesting higher yields. Total wheat output in 1985 may be around 87 million tons, compared with 73 million in 1984.
- o China, coming off a record 1984 crop, may produce an even larger harvest in 1985 although spring moisture shortages could reduce yields in northern regions that comprise about 25 percent of total wheat area.

- o Eastern Europe's wheat harvest may decline, reflecting reduced area and lower yields due to more winterkill than experienced during the last two seasons.
- o The North African harvest appears favorable for Algeria and Tunisia, while severe dryness has lowered prospects for Morocco's crop.

The outlook for countries that outproduce their domestic need and export their surplus is:

- o In the United States, another acreage reduction program will lower harvest area, but only slightly. As in the past, favorable growing conditions may produce near-record yields, so the 1985 crop may be cut only fractionally.
- o Canadian producers intend to expand wheat seeded area to a new high. If forecast trend yields develop, the 1985 crop may be near the 1982 record.
- o Western Europe's wheat area will be near that which produced 1984's record crop. Also, a cold winter may have reduced yield prospects from last year's record 5.6 metric tons per hectare.

World wheat supply and distribution, 1981-85 1/

Year *	Carryin 2/	Prod.	Total exports	Total use 3/
Million metric tons				
1981/82	78.2	448.4	101.3	441.5
1982/83	85.1	479.1	98.6	467.8
1983/84	96.4	490.4	102.9	488.4
1984/85 4/	98.5	513.8	104.8	503.1
1985/86 5/	109.2	519.7	99.6	508.2

* Marketing year.

1/ Data in this table are based on an aggregate of differing local marketing years, but exports are on a July-June season. 2/ Stocks data are only for selected countries and exclude such important countries as the USSR, China, and part of Eastern Europe for which stocks data are not available; the aggregate stocks levels have, however, been adjusted for estimated year-to-year changes in USSR grain stocks. 3/ For countries for which stock data are not available, or for which no adjustments have been made for year-to-year changes, utilization estimates assume a constant stock level. 4/ Preliminary. 5/ Projected.

Source: World Grain Situation, Foreign Agricultural Service.

- o In Australia, better planting conditions than last year may lift seedings significantly, though output is forecast to be down from the past 2 years.

World Trade May Be Down Slightly

On balance, the global wheat situation in 1985/86 will most likely encompass production exceeding use, continued expansion of stocks, world trade still close to 100 million tons but falling from the 1984/85 record, and prices somewhat lower than a year earlier. Because of large carryin stocks, exporters' supplies will be more than adequate to meet import requirements. Aggressive competition among exporters will likely continue as each seeks to maintain a share of a contracting world market. As a result, the United States--the largest exporter--will likely see the fourth successive decline in export volume.

WHEAT BY CLASS

HRW Crop Advances Toward Record Harvest

Backed by plentiful winter moisture and an early beginning to spring developing and ripening weather, the 1985 Hard Red Winter (HRW) crop appears headed for a bin-bursting 1.34 billion bushels. This forecast is based on excellent yields throughout the HRW belt and USDA's May Crop Production report that indicates harvested area may be 2 million acres larger than a year ago.

Enrollment in the 1985 acreage reduction program was higher, but the idled acres were lower, as farmers were requested to idle 30 percent of their base acreage, compared with as much as 50 percent of the base in 1984. An example of the participation response between 1985 and 1984 is illustrated by Kansas, which this season enrolled 72 percent or 10.3 million acres in the program, requiring 3.1 million to be left idle. This compares with 9.0 million acres enrolled in the 1984 program and nearly 3.2 million acres, or about 140,000 more acres, in conservation use. So, more farmers are protected by program benefits while sacrificing fewer acres to nonproduction.

By adding the expected HRW crop to the June 1 carryin, the 1985/86 HRW marketing season will again be dominated by record supplies, exceeding 2 billion bushels for the

first time. This points to another year of depressed prices. However, compared with 1984/85, the new year will find a higher portion of stocks owned by CCC or in the FOR. If heavier program participation results in significant amounts of new-crop wheat going into the loan program, prices may settle near the loan level.

No doubt, the HRW market year prices will again be supported by the volume of Soviet imports in 1985/86. The Soviet Union was by far the largest buyer in 1984/85, taking nearly 40 percent of all U.S. HRW shipments. But those large imports followed one of the smallest Soviet wheat harvests in 10 years. A rebounding Soviet 1985 crop, along with an expected very large U.S. HRW harvest, spells lower prices for 1985/86.

*Season's HRS Export Activity Falters,
1985 Crop May Be Up*

The 1984/85 Hard Red Spring (HRS) wheat export season probably suffered the most from surplus world wheat production in 1984 and the high-valued U.S. dollar. The record harvest in the European Community (EC) appeared to have cut into its need for high quality bread wheat as purchases from the United States fell nearly 40 percent from a year ago. The EC is usually the largest single buyer of U.S. HRS, followed by Japan. Other Asian and Latin American customers also reduced purchases of this high-protein wheat, possibly due to its high cost in U.S. dollars and its availability at competitive prices. After averaging 217 million bushels per year over the past six seasons, this season's HRS exports, at 180 million bushels, are the smallest since 1977.

The reduced disappearance increases HRS yearend stocks 11 percent from a year earlier. In turn, current farm prices going into the 1985 season may be down 30 cents a bushel from last year. A forecast that Canada's 1985 spring wheat plantings will be up from 1984 does not bode well for HRS prices in the 1985/86 marketing year. To safeguard against low prices, growers enrolled around 88 percent of base acreage in the 1985 acreage reduction program in major spring wheat States. This was the highest for any region and exceeds the national average of 74 percent. However, with enrollment requiring 30 percent of base acres in conservation use, compared with as much as 50 percent in 1984, enrolled spring

wheat producers may harvest close to a million more acres in 1985. This means that nearly all of 1985's HRS will be protected by the \$4.38-a-bushel target price and the \$3.30 loan rate.

*Small Increase in 1985
Durum Output Likely*

The current Durum wheat situation evolved from the excessively large supplies that began with back-to-back record 1981 and 1982 crops. With heavy enrollment in the 1983 and 1984 acreage reduction programs, combined production for the 2 years fell just below the record 1981 harvest. Nonetheless, Durum stocks carried over into 1985/86 are unchanged from a year earlier. They represent about 85 percent of a typical season's total domestic and export use. Although most of these supplies are isolated from the market in the FOR or owned by CCC, farm prices throughout 1984/85 have been 30 cents below a year ago.

To afford some protection from continuing low prices, a majority of Durum growers will comply with the 1985 acreage reduction program. In North Dakota and Montana, the major spring wheat producing States, 91 percent of the acreage base is enrolled in the program, compared with 81 percent in 1984. Ironically, this still means that slightly more acres can be planted to wheat in those two States in 1985, again because of the 30-percent acreage conservation reserve.

Thus, Durum farmers indicated they will increase seeded area 8 percent above 1984 to 3.5 million acres. Early season moisture needs in Durum areas appear about normal, leading to the prospect that 1985 output may be up only slightly from 1984's 103 million bushels. Without a significant upswing in 1985/86 Durum exports, the pattern of carrying over nearly 100 million bushels of old-crop from season to season seems likely to continue, along with correspondingly lackluster prices.

*Short 1985 SRW Crop in View;
Price Rise Possible in 1985/86*

Last fall's persistent rainfall over many of the major Soft Red Winter (SRW) wheat producing States caused a sharp decline in the acreage that will be combined for the 1985

crop. An estimated 4.5 million acres of SRW cropland was not planted, making 1985's harvest, at 374 million bushels, the smallest in 6 years. While the area that did get planted in the Central States came out of dormancy in good condition, springtime dryness in the Southeastern States reduced yield prospects in that area.

Along with reducing the crop size, the nonplanted SRW acreage represents a turn of events for participation of SRW producers in Government acreage reduction programs. The magnitude of this year's unplanted wheat land encouraged farmers to enroll much of that land in the 1985 program. This lifted participation to over 55 percent of the base acreage. Typically, SRW growers enroll only 20 to 30 percent.

The increased enrollment means that a large portion of the 1985 crop will be eligible for loan placement. Therefore, with most of the June 1 carryin locked out of the marketplace (owned by CCC or in the FOR), the sharply reduced crop, and the potential that producers can orderly market their crop through use of the loan option, SRW prices may strengthen in the coming year. However, offsetting that upward price pressure may be diminishing prospects for SRW feed use because of low corn prices, and uncertain export demand, especially if China's crop exceeds the 1984 record. This unclear picture of 1985 SRW prices is reflected in the July futures contract, which remains priced below the \$3.30 farm loan value.

Record White Wheat Supply Continues

Record large supplies of Soft White wheat continue to dominate the market during the 1984/85 season. Heavy early season exports helped cut into the large supplies, but shipments have faded significantly since October 1984. Record soft wheat production in Western Europe intensified competition in world markets and resulted in some reduced U.S. sales. India, often a White wheat buyer, is completely missing from the 1984/85 White wheat export tally due to another record crop. Reduced demand will cause old-crop carryover into the 1985/86 crop year to rise about 10 percent.

Faced with continued loan level prices in 1985/86, White wheat growers in the Pacific Northwest enrolled 78 percent of their base acreage in the 1985 wheat program, compared with 65 percent in 1984. This large increase appears to more than offset 1985's reduced conservation acreage percentage, indicating that harvested area will be down slightly in 1985.

Record White wheat supplies in 1985/86 are expected to equate to loan level prices, but developing on the sidelines is the potential for a much smaller U.S. 1985 SRW crop. If this leads to higher SRW prices, overseas soft wheat buyers may find U.S. Soft White an attractive buy. A widening price differential between White and Red soft wheats will cause buyers to shift from one type to the other.

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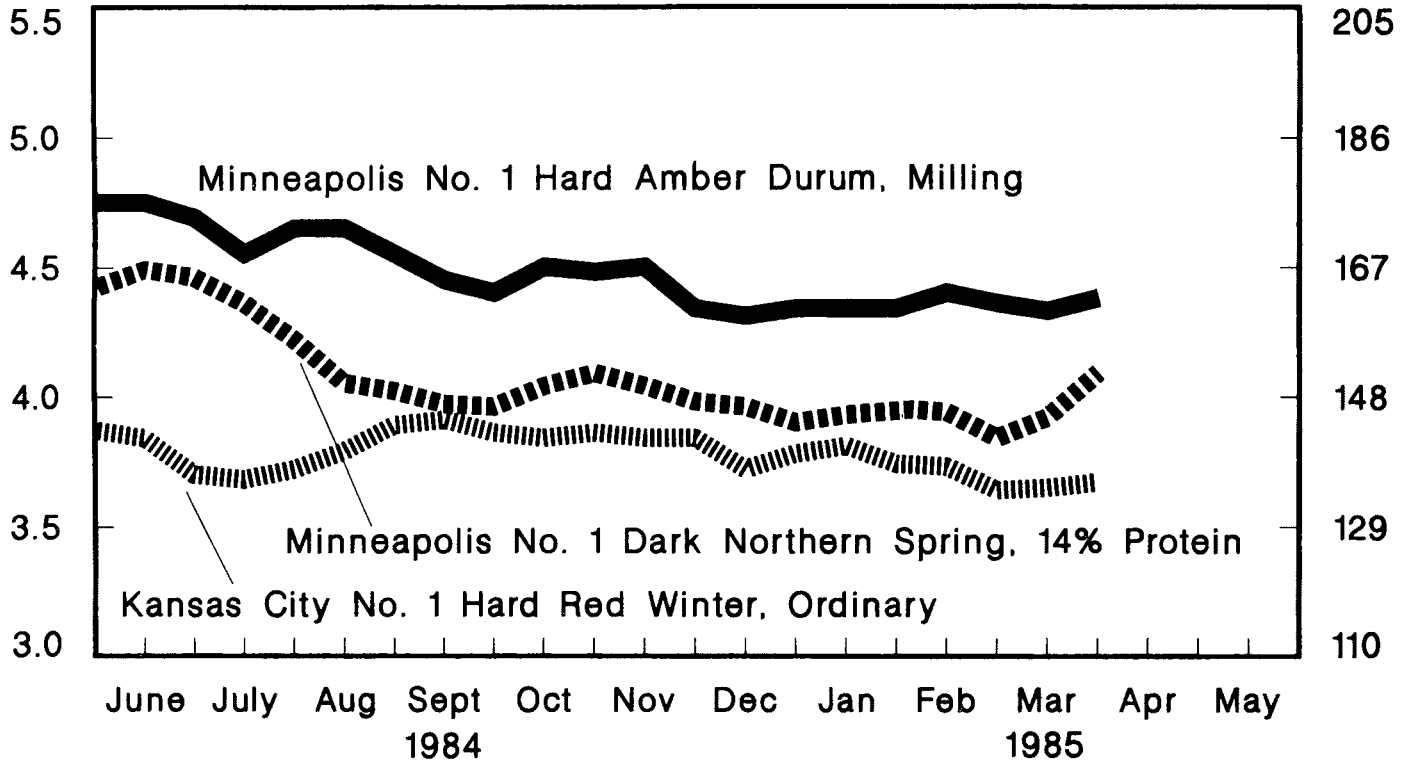
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Hard Wheat Cash Prices, 1984/85*

Dollars per bushel

Dollars per metric ton

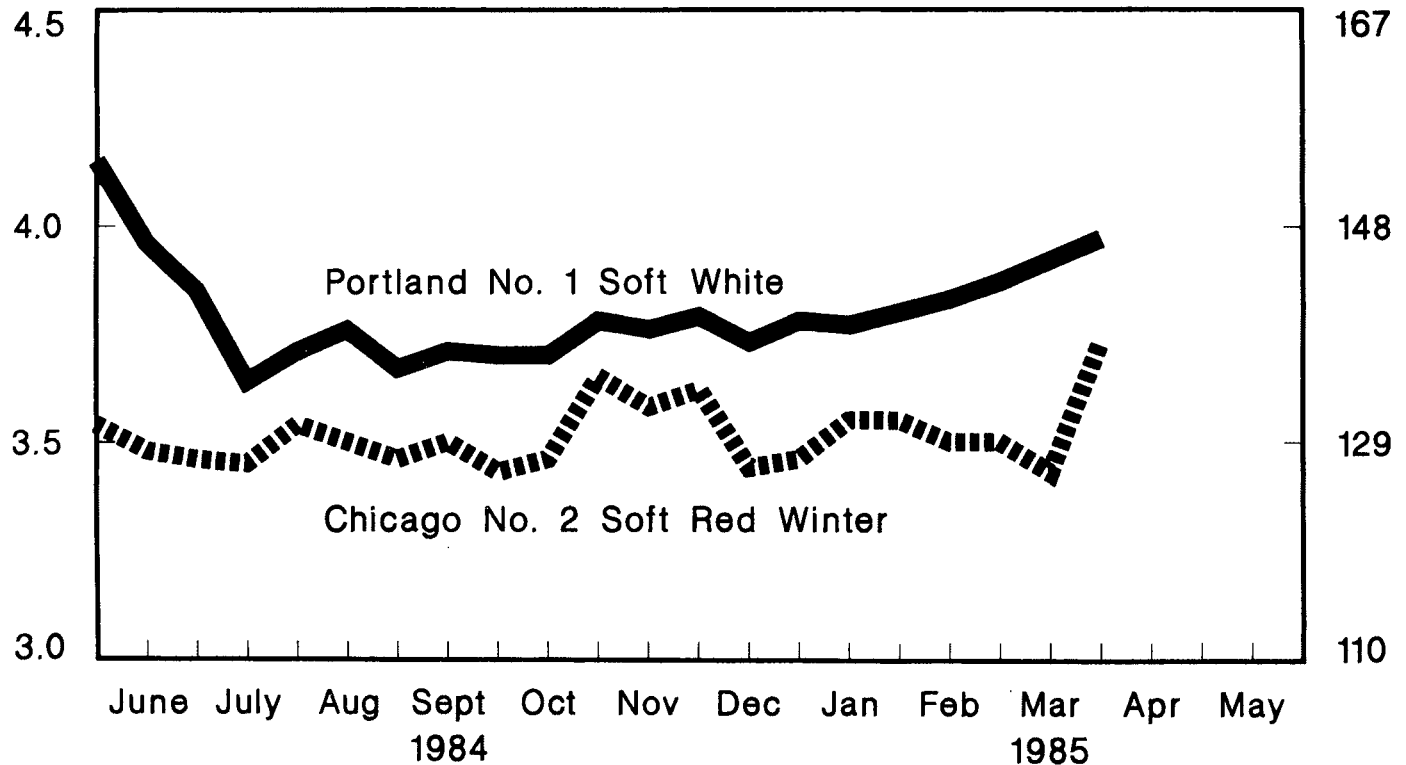


* Beginning and midmonth.

Soft Wheat Cash Prices, 1984/85*

Dollars per bushel

Dollars per metric ton



* Beginning and midmonth.

JUNE-SEPTEMBER WHEAT FEED USE

by

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Abstract: This article updates a model on wheat feed use ^{1/} that appeared in this publication in November 1983. The revised model predicts that 265 million bushels of wheat will be fed during June-September 1985, about 100 million bushels less than a year ago. This forecast assumes that cattle on feed and poultry numbers will be larger than those a year ago, thus favoring wheat feeding, but that wheat prices and supplies relative to corn will be less favorable for wheat feeding. The regression equation explains 97 percent of the variation in wheat fed.

Keywords: Wheat, wheat feed use, feed model, regression.

Most wheat is fed during the first period (June-September) of the wheat marketing year. During this period, wheat is most abundant, and corn and sorghum stocks are declining to their crop year low. Also, prices are seasonally low for wheat and high for corn and sorghum, especially in feed grain deficit areas.

Still, wheat feed use, as well as total feed use, is highly variable during this period. Total feed use goes up and down with changes in animal numbers. Wheat feed use varies because it can be substituted for other feed grains.

Nutritionally, wheat can be substituted for corn or sorghum on a pound-for-pound basis. Wheat is higher in protein than corn is, and at least as high in energy. Because the higher protein content is not accompanied by an increase in lysine, it is usually recommended that protein levels go a little high to meet the lysine needs. Barley and oats can also be used in the feed ration, but because of their high fiber content, they are considered to have less feeding value per pound than corn, sorghum, or wheat.

^{1/} Wheat feed data are derived as a residual estimate in the supply and disappearance balance sheet, so they are affected by errors in any of the other supply and use components. Thus, the terms wheat feed use or wheat feeding alternatively may be termed apparent feed use or feed and residual use.

Wheat is used as a feed in the Southern Plains, the Southeast, and parts of the Corn Belt. Usually it is fed to cattle and poultry, but it is increasingly being used in hog rations.

Wheat typically enters the ration whenever its price approaches that of corn or the supply of wheat dramatically increases compared with free stocks of corn.

This cyclical nature of wheat feeding was predominant between 1969 and 1982, when wheat feed use moved between zero and 186 million bushels. During this time, wheat prices varied between 102 and 158 percent of the price of corn, and the supply of wheat varied between 71 and 139 percent of corn.

Peaks in wheat feeding occurred during 1972, 1977, and 1981. These periods coincided with wheat/corn price ratios or supply ratios favorable to wheat feed use. Correspondingly, low periods of wheat feeding coincided with wheat/corn price or supply ratios unfavorable to wheat feeding.

From 1975 to 1983, total feed use of corn, sorghum, and wheat during June-September expanded as cattle on feed or poultry numbers increased. Wheat feed use relative to corn and sorghum feed use increased in all years except 1979 and 1980, when corn prices and supplies were conducive to corn feeding.

From 1982 to 1984, wheat feed use steadily grew by about 100 million bushels each succeeding June-September period.

Wheat feed use in 1984/85 has been at the highest level since World War II, when the amount of wheat fed approached 500 million bushels annually. The increase in wheat feeding in 1984/85 is partly because PIK and drought sharply reduced corn supplies and increased corn prices. In 1984, wheat supplies ballooned to 195 percent of free stocks of corn for June–September, and national wheat prices came within 7 percent of corn prices. On a regional level, prices and supplies were even more favorable to wheat feeding.

Feed Use Forecast for 1985

Wheat feed use during June–September 1985 is expected to drop by about 100 million bushels to around 265 million. This is based on the assumption that cattle on feed and poultry numbers will increase, but that the wheat/corn price and supply ratios will be less favorable for wheat feeding.

The regression equation and statistics are as follows:

$$\begin{aligned} \text{WFDP1} = & -163.076 - 3.358 \text{ PRICE} + .078 \text{ COF} \\ & (-8.80) \quad (10.35) \\ & + .961 \text{ SUPPLY} + .026 \text{ POULTRY} - 141.253 \text{ DV76} \\ & (4.39) \quad (2.06) \quad (-6.61) \\ R^2 = & .97 \quad \text{D.W.} = 2.46 \quad F = 65.00 \end{aligned}$$

where:

WFDP1 = Wheat fed in the first period of the wheat marketing year in million bushels.

PRICE = The national average farm price of wheat divided by the national average farm price of corn for June–September. The crop prices are unweighted averages of monthly prices.

COF = Cattle on feed on July 1 in seven Western States (Texas, Oklahoma, Colorado, Kansas, Nebraska, California, and Arizona), in thousand head.

SUPPLY = June 1 free stocks of wheat plus winter wheat production divided by June 1 free stocks of corn.

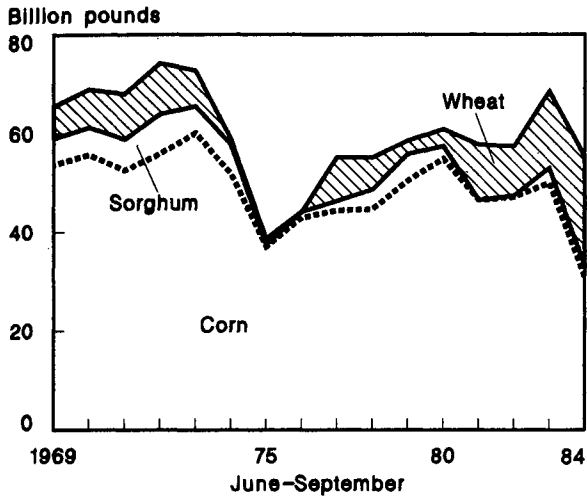
POULTRY = Average number of birds fed (all classes) during year, in millions.

DV76 = Dummy variable for 1976, when the wheat feeding residual was much lower than expected. This may have been the result of tight holding by wheat producers.

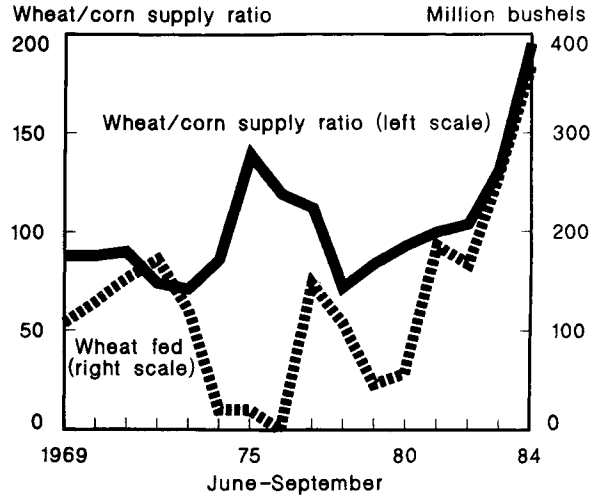
The coefficients of this updated model did not change to any great degree from those of the previous model. All of the variables remained statistically significant. The R^2 increased by 1 percentage point.

The regression suggests that a 10–percent increase in the wheat/corn price ratio, everything else held constant, drops feed use 32 percent, and that a 10–percent decrease in the wheat/corn supply ratio, everything else held constant, drops wheat feed use 8 percent.

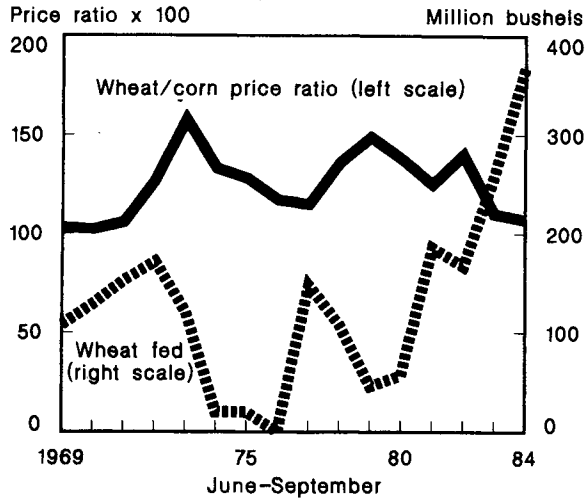
Wheat Feed Use Increases Relative to Corn and Sorghum



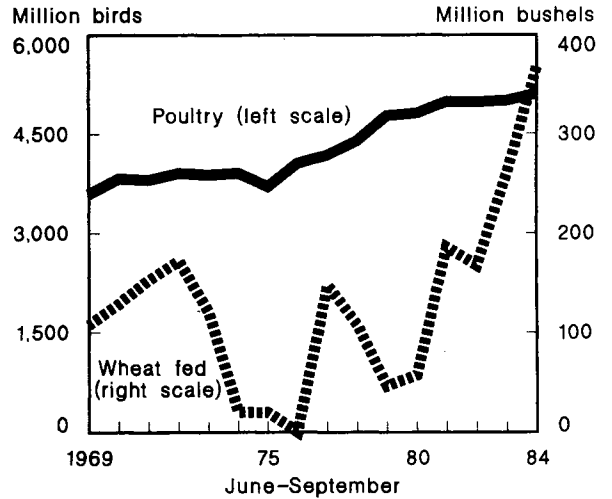
Increasing Supply of Wheat Relative to Corn Increases Wheat Feed Use



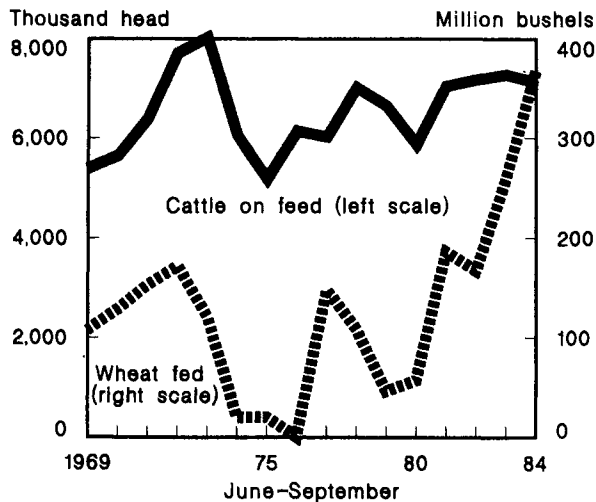
Wheat/Corn Price Ratio Moves Countercyclical to Wheat Feed Use



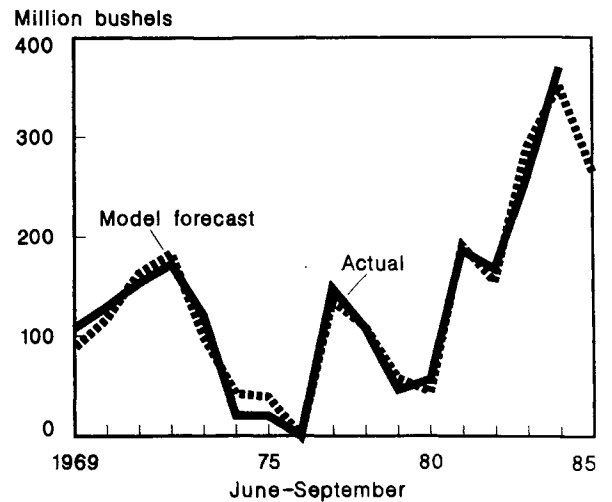
Poultry Expansion Helps Boost Wheat Feed Use



Cattle on Feed in 7 Western States (July 1) Account for Some Wheat Fed



Wheat Feed Use May Drop in 1985



U.S. SHARE OF THE WORLD WHEAT MARKET DECLINES 1/

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Abstract: The United States lost market share among commercial wheat customers and gained market share among food aid recipients in 1983. Argentina appears to have gained the most markets at U.S. expense, particularly in Asia and Eastern Europe. Canadian gains were modest across the globe and concentrated in Latin America and East Asia. France's gains were most pronounced in Europe and West Africa.

Keywords: Market share, wheat, imports, exports

Regional Highlights of U.S. Trade

The U.S. share of wheat imports in 10 of 15 regional markets declined between 1982 and 1983. 2/ In these years, the overall U.S. share declined from 42 to 38 percent of the world wheat market and U.S. wheat exports declined from 41.2 to 37.2 million metric tons.

U.S. wheat exports did not decline in all regional markets. As shown in table 1, the U.S. share increased in West Asia, East Africa, North Africa, South Asia, and the Pacific Islands. These regions all received U.S. food aid in 1983. In each of these regions, the volume of U.S. exports increased with the U.S. market share (table 2).

In two regions---Caribbean and South America---the volume of U.S. exports increased, even though the market share declined. South America was the second largest U.S. export market in 1983.

U.S. exports and market shares declined in the remaining regions, including: European

Community (6 percentage points), 3/ Other Western Europe (10 points), Eastern Europe and the USSR (3 points), Central America (34 points), West Africa (11 points), Southern Africa (7 points), East Asia (16 points), and Southeast Asia (2 points).

In East Asia and Central America, the change was significant. East Asia has consistently been the leading importer of U.S. wheat since 1980 and, in Central America, the United States maintained a market share exceeding 90 percent throughout the 1970's.

Changes in the Share of Top U.S. Competitors

Total world imports declined from 98.0 to 97.2 million metric tons between 1982 and 1983. World economic recession and debt problems of the developing countries contributed to this drop. As a result, the competition in world wheat markets was brisk during these years.

Argentina, Canada, and France increased their share of world wheat imports between 1982 and 1983 (table 3). Argentina's wheat exports increased the most rapidly--from 3.7 to 10.1 million metric tons--making it the world's fourth largest wheat exporter. Canada and France also posted modest increases. The United States, Canada, and France were the top three wheat exporters in 1983.

1/ The origin and destination statistics used to calculate tables 1, 2, and 3 were derived from United Nations and country trade statistics. In coming months, regional import tables for food and feed grains will be published in a series of IED statistical bulletins covering calendar years 1962 through 1983.

2/ Two regions of the world, Oceania and North America, imported no U.S. wheat during this period.

3/ The term "percentage points" describes changes in market shares. When a market share declines from 50 to 40 percent, it has changed 10 percentage points or 10 points.

By contrast, Australian exports declined from 12.6 to 7.7 million metric tons because of drought. As a consequence, its ranking among top wheat exporters fell from third to fifth by the end of 1983.

The top five exporters experienced large changes in market shares in Asian, African, and Latin American markets between 1982 and

1983. Canada and Argentina gained market shares worldwide. Canada's gains were concentrated in Central America, the Caribbean, and East Asia. Argentina's largest gains were in East Asia. France showed a large loss in East Africa, but it experienced important gains in Europe and West Africa. Australia lost its share in Eastern Europe, Africa, and Asia.

Table 1.--U.S. share of regional wheat markets, 1978-83

Region:	1978	1979	1980	1981	1982	1983
Percent of the total import market						
EC-10	21	24	23	23	21	15
Other Western Europe	55	47	69	62	65	55
Eastern Europe	33	49	20	20	22	19
USSR 1/	37	58	12	24	26	21
Central America	88	98	83	89	88	54
Caribbean	23	24	31	31	29	26
South America	76	56	59	84	78	74
North Africa	41	34	30	42	41	45
Southern Africa	18	7	40	54	23	16
East Africa	48	62	50	51	34	51
West Africa	62	64	71	71	75	64
West Asia	60	40	22	40	27	31
South Asia	67	49	70	53	54	64
East Asia	48	43	59	63	57	41
China (PRC) 1/	29	19	54	60	50	20
Japan 1/	59	56	59	60	60	58
Southeast Asia	38	44	49	54	62	60
Pacific	0	0	0	1	0	1
Share of World	45	43	41	46	42	38
Millions of metric tons						
Total Exports	33.3	32.7	36.0	42.4	41.2	37.2

Data are not official and do not necessarily agree with the U.S. Department of Agriculture or the Bureau of the Census.

1/ This country imported more than 5 percent of total world imports in the years cited.

Source: United Nations trade data supplemented by official country trade statistics.

Table 2.—U.S. exports to regional wheat markets, 1978-83

Region:	1978	1979	1980	1981	1982	1983
Thousands of metric tons						
EC-10	2,327	2,467	2,429	2,344	2,259	1,232
O.W. Europe	1,025	958	1,324	1,505	1,340	701
Eastern Europe	4,135	7,544	4,160	4,435	5,542	4,927
USSR 1/	3,311	5,372	1,807	3,828	5,161	4,595
Central America	839	1,544	1,102	1,438	795	514
Caribbean	259	307	462	488	461	484
South America	5,952	3,879	4,983	6,788	6,183	6,311
North Africa	3,150	2,534	2,637	3,409	3,412	4,116
Southern Africa	36	25	193	364	123	58
East Africa	246	264	302	306	229	341
West Africa	995	1,015	1,381	1,586	1,780	1,526
West Asia	2,558	2,010	1,076	2,413	1,887	2,454
South Asia	2,696	1,429	1,836	1,757	2,616	4,163
East Asia	7,921	7,424	12,296	13,663	12,516	8,262
China (PRC) 1/	2,278	1,604	6,368	7,618	6,486	2,235
Japan 1/	3,275	3,348	3,352	3,394	3,417	3,343
Southeast Asia	1,122	1,293	1,783	1,941	2,061	2,070
Pacific	0	0	0	1	0	1
Total Exports 2/	33,261	32,693	35,964	41,436	41,204	37,164

Data are not official and do not necessarily agree with the U.S. Department of Agriculture or the Bureau of the Census.

1/ This country imported more than 5 percent of total world imports in the years cited.

2/ Totals may not equal column sums due to rounding error.

Source: United Nations trade data supplemented by official country trade statistics.

Table 3.--Share of the top 4 U.S. competitors in regional wheat markets, 1982-83

Region:	Canada		France		Australia		Argentina	
	1982	1983	1982	1983	1982	1983	1982	1983
Percent of total import market								
North America	100	100	0	0	0	0	0	0
EC-10	23	24	37	40	0	0	0	1
O.W. Europe	8	19	5	12	0	0	0	1
Eastern Europe	31	30	11	17	8	4	11	20
USSR 1/	31	32	7	16	10	5	14	23
Central America	8	41	2	1	0	0	0	3
Caribbean	39	54	10	12	0	0	0	8
South America	17	18	1	1	0	0	5	7
North Africa	12	8	18	17	19	13	1	0
Southern Africa	4	10	38	36	29	19	0	0
East Africa	11	18	34	16	9	0	0	0
West Africa	2	6	20	27	0	0	0	0
West Asia	9	12	4	9	42	26	5	14
South Asia	10	13	5	3	24	11	0	3
East Asia	22	31	4	5	15	8	0	15
China (PRC) 1/	27	41	5	7	16	5	1	26
Japan 1/	23	26	0	0	17	17	0	0
Southeast Asia	1	8	2	6	33	23	0	7
Oceania	0	0	0	0	100	100	0	0
Pacific	0	0	0	0	100	99	0	0
Share of world	20	23	11	13	13	8	4	10
Millions of metric tons								
Total exports	19.7	22.0	11.1	12.6	12.6	7.7	3.7	10.1

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1/ This country imported more than 5 percent of total world imports in the years cited.

Source: United Nations trade data supplemented by official country trade statistics.

Table 1.—Wheat: Supply, disappearance, area, and prices, marketing years, 1979-86

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Item	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85 (Prel.)	1985/86 (Proj.)
Million acres							
Supply							
June 1 stocks,	924	902	989	1,159	1,515	1,399	1,387
production	2,134	2,381	2,785	2,765	2,420	2,595	2,525. ± 225
Imports 1/	2	3	3	8	4	8	5
Total supply	3,060	3,286	3,777	3,932	3,939	4,002	3,917. ± 225
Disappearance							
Food	596	610	602	616	635	645	650. ± 10
Seed	101	113	110	97	100	90	100. ± 5
Feed and residual	86	60	135	195	376	450	350. ± 100
Total domestic	783	783	847	908	1,111	1,185	1,100. ± 75
Exports 1/	1,375	1,514	1,771	1,509	1,429	1,430	1,200. ± 150
Total disappearance	2,158	2,297	2,618	2,417	2,540	2,615	2,300. ± 160
May 31, stocks	902	989	1,159	1,515	1,399	1,387	1,617. ± 175
Million acres							
Area							
Planted	71.4	80.8	88.3	86.2	76.4	79.2	74.2
Harvested	62.5	71.1	80.6	77.9	61.4	66.9	64.5
Set aside and diverted	8.2	--	--	5.8	29.8	18.5	20.8
National base acreage	--	--	--	90.7	90.9	94.0	93.9
Bushels per acre							
Yield/harvested acre	34.2	33.5	34.5	35.5	39.4	38.8	39.0
Dollars per bushel							
Prices							
Received by farmers	3.78	3.91	3.65	3.55	3.53	3.38	3.20 - 3.40
Loan rate	2.50	3.00	3.20	3.55	3.65	3.30	3.30
Target	3.40	3.08	3.81	4.05	4.30	4.38	4.38
Thousand dollars							
Value of production	8,078	9,309	10,167	9,816	10,476	9,077	

1/ Imports and exports include flour and other products expressed in wheat equivalent. 2/ Residual, approximates feed use and includes negligible quantities used for alcoholic beverages.

Wheat: Production--by Major States (*records)

State	1979	1980	1981	1982	1983	1984	1985
Million bushels							
Colorado	70.2	110.3	87.9	85.0	122.1*	115.3	
Kansas	410.4	420.0	302.5	458.5*	448.2	431.2	
Minnesota	90.4	102.6	140.0*	126.8	79.0	120.7	
Montana	116.5	119.8	172.8	180.3*	136.9	104.7	
Nebraska	86.7	108.3*	104.4	101.5	98.9	81.0	
N. Dakota	252.2	179.7	328.3*	324.8	194.1	284.2	
Oklahoma	216.6	195.0	172.8	227.7*	150.5	198.8	
S. Dakota	60.1	62.4	89.0	98.5	89.7	126.0*	
Texas	138.0	130.0	183.4*	144.0	161.0	150.0	
Washington	118.0	160.2	168.3	138.9	172.6*	160.3	

Table 2.--Wheat: Marketing year supply and disappearance, quarterly, 1980-85

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Year and periods beginning June 1	Supply				Disappearance				Ending Stocks				
	Beginning stocks	Production	Imports 1/	Total	Domestic use			Exports 1/	Total disappearance	Govt. owned	Privately owned 3/	Total	
					Food	Seed	Feed 2/						Total
Million bushels													
<u>1980/81</u>													
June-Sept.	902.0	2,380.9	0.8	3,283.7	197.2	38.0	56.6	291.8	518.4	810.2	201.1	2,272.4	2,473.5
Oct.-Dec.	2,473.5	---	0.6	2,474.1	167.1	43.0	-11.6	198.5	371.4	569.9	203.1	1,700.7	1,904.2
Jan.-Mar.	1,904.2	---	0.7	1,904.9	150.1	1.0	24.3	175.4	400.4	575.8	202.6	1,126.5	1,329.1
Apr.-May	1,329.1	---	0.4	1,329.5	96.1	31.0	-10.3	116.8	223.6	340.4	199.7	789.4	989.1
Mkt. year	902.0	2,380.9	2.5	3,285.4	610.5	113.0	59.0	782.5	1,513.8	2,296.3	199.7	789.4	989.1
<u>1981/82</u>													
June-Sept.	989.1	2,785.4	0.7	3,775.2	202.5	37.0	186.4	425.9	621.8	1,047.7	191.6	2,535.9	2,727.5
Oct.-Dec.	2,727.5	---	0.8	2,728.3	159.0	45.0	-75.2	128.8	427.4	556.2	190.6	1,981.5	2,172.1
Jan.-Mar.	2,172.1	---	0.8	2,172.9	151.7	1.0	27.6	180.3	441.0	621.3	189.1	1,362.1	1,551.2
Apr.-May	1,551.6	---	0.5	1,552.1	89.2	27.0	-4.0	112.2	280.5	392.7	190.3	969.1	1,159.4
Mkt. year	989.1	2,785.4	2.8	3,777.3	602.4	110.0	134.8	847.2	1,770.7	2,617.9	190.3	969.1	1,159.4
<u>1982/83</u>													
June-Sept.	1,159.4	2,765.0	1.2	3,925.6	206.4	37.0	167.1	410.5	545.6	956.1	190.6	2,778.9	2,969.5
Oct.-Dec.	2,969.5	---	3.0	2,972.5	161.8	40.0	-28.1	173.7	292.6	466.3	185.4	2,320.7	2,506.1
Jan.-Mar.	2,506.2	---	2.7	2,508.9	151.4	1.0	52.4	204.8	442.1	646.9	185.2	1,676.8	1,862.0
Apr.-May	1,862.0	---	0.7	1,862.7	96.8	19.0	3.5	119.3	228.3	347.6	192.0	1,323.1	1,515.1
Mkt. year	1,159.4	2,765.0	7.6	3,932.0	616.4	97.0	194.9	908.3	1,508.6	2,416.9	192.0	1,323.1	1,515.1
<u>1983/84</u>													
June-Sept.	1,515.1	2,419.8	1.2	3,936.1	210.1	37.0	258.5	505.6	475.3	980.9	157.5	2,797.7	2,955.2
Oct.-Dec.	2,955.2	---	0.9	2,956.1	160.7	41.0	65.4	267.1	362.6	629.7	165.6	2,160.8	2,326.4
Jan.-Mar.	2,326.4	---	1.1	2,327.5	163.0	1.0	41.0	205.0	364.4	569.4	167.1	1,591.0	1,758.1
Apr.-May	1,758.1	---	0.8	1,758.9	101.7	21.0	11.3	134.0	226.3	360.3	188.1	1,210.5	1,398.6
Mkt. year	1,515.1	2,419.8	4.0	3,938.9	635.5	100.0	376.2	1,111.7	1,428.6	2,540.3	188.1	1,210.5	1,398.6
<u>1984/85</u>													
June-Sept.	1,398.6	2,595.5	4.7	3,998.8	212.9	32.0	369.2	614.1	644.7	1,258.8	325.2	2,414.8	2,740.0
Oct.-Dec.	2,740.0	---	1.7	2,741.7	166.8	37.0	22.3	226.1	374.3	600.4	371.8	1,769.5	2,141.3
Jan.-Mar.	2,141.3	---	1.2	2,142.5	165.0	1.0	42.8	208.8	266.1	474.9	386.1	1,281.5	1,667.6
Apr.-May													
Mkt. year													

1/ Imports and exports include flour and other products expressed in wheat equivalent. 2/ Residual; approximates feed use and includes negligible quantities used for distilled spirits. 3/ Includes outstanding and reserve loans. *Totals may not add due to rounding.

Table 3--Wheat classes: Marketing year supply and disappearance 1980-85 1/

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Year beginning June 1	Supply			Disappearance			Ending stocks May 31
	Beginning stocks	Pro- duction	Total 2/	Domestic use	Exports	Total	
<u>Million bushels</u>							
<u>1980/81</u>							
Hard Winter	440	1,181	1,621	379	701	1,080	541
Hard Spring	285	312	598	153	188	341	257
Soft Red	40	442	482	145	299	444	38
White	76	338	414	54	267	321	93
Durum	61	108	171	52	59	111	60
All classes	902	2,381	3,286	783	1,514	2,297	989
<u>1981/82</u>							
Hard Winter	541	1,112	1,653	361	754	1,115	538
Hard Spring	257	464	722	171	205	376	346
Soft Red	38	678	716	196	460	656	60
White	93	348	441	62	270	332	109
Durum	60	183	245	57	82	139	106
All classes	989	2,785	3,777	847	1,771	2,618	1,159
<u>1982/83</u>							
Hard Winter	538	1,243	1,781	348	679	1,027	754
Hard Spring	346	492	842	195	239	434	408
Soft Red	60	590	650	251	325	576	74
White	109	294	403	53	207	260	143
Durum	106	146	256	61	59	120	136
All classes	1,159	2,765	3,932	908	1,509	2,417	1,515
<u>1983/84</u>							
Hard Winter	754	1,198	1,952	503	704	1,207	745
Hard Spring	408	323	732	197	221	418	314
Soft Red	74	504	578	282	222	504	74
White	143	322	465	78	220	298	167
Durum	136	73	212	51	62	113	99
All classes	1,515	2,420	3,939	1,111	1,429	2,540	1,399
<u>1984/85 3/</u>							
Hard Winter	745	1,251	1,996	565	755	1,320	676
Hard Spring	314	409	725	198	180	378	347
Soft Red	74	532	606	281	245	526	80
White	167	300	470	90	195	285	185
Durum	99	103	205	51	55	106	99
All classes	1,399	2,595	4,002	1,185	1,430	2,615	1,387

1/ Data, except production, are approximations. Imports and exports include flour and products in wheat equivalent. 2/ Total supply includes imports. 3/ Projected.

Table 4--Wheat: Price support loan status on specified dates, 1980-85 crops

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Crop year	Total stocks	Total CCC inventory	Outstanding CCC loans	Farmer-owned reserve	Free stocks
<u>Million bushels</u>					
1980/81					
Jun. 1	902.0	1/ 187.8	99.3	2/ 259.9	355.0
Oct. 1	2,473.5	1/ 201.1	121.9	2/ 214.4	1,936.1
Jan. 1	1,904.2	203.5	138.2	2/ 229.1	1,333.4
Apr. 1	1,329.1	202.6	96.8	2/ 353.2	676.5
1981/82					
Jun. 1	989.1	199.7	54.6	359.6	375.2
Oct. 1	2,727.5	191.6	191.8	431.1	1,913.0
Jan. 1 3/	2,172.1	190.6	201.3	475.4	1,304.8
Apr. 1	1,551.6	189.1	162.1	534.6	665.8
1982/83					
Jun. 1	1,159.4	190.3	112.0	560.4	296.7
Oct. 1	2,969.5	190.6	97.2	868.9	1,812.8
Jan. 1	2,506.2	185.4	102.7	1,018.0	1,200.3
Apr. 1	1,862.0	185.2	81.7	1,095.0	500.1
1983/84					
Jun. 1	1,515.1	192.0	65.2	1,060.6	197.3
Oct. 1	2,955.2	157.5	310.4	815.4	1,671.9
Jan. 1	2,326.4	165.6	404.2	702.6	1,054.0
Apr. 1	1,758.1	167.1	459.4	587.7	543.9
1984/85					
Jun. 1	1,398.6	188.0	379.1	611.2	220.3
Oct. 1	2,740.0	325.2	278.5	659.1	1,477.2
Jan. 1	2,141.3	371.8	229.8	680.5	859.2
Apr. 1	1,667.6	386.1	213.3	662.6	405.6
1985/86					
Jun. 1					
Oct. 1					
Jan. 1					
Apr. 1					

1/ Fiscal inventory figures were adjusted to reflect purchases being made during this period. 2/ Reserve data as reported by telephone survey. 3/ FOR and loan data based on telephone survey.

Table 5--Wheat: Marketing year supply and disappearance, 1960-85*

Year beginning June 1	Supply				Disappearance						Ending stocks May 31		
	Begin- ning stocks	Produc- tion	Imports 1/	Total	Domestic Use				Exports 1/	Total disap- pearance	Govt. owned	Pri- vately owned 3/	Total
					Food	Seed	Feed 2/	Total					
Million bushels													
1960/61	1,384.2	1,354.7	8.1	2,747.0	496.5	64.2	30.4	591.0	653.5	1,244.5	1,224.6	277.8	1,502.4
1961/62	1,502.4	1,232.4	5.9	2,740.7	504.1	56.4	44.0	604.4	715.7	1,320.1	1,074.4	346.2	1,420.6
1962/63	1,420.6	1,092.0	5.3	2,517.9	502.6	61.4	34.7	598.8	649.4	1,248.2	1,101.8	167.9	1,269.7
1963/64	1,269.7	1,146.8	4.0	2,420.6	488.0	65.0	28.5	581.5	845.6	1,427.1	799.8	193.7	993.5
1964/65	993.5	1,283.4	1.8	2,278.7	514.4	65.6	54.9	634.9	722.7	1,357.6	634.8	286.3	921.1
1965/66	921.1	1,315.6	0.9	2,237.6	517.9	61.5	146.0	725.4	851.8	1,577.1	299.2	361.3	660.5
1966/67	660.5	1,304.9	1.8	1,967.2	505.1	77.4	100.6	683.1	771.3	1,454.4	122.0	390.8	512.8
1967/68	512.8	1,507.6	0.9	2,021.3	517.9	71.3	36.6	625.8	765.3	1,391.1	100.1	530.1	630.2
1968/69	630.2	1,556.6	1.1	2,187.9	522.4	60.9	156.3	739.7	544.2	1,283.9	139.5	764.5	904.0
1969/70	904.0	1,442.7	2.8	2,349.5	520.1	55.6	188.2	763.9	603.0	1,366.9	277.2	705.4	982.6
1970/71	982.6	1,351.6	1.4	2,335.6	517.2	62.1	192.8	772.0	740.8	1,512.8	352.6	470.2	822.8
1971/72	822.8	1,618.6	1.1	2,442.5	523.7	63.2	262.4	849.3	609.8	1,459.1	355.1	628.3	983.4
1972/73	983.4	1,546.2	1.3	2,530.9	531.8	67.4	199.8	798.8	1,135.0	1,933.8	6.3	590.8	597.1
1973/74	597.1	1,710.8	2.6	2,310.5	544.3	84.1	125.1	753.5	1,217.0	1,970.5	0.6	339.5	340.1
1974/75	340.1	1,781.9	3.4	2,125.4	545.0	92.0	34.9	671.9	1,018.5	1,690.4	--	435.0	435.0
1975/76	435.0	2,126.9	2.4	2,564.3	588.6	99.0	38.2	725.8	1,172.9	1,898.7	--	665.6	665.6
1976/77	665.6	2,148.8	2.7	2,817.1	588.0	92.0	74.4	754.4	949.5	1,703.9	--	1,113.2	1,113.2
1977/78	1,113.2	2,045.5	1.9	2,160.7	586.5	80.0	192.5	859.0	1,123.9	1,982.9	48.3	1,129.5	1,177.8
1978/79	1,177.8	1,775.5	1.9	2,955.2	592.4	87.0	157.6	837.0	1,194.1	2,031.1	51.1	873.0	924.1
1979/80	924.1	2,134.1	2.1	3,060.3	596.1	101.0	86.0	783.1	1,375.2	2,158.3	187.8	714.2	902.0
1980/81	902.0	2,380.9	2.5	3,285.4	610.5	113.0	59.0	782.5	1,513.8	2,296.3	199.7	789.4	989.1
1981/82	989.1	2,785.4	2.8	3,777.3	602.4	110.0	134.8	847.2	1,770.7	2,617.9	190.3	696.1	1,159.4
1982/83	1,159.4	2,765.0	7.6	3,932.0	616.4	97.0	194.9	908.3	1,508.6	2,416.9	192.0	1,323.1	1,515.1
1983/84	1,515.1	2,419.8	4.0	3,938.9	635.5	100.0	376.2	1,111.7	1,428.6	2,540.3	188.1	1,210.5	1,398.6
1984/85	1,398.6	2,595.5	8.0	4,002.1	645.0	90.0	450.1	1,185.1	1,430.0	2,615.1	400.0	987.0	1,387.0
1985/86	4/1,387.0												

1/ Imports and exports include flour and other products expressed in wheat equivalent. 2/ Residual; approximates feed use and includes negligible quantities used for distilled spirits. 3/ Includes outstanding and reserve loans. 4/ Projections.

* Totals may not add due to rounding.

Table 6--Exports: Wheat, flour, and wheat products, United States by months, 1980-85*

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Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Total
1,000 bushels													
Wheat (Grain only)													
1980/81	96,193	123,598	141,415	137,325	116,948	112,199	132,048	129,981	124,397	128,770	127,652	78,030	1,448,558
1981/82	124,521	138,168	145,428	194,148	156,993	127,495	137,757	124,163	138,719	138,719	159,078	148,181	1,711,147
1982/83	156,914	117,914	124,336	130,992	98,520	94,638	88,457	143,141	146,594	131,134	112,451	96,235	1,441,326
1983/84	113,506	116,701	87,823	119,263	114,810	102,880	128,887	118,357	111,096	118,713	97,132	112,813	1,341,981
1984/85	105,356	133,276	146,187	242,694	137,290	97,283	131,941	106,430	85,493	57,924			
1985/86													
Flour (Grain equivalent) 1/													
1980/81	4,230	2,082	5,057	3,774	2,785	2,165	1,739	2,658	5,217	6,353	7,347	4,803	48,209
1981/82	5,794	2,779	3,438	2,496	668	411	902	1,767	8,068	5,775	6,955	5,983	45,036
1982/83	4,577	1,364	3,488	2,508	3,904	2,483	999	3,998	8,865	6,532	10,530	7,521	56,769
1983/84	9,611	8,198	7,849	8,801	8,473	3,504	1,245	2,301	3,337	7,438	7,311	8,149	76,217
1984/85	6,828	4,136	1,288	1,693	3,260	1,778	948	403	6,422	5,778			
1985/86													
Wheat products (Grain equivalent) 2/													
1980/81	912	1,222	711	1,849	1,284	1,005	1,230	890	1,010	1,114	672	1,406	13,306
1981/82	1,827	1,150	1,009	1,037	1,171	1,406	572	1,211	1,875	351	2,246	692	14,547
1982/83	971	465	1,073	984	529	2,604	472	796	492	586	630	935	10,537
1983/84	633	1,075	1,300	578	502	904	1,346	600	1,789	780	363	503	10,373
1984/85	881	670	587	1,076	429	497	824	1,831	935	916			
1985/86													
Total wheat, flour and products													
1980/81	101,335	126,902	147,183	142,949	121,017	115,369	135,017	133,529	130,624	136,238	135,671	84,239	1,510,073
1981/82	132,142	142,097	149,892	197,681	159,832	129,312	139,231	127,141	148,662	165,204	157,382	123,171	1,770,730
1982/83	162,462	119,743	128,897	134,485	102,952	99,726	89,928	147,935	155,950	138,252	123,611	104,691	1,508,632
1983/84	123,750	125,974	96,972	128,642	123,785	107,288	131,478	121,258	116,222	126,931	104,806	121,465	1,428,571
1984/85	113,065	138,082	148,062	245,463	140,979	99,558	133,713	108,664	92,851	64,618			
1985/86													

1/Includes meal and groats and durum. 2/Includes macaroni, rolled wheat and bulgar. *Totals may not add due to independent rounding.

Source: Bureau of the Census.

Table 7--Wheat Flour: Supply and disappearance, United States, 1960-84

Calendar year	Wheat ground	Millfeed production	Flour production 1/	Flour and product imports 2/	Total supply	Exports		Domestic disappearance	Total population July 1	Per capita disappearance
						Flour	Products 2/			
	1,000 bu.	1,000 tons			--- 1,000 cwt. ---				Millions	Pounds
1960	582,719	4,827	255,596	141	255,737	42,135	58	213,544	180.7	118
1961	591,999	4,858	260,709	131	260,840	43,528	42	217,270	183.7	118
1962	595,353	4,876	262,403	132	262,535	47,719	22	214,794	186.5	115
1963	589,245	4,794	260,291	136	260,427	44,498	19	215,910	189.2	114
1964	591,654	2,890	261,905	142	262,047	42,328	26	219,693	191.8	115
1965	564,724	4,645	250,591	145	250,736	30,597	194	219,945	194.2	113
1966	568,673	4,619	253,176	179	253,355	33,091	178	220,086	196.5	112
1967	549,801	4,423	245,390	222	245,612	21,056	16	224,540	198.6	113
1968	569,649	4,511	254,310	233	254,543	28,068	133	226,342	200.6	113
1969	567,956	4,458	254,194	274	254,468	26,333	158	227,977	202.6	113
1970	563,714	4,409	253,094	325	253,419	26,054	14	227,351	205.1	111
1971	555,092	4,279	249,810	341	250,151	20,685	15	229,451	207.7	110
1972	557,801	4,303	250,441	477	250,918	20,335	19	230,564	209.9	110
1973	567,287	4,395	254,661	550	255,211	16,107	26	239,078	211.9	113
1974	562,962	4,483	251,097	665	251,762	14,453	33	237,276	213.9	111
1975	582,675	4,701	258,985	621	259,606	12,364	22	247,220	216.0	114
1976	618,284	4,920	275,077	604	275,681	16,064	44	259,573	218.0	119
1977	618,125	4,787	275,784	604	276,388	22,053	37	254,298	220.2	115
1978	621,321	4,860	277,950	773	278,723	22,170	43	256,510	222.6	115
1979	636,375	4,945	284,051	823	284,874	20,927	86	263,861	225.1	117
1980	628,559	4,866	282,655	904	283,559	17,378	54	266,127	227.7	117
1981	634,381	5,045	283,966	1,166	285,132	18,655	84	266,393	229.8	116
1982	667,841	5,573	297,288	1,496	298,784	20,926	154	277,704	232.1	119
1983	686,983	5,563	306,066	1,109	307,175	34,969	150	272,056	234.3	116
1984	674,665	5,420	299,476	1,179	300,655	21,752	160	278,743	236.7	118

1/ Commercial production of wheat flour, whole wheat, industrial and durum flour and farina reported by Bureau of Census. Production prior to 1970 includes estimate for non-commercial wheat milled. 2/ Imports and exports of macaroni products (flour equivalent).

Table 8.--Wheat and flour: Price relationships at milling centers, annual and by periods, 1980-85

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Year and period	At Kansas City					At Minneapolis				
	Cost of wheat to produce 100 lb. of flour 1/	Wholesale price of			Cost of wheat to produce 100 lb. of flour 1/	Wholesale price of				
		Bakery flour per 100 lb. 2/	Byproducts obtained 100 lb. flour 3/	Total products Actual Over cost of wheat		Bakery flour per 100 lb. 2/	Byproducts obtained 100 lb. flour 3/	Total products Actual Over cost of wheat		
<u>Dollars</u>										
<u>1980/81</u>										
June-Sept.	9.81	10.11	1.81	11.92	2.11	10.46	10.83	1.63	12.46	2.00
Oct.-Dec.	10.80	10.54	2.38	12.92	2.12	11.29	11.04	2.05	13.09	1.80
Jan.-Mar.	10.31	10.44	1.95	12.39	2.08	10.98	11.05	1.67	12.72	1.74
Apr.-May	10.27	10.42	1.81	12.23	1.96	11.08	11.09	1.76	12.85	1.77
Mkt. year	10.30	10.38	1.99	12.37	2.07	10.95	11.00	1.78	12.78	1.83
<u>1981/82</u>										
June-Sept.	9.69	10.33	1.55	11.88	2.19	10.08	10.82	1.49	12.31	2.23
Oct.-Dec.	9.93	10.13	1.79	11.92	1.99	9.84	10.52	1.43	11.95	2.11
Jan.-Mar.	9.85	10.66	1.41	12.07	2.22	9.63	10.82	1.23	12.05	2.42
Apr.-May	9.76	10.38	1.52	11.90	2.14	9.64	10.54	1.48	12.02	2.38
Mkt. year	9.81	10.37	1.57	11.94	2.13	9.80	10.67	1.41	12.08	2.28
<u>1982/83</u>										
June-Sept.	9.24	10.14	1.39	11.53	2.29	9.31	10.43	1.25	11.68	2.37
Oct.-Dec.	9.22	10.06	1.58	11.64	2.42	9.22	10.43	1.29	11.72	2.50
Jan.-Mar.	9.60	10.40	1.47	11.87	2.27	9.15	10.41	1.10	11.51	2.36
Apr.-May	9.77	10.26	1.65	11.91	2.14	10.11	10.88	1.40	12.28	2.17
Mkt. year	9.46	10.22	1.52	11.74	2.28	9.45	10.54	1.26	11.80	2.35
<u>1983/84</u>										
June-Sept.	9.54	10.36	1.72	12.08	2.54	9.97	11.17	1.47	12.64	2.67
Oct.-Dec.	9.48	10.00	2.16	12.16	2.68	9.76	10.79	1.90	12.69	2.93
Jan.-Mar.	9.22	9.52	1.83	11.35	2.13	9.56	10.28	1.49	11.77	2.21
Apr.-May	9.57	10.06	1.62	11.17	2.11	10.08	10.74	1.49	12.23	2.15
Mkt. year	9.45	9.99	1.83	11.69	2.37	9.84	10.75	1.59	12.33	2.49
<u>1984/85 4/</u>										
June-Sept.	9.21	9.78	1.47	11.26	2.05	9.64	10.31	1.21	11.52	1.89
Oct.-Dec.	9.05	9.82	1.47	11.29	2.24	9.16	10.52	1.11	11.63	2.46
Jan.-Mar.	8.77	9.89	1.16	11.05	2.28	9.09	11.27	.83	12.10	3.01
Apr.-May										
Mkt. year										

1/ Based on 73-percent extraction rate, cost of 2.28 bushels: At Kansas City, No. 1 Hard Winter, 13-percent protein; and at Minneapolis, simple average of No. 1 Dark Northern Spring, 13- and 15-percent protein. 2/ Quoted as 95-percent patent at Kansas City and standard patent at Minneapolis, bulk basis. 3/ Assumed 50-50 millfeed distribution between bran and shorts or middlings, bulk basis. 4/ Preliminary.

Source: Compiled from reports of Agricultural Marketing Service and Department of Labor.

Table 9--Wheat: Farm price for leading classes and major feed grains in region, 1980-85 1/

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Commodity and year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Average	Loan rate		
All prices for 60 pounds																
Central and So. Plains (Hard Winter) 2/																
Wheat:																
1980/81	3.49	3.63	3.75	3.86	4.10	4.19	4.01	4.08	3.99	3.83	3.88	3.75	3.88	2.94		
1981/82	3.77	3.72	3.68	3.69	3.76	3.87	3.82	3.78	3.74	3.71	3.72	3.66	3.74	3.13		
1982/83	3.49	3.37	3.34	3.38	3.36	3.43	3.49	3.51	3.51	3.60	3.71	3.68	3.50	3.47		
1983/84	3.49	3.34	3.54	3.59	3.56	3.49	3.45	3.48	3.41	3.48	3.62	3.63	3.51	3.56		
1984/85	3.46	3.30	3.41	3.45	3.43	3.41	3.35	3.34	3.34	3.34				3.23		
Sorghum:																
1980/81	2.58	2.94	3.06	3.18	3.31	3.33	3.34	3.33	3.28	3.14	3.18	3.12	3.15	2.27		
1981/82	3.03	2.96	2.65	2.37	2.34	2.36	2.39	2.44	2.42	2.43	2.47	2.61	2.54	2.42		
1982/83	2.60	2.57	2.49	2.44	2.26	2.34	2.41	2.48	2.68	2.84	2.96	3.02	2.59	2.57		
1983/84	3.10	3.04	3.14	3.14	3.02	3.02	2.97	2.96	2.85	2.92	3.02	3.09	3.02	2.68		
1984/85	3.03	2.93	2.81	2.57	2.49	2.49	2.49	2.51	2.60	2.57				3.32		
Cornbelt (Soft Red Winter) 3/																
Wheat:																
1980/81	3.58	3.82	4.02	4.19	4.41	4.59	4.50	4.50	4.28	4.03	4.00	3.59	4.13	3.00		
1981/82	3.35	3.46	3.36	3.45	3.56	3.68	3.70	3.71	3.40	3.36	3.42	3.23	3.47	3.20		
1982/83	3.18	3.08	2.98	2.89	2.75	3.02	3.13	3.18	3.20	3.30	3.29	3.30	3.11	3.56		
1983/84	3.25	3.25	3.54	3.49	3.36	3.33	3.43	3.46	3.22	3.38	3.54	3.44	3.39	3.66		
1984/85	3.26	3.22	3.28	3.29	3.29	3.40	3.42	3.44	3.39	3.42				3.32		
Corn:																
1980/81	2.76	3.06	3.28	3.36	3.28	3.46	3.53	3.54	3.58	3.58	3.57	3.56	3.38	2.46		
1981/82	3.47	3.44	3.11	2.76	2.64	2.52	2.54	2.74	2.63	2.66	2.77	2.86	2.85	2.62		
1982/83	2.82	2.76	2.57	2.30	2.09	2.29	2.48	2.57	2.77	2.96	3.25	3.34	2.68	2.78		
1983/84	3.39	3.43	3.81	3.68	3.46	3.54	3.52	3.48	3.45	3.56	3.74	3.75	3.57	2.87		
1984/85	3.80	3.66	3.50	3.17	2.83	2.76	2.76	2.84	2.85	2.91				2.76		
Northern Plains (Spring and Durum) 4/																
Other spring																
1980/81	3.82	4.04	3.95	3.96	4.15	4.24	4.18	4.23	4.19	4.15	4.25	4.24	4.12	3.02		
1981/82	4.12	3.93	3.70	3.62	3.66	3.74	3.63	3.69	3.67	3.61	3.73	3.69	3.73	3.21		
1982/83	3.62	3.59	3.46	3.45	3.44	3.51	3.47	3.45	3.41	3.59	3.79	3.84	3.56	3.57		
1983/84	3.81	3.80	3.78	3.69	3.68	3.66	3.59	3.62	3.59	3.68	3.78	3.87	3.71	3.68		
1984/85	3.86	3.69	3.48	3.48	3.47	3.46	3.41	3.45	3.46	3.49				3.34		
Durum:																
1980/81				N	O	T	A	V	A	I	L	A	B	L	E	3.02
1981/82	4.52	3.91	3.52	3.41	3.51	3.55	3.47	3.60	3.67	3.52	3.54	3.52	3.64	3.21		
1982/83	3.50	3.36	3.10	3.09	3.19	3.25	3.16	3.40	3.22	3.47	3.82	3.99	3.38	3.57		
1983/84	4.01	3.96	4.11	4.07	4.04	3.97	3.83	3.84	3.67	3.88	3.91	3.57	3.91	3.68		
1984/85	3.98	3.73	3.84	3.78	3.75	3.77	3.69	3.62	3.61	3.55				3.34		
Pacific Northwest (White) 5/																
Wheat:																
1980/81	3.53	3.71	3.67	3.80	4.03	4.12	4.08	4.05	4.05	4.11	4.02	4.08	3.94	3.08		
1981/82	3.97	3.69	3.78	3.80	3.94	3.96	3.98	3.91	3.75	3.68	3.72	3.71	3.82	3.29		
1982/83	3.71	3.62	3.74	3.76	3.86	3.91	3.98	4.07	4.15	4.18	4.13	4.04	3.93	3.65		
1983/84	3.78	3.61	3.68	3.70	3.62	3.59	3.51	3.49	3.31	3.48	3.57	3.64	3.58	3.75		
1984/85	3.71	3.26	3.31	3.30	3.38	3.38	3.35	3.44	3.45	3.53				3.43		
Barley:																
1980/81	3.16	3.34	3.32	3.35	3.70	3.80	3.99	4.07	4.15	4.07	3.95	3.99	3.74	2.40		
1981/82	3.72	3.39	3.19	3.10	3.08	3.34	3.20	3.24	3.21	3.39	3.41	3.45	3.31	2.55		
1982/83	3.25	3.02	3.11	2.73	2.58	2.70	2.94	2.83	2.88	2.82	3.01	3.10	2.91	2.71		
1983/84	3.06	2.97	3.20	3.34	3.35	3.40	3.47	3.45	3.36	3.39	3.58	3.41	3.33	2.81		
1984/85	3.53	3.15	3.01	2.96	2.91	2.98	3.02	2.99	2.99	2.99				2.74		
U.S. average																
Wheat:																
1980/81	3.69	3.81	3.94	3.99	4.19	4.32	4.22	4.21	4.17	4.09	4.07	3.95	6/ 3.91	3.00		
1981/82	3.70	3.62	3.62	3.65	3.77	3.85	3.80	3.78	3.70	3.67	3.68	3.64	6/3.65	3.20		
1982/83	3.39	3.26	3.34	3.38	3.43	3.48	3.51	3.57	3.57	3.66	3.75	3.75	6/3.55	3.55		
1983/84	3.50	3.34	3.61	3.65	3.61	3.54	3.48	3.50	3.40	3.49	3.63	3.66	6/3.53	3.65		
1984/85	3.46	3.28	3.43	3.43	3.43	3.45	3.38	3.38	3.38	3.38				3.30		

1/ To adjust price to relative feed value multiply: corn 1.00; wheat 1.05; barley .90; sorghum .95; reported in *Consumption of Feed by Livestock*, Report No. 79, ERS, USDA. 2/ Kansas, Nebraska, Texas, Oklahoma, and Colorado. 3/ Ohio, Indiana, Illinois, and Missouri. 4/ North Dakota, South Dakota, and Minnesota. 5/ Washington, Oregon, and Idaho. 6/ Season average price includes allowance for unredeemed loans and purchases.

Table 10--Wheat: Cash prices for leading classes at major markets, 1980-85

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Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Simple average
<u>Dollars per bushel</u>													
KANSAS CITY, NO. 1 HARD RED WINTER (ORDINARY PROTEIN)													
1980/81	4.07	4.21	4.31	4.45	4.70	4.89	4.54	4.60	4.47	4.35	4.48	4.36	4.45
1981/82	4.24	4.25	4.14	4.19	4.31	4.46	4.35	4.33	4.26	4.25	4.28	4.22	4.27
1982/83	4.06	3.74	3.70	3.75	3.61	3.86	3.98	4.00	4.08	4.18	4.21	4.05	3.94
1983/84	3.92	3.71	3.88	3.90	3.84	3.82	3.85	3.81	3.71	3.85	3.93	3.89	3.84
1984/85	3.80	3.67	3.80	3.89	3.86	3.85	3.76	3.76	3.74	3.67	3.62		
13% PROTEIN													
1980/81	4.12	4.25	4.34	4.49	4.70	4.91	4.60	4.67	4.50	4.40	4.57	4.44	4.50
1981/82	4.36	4.26	4.16	4.22	4.29	4.44	4.33	4.35	4.32	4.29	4.32	4.24	4.30
1982/83	4.15	4.12	4.00	3.94	3.80	4.09	4.24	4.19	4.17	4.27	4.35	4.22	4.13
1983/84	4.22	4.15	4.16	4.21	4.20	4.17	4.11	4.06	3.95	4.12	4.22	4.17	4.15
1984/85	4.15	3.99	3.98	4.03	4.01	3.99	3.91	3.87	3.87	3.80	3.84		
CHICAGO, NO. 2 SOFT RED WINTER													
1980/81	3.96	4.17	4.21	4.38	4.70	4.92	4.54	4.57	4.34	4.15	4.18	3.80	4.33
1981/82	3.60	3.70	3.70	3.87	3.97	4.08	3.86	3.77	3.57	3.59	3.70	3.43	3.74
1982/83	3.31	3.36	3.35	3.18	2.98	3.33	3.23	3.32	3.40	3.36	3.51	3.55	3.32
1983/84	3.53	3.59	3.71	3.62	3.56	3.42	3.55	3.47	3.34	3.57	3.65	3.65	3.56
1984/85	3.51	3.44	3.49	3.47	3.51	3.62	3.49	3.51	3.55	3.58	3.63		
ST. LOUIS, NO. 2 SOFT RED WINTER													
1980/81	3.73	4.10	4.19	4.42	4.78	4.96	4.78	4.80	4.57	4.32	4.36	3.67	4.39
1981/82	3.41	3.54	3.56	3.67	3.74	4.05	3.90	3.76	3.60	3.61	3.72	3.31	3.66
1982/83	3.25	3.27	3.14	3.06	3.06	3.38	3.28	3.33	3.41	3.43	3.58	3.61	3.32
1983/84	3.46	3.51	3.79	3.70	3.62	3.58	3.67	3.62	3.46	3.71	3.82	3.51	3.62
1984/85	3.45	3.44	3.50	3.52	3.60	3.72	3.67	3.69	3.65	3.67	3.65		
TOLEDO, NO. 2 SOFT RED WINTER													
1980/81	3.84	4.14	4.16	4.38	4.82	5.02	4.65	4.70	4.47	4.16	4.16	3.76	4.36
1981/82	3.55	3.63	3.71	3.83	3.98	4.08	3.85	3.71	3.47	3.46	3.63	3.45	3.70
1982/83	3.35	3.36	3.28	3.09	2.84	3.19	3.23	3.28	3.32	3.29	3.45	3.47	3.26
1983/84	3.42	3.48	3.69	3.54	3.43	3.37	3.46	3.43	3.26	3.50	3.61	3.60	3.48
1984/85	3.50	3.44	3.44	3.44	3.43	3.53	3.43	3.52	3.56	3.54	3.58		
TOLEDO, NO. 2 SOFT WHITE													
1980/81	3.71	4.05	4.15	4.31	---	---	4.44	4.40	4.21	3.98	3.99	3.62	4.08
1981/82	3.43	3.62	3.77	3.91	3.99	4.10	3.82	3.68	3.49	3.47	3.61	3.45	3.70
1982/83	3.35	3.49	3.42	3.22	2.92	3.22	3.29	3.25	3.39	3.43	3.49	3.48	3.33
1983/84	3.42	3.51	3.71	3.56	3.42	3.36	3.46	3.43	3.25	3.50	3.62	3.49	3.48
1984/85	3.35	3.37	3.42	3.42	3.41	3.51	3.41	3.50	3.53	3.48	3.48		
PORTLAND, NO. 1 SOFT WHITE													
1980/81	3.92	4.15	4.06	4.23	4.48	4.68	4.40	4.52	4.52	4.41	4.51	4.41	4.36
1981/82	4.26	4.27	4.25	4.21	4.38	4.42	4.00	4.12	4.09	4.02	4.14	4.24	4.20
1982/83	4.18	4.13	4.16	4.29	4.29	4.44	4.45	4.52	4.59	4.68	4.62	4.45	4.39
1983/84	4.15	4.08	4.06	4.12	4.03	3.90	3.81	3.79	3.69	3.73	4.03	4.05	3.95
1984/85	4.03	3.73	3.74	3.70	3.73	3.78	3.76	3.77	3.83	3.93	3.94		
MIMMEAPOLIS, NO. 1 DARK NO. SPRING (ORDINARY PROTEIN)													
1980/81	4.19	4.54	4.22	4.17	4.62	4.78	4.62	4.65	4.53	4.32	4.41	4.44	4.46
1981/82	4.29	4.18	4.03	4.07	4.22	4.29	4.15	4.21	4.17	4.10	4.21	4.16	4.17
1982/83	4.08	4.08	3.78	3.79	3.78	3.85	3.76	3.80	3.82	4.01	4.34	4.25	3.94
1983/84	4.15	4.07	4.21	4.30	4.33	4.23	4.20	4.15	4.06	4.20	4.28	4.39	4.21
1984/85	4.40	4.21	3.72	3.57	3.64	3.64	3.48	3.47	3.52	3.55	3.64		
14% PROTEIN													
1980/81	4.33	4.69	4.55	4.56	4.82	4.95	4.77	4.81	4.78	4.67	4.80	4.77	4.71
1981/82	4.56	4.50	4.25	4.23	4.29	4.38	4.22	4.28	4.21	4.16	4.25	4.20	4.29
1982/83	4.13	4.16	3.96	4.02	4.00	4.08	3.96	3.93	3.92	4.08	4.40	4.40	4.09
1983/84	4.39	4.38	4.34	4.33	4.33	4.25	4.21	4.17	4.08	4.24	4.37	4.45	4.30
1984/85	4.45	4.34	4.07	3.97	4.03	4.02	3.92	3.90	3.92	3.94	4.36		
HARD AMBER DURUM, (MILLING)													
1980/81	5.79	7.12	7.19	7.26	7.34	7.22	6.90	7.07	7.02	6.66	6.10	6.04	6.81
1981/82	4.86	4.91	4.75	4.56	4.60	4.58	4.51	4.59	4.57	4.45	4.45	4.49	4.61
1982/83	4.38	4.26	4.07	4.02	4.11	4.17	4.07	4.06	4.12	4.28	4.54	4.90	4.25
1983/84	4.76	4.74	5.04	5.10	4.99	4.91	4.82	4.81	4.69	4.70	4.74	4.71	4.83
1984/85	4.68	4.57	4.65	4.43	4.47	4.46	4.43	4.34	3.37	4.33			

Source: Grain Market News, Agricultural Marketing Service.

Table 11--Wheat: Domestic and foreign prices, 1977-85

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Year and month	United States				Foreign		
	Farm 1/	Kansas City 2/	Gulf ports 3/	Rotterdam 4/	Argentina 5/	Canada 6/	Australia 7/
Dollars per metric ton							
Calendar year							
1977	83	94	105	126	100	116	113
1978	105	116	131	147	126	134	119
1979	130	147	162	186	159	171	142
1980	140	159	176	213	203	192	176
1981	141	160	176	210	190	194	175
1982	130	147	161	195	166	165	160
1982							
January	139	159	175	201	177	181	161
February	136	157	173	199	180	172	167
March	139	156	170	198	179	160	165
April	135	158	171	206	179	162	158
May	133	154	168	204	176	168	158
June	125	149	152	176	164	157	158
July	120	138	152	172	160	163	154
August	123	136	154	172	163	160	154
September	124	138	155	174	161	160	159
October	126	133	149	173	151	159	158
November	128	142	157	178	149	163	162
December	129	146	161	185	148	170	167
1983							
January	131	147	166	186	148	167	167
February	131	150	165	188	143	167	166
March	134	154	167	175	141	170	169
April	138	155	168	189	134	169	171
May	138	149	163	184	125	172	165
June	129	144	151	182	128	166	163
July	123	136	148	181	138	166	157
August	133	143	154	185	142	172	159
September	134	143	157	186	152	172	159
October	133	141	154	186	139	170	155
November	130	140	153	187	133	167	152
December	128	141	153	191	128	170	152
1984							
January	129	140	153	193	129	177	153
February	125	136	151	183	125	174	148
March	128	141	155	180	127	176	151
April	133	145	158	186	138	168	154
May	134	143	154	185	NA	169	153
June	127	140	151	182	144	169	154
July	121	135	149	176	141	162	147
August	126	140	154	174	145	158	152
September	126	143	157	172	143	158	158
October	126	142	154	176	141	159	156
November	127	141	153	176	132	157	156
December	123	138	150	181	116	159	155
1985							
January	124	138	149	184	110	164	153
February	124	137	148	183	111	164	150
March	124	135	146	166	114	164	149
April							
May							
June							
July							
August							
September							
October							
November							
December							

NA = Not available.

1/ Winter wheat. 2/ No. 1, Hard Winter, ordinary protein. 3/ No. 2, Hard winter, ordinary protein, FOB vessel. 4/ U.S., No. 2 Hard Winter, 13.5 percent, CIF. Dark Northern Spring, 14 percent, CIF. 5/ FOB Buenos Aires. 6/ No. 1, CWRS, 13.5 percent, in-store, Thunder Bay. 7/ ASW, FOB.

Table 12--Wheat and wheat flour: World trade, production, stocks, and utilization, July-June 1980-85 !80

Country or region	1981/82	1982/83	1983/84	1984/85	1985/86 as of May 13
<u>Million metric tons</u>					
<u>Exports</u>					
Canada	17.6	21.4	21.8	17.2	19.0
Australia	11.0	8.1	11.6	15.3	15.2
Argentina	4.3	7.5	9.6	7.4	8.3
EC-10	15.5	15.6	15.4	17.5	17.5
USSR	0.5	0.5	0.5	1.0	1.0
All others	3.6	5.6	5.2	7.5	6.4
Total non-U.S.	52.5	58.7	64.1	65.9	66.9
USA 1/	48.8	39.9	38.9	38.9	32.7
World total	101.3	98.6	102.9	104.8	99.6
<u>Imports</u>					
EC-10	4.7	3.9	3.6	2.5	2.7
USSR	19.5	20.2	20.5	26.0	19.0
Japan	5.6	5.8	5.9	5.7	5.8
E. Europe	6.3	4.6	3.8	3.4	3.9
China	13.2	13.0	9.6	7.5	7.0
All others	52.0	51.1	59.6	59.7	61.1
World total	101.3	98.6	102.9	104.8	99.6
<u>Production 2/</u>					
Canada	24.8	26.7	26.6	21.2	26.0
Australia	16.4	8.9	21.9	18.6	17.0
Argentina	8.3	15.0	12.3	13.2	12.1
EC-10	54.4	59.8	59.1	76.2	69.0
USSR 3/	80.0	86.0	79.0	73.0	87.0
E. Europe	30.6	34.7	35.2	41.3	37.8
China	59.6	68.4	81.4	87.7	90.0
India	36.3	37.5	42.8	45.1	45.0
All other foreign	62.3	66.9	66.1	66.9	67.0
USA	75.8	75.3	65.9		68.7
World total	448.5	479.1	490.4	513.8	519.7
<u>Utilization 3/</u>					
USA	23.1	24.7	30.2	32.3	29.9
USSR 4/	102.0	105.7	99.0	98.0	100.0
China	72.8	81.4	91.0	95.2	97.0
All other foreign	243.7	255.8	268.1	277.6	281.3
World total	441.6	467.6	488.4	503.1	508.2
<u>Stocks, ending 5/</u>					
	85.1	96.6	98.5	109.2	120.6

1/ Includes transshipments through Canadian ports; excludes products other than flour. 2/ Production data include all harvests occurring within the July-June year shown, except that small grain crops from the early harvesting Northern Hemisphere areas are moved forward; i.e., the May 1980 harvests in areas such as India, North Africa, and Southern United States are actually included in 1980/81 accounting period, which begins July 1, 1980. 3/ Utilization data are based on an aggregate of differing local marketing years. For countries for which stock data are not available (excluding the USSR), utilization estimates represent apparent utilization, i.e., they are inclusive of annual stock level adjustments. 4/ "Bunker weight" basis: not discounted for excess moisture and foreign material. 5/ Stocks data are based on an aggregate of differing local marketing years and should not be construed as representing world stock levels at a fixed point in time. Stocks data are not available for all countries and exclude those such as China and part of Eastern Europe; the world stock levels have been adjusted for estimated year-to-year changes in USSR grain stocks, but do not purport to include the entire absolute level of USSR stocks.

Source: World Grain Situation and Outlook, USDA, Foreign Agricultural Service.

Table 13--Rye: Supply, disappearance, area, and prices, marketing years, 1978-85

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Item	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86 (proj.)
Million acres								
Area								
Planted	2,865	2,839	2,488	2,566	2,533	2,707	2,971	2,555
Harvested	926	850	650	685	677	896	981	843
Bushel per acre								
Yield/harvested acre	24.4	26.0	25.7	24.6	26.6	28.9	30.3	31.1
Million bushels								
Supply								
Beginning stocks	3.9	9.0	12.0	4.0	3.0	5.8	8.1	12.5
Production	24.1	21.9	16.0	18.2	19.5	27.1	32.4	26.2
Imports	0.1	--	--	0.4	3.0	1.6	0.5	0.5
Total supply	28.1	30.9	27.9	22.6	25.6	34.5	41.0	39.2
Disappearance								
Food	3.7	3.5	3.5	3.5	3.3	3.5	3.5	3.5
Feed and residual	8.0	6.9	6.6	8.2	9.6	15.0	18.1	15.0
Seed	4.6	4.0	4.2	4.2	4.4	4.8	4.5	4.6
Industry	2.4	2.1	2.1	2.2	2.3	2.1	2.0	2.1
Total domestic	18.7	16.5	16.4	18.1	19.6	25.4	28.1	25.2
Exports	0.4	2.4	7.5	1.5	0.2	1.0	0.4	1.0
Total disappearance	19.1	18.9	23.9	19.6	19.8	26.4	28.5	26.2
Ending stocks	9.0	12.0	4.0	3.0	5.8	8.1	12.5	13.0
Dollar per bushel								
Prices								
Loan rate	1.70	1.79	1.91	2.04	2.17	2.25	2.17	2.17
Season average price	1.99	2.06	2.63	2.99	2.37	2.10	1.91	
Thousand dollars								
Value of production	48,520	45,087	41,970	54,379	46,293	56,944	64,784	

Rye: Production--by Major States, 1978-85

State	1978	1979	1980	1981	1982	1983	1984	1985
1,000 bushels								
Georgia	2,530	2,310	1,995	2,730	1,470	1,470	1,760	
Michigan	600	625	504	448	522	600	588	
Minnesota	2,352	2,275	1,900	2,883	3,300	4,960	6,650	
Nebraska	760	770	666	924	1,269	1,265	1,334	
N. Carolina	460	460	420	400	525	440	550	
N. Dakota	5,400	3,920	1,050	2,170	2,400	4,320	5,400	
Oklahoma	570	728	816	680	736	780	704	
Pennsylvania	512	459	434	363	408	578	578	
S. Carolina	726	609	616	726	621	320	546	
S. Dakota	6,200	5,700	4,030	3,220	4,680	8,740	10,800	

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