

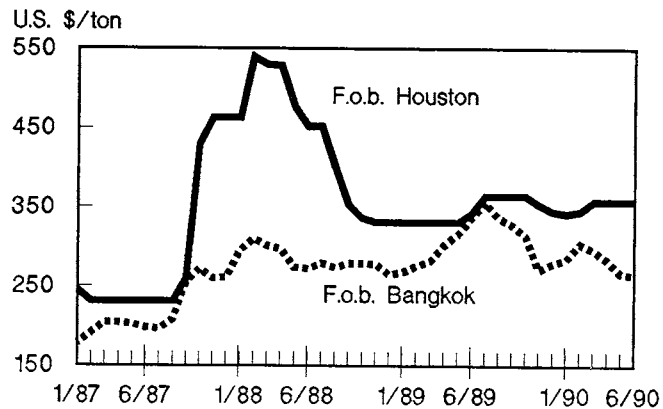
Rice

Situation and Outlook Report

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U.S. and Thai Rice Export Prices



Thailand: 100% B grade long grain rice nominal price quotes.
U.S.: No. 2, 4% broken, long grain rice price quotes.



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Rice Conversions

1 cwt = 100 pounds = 2.22 bushels = .0454 metric tons
 1 metric ton = 2,204.6 pounds = 22.046 cwt = 48.992 bushels
 1 cwt rough rice = .032 metric ton milled
 1 metric ton milled = 31 cwt rough

SUMMARY

USDA's June *Acreage* report indicated that U.S. rice producers planted 2.865 million acres in 1990 and intend to harvest 2.827 million acres, up 5 percent from a year ago. Medium grain plantings were increased by 20 percent from 1989 and area seeded to long grain increased by only 2 percent. Long grain acreage is expected to comprise 72 percent of total rice acreage in 1990, down from 75 in 1989.

Based on the estimated 5-percent rise in planted and harvested acreage from a year ago, U.S. 1990/91 rice production is forecast, as of July 12, to increase only 2.3 percent from a year earlier to 158 million cwt. USDA's first survey-based yield forecast for 1990/91 will be announced August 9. However, conditions to date indicate that yields may not match last year's record. Rain and wet field conditions this spring delayed planting in the Delta which could reduce yield potential.

All of the projected increase in U.S. 1990/91 production is expected to occur in medium grain output. Medium grain production is forecast up 9 percent to 49 million cwt, while long grain production is expected to remain near last year's 109 million cwt.

U.S. rice supplies are forecast to increase only 1.1 million cwt in 1990/91 to 187.3 million because lower carryin stocks are expected to nearly offset the forecast production increase. Imports are expected to continue trending upward, adding 5.5 million cwt to total supply in 1990/91.

Total rice use is forecast to increase a modest 1.2 million cwt in 1990/91 to 163.6 million. Domestic use is projected up 2.2 million cwt, while exports are forecast down 1 million.

With increased use expected to match the forecast small increase in supply, 1990/91 carryout stocks are projected to remain near 1989/90's tight level of almost 24 million cwt. The stocks-to-use ratio also is expected to remain near 15 percent.

Tight supplies are likely to keep U.S. prices firm, at a level higher than world prices. Over the last year, world prices have weakened in response to increased competition in world markets—especially between Thailand and Vietnam—and a drop in world trade.

Foreign rice output in 1990/91 is projected to nearly match 1989/90. Assuming normal weather, combined production in India and China, which together accounted for 58 percent of world output in 1989/90, should nearly match last year's. Production in major exporting countries is forecast up only marginally.

Competition for the world market is likely to heat up in 1991. In 1990, Vietnam severely cut into the Thai market share by selling at prices substantially below those offered by Thai exporters. Recently, Thailand announced an export subsidy scheme in an effort to increase exports, but the response has been weak. Thailand's market share fell from 40 percent in 1989 to a forecast 31 percent in 1990. It is expected that Thailand will aggressively compete with Vietnam to regain market share in 1991.

While U.S. exports are projected to decline only slightly in 1991, the U.S. market share is forecast to fall to 18 percent from about 20 percent in 1990 and 1990. Tight supplies and relatively high prices may hinder U.S. competitiveness in some markets.

U. S. Rice Outlook for 1990/91

U.S. Production Expected Up Slightly

U.S. 1990/91 rice production is forecast, as of July 12, to increase only 2.3 percent from a year earlier to 158 million cwt. All of the increase is expected to occur in medium grain output. Medium grain production is forecast up 9 percent to 49 million cwt, while long grain production is expected to remain near last year's 109 million cwt.

The forecast production increase for all rice is based on an estimated 5- percent rise in planted and harvested acreage from a year ago as reported in USDA's June *Acreage* report. USDA's first survey-based yield forecast for 1990/91 will be announced August 9. However, conditions to date indicate that yields may not match last year's record. Rain and wet field conditions this spring delayed planting in the Delta and this could reduce yield potential.

Producers Plant More Medium Grain Rice

According to the June *Acreage* report, U.S. rice producers increased medium grain plantings by 20 percent from 1989/90 and increased area seeded to long grain by only 2 percent. The three major medium grain producers (California, Louisiana, and Arkansas) increased area seeded to medium grain rice. Although long grain rice is grown in all six major rice-producing States, only Arkansas and Texas boosted area seeded to long grain.

Long grain acreage is expected to comprise 72 percent of the total in 1990/91, down from 75 in 1989/90. Medium grain acreage makes up most of the remainder, with short grain accounting for less than 1 percent.

Planting Decisions Varied by State

Changes in rice plantings from 1989/90, as reported in USDA's June *Acreage* report, varied in each of the six major rice-producing States. Area planted for all types of rice (long, medium, and short grain) increased in Arkansas, Louisiana, and Texas, decreased in California and Missouri, and remained unchanged in Mississippi (see Appendix table 10).

In the three States that increased acreage, changes varied by type of rice. Arkansas producers increased both long and medium grain acreage, whereas Louisiana producers boosted only medium grain plantings. Texas producers, who grow mostly long grain rice, increased only their long grain acreage.

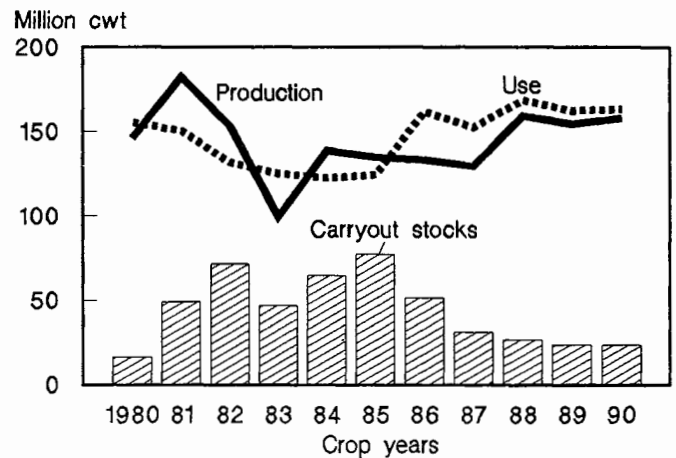
Mississippi and Missouri growers, who are almost solely long grain producers, did not increase their rice acreage in 1990/91. Acreage declined in Missouri and remained unchanged in Mississippi.

California is the top U.S. producer of medium and short grain rice, but grows only 2-3 percent of all long grain production. California's acreage declined because more long and short grain acreage was removed from production than was added to medium grain. California is in the fourth year of a major drought and the shortage of irrigation water was a major factor in the reduced plantings.

Supplies Forecast Near Last Year's

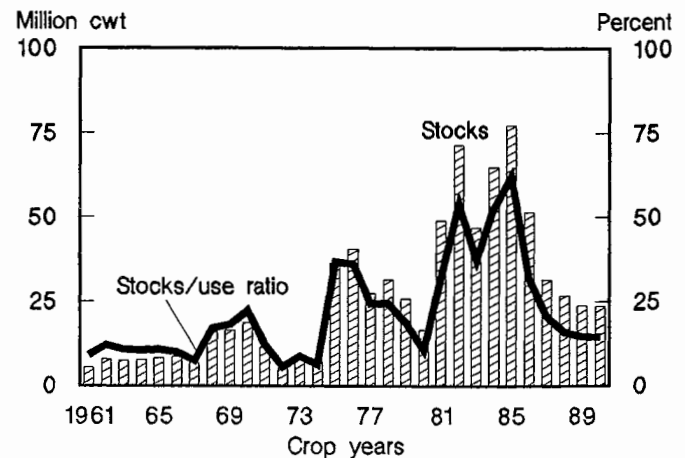
U.S. rice supplies are forecast to increase only 1.1 million cwt in 1990/91 to 187.3 million, because lower carryin stocks are expected to nearly offset the forecast production increase. Imports are expected to continue trending upward, adding 5.5 million cwt to total supply in 1990/91.

Figure 1
U.S. Rice Production, Use, and Stocks



1990 forecast. 1989 estimate.

Figure 2
U.S. Rice Stocks and Stocks/Use Ratio



1990 forecast. 1989 estimate.

Use Also Forecast Near Last Year's, Stocks Expected To Remain Tight

Total rice use is forecast to increase a modest 1.2 million cwt in 1990/91 to 163.6 million. Domestic use is projected up 2.2 million cwt, while exports are forecast down 1 million.

With increased use expected to match the forecast small increase in supply, 1990/91 carryout stocks are projected to remain near 1989/90's tight level of almost 24 million cwt. The stocks-to-use ratio also is expected to remain near 15 percent.

U.S. Situation for 1989/90

U.S. Rice Production Down ,Stocks Remain Tight

U.S. rice production in 1989/90 slipped to 154.5 million cwt, down 3 percent from 1988/89. All of the decrease was attributed to a 9-percent drop in long grain production. Medium/short grain production rose 11 percent.

Lower long grain output resulted from reduced acreage. Long grain acreage declined 10 percent from 1988/89, while medium/short grain acreage rose 3 percent. All six rice-producing States decreased long grain acreage. Medium grain acreage rose in California and Louisiana, offsetting a decline in Arkansas.

About half the 1989/90 acreage decrease was due to increased participation in USDA's 50/92 program. Under this program, additional acreage removed from production nearly doubled from the prior year. The acreage reduction program for 1989/90 was 25 percent, the same as in 1988/89. The 50/92 program accounted for an additional 5 percent of base acreage removed from production. Base acreage taken out of production in 1989/90 amounted to 1.18 million acres, up from 1.09 million in 1988/89.

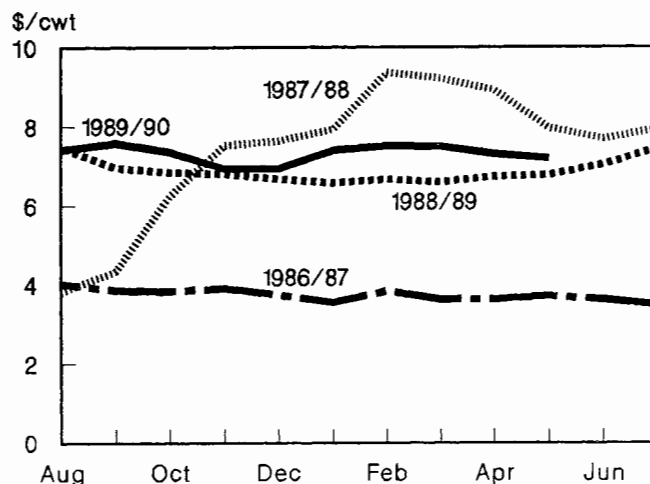
For the fourth straight year, total rice use outpaced U.S. production. As a result, stocks are expected to slip to 24 million cwt by the end of the 1989/90 marketing year, down 11 percent from a year earlier.

U.S. Farm Prices Remain High While World Prices Tumble

Tight supplies have helped keep U.S. farm prices firm in 1989/90. Farm prices are forecast to range between \$7.25 and \$7.50 per cwt in 1989/90, compared with \$6.83 in 1988/89.

Figure 3

Rice: Monthly U.S. Farm Prices



While U.S. prices have remained higher than a year ago, world prices have tumbled. World prices have been falling since the beginning of the marketing year in response to increased competition, especially between Thailand and Vietnam. In addition, world trade in calendar year 1990 is substantially reduced from the 1989 record.

International Rice Situation for 1990/91

The world rice situation in 1990/91 is likely to resemble 1989/90. A large foreign crop is expected to keep imports from expanding significantly. Strong competition among Asian exporters is likely to keep export prices low.

Foreign rice output in 1990/91 is projected to nearly match 1989/90. Assuming normal weather, combined production in India and China, which together accounted for 58 percent of world output in 1989/90, should nearly match last year's crop.

Global consumption is projected up marginally and 1990/91 ending stocks are forecast to about equal 1989/90. However, it should be noted that the 1990/91 crop year has not yet begun. Over 90 percent of the world's rice is produced and consumed in Asia, where weather—particularly the strength of the monsoons—determines the size of rice crops in many countries. The monsoon season has just begun in South and Southeast Asia. The first USDA forecasts for 1990/91 assume normal weather for the rest of the growing season.

Imports are not forecast to expand significantly. Of the largest importers in calendar 1990—the EC, Iran, Iraq, the Philippines, Saudi Arabia, and the Soviet Union—only the Soviet Union is projected to increase its imports. Large wheat and rice crops in India and China will likely keep those countries' imports low.

Production in major exporting countries is forecast up only marginally. Higher yields in Pakistan are forecast to increase production 10 percent. Lower prices will likely lead to reduced area in Thailand, but higher yields are expected to keep production from falling. Vietnam's production is forecast down 3 percent because of reduced yields.

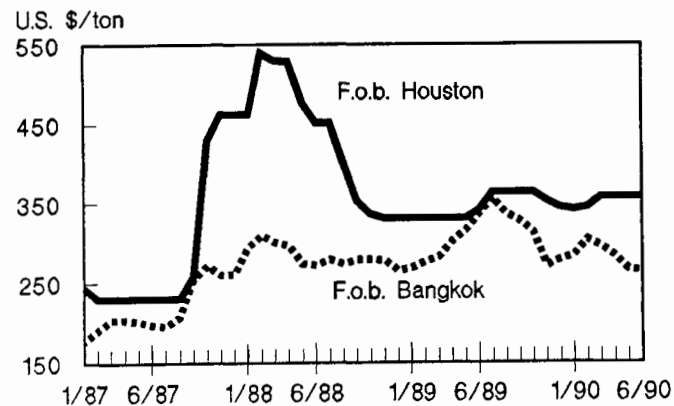
Competition for the world market is likely to heat up in 1991. In 1990, Vietnam severely cut into the Thai market share by selling at prices substantially below those offered by Thai exporters. At the same time, the Thai Government began supporting domestic prices by buying rice at above-market prices. Government stocks have become burdensome.

Recently, Thailand has announced an export subsidy scheme to boost exports, but the response has been weak. Thailand is not likely to continue building stocks in 1991. Instead, it is expected to aggressively compete with Vietnam to regain market share. Thailand's market share fell from 40 percent in 1989 to a forecast 31 percent in 1990. Strong competition among Asian exporters is likely to lead to a continuing decline in world prices.

U.S. Market Share To Fall

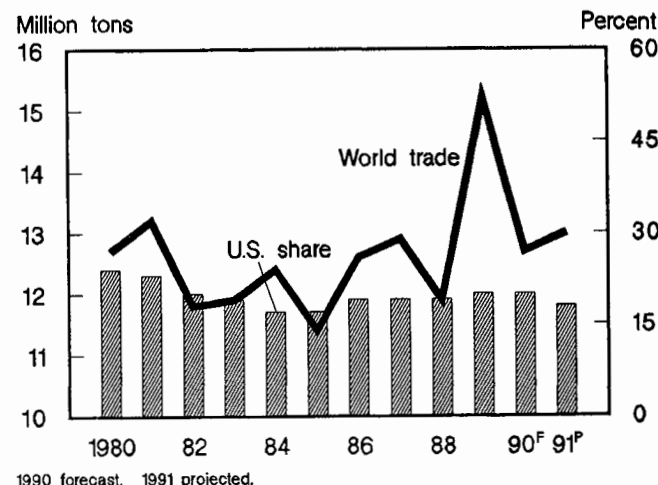
While U.S. exports are projected to decline only slightly in 1991, the U.S. market share is forecast to fall to 18 percent from about 20 percent in 1989 and 1990. Tight supplies and

Figure 4
U.S. and Thai Rice Export Prices



Thailand: 100% B grade long grain rice nominal price quotes.
US No. 2 4% broken, long grain rice price quotes.

Figure 5
World Rice Trade and U.S. Share



1990 forecast. 1991 projected.

relatively high prices may hinder U.S. competitiveness in some markets.

U.S. exports in 1989/90 (August/July) are estimated at 77 million cwt. Exports continued at a strong pace, averaging 244,000 tons per month through April before dropping off sharply in May. The largest importers of U.S. rice through May were Iraq, Mexico, and the EC. Business slowed for several reasons. Credit to Iraq, the largest customer, has been suspended and Iraq has begun to buy from other suppliers. Shipments to Turkey, and Jordan have dropped off somewhat.

In addition, U.S. prices have been relatively high at a time when import demand appeared slack. U.S. exports are likely to remain sluggish before picking up again when the new crop is harvested.

U.S. exports are projected to continue in 1990/91. Tight supplies and continuing high prices are likely to continue hampering U.S. exports in the second half of the marketing year when Asian exporters harvest their main season crop and begin to compete in earnest for world market share.

Major U.S. buyers in 1989/90 are generally not projected to reduce total imports in 1990/91. The EC, Middle Eastern countries, and Latin American buyers—particularly Mexico and Brazil—are expected to keep the volume of U.S. exports from falling significantly. However, this forecast assumes that Iraq's imports of U.S. rice will match those of 1989/90.

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Appendix table 1--Estimated supply, disappearance, and price by type of rice, U.S.
(rough equivalent of rough and milled rice) 1/

Item	Unit	1986/87	1987/88	1988/89	1989/90	1990/91 3/ as of July 1990
Total rice:						
Area planted	Mil. acre	2.38	2.36	2.93	2.73	2.87
Area harvested	"	2.36	2.33	2.90	2.69	2.83
Yield	Pounds/acre	5,651	5,555	5,514	5,749	5,514 ???
Beginning stocks 2/	Mil. cwt	77.30	51.40	31.40	26.70	23.80
Production	"	133.40	129.60	159.90	154.50	158.00
Imports	"	2.60	3.00	4.20	5.00	5.50
Total supply	"	213.30	184.00	195.50	186.20	187.30
Domestic & residual 4/	"	77.70	80.40	83.20	85.40	87.60
Exports	"	84.20	72.20	85.60	77.00	76.00
Total use	"	161.90	152.60	168.80	162.40	163.60
Ending stocks	"	51.40	31.40	26.70	23.80	23.70
CCC	"	8.70	0.00	0.00	0.00	0.00
Free	"	42.70	31.40	26.70	23.80	23.70
Average market price 5/	\$/cwt	3.75	7.27	6.83	(7.25-7.50)	(6.00-8.00)
Long:						
Area harvested	Mil. acres	1.81	1.70	2.23	2.00	2.04
Yield	Pounds/acre	5,358	5,241	5,345	5,469	5,333
Beginning stocks	Mil. cwt	49.30	27.40	19.10	15.40	11.80
Production	"	96.80	89.00	119.40	109.50	109.00
Total supply 6/	"	148.60	119.40	142.50	129.80	125.70
Domestic & residual 4/	"	51.30	49.80	56.10	57.00	58.50
Exports	"	69.90	50.50	71.00	61.00	60.00
Total use	"	121.20	100.30	127.10	118.00	118.50
Ending stocks	"	27.40	19.10	15.40	11.80	7.20
Average market price 5/	\$/cwt	3.82	7.77	6.96	NA	NA
Medium/short:						
Area harvested	Mil. acres	0.55	0.64	0.67	0.68	0.78
Yield	Pounds/acre	6,603	6,395	6,077	6,571	6,282
Beginning stocks	Mil. cwt	26.20	21.10	10.80	8.90	9.70
Production	"	36.60	40.60	40.50	44.90	49.00
Total supply 6/	"	62.90	61.70	51.40	53.90	59.10
Domestic & residual 4/	"	27.50	29.20	28.00	28.40	29.10
Exports	"	14.30	21.70	14.60	16.00	16.00
Total use	"	41.80	50.90	42.50	44.40	45.10
Ending stocks	"	21.10	10.80	8.90	9.50	14.00
Average market price 5/	\$/cwt	3.55	6.36	6.47	NA	NA

Note: Totals may not add because of rounding.

1/ Marketing year beginning August 1. 2/ Includes the following quantities of broken kernel rice (type undetermined) not included in estimates of beginning stocks by type (in mil. cwt.): 1986/87, 1.8; 1987/88, 2.9; 1988/89, 1.5; 1989/90, 2.4; 1990/91, 2.4. 3/ Projected. 4/ Residual: unreported use, processing losses, and estimating errors. Use by type does not add to total rice use because of the difference in broken between beginning and ending stocks. 5/ Marketing year weighted average price received by farmers. 6/ Includes imports.

Appendix table 2--Rough and milled rice (rough equivalent): Marketing year supply and disappearance, 1970/71-1990/91

Year beginning Aug. 1	Supply				Disappearance							--Ending stocks--July 31--		
	Begin- ning stocks	Produc- tion	Imports	Total	-----Domestic use-----			Exports	Resid- ual	Total disap- pearance	CCC inven- tory	Free	Total	
					Food	Seed	Brewers							
Million cwt														
1970/71	16.4	83.8	1.5	101.7	25.1	2.5	6.8	34.4	46.5	2.2	83.1	9.5	9.1	18.6
1971/72	18.6	85.8	1.1	105.5	25.5	2.5	7.4	35.4	56.9	1.8	94.1	2.7	8.7	11.4
1972/73	11.4	85.4	0.6	97.4	25.1	3.0	7.7	35.8	54.0	2.5	92.3	0.1	5.0	5.1
1973/74	5.1	92.8	0.2	98.1	26.1	3.6	8.1	37.8	49.7	2.7	90.2	0.0	7.8	7.8
1974/75	7.8	112.4	0.1	120.3	28.6	4.0	8.4	41.0	69.5	2.7	113.2	0.0	7.1	7.1
1975/76	7.1	128.4	0.0	135.5	27.7	3.5	9.1	40.3	56.5	1.8	98.6	18.7	18.2	36.9
1976/77	36.9	115.6	0.1	152.6	29.2	3.2	10.3	42.7	65.6	3.8	112.1	18.6	21.9	40.5
1977/78	40.5	99.2	0.1	139.8	23.5	4.3	9.9	37.7	72.8	1.9	112.4	10.8	16.6	27.4
1978/79	27.4	133.2	0.1	160.7	33.7	4.3	11.2	49.2	75.7	4.2	129.1	8.3	23.2	31.6
1979/80	31.6	131.9	0.1	163.6	33.2	4.8	11.2	49.2	82.6	6.1	137.9	1.7	24.0	25.7
1980/81	25.7	146.2	0.2	172.1	38.4	5.1	11.0	54.5	91.4	9.7	155.6	0.0	16.5	16.5
1981/82	16.5	182.7	0.4	199.6	42.5	4.4	12.7	59.6	82.0	9.0	150.6	17.5	31.5	49.0
1982/83	49.0	153.6	0.7	203.3	37.3	3.2	13.5	54.0	68.9	8.9	131.8	22.3	49.2	71.5
1983/84	71.5	99.7	0.9	172.1	33.2	3.3	12.8	49.3	70.3	5.6	125.2	25.0	21.9	46.9
1984/85	46.9	138.8	1.6	187.3	35.8	2.8	13.9	52.5	62.1	8.0	122.6	44.3	20.4	64.7
1985/86	64.7	134.9	2.2	201.8	45.6	2.6	14.1	62.3	58.7	3.5	124.5	43.6	33.7	77.3
1986/87	77.3	133.4	2.6	213.3	53.1	2.6	15.0	70.7	84.2	7.0	161.9	8.7	42.7	51.4
1987/88	51.4	129.6	3.0	184.0	55.3	3.2	15.4	73.9	72.2	6.5	152.6	0.0	31.4	31.4
1988/89	31.4	159.9	4.2	195.5	58.7	3.0	15.5	77.2	85.6	6.0	168.8	0.0	26.7	26.7
1989/90 1/	26.7	154.5	5.0	186.2	60.5	3.2	15.7	79.4	77.0	6.0	162.4	0.0	23.8	23.8
1990/91 2/	23.8	158.0	5.5	187.3	62.5	3.2	15.9	81.6	76.0	6.0	163.6	0.0	23.7	23.7

1/ Estimated. 2/ Projected as of July 1990.

Appendix table 3--Long grain rough and milled rice (rough equivalent): Marketing year supply and disappearance, 1982/83-1990/91

Year beginning August 1	Supply			Disappearance			Ending stocks
	Beginning stocks	Production	Total 1/	Domestic 2/ and residual	Exports	Total	Total
Million cwt							
1982/83	17.6	93.4	111.0	38.7	47.0	85.7	25.8
1983/84	25.8	64.3	90.7	29.5	44.8	74.3	16.4
1984/85	16.4	96.0	113.3	34.1	42.0	76.1	37.7
1985/86	37.7	100.4	140.1	48.8	42.0	90.8	49.3
1986/87	49.3	96.8	148.6	51.3	69.9	121.2	27.4
1987/88	27.4	89.0	119.4	49.8	50.5	100.3	19.1
1988/89	19.1	119.4	142.5	56.1	71.0	127.1	15.4
1989/90 3/	15.4	109.5	129.8	57.0	61.0	118.0	11.8
1990/91 4/	11.8	109.0	125.7	58.5	60.0	118.5	7.2

1/ Includes imports. 2/ Use by type does not add to total rice use because of the difference in brokens between beginning and ending stocks. 3/ Estimated. 4/ Projected as of July 1990.

Appendix table 4--Medium/short grain rough and milled rice (rough equivalent): Marketing year supply and disappearance, 1982/83-1990/91

Year beginning August 1	Supply			Disappearance			Ending stocks
	Beginning stocks	Production	Total 1/	Domestic 2/ and residual	Exports	Total	Total
Million cwt							
1982/83	30.2	60.2	90.6	24.4	21.9	46.1	44.7
1983/84	44.7	35.4	80.2	26.0	25.4	51.4	28.8
1984/85	28.8	42.8	71.8	26.0	20.1	46.1	25.7
1985/86	25.7	34.5	60.4	17.5	16.7	34.2	26.2
1986/87	26.2	36.6	62.9	27.5	14.3	41.8	21.1
1987/88	21.1	40.6	61.7	29.2	21.7	50.9	10.8
1988/89	10.8	40.5	51.4	28.0	14.6	42.5	8.9
1989/90 3/	8.9	44.9	53.9	28.4	16.0	44.4	9.5
1990/91 4/	9.5	49.0	59.1	29.1	16.0	45.1	14.0

1/ Includes imports. 2/ Use by type does not add to total rice use because of the difference in brokens between beginning and ending stocks. 3/ Estimated. 4/ Projected as of July 1990.

Appendix table 5--Rough rice milled, total milled produced, and milling yields, United States

Year beginning August 1	Rough milled -----1,000 cwt-----	Total milled produced 1/	Milling yields Lbs./cwt	Total heads produced 1/ 1,000 cwt	Milling yields Lbs./cwt
1978/79	117,961	83,427	70.7	68,749	58.3
1979/80	124,340	89,820	72.2	78,943	63.5
1980/81	141,192	103,037	73.0	89,602	63.5
1981/82	131,922	95,074	72.1	82,011	62.2
1982/83	118,726	84,517	71.0	73,713	62.1
1983/84	111,151	79,012	71.1	68,237	61.4
1984/85	107,195	74,580	69.6	64,063	59.8
1985/86	115,542	81,808	70.8	69,347	60.0
1986/87	140,804	100,257	71.2	83,760	59.5
1987/88	130,818	91,481	69.9	76,863	58.8
1988/89	145,639	104,119	71.5	86,820	59.6

1/ Includes brown rice.

Sources: Rice Miller's Association Monthly Statistical Statements.
Rice Market News, Agricultural Marketing Service, USDA.

Appendix table 6--Rice milling rates, 1974/75-1988/89

Year beginning August 1	South 1/	California Percent	United States
1974/75	71.15	74.60	71.92
1975/76	69.31	73.88	70.38
1976/77	71.95	72.80	72.11
1977/78	69.28	69.56	69.33
1978/79	70.50	71.69	70.72
1979/80	71.00	75.32	72.32
1980/81	70.78	79.32	72.98
1981/82	71.56	74.99	72.15
1982/83	71.07	69.21	70.67
1983/84	71.07	71.62	71.19
1984/85	70.50	66.90	69.57
1985/86	70.44	71.90	70.80
1986/87	71.71	65.38	70.23
1987/88	70.96	67.37	69.93
1988/89 2/	72.07	69.40	71.49

1/ Arkansas, Louisiana, Mississippi, Missouri, and Texas. 2/ Preliminary.

Sources: Rice Miller's Association, Monthly Statistical Statements.
Rice Market News, Agricultural Marketing Service, USDA.

Appendix table 7--Rice stocks: Rough and milled 1/

Date	Rough					Milled			
	On farms or in farm warehouses	At mills and in attached warehouses	In ware- houses (not attached to mills)	In ports or in transit	Total all positions	At mills and in attached warehouses	In ware- houses (not attached to mills)	In ports or in transit	Total all positions
	1,000 cwt								
January 1:									
1980	31,021	15,038	57,278	581	103,918	3,137	810	2,123	6,070
1981	26,179	21,111	48,817	6	96,113	3,055	929	2,556	6,540
1982	48,404	22,952	59,117	911	131,384	2,735	907	1,414	5,056
1983	34,551	24,151	76,070	200	134,972	2,960	858	2,401	6,219
1984	30,681	19,541	64,143	344	114,709	3,867	456	1,395	5,718
1985	32,426	19,535	74,514	797	127,272	3,343	524	2,058	5,925
1986	36,737	23,768	81,967	514	142,986	3,674	461	465	4,600
December 1:									
1986	36,264	18,739	90,153	384	145,540	4,578	461	650	5,689
1987	29,789	13,648	71,902	81	115,420	4,841	617	1,232	6,690
1988	39,581	12,741	79,245	121	131,688	4,813	550	915	6,278
1989	40,040	10,084	66,166	83	116,373	4,254	782	720	5,756
April 1:									
1980	12,030	15,581	39,224	563	67,398	3,500	402	2,888	6,790
1981	5,977	15,078	28,673	64	49,792	3,499	1,099	3,214	7,812
1982	26,807	21,289	41,773	411	90,280	4,371	725	1,689	6,785
1983	23,778	22,307	62,649	299	109,033	3,295	492	3,165	6,952
1984	15,802	17,432	46,515	17	79,766	3,838	464	2,999	7,301
1985	18,709	16,438	60,188	707	96,042	3,538	481	2,101	6,120
1986	22,232	19,371	73,700	914	116,217	2,818	425	208	3,451
March 1:									
1987	19,561	15,962	70,780	483	106,786	3,881	561	117	4,559
1988	10,104	28,905	39,464	125	75,598	5,680	1,233	1,059	7,972
1989	27,266	12,704	49,439	641	90,050	5,589	189	1,502	7,280
1990 2/	15,965	10,390	51,381	218	77,954	5,259	327	410	5,996
August 1:									
1980	563	9,248	9,940	342	20,093	2,128	403	1,504	4,035
1981	208	5,417	4,206	9	9,840	2,744	446	1,665	4,855
1982	4,453	12,544	23,906	484	41,387	3,191	409	1,877	5,477
1983	6,032	11,190	45,899	36	63,157	2,843	223	2,830	5,896
1984	1,250	11,017	27,425	14	39,706	3,976	50	1,095	5,121
1985	697	13,398	44,402	653	59,150	3,023	304	515	3,842
1986	2,031	15,432	52,476	1,008	70,947	3,033	398	1,099	4,530
1987	984	9,986	30,718	115	41,803	5,044	632	1,168	6,844
1988	1,242	7,714	14,789	3	23,748	4,461	189	679	5,329
1989	1,176	7,296	10,084	31	18,587	4,178	752	902	5,832

1/ These estimates do not include stocks located in States outside the major producing States of Missouri, Mississippi, Arkansas, Louisiana, Texas, and California. 2/ Preliminary.

Appendix table 8--State and U.S. rice production by class, 1981-1989

State	1981	1982	1983	1984	1985	1986	1987	1988	1989
1,000 cwt									
Long grain:									
Arkansas	57,280	47,608	33,012	46,320	50,712	49,462	45,259	57,447	57,458
California	1/	826	1,309	4,288	3,834	1,520	2,592	4,200	2,630
Louisiana	10,554	10,962	7,622	13,899	14,418	14,061	12,079	17,538	13,128
Mississippi	14,432	10,094	6,440	8,265	10,058	10,692	10,098	13,275	13,395
Missouri	2,747	3,160	2,460	3,358	3,415	3,335	3,420	4,080	4,056
Texas	25,413	20,774	13,475	19,899	17,930	17,703	15,547	22,824	18,874
United States	110,426	93,424	64,318	96,029	100,367	96,773	88,995	119,364	109,541
Medium grain:									
Arkansas	11,094	8,400	5,784	6,400	3,809	4,544	7,656	7,236	6,322
California	31,373	27,202	14,129	20,520	18,628	21,917	22,496	22,050	26,000
Louisiana	16,524	13,900	7,071	8,033	5,838	5,319	7,031	6,542	8,360
Mississippi	360	1/	1/	1/	1/	1/	1/	505	1/
Missouri	320	400	74	90	48	99	144	102	52
Texas	1,826	1,440	330	261	141	360	324	456	392
United States	61,497	51,342	27,388	35,304	28,464	32,239	37,651	36,891	41,126
Short grain:									
Arkansas	1,236	1,029	363	180	76	54	110	52	60
California	9,551	7,820	7,651	7,252	6,006	4,290	2,847	3,590	3,760
Missouri	32	22	1/	45	1/	1/	1/	1/	1/
United States	10,819	8,871	8,014	7,477	6,082	4,344	2,957	3,642	3,820
Total grains:									
Arkansas	69,610	57,037	39,159	52,900	54,597	54,060	53,025	64,735	63,840
California	40,924	35,848	23,089	32,060	28,468	27,727	27,935	29,840	32,390
Louisiana	27,078	24,862	14,693	21,932	20,256	19,380	19,110	24,080	21,488
Mississippi	14,792	10,094	6,440	8,265	10,058	10,692	10,098	13,780	13,395
Missouri	3,099	3,582	2,534	3,493	3,463	3,434	3,564	4,182	4,108
Texas	27,239	22,214	13,805	20,160	18,071	18,063	15,871	23,280	19,266
United States	182,742	153,637	99,720	138,810	134,913	133,356	129,603	159,897	154,487

1/ No grain estimates.

Appendix table 9--State and U.S. rice acreage, yield, and production, by class

State	Area harvested			Yield			Production		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
	-----1,000 acres-----			-----Pounds/acre-----			-----1,000 cwt-----		
Long grain:									
Arkansas	876	1,075	1,030	5,170	5,340	5,580	45,259	57,447	57,458
California	36	60	35	7,200	7,000	7,510	2,592	4,200	2,630
Louisiana	262	388	295	4,610	4,520	4,450	12,079	17,538	13,128
Mississippi	198	250	235	5,100	5,310	5,700	10,098	13,275	13,395
Missouri	63	80	78	5,100	5,100	5,200	3,420	4,080	4,056
Texas	263	380	330	5,910	6,010	5,720	15,547	22,824	18,874
United States	1,698	2,233	2,003	5,241	5,345	5,469	88,995	119,364	109,541
Medium grain:									
Arkansas	132	134	109	5,800	5,400	5,800	7,656	7,236	6,322
California	295	315	325	7,630	7,000	8,000	22,496	22,050	26,000
Louisiana	158	147	190	4,450	4,450	4,400	7,031	6,542	8,360
Mississippi	1/	10	1/	1/	5,050	1/	1/	505	1/
Missouri	3	2	1	4,800	5,100	5,200	144	102	52
Texas	6	8	8	5,400	5,700	4,900	324	456	392
United States	594	616	633	6,339	5,989	6,497	37,651	36,891	41,126
Short grain:									
Arkansas	2	1	1	5,500	5,200	6,000	110	52	60
California	39	50	50	7,300	7,180	7,520	2,847	3,590	3,760
United States	41	51	51	7,212	7,141	7,490	2,957	3,642	3,820
Total:									
Arkansas	1,010	1,210	1,140	5,250	5,350	5,600	53,025	64,735	63,840
California	370	425	410	7,550	7,020	7,900	27,935	29,840	32,390
Louisiana	420	535	485	4,550	4,500	4,430	19,110	24,080	21,488
Mississippi	198	260	235	5,100	5,300	5,700	10,098	13,780	13,395
Missouri	66	82	79	5,400	5,100	5,200	3,564	4,182	4,108
Texas	269	388	338	5,900	6,000	5,700	15,871	23,280	19,266
United States	2,333	2,900	2,687	5,555	5,514	5,749	129,603	159,897	154,487

1/ No medium grain estimated.

Source: Crop Production 1989 Summary, January 1990, National Agricultural Statistics Service, USDA.

Appendix table 10--State and U.S. rice area planted, by class

State	Area planted					1990/89 Percent
	1986	1987	1988	1989	1990	
	1,000 acres					check data
Long grain:						
Arkansas	944	885	1,084	1,039	1,090	105
California	20	36	60	35	13	37
Louisiana	310	265	395	310	305	98
Mississippi	200	200	255	240	240	100
Missouri	66	64	81	80	74	93
Texas	282	264	382	332	352	106
United States	1,822	1,714	2,257	2,036	2,074	101.9
Medium grain:						
Arkansas	85	133	135	110	139	126
California	288	299	320	330	360	109
Louisiana	120	160	150	195	265	136
Mississippi	1/	1/	10	1/	1/	1/
Missouri	2	3	2	1	1	100
Texas	8	6	8	8	8	100
United States	503	601	625	644	773	120.0
Short grain:						
Arkansas	1	2	1	1	1	100
California	55	39	50	50	17	34
United States	56	41	51	51	18	35.3
Total:						
Arkansas	1,030	1,020	1,220	1,150	1,230	107
California	363	374	430	415	390	94
Louisiana	430	425	545	505	570	113
Mississippi	200	200	265	240	240	100
Missouri	68	67	83	81	75	93
Texas	290	270	390	340	360	106
United States	2,381	2,356	2,933	2,731	2,865	104.9

1/ No medium grain estimated.

Source: Acreage , June 1990, National Agricultural Statistics Service, USDA.

Appendix table 11--U.S. rice acreage, yield, and production, 1958-1989

Crop year 1/	Planted	Harvested	Diverted	Yield	Production
	-----1,000 acres-----			Lbs./acre	1,000 cwt
1958	1,440	1,415	---	3,164	44,760
1959	1,608	1,586	---	3,382	53,647
1960	1,614	1,595	---	3,423	54,591
1961	1,618	1,589	---	3,411	54,198
1962	1,796	1,773	---	3,726	66,045
1963	1,785	1,771	---	3,968	70,269
1964	1,797	1,786	---	4,098	73,166
1965	1,804	1,793	---	4,255	76,281
1966	1,980	1,967	---	4,326	85,020
1967	1,982	1,970	---	4,538	89,379
1968	2,367	2,353	---	4,424	104,075
1969	2,141	2,128	---	4,272	90,838
1970	1,826	1,815	---	4,617	83,754
1971	1,826	1,818	---	4,719	85,768
1972	1,824	1,818	---	4,697	85,439
1973	2,181	2,170	---	4,276	92,765
1974	2,550	2,531	---	4,440	112,394
1975	2,833	2,818	---	4,558	128,437
1976	2,489	2,480	---	4,663	115,648
1977	2,261	2,249	---	4,412	99,223
1978	2,993	2,970	---	4,484	133,170
1979	2,890	2,869	---	4,599	131,947
1980	3,380	3,312	---	4,413	146,150
1981	3,827	3,792	---	4,819	182,742
1982	3,295	3,262	422	4,710	153,588
1983	2,190	2,169	1,739	4,598	99,720
1984	2,830	2,802	785	4,954	138,810
1985	2,512	2,492	1,241	5,414	134,913
1986	2,381	2,360	1,479	5,651	133,356
1987	2,356	2,333	1,566	5,555	129,603
1988 2/	2,933	2,900	1,051	5,514	159,897
1989 3/	2,731	2,687	1,150	5,749	154,487

--- = Not applicable.

1/ The crop year for rice begins on August 1 and extends through July 31. 2/ Preliminary. 3/ Projected.

Appendix table 12--U.S. and State average rice yields per harvested acre, 1953-1989

Crop year	United States	Arkansas	Louisiana	Mississippi	Texas	California
	Pounds					
1953	2,447	2,300	2,075	2,550	2,625	2,900
1954	2,517	2,500	2,350	2,625	2,675	2,550
1955	3,061	3,125	2,800	2,850	3,050	3,450
1956	3,151	3,200	2,700	2,850	2,900	4,200
1957	3,204	3,100	2,675	3,200	3,200	4,300
1958	3,164	2,950	2,650	2,800	3,100	4,450
1959	3,382	3,400	2,850	2,700	3,150	4,650
1960	3,423	3,525	2,850	2,950	3,075	4,775
1961	3,411	3,500	2,925	3,300	2,900	4,800
1962	3,726	3,850	3,050	3,200	3,550	4,950
1963	3,968	4,300	3,325	3,900	4,125	4,325
1964	4,098	4,300	4,300	3,800	4,150	5,050
1965	4,255	4,300	3,550	3,700	4,600	4,900
1966	4,326	4,300	3,700	4,300	4,200	5,500
1967	4,538	4,550	3,900	4,300	5,000	4,900
1968	4,424	4,350	3,900	4,300	4,600	5,325
1969	4,272	3,950	3,400	4,200	3,950	5,325
1970	4,617	4,900	3,900	4,400	4,450	5,700
1971	4,719	5,050	3,800	4,600	5,100	5,200
1972	4,697	4,975	3,825	4,559	4,727	5,614
1973	4,276	4,770	3,451	4,306	3,740	5,616
1974	4,440	4,535	3,650	4,180	4,494	5,380
1975	4,558	4,770	3,810	3,900	4,560	5,750
1976	4,663	4,230	3,910	4,200	4,810	5,520
1977	4,412	4,230	3,670	4,000	4,670	5,810
1978	4,484	4,450	3,820	4,250	4,700	5,220
1979	4,599	4,320	3,910	4,050	4,220	6,520
1980	4,413	4,110	3,550	3,840	4,230	6,440
1981	4,819	4,520	4,060	4,390	4,700	6,900
1982	4,710	4,290	4,160	4,120	4,690	6,700
1983	4,598	4,280	3,820	4,000	4,340	7,040
1984	4,954	4,600	4,150	4,350	4,940	7,120
1985	5,414	5,200	4,370	5,350	5,490	7,300
1986	5,651	5,300	4,550	5,400	6,250	7,700
1987	5,555	5,250	4,550	5,100	5,900	7,550
1988	5,514	5,350	4,500	5,300	6,000	7,020
1989 1/	5,749	5,600	4,430	5,700	5,700	7,900

1/ Preliminary.

Appendix table 13--Proportional distribution of rice production, by type of grain, United States, 1953-1989

Crop year	Long grain	Medium grain	Short grain	Total production
	Percent			1,000 cwt
1953	43.5	33.0	23.5	52,834
1954	45.5	35.6	18.9	64,193
1955	50.4	27.7	21.9	55,902
1956	57.1	20.5	23.1	49,459
1957	56.4	20.5	23.1	42,935
1958	55.7	21.2	23.1	44,760
1959	50.5	29.1	20.4	53,647
1960	48.2	35.2	16.6	54,591
1961	45.3	38.4	16.3	54,198
1962	43.7	41.8	14.5	66,045
1963	36.8	48.7	14.5	70,269
1964	37.5	50.2	12.3	73,166
1965	43.0	45.6	11.4	76,281
1966	41.6	46.5	11.9	85,020
1967	48.5	42.3	9.2	89,379
1968	46.8	42.1	11.1	104,075
1969	49.0	40.3	10.7	90,838
1970	49.3	40.4	10.3	83,754
1971	52.6	37.2	10.2	85,768
1972	50.2	39.7	10.1	85,439
1973	46.2	42.9	10.9	92,765
1974	49.8	41.0	9.2	112,394
1975	52.9	38.4	8.7	128,437
1976	60.6	31.8	7.6	115,648
1977	62.7	26.5	10.8	99,223
1978	63.7	27.4	8.9	133,170
1979	61.2	30.6	8.2	131,947
1980	59.4	35.2	5.4	146,150
1981	60.4	33.7	5.9	182,742
1982	60.8	33.4	5.8	153,637
1983	65.2	26.7	8.1	99,720
1984	69.2	25.4	5.4	138,810
1985	74.4	21.1	4.5	134,913
1986	72.8	24.0	3.2	133,356
1987	68.7	29.0	2.3	129,603
1988	74.6	23.1	2.3	159,897
1989 1/	70.9	26.6	2.5	154,487

1/ Estimated.

Appendix table 14--Use and ending stocks for rice, United States, 1953-1989

Crop year	Food 1/	Seed	Brewer	Exports	Total use 2/	Ending stocks	Stocks-to-
							use ratio
			Mil. cwt				Percent
1953	17.3	3.1	4.6	22.7	47.2	7.5	16.0
1954	18.7	2.2	5.6	14.3	45.1	26.7	59.2
1955	19.1	2.0	6.0	18.7	48.2	34.6	71.9
1956	19.2	1.7	5.1	37.5	64.5	20.0	30.9
1957	19.0	1.8	4.8	18.3	45.0	18.2	40.4
1958	18.8	2.1	4.7	19.8	47.4	15.7	33.0
1959	20.7	2.1	5.0	29.2	58.0	12.2	21.0
1960	19.9	2.1	4.9	29.5	56.9	10.0	17.7
1961	22.6	2.4	4.7	29.2	59.3	5.3	9.0
1962	21.5	2.4	4.1	35.5	63.7	7.8	12.1
1963	22.5	2.5	3.8	41.8	70.5	7.5	10.7
1964	24.3	2.5	4.3	42.5	73.5	7.6	10.4
1965	23.4	2.7	4.7	43.3	76.4	8.2	10.8
1966	24.0	2.7	5.3	51.6	84.8	8.5	10.0
1967	25.0	3.2	5.4	56.9	91.1	6.7	7.4
1968	27.0	2.9	5.8	56.1	94.7	16.2	17.1
1969	23.5	2.5	7.1	56.9	90.8	16.4	18.1
1970	25.1	2.5	6.8	46.5	83.1	18.7	22.4
1971	25.5	2.5	7.4	56.9	94.1	11.4	12.2
1972	25.1	3.0	7.7	54.0	92.3	5.1	5.6
1973	26.1	3.6	8.1	49.7	90.2	7.8	8.7
1974	28.6	4.0	8.4	69.5	113.2	7.1	6.2
1975	27.7	3.5	9.1	56.5	98.7	36.3	36.8
1976	29.2	3.2	10.3	65.6	112.1	40.5	36.1
1977	23.5	4.3	9.9	72.8	112.4	27.4	24.4
1978	33.7	4.3	11.2	75.7	129.1	31.5	24.5
1979	33.2	4.8	11.2	82.6	137.9	25.7	18.6
1980	38.4	5.1	11.0	91.4	155.6	16.5	10.6
1981	42.5	4.4	12.7	82.0	150.6	49.0	32.5
1982	37.2	3.2	13.5	68.9	131.8	71.5	54.0
1983	33.2	3.3	12.8	70.3	125.2	46.9	37.5
1984	35.8	2.8	13.9	62.1	122.6	64.7	52.8
1985	45.6	2.6	14.1	58.7	124.5	77.3	62.1
1986	53.1	2.6	14.8	84.2	161.9	51.4	31.7
1987	55.3	3.2	15.4	72.2	152.6	31.4	20.6
1988	58.7	3.0	15.5	85.6	168.8	26.7	15.8
1989 3/	60.5	3.2	15.7	77.0	162.4	23.8	14.7

1/ Food use includes shipments to U.S. territories. 2/ Includes residual. 3/ Forecast.

Source: National Agricultural Statistics Service, USDA.

Appendix table 15--Prices and ending stocks for rice, 1953-1989

Crop year	Ending stocks			Farm price	Loan rate	Target price	Direct payment
	CCC 1/	Free	Total				
	Mil. cwt			\$/cwt			
1953	1.2	6.3	7.5	4.93	4.84	---	---
1954	18.4	8.3	26.7	4.25	4.92	---	---
1955	27.4	7.2	34.6	5.00	4.66	---	---
1956	12.6	7.4	20.0	4.93	4.57	---	---
1957	12.0	6.2	18.2	5.16	4.72	---	---
1958	9.5	6.2	15.7	4.96	4.48	---	---
1959	6.9	5.3	12.2	4.60	4.38	---	---
1960	4.1	5.9	10.0	4.41	4.42	---	---
1961	0.3	5.0	5.3	5.20	4.71	---	---
1962	1.9	5.9	7.8	5.10	4.71	---	---
1963	1.4	6.1	7.5	4.92	4.71	---	---
1964	1.0	6.6	7.6	4.87	4.71	---	---
1965	0.6	7.6	8.2	4.98	4.50	---	---
1966	0.2	8.3	8.5	4.80	4.50	---	---
1967	0.0	6.7	6.7	5.12	4.55	---	---
1968	6.3	9.9	16.2	4.90	4.60	---	---
1969	6.4	10.0	16.4	5.32	4.72	---	---
1970	9.5	9.2	18.7	5.41	4.86	---	---
1971	2.7	8.7	11.4	5.62	5.07	---	---
1972	0.1	5.0	5.1	7.20	5.27	---	---
1973	0.0	7.8	7.8	15.30	6.07	---	---
1974	0.0	7.1	7.1	11.40	7.54	---	---
1975	19.2	17.1	36.3	8.35	8.52	---	---
1976	18.7	21.8	40.5	7.02	6.19	8.25	0.00
1977	10.8	16.6	27.4	9.49	6.19	8.25	0.00
1978	8.3	23.2	31.5	8.16	6.40	8.53	0.78
1979	1.7	24.0	25.7	10.50	6.79	9.05	0.00
1980	0.0	16.5	16.5	12.80	7.12	9.49	0.00
1981	17.5	31.5	49.0	9.05	8.01	10.68	0.28
1982	22.3	49.2	71.5	7.91	8.14	10.85	2.71
1983	25.0	21.9	46.9	8.57	8.14	11.40	2.77
1984	44.3	20.4	64.7	8.04	8.00	11.90	3.76
1985	43.6	33.7	77.3	6.53	8.00	11.90	3.90
1986	8.7	42.7	51.4	3.75	7.20	11.90	4.70
1987	0.0	31.4	31.4	7.27	6.84	11.66	4.82
1988	0.0	26.7	26.7	6.83	6.63	11.15	4.31
1989 2/	0.0	23.8	23.8	NA	6.50	10.80	3.56

NA = Not available.

--- = Not applicable.

1/ Commodity Credit Corporation. 2/ Estimated.

Appendix table 16--Provisions under Food Security Act of 1985 and its modifications

Item	Unit	Crop year					
		1985	1986	1987	1988	1989	1990
Target price	\$/cwt	11.90	11.90	11.66	11.15	10.80	10.71
Statutory loan rate	"	8.00	7.20	6.84	6.63	6.50	6.50
Acreage reduction/paid diversion	Pct.	20/15	35	35	25	25	20
Participation rate	"	90	94	96	94	94	92

NA = Not available.

Appendix table 17--Class loan rates and differentials, 1984-1990

Item	Crop year						
	1984	1985	1986	1987	1988	1989	1990
	\$/cwt						
Milled rice:							
Long whole kernels	14.96	14.53	12.44	11.36	10.89	10.81	10.84
Medium and short whole kernels	10.81	10.50	10.44	10.36	9.89	9.81	9.84
Broken kernels	6.20	6.02	4.98	5.68	5.45	5.41	5.42
Differential (milled basis) 1/	4.15	4.03	2.00	1.00	1.00	1.00	1.00
Rough rice 2/:							
Average, all classes	8.00	8.00	7.20	6.84	6.63	6.50	6.50
Average, long grain	8.71	8.68	7.52	7.03	6.75	6.68	6.68
Average, medium grain	6.67	6.49	6.36	6.54	6.33	6.13	6.21
Average, short grain	6.65	6.49	6.44	6.39	5.98	5.98	6.12

NA = Not available.

1/ The loan differential (milled basis) is the difference between the class whole kernel loan rates.

2/ The rough rice loan rate for each class of rice is the sum of the whole kernels' loan rate weighted by its milling yield (average 56 percent) and the broken kernels' loan rate weighted by its milling yield (average 12 percent).

Appendix table 18--World market rice prices, loan rate basis 1/

Date	Milled kernel rates				Rough rates		
	Long	Medium	Short	Broken	Long	Medium	Short
	Cents/lb.				\$/cwt		
1986:							
April 11	6.78	7.36	7.36	3.40	4.19	4.47	4.53
April 18	6.78	5.86	5.86	3.39	4.18	3.65	3.70
April 29 - May 6	6.68	5.73	5.74	3.34	4.13	3.58	3.62
May 13	5.90	4.99	5.00	2.95	3.65	3.12	3.06
May 20	5.83	4.89	4.89	2.91	3.60	3.06	3.10
May 27 - June 24	5.78	4.79	4.79	2.89	3.57	3.00	3.04
July 1 - July 22	5.89	4.79	4.79	2.94	3.63	3.01	3.05
July 29 - August 5	6.07	4.96	4.96	3.04	3.75	3.11	3.15
August 12 - September 2	6.15	5.04	5.04	3.08	3.80	3.16	3.21
September 9 - September 30	5.90	4.81	4.81	2.95	3.64	3.02	3.06
October 7 - October 14	5.84	4.91	4.92	2.92	3.60	3.07	3.11
October 21 - November 18	5.85	5.06	5.07	2.93	3.62	3.15	3.20
November 25 - December 9	5.69	5.06	5.07	2.85	3.52	3.15	3.19
December 16 - December 30	5.57	4.95	4.95	2.78	3.44	3.07	3.12
1987:							
January 20 - March 31	5.70	5.12	5.06	2.85	3.53	3.23	3.13
April 7 - April 21	5.87	5.28	5.22	2.94	3.63	3.34	3.23
April 28	5.98	5.28	5.21	2.99	3.70	3.34	3.23
May 5 - May 19	5.98	5.38	5.31	2.99	3.70	3.40	3.29
May 26 - June 23	6.11	5.52	5.45	3.06	3.78	3.49	3.37
June 30	6.00	5.39	5.32	3.00	3.71	3.41	3.30
July 7 - July 21	5.89	5.29	5.22	2.95	3.65	3.35	3.23
July 28	6.02	5.45	5.38	3.01	3.73	3.44	3.33
August 4	6.15	5.58	5.51	3.07	3.81	3.52	3.41
August 11	6.27	5.69	5.62	3.13	3.88	3.59	3.48
August 18	6.39	5.69	5.62	3.19	3.95	3.60	3.48
August 25	6.51	5.84	5.76	3.25	4.03	3.69	3.57
September 1	6.76	6.11	6.03	3.38	4.18	3.86	3.73
September 8	7.28	6.56	6.49	3.64	4.51	4.15	4.02
September 15	7.90	7.22	7.14	3.95	4.89	4.56	4.41
September 22	8.66	7.95	7.87	4.33	5.36	5.01	4.86
September 29 - October 6	9.54	8.80	8.73	4.77	5.91	5.55	5.39
October 13 - October 27	10.21	9.42	9.35	5.10	6.32	5.94	5.77
November 3 - November 10	9.88	9.05	8.99	4.94	6.12	5.71	5.55
November 17 - November 24	9.81	9.04	8.93	4.91	5.90	5.63	5.43
December 1 - December 8	9.42	8.57	8.47	4.71	5.66	5.35	5.16
December 15 - December 29	9.42	8.43	8.32	4.71	5.66	5.27	5.08
1988:							
January 5	9.42	8.43	8.32	4.71	5.66	5.27	5.08
January 12	9.90	8.84	8.73	4.95	5.95	5.52	5.34
January 19 - January 26	11.22	9.72	9.61	5.61	6.74	6.10	5.90
February 2 - March 22	11.66	10.24	10.14	5.83	7.01	6.41	6.21
March 29	11.61	10.25	10.15	5.80	6.98	6.41	6.22
April 5 - April 19	11.83	10.46	10.36	5.92	7.12	6.54	6.35
April 26	11.56	10.31	10.21	5.78	6.95	6.44	6.25
May 3 - May 10	11.02	9.97	9.88	5.51	6.63	6.22	6.03
May 17 - May 31	10.58	9.72	9.62	5.29	6.37	6.05	5.86
June 7	10.09	9.28	9.18	5.04	6.07	5.78	5.59
June 14	10.28	9.44	9.34	5.14	6.19	5.88	5.69
June 21-28	10.69	9.87	9.77	5.35	6.43	6.14	5.95
July 5-12	10.98	10.17	10.08	5.49	6.61	6.32	6.13
July 19 - August 2	11.13	10.33	10.25	5.56	6.69	6.42	6.23
August 9	10.85	9.99	9.91	5.42	6.52	6.22	6.03
August 16	10.55	9.72	9.64	5.27	6.34	6.05	5.87
August 23 - September 6	10.68	9.82	9.74	5.34	6.42	6.11	5.93
September 13	10.43	9.57	9.48	5.22	6.28	5.96	5.78
September 20 - October 4	10.30	9.43	9.34	5.15	6.19	5.87	5.69
October 11 - October 25	10.13	9.30	9.21	5.07	6.10	5.79	5.61
November 1	10.03	9.23	9.16	5.01	6.18	5.78	5.53
November 8 - December 13	9.87	9.08	9.01	4.94	6.10	5.69	5.44
December 20 - December 27	9.55	8.80	8.74	4.77	5.90	5.51	5.27

See footnote at end of table.

Continued--

Appendix table 18--World market rice prices, loan rate basis 1/--Continued

Date	Milled kernel rates				Rough rates		
	Long	Medium	Short	Broken	Long	Medium	Short
	Cents/lb.				\$/cwt		
1989:							
January 3 - January 10	9.55	8.80	8.74	4.77	5.90	5.51	5.27
January 17 - January 24	9.79	9.12	9.07	4.89	6.05	5.71	5.46
January 31 - February 21	9.97	9.29	9.23	4.98	6.16	5.82	5.55
February 28 - March 7	10.11	9.46	9.38	5.06	6.25	5.92	5.64
March 14 - April 4	10.33	9.69	9.62	5.17	6.39	6.06	5.78
April 11	10.56	9.85	9.78	5.28	6.53	6.17	5.88
April 18	10.64	9.93	9.86	5.32	6.58	6.22	5.93
April 25 - May 2	11.17	10.36	10.28	5.59	6.91	6.49	6.19
May 9 - May 16	11.41	10.69	10.60	5.71	7.05	6.69	6.37
May 23	11.60	10.83	10.74	5.80	7.17	6.78	6.46
May 30	11.91	11.09	11.00	5.96	7.36	6.94	6.62
June 6 - June 20	12.20	11.33	11.24	6.10	7.54	7.10	6.76
June 27	13.20	12.07	11.98	6.60	8.16	7.57	7.22
July 5	13.78	12.79	12.69	6.89	8.51	8.01	7.64
July 11 - August 1	14.41	13.39	13.30	7.21	8.91	8.39	8.00
August 8	14.15	12.91	12.82	7.07	8.74	8.10	7.73
August 15	13.00	11.82	11.74	6.50	8.04	7.42	7.08
August 22 - September 5	12.46	11.23	11.11	6.23	7.70	7.02	6.76
September 12	12.23	11.08	10.96	6.12	7.56	6.92	6.68
September 19 - October 10	11.74	10.57	10.45	5.87	7.26	6.61	6.38
October 17 - October 24	11.43	10.29	10.17	5.72	7.07	6.43	6.21
October 31	10.55	9.67	9.55	5.27	6.52	6.03	5.81
November 7 - November 14	10.16	9.37	9.25	5.08	6.28	5.84	5.63
November 21 - December 26	9.76	9.06	8.94	4.88	6.03	5.64	5.43
1990:							
January 2 - February 13	9.76	9.06	8.94	4.88	6.03	5.64	5.43
February 20	9.54	8.70	8.59	4.77	5.90	5.43	5.23
February 27-March 27	9.41	8.46	8.35	4.70	5.81	5.29	5.10
April 3 - April 17	9.31	8.25	8.14	4.66	5.75	5.17	4.98
April 24	9.11	8.10	7.99	4.56	5.63	5.07	4.89
May 1	8.87	7.95	7.84	4.43	5.48	4.97	4.79
May 8 - May 22	8.63	7.77	7.66	4.32	5.34	4.86	4.68
May 29	8.53	7.66	7.60	4.26	5.36	4.93	4.91
June 5 - June 19	8.45	7.58	7.52	4.22	5.31	4.88	4.86
June 26 - July	8.36	7.48	7.41	4.18	5.25	4.82	4.79

1/ Repayment rates for 1985-crop loans are the world price for the specified class of rice. Repayment rates specified class of rice. Repayment rates for 1986 crop loans and 1987 crop loans are the higher of the world price or 50 percent of the loan rate for the specified class of rice. Repayment rates for 1988 crop loans are the higher of the world price or 60 percent of the loan rate for the specified class of rice. Repayment rates for 1989 crop loans are the higher of the world price or 70 percent of the loan rate for the specified class of rice.

Appendix table 19--Rough rice: Average price received by farmers by month and crop year 1/

Item	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90

	\$/cwt									
Month:										
August	10.60	11.80	7.31	8.41	8.22	7.86	4.02	3.82	7.49	7.42
September	10.20	10.70	7.75	8.48	8.17	7.55	3.86	4.34	6.97	7.59
October	10.90	10.20	7.73	8.80	8.08	7.73	3.83	6.25	6.85	7.37
November	11.60	9.86	7.78	8.80	8.13	7.84	3.90	7.53	6.81	6.94
December	13.10	9.34	8.06	8.66	8.08	7.71	3.74	7.64	6.68	6.95
January	13.20	9.34	8.05	8.57	8.09	7.90	3.55	7.93	6.58	7.40
February	13.00	9.46	8.26	8.85	7.72	7.86	3.84	9.37	6.67	7.52
March	13.40	8.99	7.99	8.63	8.17	7.60	3.62	9.22	6.60	7.50
April	13.80	8.54	8.23	8.49	8.20	5.32	3.63	8.92	6.74	7.31
May	13.30	8.55	8.23	8.24	7.91	4.52	3.71	7.97	6.78	7.21
June	11.90	8.54	7.88	8.20	7.83	4.04	3.62	7.69	7.05	
July	12.80	8.25	7.95	8.18	7.54	3.86	3.49	7.94	7.45	
Season average price:										
12 months 1/	12.80	9.05	7.91	8.57	8.04	6.53	3.75	7.27	6.83	(7.25-7.50)
5 months 2/	11.30	10.40	7.69	8.63	8.14	7.73	3.87	5.71	6.84	7.24
State:										
Arkansas	12.30	9.37	8.61	9.18	8.51	6.70	3.68	7.60	6.90	NA
California	14.10	7.35	6.65	6.96	6.43	5.33	3.18	6.72	6.15	NA
Louisiana	12.00	9.36	8.05	8.90	8.20	7.24	4.03	7.65	6.90	NA
Mississippi	12.70	9.14	8.66	9.53	8.88	7.10	3.91	7.90	7.02	NA
Missouri	12.30	9.50	8.65	9.49	8.70	7.05	3.57	7.41	7.22	NA
Texas	12.80	10.40	8.94	9.97	8.90	7.38	4.22	8.07	7.24	NA
United States	12.80	9.05	7.91	8.57	8.04	6.53	3.75	7.27	6.83	(7.25-7.50)
Type:										
Long	12.50	9.70	8.56	9.36	8.66	6.75	3.82	7.77	6.96	(7.25-7.50)
Medium	13.30	8.06	6.91	7.13	6.66	5.87	3.55	6.36	6.47	(7.25-7.50)

NA = Not available.

1/ Crop year--August-July. 2/ First 5-months of marketing year--August-December.

Source: Crop Values and Agricultural Prices, National Agricultural Statistics Service, USDA.

Appendix table 20--Milled rice: Average price, f.o.b. mills, at selected milling centers

Year and type	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Simple average
	\$/cwt, bagged												
Long 1/:													
	Southwest Louisiana												
1981/82	26.40	24.30	23.25	21.90	20.75	19.80	18.60	18.00	17.55	17.60	17.20	17.00	20.20
1982/83	17.50	17.40	17.50	17.55	18.40	18.35	17.50	17.50	18.50	18.50	18.60	18.75	18.00
1983/84	19.40	19.75	19.35	19.50	19.50	19.50	19.25	19.25	19.25	19.25	19.25	19.25	19.40
1984/85	18.25	18.25	17.60	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	17.70	18.00
1985/86	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	15.50	12.70	12.75	12.42	16.10
1986/87	10.60	10.25	10.25	9.90	10.10	10.10	9.95	9.90	10.40	10.40	10.50	10.50	10.25
1987/88	10.70	12.05	17.70	19.75	19.70	20.60	24.45	24.50	24.00	20.75	18.85	17.90	19.25
1988/89	16.80	16.10	14.50	14.50	14.10	14.00	14.20	13.80	13.50	15.40	15.50	15.60	14.85
1989/90	16.40	15.90	15.60	15.00	14.65	15.40	15.65	15.40	15.65	15.80	15.65		
	Houston, Texas												
1981/82	25.00	24.85	23.50	22.60	22.00	21.75	20.20	19.20	19.00	19.00	18.75	17.75	21.15
1982/83	18.25	18.75	18.00	18.00	18.00	19.00	19.00	19.00	19.00	19.00	19.10	19.40	18.70
1983/84	19.50	19.65	20.00	20.00	20.00	20.25	20.25	20.25	20.10	19.50	19.50	19.50	19.90
1984/85	19.40	18.70	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	17.40	18.70
1985/86	18.70	18.30	18.30	18.30	18.30	17.90	17.50	17.30	17.25	13.75	13.50	13.00	16.85
1986/87	13.00	13.00	13.00	13.00	13.00	11.15	10.50	10.50	10.50	10.50	10.50	10.50	11.60
1987/88	10.50	11.25	19.00	21.00	21.00	21.00	23.65	24.05	24.00	21.70	20.50	20.50	19.85
1988/89	18.20	16.00	15.25	15.00	15.00	15.00	15.00	15.00	15.00	15.15	15.50	16.50	15.55
1989/90	16.50	16.50	16.50	16.00	15.70	15.50	16.25	16.25	16.25	16.25	16.25		
	Arkansas												
1981/82	26.40	24.30	23.05	22.30	20.85	19.60	19.00	18.20	17.55	17.40	17.20	16.60	20.20
1982/83	17.10	17.00	17.00	17.55	18.40	18.35	17.50	17.50	18.00	18.40	18.50	18.50	17.80
1983/84	18.50	18.50	18.85	19.00	19.00	19.00	18.50	18.50	18.50	18.50	18.50	18.50	18.65
1984/85	18.40	18.25	18.25	18.25	18.00	18.00	18.00	17.94	17.75	17.80	17.95	17.75	18.00
1985/86	17.75	17.50	17.40	17.25	17.25	17.25	17.25	17.25	15.50	13.25	13.00	13.00	16.15
1986/87	11.90	11.55	11.75	11.90	11.90	11.90	11.90	11.90	11.65	11.50	11.75	11.75	11.80
1987/88	11.90	13.25	18.50	20.50	20.20	21.20	24.05	24.05	24.00	22.50	21.15	19.00	20.00
1988/89	18.30	16.90	15.10	14.75	15.10	14.80	14.75	14.75	14.75	15.60	15.85	16.95	15.65
1989/90	17.20	16.65	15.95	15.70	15.75	15.90	16.00	16.00	16.00	16.00	16.00		
Medium 1/:													
	Southwest Louisiana												
1981/82	26.40	24.20	22.90	21.15	20.00	18.75	17.75	16.10	15.95	16.40	16.20	16.00	19.30
1982/83	16.50	16.50	16.45	16.65	17.75	17.30	16.50	16.50	16.50	17.10	17.50	17.50	16.90
1983/84	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
1984/85	16.00	16.00	15.50	15.50	15.50	15.50	15.50	16.00	16.20	16.30	18.00	16.20	16.00
1985/86	16.00	16.00	16.00	16.00	16.00	16.00	15.70	15.50	14.60	11.90	12.00	11.35	14.75
1986/87	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.50	11.25	11.15	11.20	11.20	10.45
1987/88	11.10	11.95	16.60	17.25	16.75	18.50	19.80	20.15	20.00	18.00	17.40	16.70	17.00
1988/89	16.40	16.20	14.50	14.50	14.00	13.90	13.75	13.50	13.50	14.60	14.65	15.75	14.60
1989/90	15.55	15.30	14.80	14.30	14.04	14.80	15.13	15.13	15.50	15.75	15.65		
	Arkansas												
1981/82	26.40	24.10	22.95	21.30	19.85	18.60	17.90	17.05	16.50	16.40	15.90	15.60	19.40
1982/83	16.10	16.50	16.10	16.65	17.75	17.10	16.50	16.50	16.60	17.10	17.50	17.50	16.80
1983/84	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.20	17.00	17.00	17.00	17.35
1984/85	16.90	16.70	16.35	16.20	16.00	15.75	16.25	15.95	16.30	16.25	16.25	15.90	16.25
1985/86	16.00	16.00	16.20	16.50	16.50	16.50	16.50	16.25	14.80	12.35	12.50	12.50	15.20
1986/87	12.25	11.60	12.00	12.00	12.00	12.00	12.65	12.65	12.65	12.35	12.25	12.25	12.20
1987/88	12.25	12.65	16.70	18.00	17.85	18.70	20.50	20.50	20.50	19.00	18.90	18.00	17.80
1988/89	17.30	16.25	14.75	15.00	15.00	14.70	14.75	14.75	15.25	15.40	15.40	16.75	15.45
1989/90	17.20	16.65	15.95	15.45	15.25	15.40	15.50	15.50	15.50	15.50	15.50		
Medium 2/:													
	California												
1981/82	30.00	27.60	24.50	22.80	21.40	20.50	19.10	18.45	16.90	16.90	16.70	16.40	20.95
1982/83	16.25	16.10	15.55	15.50	15.50	16.50	16.00	16.00	16.00	15.90	15.95	15.75	15.90
1983/84	15.65	15.50	15.70	15.50	15.50	15.50	15.50	15.40	15.25	15.25	15.25	15.25	15.45
1984/85	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25
1985/86	15.25	15.60	16.00	15.95	15.90	16.00	15.75	15.75	15.75	15.59	15.25	15.25	15.65
1986/87	15.00	14.50	13.75	12.65	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	13.00
1987/88	12.50	13.00	16.15	17.00	17.00	16.85	18.50	18.50	18.50	18.00	18.00	18.00	16.85
1988/89	17.85	17.75	16.25	15.75	15.75	15.50	15.50	16.45	17.25	17.25	17.25	17.90	16.70
1989/90	18.45	18.25	17.50	16.55	16.00	15.75	15.75	15.70	15.50	14.90	15.00		
Short 2/:													
1981/82	30.00	28.25	25.75	23.90	22.00	22.00	20.25	19.50	18.25	18.25	18.25	18.10	22.05
1982/83	17.20	16.70	15.55	15.50	15.50	16.90	16.00	16.00	16.00	16.00	16.00	16.00	16.10
1983/84	15.80	15.50	15.70	15.50	15.50	15.50	15.50	15.38	15.25	15.25	15.25	15.25	15.45
1984/85	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25	15.25
1985/86	15.25	15.60	16.00	15.95	15.90	16.00	15.75	15.75	15.75	15.60	15.25	15.15	15.65
1986/87	15.00	14.50	13.75	12.80	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	13.00
1987/88	12.50	13.00	16.15	17.00	17.00	16.85	18.50	18.50	18.50	18.00	18.00	18.00	16.85
1988/89	17.85	17.75	16.25	15.75	15.75	15.50	15.50	16.40	17.25	17.25	17.25	17.90	16.70
1989/90	18.20	18.25	17.50	16.55	16.00	15.60	15.75	15.70	15.50	14.90	15.00		

1/ U.S. No. 2--broken not to exceed 4 percent. 2/ U.S. No. 1.

Source: Rice Market News, Agricultural Marketing Service, USDA.

Appendix table 21--Rice byproducts: Monthly average price, southwest Louisiana

Year and type	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Simple average
\$ / cwt, bagged 1/													
Milled second head:													
1981/82	13.00	11.90	11.00	11.00	11.00	10.60	10.00	8.60	9.25	10.00	10.00	10.00	10.55
1982/83	10.00	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75
1983/84	9.75	10.25	10.25	10.25	10.25	10.25	10.25	10.80	10.20	10.00	10.00	10.00	10.20
1984/85	8.50	8.75	8.80	8.00	8.00	8.00	9.00	9.20	9.25	10.00	10.25	10.25	9.00
1985/86	10.25	10.25	10.17	10.00	10.00	10.00	10.25	10.25	8.80	7.75	7.75	7.75	9.45
1986/87	7.75	7.75	7.75	7.65	7.75	7.75	7.75	7.70	7.60	7.60	5.85	5.65	7.40
1987/88	5.75	6.00	6.90	7.50	7.50	7.75	7.70	7.75	7.75	7.75	7.85	8.25	7.40
1988/89	8.15	8.10	8.50	8.00	8.00	8.00	10.05	9.70	9.70	10.70	10.60	10.45	9.15
1989/90	9.95	9.65	9.00	8.10	8.00	8.00	8.50	8.50	8.50	8.50	8.50		
Rice bran, f.o.b. mills: \$ / ton 2/													
1981/82	51.50	49.60	52.75	59.90	73.65	82.50	64.35	50.40	55.50	57.50	61.10	NQ	59.90
1982/83	52.80	53.00	54.00	77.65	85.00	77.50	52.15	47.25	59.65	70.30	61.25	NQ	62.80
1983/84	62.15	70.00	94.00	108.35	120.85	98.50	57.50	50.00	67.50	60.00	NQ	59.00	77.10
1984/85	69.15	49.50	45.15	53.75	69.15	85.00	77.50	53.25	40.50	45.67	45.00	47.50	56.75
1985/86	43.35	40.00	20.00	42.50	62.50	86.00	65.00	51.65	NQ	25.75	20.00	18.35	43.20
1986/87	16.25	23.80	26.50	34.00	53.15	50.00	36.70	28.40	23.50	20.65	18.80	17.00	29.05
1987/88	19.50	27.40	46.70	54.50	54.20	68.35	49.65	47.25	60.00	45.00	44.20	85.00	50.15
1988/89	64.00	58.10	64.00	64.00	70.65	71.40	52.25	64.10	65.00	45.85	46.65	48.75	59.55
1989/90	55.75	55.40	60.25	69.00	76.20	84.40	51.00	49.65	51.50	71.50	75.30		
Rice millfeed, f.o.b. mills: \$ / ton 2/													
1981/82	22.60	10.90	17.75	22.00	30.65	29.75	16.50	13.15	13.40	15.40	19.40	NQ	19.25
1982/83	16.00	16.75	15.25	26.15	35.00	45.00	13.50	15.25	19.35	23.60	22.10	23.00	22.60
1983/84	24.00	25.40	33.30	42.10	61.65	53.00	22.50	24.75	31.20	21.25	25.00	27.75	32.65
1984/85	23.50	18.75	18.65	19.40	24.50	31.75	34.70	22.00	17.00	16.90	15.00	14.50	21.40
1985/86	13.00	13.00	8.00	15.40	19.50	34.10	NQ	19.50	20.85	8.50	5.00	4.50	14.65
1986/87	5.15	10.00	10.00	11.25	15.00	13.75	8.15	6.15	4.50	3.50	3.65	4.25	7.95
1987/88	8.50	9.50	21.35	22.70	21.50	28.35	17.40	18.85	22.50	16.00	19.50	40.00	20.50
1988/89	21.50	17.90	18.00	21.50	24.00	23.60	20.00	19.00	20.00	15.00	15.65	16.00	19.35
1989/90	17.15	16.75	14.00	22.65	23.70	27.70	14.20	14.65	16.50	22.40	25.00		

NQ = Not quoted.

1/ U.S. No. 4 or better. 2/ Prices quoted as bulk.

Source: Rice Market News, Agricultural Marketing Service, USDA.

Appendix table 22--Brewers' prices: Monthly average price for Arkansas brewers' rice and New York brewers' corn grits

Year and state	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Simple average
\$ / cwt													
Arkansas:													
1981/82	9.30	9.00	8.55	8.25	8.25	8.20	7.60	7.40	7.30	7.00	7.00	6.80	7.90
1982/83	6.55	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
1983/84	6.50	6.75	7.00	7.00	6.90	6.76	6.63	6.50	6.62	6.70	6.90	7.10	6.78
1984/85	7.25	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.15	7.00	6.80	6.75	7.15
1985/86	6.75	6.70	6.50	6.50	6.50	6.30	6.00	6.00	5.75	5.50	5.50	5.50	6.15
1986/87	5.20	5.00	4.75	4.75	4.65	4.45	4.20	4.20	4.20	4.20	4.10	3.75	4.45
1987/88	4.00	4.15	6.00	6.20	6.10	6.10	6.95	7.25	7.25	6.90	7.40	8.35	6.40
1988/89	8.50	8.70	8.75	8.75	8.75	8.60	10.45	10.20	10.20	11.00	11.00	10.65	9.65
1989/90	9.65	9.00	8.50	8.00	7.75	7.75	7.75	7.45	6.85	6.60	6.60		
New York:													
1980/81	11.60	12.11	12.26	12.74	12.42	12.44	12.60	12.64	12.72	12.42	12.57	12.85	12.45
1981/82	12.22	10.45	10.16	9.96	9.97	9.97	10.28	10.48	10.82	10.75	10.66	10.43	10.51
1982/83	9.91	9.75	9.60	9.74	9.78	10.07	10.52	10.82	11.35	11.32	11.58	12.06	10.54
1983/84	12.85	13.06	12.77	12.64	11.96	11.81	11.95	12.58	12.99	12.95	13.19	13.01	12.65
1984/85	12.90	12.64	11.49	11.33	11.03	11.20	11.50	11.86	11.42	11.45	11.54	11.46	11.65
1985/86	11.40	11.59	10.62	10.83	11.11	10.91	10.71	10.81	10.75	11.12	11.26	10.98	11.01
1986/87	10.30	9.84	9.85	9.84	9.46	9.40	9.20	9.42	9.60	10.02	9.97	9.48	9.70
1987/88	9.22	9.34	9.51	9.56	9.52	9.66	9.76	9.78	9.81	9.82	11.42	12.23	9.97
1988/89	11.67	11.50	11.56	11.37	11.54	11.47	11.32	11.56	11.37	11.99	11.47	11.54	11.53
1989/90	11.23	11.35	11.50	11.55	11.47	11.49	11.51	11.66	12.01	12.21	12.12		

Sources: Rice Market News, Agricultural Marketing Service, USDA.
Milling and Baking News.

Appendix table 23--Thailand milled rice prices, f.o.b. Bangkok 1/

Type	1985/86		1986/87		1987/88		1988/89		1989/90	
	BOT 2/	NPQ 3/	BOT	NPQ	BOT	NPQ	BOT	NPQ	BOT	NPQ
	\$/metric ton									
100% 1st grade:										
August	250	NA	261	NA	270	NA	355	NA	504	NA
September	250	NA	256	NA	296	NA	355	NA	390	NA
October	250	NA	255	NA	319	NA	355	NA	374	NA
November	250	NA	253	NA	318	NA	355	NA	356	NA
December	250	NA	245	NA	312	NA	340	NA	355	NA
January	280	NA	249	NA	330	NA	335	NA	355	NA
February	273	NA	248	NA	355	NA	NA	NA	355	NA
March	257	NA	255	NA	349	NA	324	NA	343	NA
April	246	NA	257	NA	349	NA	348	NA	341	NA
May	240	NA	258	NA	348	NA	357	NA	332	NA
June	246	NA	257	NA	351	NA	383	NA	320	NA
July	250	NA	258	NA	355	NA	410	NA		
Average	253	NA	254	NA	329	NA	356	NA		
100% 2nd grade:										
August	220	193	228	191	238	208	315	274	373	337
September	220	197	221	179	263	255	315	279	360	328
October	220	213	220	180	287	272	315	279	344	314
November	220	202	218	180	286	260	315	278	326	271
December	220	202	210	172	279	261	300	265	325	279
January	245	191	214	178	295	295	290	268	325	284
February	247	188	213	191	320	310	285	276	325	307
March	231	186	220	204	314	301	294	282	313	297
April	221	178	227	204	314	297	318	302	311	284
May	215	177	228	202	308	274	327	316	304	267
June	219	179	227	198	311	272	353	337	290	264
July	220	185	227	196	315	279	380	357		
Average	225	191	221	190	294	273	317	293		
5% broken:										
August	210	NA	214	185	222	204	305	269	363	332
September	210	NA	206	173	251	250	305	274	350	320
October	210	NA	205	175	277	267	305	273	334	304
November	210	NA	205	174	276	254	305	272	316	264
December	210	NA	195	167	269	256	290	260	315	272
January	240	NA	199	172	285	291	280	264	315	277
February	234	NA	198	186	310	305	275	269	315	300
March	217	NA	206	198	304	294	284	277	303	289
April	206	NA	212	199	304	288	308	298	301	276
May	200	NA	213	198	298	257	317	310	290	260
June	204	NA	212	193	301	266	343	331	280	NA
July	205	NA	212	191	305	273	370	351		
Average	213	NA	206	184	284	267	307	287		

NA = Not available.

1/ Includes export premium, export tax, and cost of bags. Packed in bags of 100 kg net. 2/ Thailand's posted Board of Trade prices. 3/ Nominal price quotes, Bangkok. In mid-1984, price quotes began to vary significantly from the posted Board of Trade prices. Since then, the nominal quotes have appeared to be more representative of known actual prices than those posted by the Board of Trade for most grades of rice.

Appendix table 24--Milled rice: Average C & F ARAG quotations 1/

Type	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90
	\$/metric ton					
U.S. no. 2 milled, 4%, container, FAS:						
August	500	477	299	316	325	354
September	485	475	285	349	303	357
October	493	475	305	NQ	303	324
November	496	475	303	415	310	314
December	496	470	249	413	300	312
January	496	454	224	442	292	338
February	496	455	224	496	290	356
March	496	455	224	493	290	348
April	496	383	224	455	292	342
May	496	325	240	420	317	338
June	495	291	267	329	356	336
July	490	286	277	355	368	
Average	495	418	260	408	312	
Thai SWR 100% Grade A, bulk 2/:						
August	382	265	303	300	380	448
September	360	264	297	312	380	433
October	350	283	292	349	378	407
November	302	310	275	341	375	384
December	294	290	260	338	375	376
January	292	290	260	365	360	379
February	290	270	262	395	360	395
March	280	269	276	396	360	394
April	274	258	282	383	365	371
May	265	255	275	377	400	379
June	265	280	273	366	412	396
July	250	283	268	383	437	
Average	300	276	279	359	382	
Thai SWR 100% Grade B, bulk 2/:						
August	333	237	243	250	322	386
September	317	239	230	280	320	369
October	301	239	225	316	320	359
November	272	260	219	303	320	331
December	260	245	215	304	320	322
January	258	240	218	328	315	328
February	254	235	236	357	320	350
March	255	234	244	359	325	343
April	241	223	246	340	328	326
May	244	222	241	340	360	309
June	244	229	238	311	389	308
July	228	230	235	324	402	
Average	267	236	232	318	337	

NQ = Not quoted.

1/ ARAG = composite of ports near Rotterdam.

2/ Thailand prices changed to bulk quote on May 15, 1985. Prior to this date Thai prices were quoted by the bag.

Source. Rice Market News, Agricultural Marketing Service, USDA.

Appendix table 25--World rice supply and utilization

Year	Area harvested	Yield 1/	--Production 2/--		Exports 3/	Total use 4/	Ending stocks 5/	Stocks to use ratio 6/
	Million hectares	Mt/ha	Rough	Milled				
1961/62	115.7	1.86	215.7	147.3	6.3	149.2	8.5	5.7
1962/63	119.6	1.91	228.2	155.2	7.3	151.3	12.4	8.2
1963/64	121.5	2.04	248.4	169.1	7.7	165.2	16.2	9.8
1964/65	125.3	2.12	265.6	180.8	8.2	179.8	17.3	9.6
1965/66	124.0	2.05	254.2	173.3	7.9	172.6	18.0	10.4
1966/67	125.7	2.09	262.5	179.3	7.8	178.7	18.6	10.4
1967/68	127.0	2.19	277.8	189.4	7.2	187.1	20.9	11.2
1968/69	128.7	2.23	287.0	195.6	7.5	191.8	24.8	12.9
1969/70	131.4	2.25	295.9	201.6	8.2	200.2	26.1	13.1
1970/71	132.6	2.36	313.4	213.6	8.6	211.0	28.8	13.6
1971/72	134.9	2.35	317.5	216.4	8.7	216.8	28.4	13.1
1972/73	132.7	2.31	307.2	209.6	8.4	214.6	23.4	10.9
1973/74	136.4	2.45	334.5	228.0	7.7	222.9	28.5	12.8
1974/75	137.9	2.41	332.0	226.3	7.3	226.7	28.2	12.4
1975/76	143.0	2.51	358.7	244.0	8.4	233.3	38.9	16.7
1976/77	141.4	2.46	348.5	237.0	10.6	238.1	37.8	15.9
1977/78	143.6	2.58	370.4	251.7	9.6	245.6	43.9	17.9
1978/79	143.8	2.69	387.4	263.7	12.0	253.5	54.1	21.3
1979/80	141.5	2.67	378.3	258.0	12.7	259.3	52.8	20.4
1980/81	144.2	2.76	398.7	271.0	13.2	275.8	48.0	17.4
1981/82	144.9	2.85	412.4	280.5	11.8	284.5	43.9	15.4
1982/83	140.4	2.99	420.4	286.3	11.9	286.4	43.8	15.3
1983/84	144.1	3.14	452.8	308.1	12.3	304.9	47.0	15.4
1984/85	144.1	3.25	468.3	318.9	11.3	310.4	55.5	17.9
1985/86	144.7	3.24	468.6	318.9	12.6	319.5	54.9	17.2
1986/87	145.1	3.23	468.5	318.7	12.9	322.8	50.8	15.7
1987/88	141.4	3.27	462.8	313.7	11.9	319.7	44.9	14.0
1988/89	145.3	3.36	487.6	330.2	15.2	328.1	46.9	14.3
1989/90 7/	146.2	3.45	504.8	340.8	12.7	334.1	53.6	16.1
1990/91 8/	145.8	3.46	504.8	340.8	13.0	340.6	53.9	15.8

1/ Yields are based on rough production. 2/ Production is expressed on both rough and milled basis; stocks, exports, and utilization are expressed on a milled basis. 3/ Exports quoted on calendar year basis. 4/ For countries for which stock data are not available, utilization estimates represent "apparent" utilization, i.e., they include annual stock level adjustments. 5/ Stocks data are based on an aggregate of different market 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 the USSR, North Korea, and parts of Eastern Europe. 6/ Stocks-to-use represents the ratio of marketing year ending stocks to total utilization. 7/ Preliminary. 8/ Forecast as of July 1990.

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

Appendix table 26--World rice production and stocks: Selected countries or regions 1/

Country or region	Crop year 2/						
	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91 as of July 1990
Million metric tons							
Production:							
Bangladesh	21.9	22.6	23.1	23.1	23.3	26.6	25.5
Burma	14.3	11.5	11.8	11.4	12.5	13.5	13.5
China	178.3	168.6	172.2	173.9	169.1	180.1	180.0
India	87.5	95.7	90.6	85.3	106.0	105.0	105.0
Indonesia	38.1	39.0	39.0	41.5	42.3	44.8	44.3
Japan	14.8	14.6	14.6	13.3	12.4	12.9	12.9
Korea, South	8.0	7.9	7.9	7.6	8.4	8.2	7.6
Pakistan	5.0	4.4	5.2	4.9	4.8	4.8	5.3
Thailand	19.9	20.3	18.9	18.0	21.1	21.0	21.0
Subtotal	387.8	384.6	383.3	379.0	399.9	416.9	415.1
Australia	0.9	0.7	0.6	0.8	0.8	0.9	0.8
Brazil	9.0	9.8	10.6	11.8	11.0	8.4	9.8
EC-12	1.9	2.0	1.9	1.9	2.0	2.0	2.2
All others	62.3	65.3	66.1	63.4	66.7	69.6	69.7
Total non-U.S.	461.9	462.4	462.5	456.9	480.4	497.8	497.6
United States	6.3	6.1	6.0	5.9	7.3	7.0	7.2
World total	468.2	468.6	468.5	462.8	487.6	504.8	504.8
Ending stocks 3/:							
Total foreign	53.5	52.4	49.1	43.9	46.0	52.9	53.1
United States	2.1	2.5	1.7	1.0	0.9	0.8	0.8
World total	55.5	54.9	50.8	44.9	46.9	53.6	53.9

1/ Production is rough basis, but ending stocks are milled basis. 2/ World rice harvest stretches over 6-8 months. Thus, crop year represents the crop harvested in late 1979 and early 1980 in the Northern Hemisphere and the crop harvested in early 1980 in the Southern Hemisphere. 3/ Stocks are based on an aggregate of different local marketing years, and should not be construed as representing world stock levels at a fixed point in time. In addition, stocks data are not available for all countries.

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

Appendix table 27--World rice trade (milled basis): Exports and imports of selected countries or regions

Country or region	Calendar year					
	1986	1987	1988	1989	1990 1/ as of July 1990	1991 2/ as of July 1990
	1,000 metric tons					
Exports:						
United States	2,401	2,444	2,247	2,973	2,450	2,400
Argentina	150	150	160	130	100	120
Australia	400	338	417	450	470	470
Burma	660	493	368	456	200	400
China	950	1,020	698	320	300	300
Taiwan	169	240	104	68	50	100
EC-12	1,136	981	920	963	974	286
Egypt	92	105	108	100	100	100
Guyana	38	69	56	26	30	30
India	200	350	200	400	400	250
Indonesia	220	100	0	104	50	0
Korea, North	80	154	199	175	150	150
Nepal	0	0	0	0	0	0
Pakistan	1,146	1,226	950	779	850	1,000
Thailand	4,321	4,355	4,791	6,037	4,000	4,500
Uruguay	246	190	244	251	200	150
Vietnam, Soc. Rep.	125	153	97	1,400	2,000	1,700
Other	271	560	371	537	403	355
World total	12,605	12,928	11,930	15,169	12,727	13,011
Imports:						
Bangladesh	90	746	350	400	200	200
Brazil	1,250	200	64	180	350	250
Canada	120	85	135	148	130	160
China	322	554	310	1,400	400	400
Cuba	200	150	200	200	200	200
Eastern Europe	291	296	246	245	240	320
EC-12	1,343	1,162	1,178	1,237	1,120	1,100
India	10	5	650	500	75	100
Indonesia	28	155	33	412	40	50
Iran	450	1,000	400	1,000	900	1,000
Iraq	500	524	603	570	550	580
Ivory Coast	361	445	212	350	250	350
Korea, South	200	0	0	0	0	0
Kuwait	90	90	90	90	90	90
Madagascar	150	125	70	130	130	130
Malaysia	300	280	350	360	350	360
Mexico	5	0	0	174	130	100
Nigeria	320	400	240	130	150	200
Peru	186	211	17	162	350	250
Philippines	150	0	181	195	675	250
Saudi Arabia	500	500	431	525	525	530
Senegal	345	355	360	410	385	400
South Africa	190	268	237	280	300	300
Sri Lanka	220	102	180	292	200	200
Syria	130	120	120	140	140	140
U.A. Emirates	135	150	150	150	150	150
USSR	363	598	498	600	640	700
Vietnam, Soc. Rep.	482	344	175	50	0	0
Other	3,510	3,329	3,486	3,634	3,507	3,644
Unaccounted 3/	364	734	964	1,205	550	857
World total	12,605	12,928	11,930	15,169	12,727	13,011

1/ Forecast. 2/ Projected. 3/ This represents exports not accounted for in reports from importing countries. Since this is recurring it is taken into account in the assessment of the year ahead.

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

Appendix table 28--World milled rice production, consumption, exports, and ending stocks, 1960/61-1990/91

Crop year 1/	Production	Total use	Exports 2/	Ending stocks	Stocks-to-
					use ratio
-----1,000 metric tons-----					Percent
1960/61	159.8	159.2	6.3	7.5	4.7
1961/62	147.3	149.2	6.3	8.5	5.7
1962/63	155.2	151.3	7.3	12.4	8.2
1963/64	169.1	165.2	7.7	16.2	9.8
1964/65	180.8	179.8	8.2	17.3	9.6
1965/66	173.3	172.6	7.9	18.0	10.4
1966/67	179.3	178.7	7.8	18.6	10.4
1967/68	189.4	187.1	7.2	20.9	11.2
1968/69	195.6	191.8	7.5	24.8	12.9
1969/70	201.6	200.2	8.2	26.1	13.1
1970/71	213.6	211.0	8.6	28.8	13.6
1971/72	216.4	216.8	8.7	28.4	13.1
1972/73	209.6	214.6	8.4	23.4	10.9
1973/74	228.0	222.9	7.7	28.5	12.8
1974/75	226.3	226.7	7.3	28.2	12.4
1975/76	244.0	233.3	8.4	38.9	16.7
1976/77	237.0	238.1	10.6	37.8	15.9
1977/78	251.7	245.6	9.6	43.9	17.9
1978/79	263.7	253.5	12.0	54.1	21.3
1979/80	258.0	259.3	12.7	52.8	20.4
1980/81	271.0	275.8	13.2	48.0	17.4
1981/82	280.5	284.5	11.8	43.9	15.4
1982/83	286.3	286.4	11.9	43.8	15.3
1983/84	308.1	304.9	12.3	47.0	15.4
1984/85	318.9	310.4	11.3	55.5	17.9
1985/86	318.9	319.5	12.6	54.9	17.2
1986/87	318.7	322.8	12.9	50.8	15.7
1987/88	313.7	319.7	11.9	44.9	14.0
1988/89	330.2	328.1	15.2	46.9	14.3
1989/90	340.8	334.1	12.7	53.6	16.1
1990/91 3/	340.8	340.6	13.0	53.9	15.8

1/ Based on aggregate of differing local marketing years. 2/ Calendar year of second year.

3/ Estimated.

Appendix table 29--U.S. share of world production, exports, and ending stocks of rice, 1960/61-1990/91

Year 1/	-----U.S. share of world-----		
	Production	Exports	Ending stocks
	Percent		
1960/61	1.1	13.3	4.4
1961/62	1.2	16.7	2.0
1962/63	1.4	16.4	2.0
1963/64	1.4	17.1	1.5
1964/65	1.3	18.9	1.5
1965/66	1.4	17.1	1.5
1966/67	1.6	23.0	1.5
1967/68	1.6	25.5	1.1
1968/69	1.8	24.5	2.1
1969/70	1.5	21.2	2.1
1970/71	1.3	16.4	2.1
1971/72	1.3	22.4	1.3
1972/73	1.3	18.8	0.7
1973/74	1.3	22.0	0.9
1974/75	1.6	28.2	0.8
1975/76	1.7	24.2	3.1
1976/77	1.6	21.4	3.4
1977/78	1.2	23.6	2.0
1978/79	1.6	18.9	1.9
1979/80	1.7	23.4	1.6
1980/81	1.8	22.8	1.1
1981/82	2.1	21.1	3.6
1982/83	1.7	19.6	5.3
1983/84	1.0	17.3	3.2
1984/85	1.4	16.9	3.7
1985/86	1.4	19.1	4.5
1986/87	1.4	18.9	3.3
1987/88	1.3	18.9	2.2
1988/89	1.6	19.6	1.9
1989/90 2/	1.4	19.3	1.4
1990/91 3/	1.5	18.5	1.4

1/ Based on aggregate of differing local marketing years except for exports which are on a calendar year.
 2/ Estimated. 3/ Forecast.

Appendix table 30--Ratio of world trade and ending stocks to consumption; U.S. exports as share of foreign consumption

Year 1/	World trade to world consumption	World ending stocks to world consumption	U.S. exports to foreign consumption
Percent			
1960/61	4.5	5.4	0.5
1961/62	4.2	5.7	0.7
1962/63	4.8	8.2	0.8
1963/64	4.7	9.8	0.8
1964/65	4.6	9.6	0.9
1965/66	4.6	10.4	0.8
1966/67	4.4	10.4	1.0
1967/68	3.8	11.2	1.0
1968/69	3.9	12.9	1.0
1969/70	4.1	13.0	0.9
1970/71	4.1	13.6	0.7
1971/72	4.0	13.1	0.9
1972/73	3.9	10.9	0.7
1973/74	3.5	12.8	0.8
1974/75	3.2	12.4	0.9
1975/76	3.6	16.7	0.9
1976/77	4.5	15.9	1.0
1977/78	3.9	17.9	0.9
1978/79	4.7	21.3	0.9
1979/80	4.9	20.4	1.2
1980/81	4.8	17.4	1.1
1981/82	4.1	15.4	0.9
1982/83	4.2	15.3	0.8
1983/84	4.0	15.4	0.7
1984/85	3.6	17.9	0.6
1985/86	3.9	17.2	0.8
1986/87	4.0	15.7	0.8
1987/88	3.7	14.0	0.7
1988/89	4.6	14.3	0.9
1989/90 2/	3.8	16.0	0.7
1990/91 3/	3.8	15.8	0.7

1/ Based on aggregate of differing local marketing years except for exports which are on a calendar year.
 2/ Estimated. 3/ Forecast.

Appendix table 31--U.S. rice exports by type 1/

Crop year	Regular milled	Brown	Parboiled	Rough	Brokens	Other	Total 2/
1,000 metric tons							
1973/74	1,080.1	165.2	345.7	0.2	11.3	1.0	1,603.6
1974/75	1,388.3	546.5	242.5	0.3	14.3	2.5	2,194.4
1975/76	777.3	535.8	406.0	0.3	11.6	0.9	1,731.8
1976/77	1,215.3	346.7	459.2	32.5	37.7	5.7	2,097.0
1977/78	1,275.8	232.7	502.5	132.5	87.1	39.4	2,270.2
1978/79	1,388.8	276.1	627.3	90.6	20.8	27.8	2,431.4
1979/80	1,461.9	475.4	598.4	54.5	40.1	75.5	2,705.9
1980/81	957.7	1,202.7	781.7	13.5	18.0	54.0	3,027.6
1981/82	941.8	502.6	1,000.9	18.7	5.9	39.1	2,681.9
1982/83	954.1	354.3	846.5	188.9	12.7	35.1	2,218.7
1983/84	882.4	334.3	821.8	104.3	37.6	89.7	2,270.2
1984/85	927.7	166.2	630.8	101.1	46.8	81.4	1,954.2
1985/86	891.6	309.6	523.8	55.7	80.1	57.7	1,918.6
1986/87	1,484.0	278.5	596.4	259.0	5.7	56.2	2,679.8
1987/88	1,289.6	178.1	652.9	36.8	132.7	0.1	2,290.3

1/ All rice is reported on a milled-equivalent basis. 2/ Numbers may not add because of rounding.

Source: U.S. Bureau of the Census.

Appendix table 32--U.S. rice exports by export program

Fiscal year	PL 480	Section 416	CCC credit programs 1/	CCC African relief exports	EEP 2/	Export programs	Exports outside specified export programs	Total U.S. rice exports	Export programs as a share of total exports
1,000 metric tons									
1975	747	0	48	0	0	795	1,419	2,217	36
1976	509	0	101	0	0	610	1,340	1,953	31
1977	691	0	15	0	0	705	1,614	2,317	30
1978	530	0	50	0	0	580	1,696	2,276	25
1979	486	0	42	0	0	528	1,868	2,396	22
1980	540	0	168	0	0	708	2,247	2,955	24
1981	360	0	452	0	0	812	2,360	3,172	26
1982	374	0	14	0	0	388	2,523	2,911	13
1983	475	0	328	0	0	803	1,473	2,276	35
1984	464	0	571	49	0	1,084	1,209	2,293	47
1985	577	0	359	3/ 180	0	3/ 1,116	3/ 856	1,972	3/ 56
1986	313	0	477	0	23	813	1,569	2,382	34
1987	426	60	636	0	28	1,150	1,304	2,454	47
1988	368	22	443	0	120	953	1,220	2,173	44
1989 4/	408	0	826	0	30	1,264	1,788	3,052	41

1/ Quantities and values shown are based on reports supplied by the export trade and may not completely reflect exports made under these programs. 2/ Unofficial estimate compiled from press releases. 3/ Estimated.

4/ Preliminary.

Sources: Agricultural Stabilization and Conservation Service, and Foreign Agricultural Service, USDA. Table provided by Mark Smith, ERS-CED, 786-1822.

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