### Table 1
**Rough Rice and Milled Rice (Rough Equivalent): Marketing Year Supply, Disappearance, Area and Prices, 1973-78**

<table>
<thead>
<tr>
<th>Year Beginning Aug. 1</th>
<th>Supply</th>
<th>Disappearance</th>
<th>Domestic Use</th>
<th>Food Shipments</th>
<th>Brewer's</th>
<th>Seed</th>
<th>Total Disappearance</th>
<th>Ending Stocks</th>
<th>Total Stock Discrepancy</th>
<th>July 31</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>1973/74</td>
<td>5.1</td>
<td>92.8</td>
<td>0.2</td>
<td>98.1</td>
<td>22.0</td>
<td>0.2</td>
<td>3.8</td>
<td>26.1</td>
<td>8.1</td>
<td>3.6</td>
</tr>
<tr>
<td>1974/75</td>
<td>7.8</td>
<td>112.4</td>
<td>3/2</td>
<td>120.3</td>
<td>22.4</td>
<td>0.2</td>
<td>6.0</td>
<td>28.6</td>
<td>8.4</td>
<td>4.0</td>
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<tr>
<td>1975/76</td>
<td>7.1</td>
<td>128.4</td>
<td>3/2</td>
<td>155.5</td>
<td>21.6</td>
<td>0.2</td>
<td>5.9</td>
<td>27.7</td>
<td>9.1</td>
<td>3.5</td>
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<tr>
<td>1976/77</td>
<td>36.9</td>
<td>115.6</td>
<td>0.1</td>
<td>152.6</td>
<td>22.6</td>
<td>0.2</td>
<td>6.4</td>
<td>29.2</td>
<td>10.3</td>
<td>3.2</td>
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<tr>
<td>1977/78 4/</td>
<td>40.5</td>
<td>59.2</td>
<td>0.1</td>
<td>139.8</td>
<td>17.7</td>
<td>0.2</td>
<td>5.6</td>
<td>23.6</td>
<td>9.8</td>
<td>4.4</td>
</tr>
<tr>
<td>1978/79 5/</td>
<td>27.4</td>
<td>137.8</td>
<td>---</td>
<td>165.2</td>
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**MILLION CWT.**

<table>
<thead>
<tr>
<th>Year</th>
<th>Area Allotment</th>
<th>Harvested</th>
<th>Yield</th>
<th>Average Prices</th>
</tr>
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<tr>
<td></td>
<td>Million Acres</td>
<td>Lbs.</td>
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<td></td>
</tr>
<tr>
<td>1973/74</td>
<td>2.2</td>
<td>4,274</td>
<td>13.80</td>
<td>31.95</td>
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<tr>
<td>1974/75</td>
<td>2.1</td>
<td>4,440</td>
<td>11.20</td>
<td>22.05</td>
</tr>
<tr>
<td>1975/76</td>
<td>1.8</td>
<td>4,556</td>
<td>8.35</td>
<td>18.35</td>
</tr>
<tr>
<td>1976/77</td>
<td>1.8</td>
<td>4,663</td>
<td>7.02</td>
<td>14.95</td>
</tr>
<tr>
<td>1977/78 4/</td>
<td>1.8</td>
<td>4,412</td>
<td>5.49</td>
<td>21.70</td>
</tr>
<tr>
<td>1978/79 5/</td>
<td>1.8</td>
<td>4,505</td>
<td>7.50-7.80</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1/ Consolidated supply and disappearance of rough and milled rice. Converted milled rice data to a rough rice basis using annually derived conversion rates as factors. 2/ Results from losses in storage and handling and error in estimation. 3/ Less
SUMMARY

U.S. Rice Demand Remains Strong But Record Supply Pressures Prices

Rice prices have been under downward pressure from the start of this season as result of record U.S. and world rice supplies which continue to weigh on the market. February farm prices were down nearly $3 per cwt. from a year ago. U.S. growers indicated as of January 1 that they will cut 1979 rice acreage 5 percent, to 2.9 million acres, largely because of lower price levels. Prospects for strong spring soybean prices relative to rice may further reduce actual 1979 rice plantings.

Improved yields and the largest acreage ever planted contributed to a record 1978 U.S. rice crop of 138 million cwt., nearly 40 percent above 1977’s. Although carryover stocks last August 1 were the lowest since 1975, the large crop pushed total 1978/79 supply to an unmatched 165 million cwt. However, brisk export and domestic demand is expected to hold 1978/79 season average farm prices between $7.50 and $7.80 per cwt., over $1 above the national loan, but $1.75 to $2.00 below last season.

During 1978/79, disappearance of U.S. rice is expected to total a record 114 million cwt. (rough equivalent), with 70 million being exported. Sales to West Europe and the Middle East are above a year ago. Several major Asian buyers are purchasing less from the United States this year because of their larger crops. Further sales to Iran, the United States’ most important commercial rice market, remain uncertain.

Large August-December domestic rice disappearance indicates 1978/79 food use should return to normal growth after last year’s decline. Brewers rice use also appears headed toward a substantial increase due to more attractive rice prices in relation to corn grits. Total domestic use, including food, seed and brewers’ use, is expected to total a record 44 million cwt.
World 1978/79 Rice Situation

World Harvest Record High

The 1978/79 world rice crop is estimated at a record 373 million metric tons. Production in China and India was about the same as last year, but Indonesia and Thailand harvested record crops, up 14 and 3 percent, respectively. Other major producers (Bangladesh, Burma, Pakistan, Australia, Brazil, and the United States) also had increases in 1978/79.

World rice stocks for 1978/79 are expected to increase to a record 25 million tons at season’s end, up nearly a fourth from last year. U.S. stocks will nearly double, and foreign-held stocks are forecast to increase by almost 4 million tons. This year’s ending stocks will be about 10 percent of total world use, compared to 8 percent last year. World rice consumption during 1978/79 is projected at a record 247 million tons, up 2 percent from last year.

International trade for calendar 1979 is forecast at approximately 9 million tons, possibly somewhat higher than last year. Increase demand in several countries of the Middle East and Africa will be more than offset by a major drop in Indonesia’s imports.

Situation for Selected Countries

Indonesia’s rice harvest for 1978/79 is estimated at a record 26 million tons, 14 percent over last year. The bumper harvest is attributed to good weather, reduced pest infestation, increased fertilizer use, and expanded irrigation. Indonesia’s 1979 rice imports will be reduced sharply from the 1.9 million tons in 1978. During 1979, Indonesia will probably reduce its currently high stock levels. Storage capacity is about full. Capacity there totals about 1.9 million tons, of which 1.2 million tons is owned by the government. The government has scaled back import requirements for 1979 to around 1.5 million tons.

India’s 1978/79 rice harvest is estimated at 78.8 million tons, down from the previous year’s 79.1 million tons because of extensive flooding during the growing season. Severe floods in early September damaged rice in the western part of the Gangetic Plain, lowering the production prospects in Uttar Pradesh and the Punjab. Bihar and West Bengal’s production was also damaged.

Japan’s output was down by 4 percent as a result of the government’s rice reduction program, but still exceeded domestic needs of 15.5 million tons. Japan has announced a $5-billion, 5-year plan to export and feed surplus supplies of 4.6-4.8 million tons (brown basis) of rice. The surplus disposal program could impact on U.S. rice exports. A portion of the surplus rice will be used

![Image](https://example.com/image.png)

### Table: World: Rice, production, international trade, stocks, and utilization, 1976/77-1978/79

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<thead>
<tr>
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<tbody>
<tr>
<td><strong>Production</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>China</td>
<td>127.5</td>
<td>126.5</td>
<td>127.5</td>
</tr>
<tr>
<td>India</td>
<td>62.9</td>
<td>79.1</td>
<td>70.2</td>
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<tr>
<td>Indonesia</td>
<td>42.3</td>
<td>22.8</td>
<td>26.0</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>17.6</td>
<td>13.1</td>
<td>19.0</td>
</tr>
<tr>
<td>Thailand</td>
<td>15.8</td>
<td>15.0</td>
<td>16.0</td>
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<tr>
<td>Japan</td>
<td>14.7</td>
<td>16.4</td>
<td>15.7</td>
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<tr>
<td>Burma</td>
<td>9.3</td>
<td>9.4</td>
<td>10.0</td>
</tr>
<tr>
<td>Other foreign</td>
<td>73.5</td>
<td>73.6</td>
<td>74.2</td>
</tr>
<tr>
<td>Total foreign</td>
<td>344.6</td>
<td>361.9</td>
<td>367.6</td>
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<tr>
<td>United States</td>
<td>5.2</td>
<td>4.5</td>
<td>6.3</td>
</tr>
<tr>
<td>World total</td>
<td>349.8</td>
<td>366.4</td>
<td>373.9</td>
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<table>
<thead>
<tr>
<th><strong>Consumption</strong></th>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>United States</td>
<td>2.3</td>
<td>2.2</td>
<td>2.1</td>
</tr>
<tr>
<td>World total</td>
<td>10.4</td>
<td>9.1</td>
<td>9.1</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Endin stocks</strong></th>
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</thead>
<tbody>
<tr>
<td>Total foreign</td>
<td>14.9</td>
<td>19.5</td>
<td>23.2</td>
</tr>
<tr>
<td>United States</td>
<td>1.3</td>
<td>0.9</td>
<td>1.7</td>
</tr>
<tr>
<td>World total</td>
<td>16.2</td>
<td>20.3</td>
<td>24.9</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Utilization</strong></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>World total</td>
<td>237.5</td>
<td>242.6</td>
<td>247.1</td>
</tr>
</tbody>
</table>

1 Production is on rough basis; trade, stocks, and utilization are milled basis. 2 Preliminary. 3 Forecast.


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2 Production is reported as rough rice but stocks, trade, and use are milled. 1978/79 rice production represents the crops harvested in the last half of 1978 and early 1979 in the Northern Hemisphere, and the crop harvested early in 1979 in the Southern Hemisphere. Trade is on a calendar-year basis.
3 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 Burma and China.
for feed. This could displace up to one-half million tons of imported feed grains annually during the 5 years of the disposal program.

Thailand’s rice crop is estimated at a record 16 million tons, up 3 percent from last year despite some flooding. Rice available for export during calendar 1979 most likely will range between 1.8 and 2.2 million tons (milled basis), but could approach the 1977 volume of 2.9 million tons.

China’s 1978/79 rice harvest is estimated at 27.5 million tons, 1 million tons more than last year. The harvest was up despite unfavorable weather for the late-harvested (November-December) rice crop.

Bangladesh’s rice crop is estimated at a near-record 19.4 million tons, up slightly from last year. Drought during July and August kept rice production below the targeted level of 20.3 million tons expected earlier in the season. Imports, which averaged 288,000 tons during the past 4 years, likely will not be needed during 1978/79.

Burma’s 1978/79 rice crop is estimated at a record of at least 10 million tons, up about 16 percent from last year’s drought-reduced outturn of 8.6 million tons. The surplus available for export could range from 600,000 to 700,000 tons. Exports depend on increased shipments to Africa and Middle Eastern markets. Traditional Burmese markets

### Rice Export Prices for Thailand and the United States

<table>
<thead>
<tr>
<th>Crop Year</th>
<th>Bangkok, f.o.b. white 5% broken</th>
<th>U.S. No. 2 long grain f.o.b. Houston</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dollars per metric ton</td>
<td></td>
</tr>
<tr>
<td>1977/78</td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>275</td>
<td>354</td>
</tr>
<tr>
<td>September</td>
<td>275</td>
<td>364</td>
</tr>
<tr>
<td>October</td>
<td>278</td>
<td>403</td>
</tr>
<tr>
<td>November</td>
<td>294</td>
<td>498</td>
</tr>
<tr>
<td>December</td>
<td>324</td>
<td>532</td>
</tr>
<tr>
<td>January</td>
<td>338</td>
<td>551</td>
</tr>
<tr>
<td>February</td>
<td>374</td>
<td>551</td>
</tr>
<tr>
<td>1978/79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>366</td>
<td>419</td>
</tr>
<tr>
<td>September</td>
<td>369</td>
<td>364</td>
</tr>
<tr>
<td>October</td>
<td>360</td>
<td>366</td>
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<tr>
<td>November</td>
<td>315</td>
<td>357</td>
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<tr>
<td>December</td>
<td>294</td>
<td>360</td>
</tr>
<tr>
<td>January</td>
<td>299</td>
<td>359</td>
</tr>
<tr>
<td>February</td>
<td>300</td>
<td>366</td>
</tr>
</tbody>
</table>

Note: This table indicates the direction of U.S. and Thailand rice prices, but should not be taken to imply that the types of rice specified above are of comparable quality.
(China, Hong Kong, Sri Lanka, and Indonesia) generally take a combined total of only 350,000-400,000 tons of Burmese rice.

International Prices

Record new crop supplies for 1978/79 have reduced world prices from a year ago. Thai prices dropped from an April 1978 high of $411 a ton to $300 in February 1979. U.S. No. 2 long grain (f.o.b. Houston) dropped to $366 a ton in February 1979 from $551 a year ago. Large carryover stocks from the record crop will influence world rice prices during the remainder of 1979. With stocks up, prices will likely remain below 1977/78 levels, and may be somewhat less sensitive to new crop developments than when stocks were smaller.

THE 1978/79 U.S. SITUATION

Record Rice Supply

U.S. producers responded to very favorable rice prices last spring and planted an all-time high 3.1 million acres. This was over a third more than in 1977 and well above the previous record of 2.8 million acres in 1975. Good overall harvest conditions, improved yields, and the large acreage combined to produce a record 1978 crop of 138 million cwt. Although carryin stocks were the lowest since 1975, the large crop pushed total 1978/79 supply to a record 165 million cwt., 18 percent above a year ago.

The smaller August 1 carryin stocks, 27.4 million cwt. compared with 40.5 million in 1977, reflected the nearly 50-percent drawdown of medium grain stocks. Thus, this year's medium grain rice supply is modestly above a year ago while long and short grain supplies are at all-time highs.

January 1 Stocks Record Large; Long Grain Major Contributor

With a bumper 1978 crop, January 1 rice stocks (rough equivalent) reached 105.8 million cwt., the
largest ever for that date. Farm stocks of 28 million cwt. were sharply larger than the 8 million cwt. of last January. This increase reflects the record crop, the increased capacity of on-farm rice drying and storage facilities, and early season orderly marketing practices of many growers. All States showed hefty increases in on-farm stocks, with the largest, 11 million cwt., reported in Arkansas.

Rough rice, totaling a record 96 million cwt., accounted for the bulk of the stocks. Long grain varieties accounted for 57 percent of total stocks, medium 32 percent, and short grain 11 percent. Short grain stocks rose nearly 40 percent, while long grain stocks were up 28 percent, and medium grain registered a 10-percent increase. The slow August-December export pace of short grain rice did little to reduce its record supply.

### Rice carryover by class January 1, 1978 and 1979

<table>
<thead>
<tr>
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<th></th>
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<tbody>
<tr>
<td>Long</td>
<td>42.6</td>
<td>54.8</td>
<td>5.8</td>
<td>7.0</td>
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<td>61.8</td>
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<tr>
<td>Medium</td>
<td>26.6</td>
<td>30.8</td>
<td>2.9</td>
<td>1.6</td>
<td>29.5</td>
<td>32.4</td>
</tr>
<tr>
<td>Short</td>
<td>7.9</td>
<td>10.3</td>
<td>.6</td>
<td>1.3</td>
<td>8.5</td>
<td>11.6</td>
</tr>
<tr>
<td>Total</td>
<td>77.1</td>
<td>95.9</td>
<td>9.3</td>
<td>9.9</td>
<td>86.4</td>
<td>105.8</td>
</tr>
</tbody>
</table>

1 Rough equivalent.

January 1 milled rice stocks were also at a new high, 7.1 million cwt., about 10 percent above a year earlier. Long and short milled rice inventories accounted for all of the increase, but the most marked stock buildup occurred in California warehouses, where mills had increased December production awaiting P.L. 480 loadings to Peru.

On August 1, the Commodity Credit Corporation (CCC) owned about 10 million cwt., or 40 percent of

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The 27-million-cwt. carryin. By January 1, the same quantity of CCC stocks represented less than 10 percent of the total supply. About two-thirds of CCC's stocks are medium grain, mostly located in California and Texas, while the other third is long grain rice, mostly stored in Texas warehouses.

### Domestic Use Shows Recovery

During August-December, apparent domestic food use of rice showed a 44-percent increase over the same period a year earlier (table 3). This is an exceptionally large increase for a food product whose normal growth rate is around 2 percent per year. This sharp increase probably reflects some correction of the sizable decline in apparent civilian rice consumption during April-July 1978. Total 1978/79 domestic food use is projected around 29 million cwt., up 2 million cwt. from the average of the last 5 years. This increase reflects the long-term uptrend in rice consumption and inclusion of more staple food products such as rice in diets to help reduce food expenditures during a period of rapidly increasing meat prices.

Brewers rice use surged about 13 percent during August-December reflecting increased supplies and more attractive price levels relative to substitute ingredients. Brewers rice use for 1978/79 is near a record amount.

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As of March 8, 1979, USDA's Crop Reporting Board revised total January 1, 1979 milled rice stock data as reported in the Rice Stocks report of January 25. Stocks of 8.4 million cwt. were revised to 7.1 million.

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5 For further discussion of 1977/78 domestic rice food use see page 6 of the October 1978 Rice Situation.

<table>
<thead>
<tr>
<th>Rough rice: U.S. supply by class August 1, 1977 and 1978</th>
</tr>
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<tbody>
<tr>
<td><strong>Item</strong></td>
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<tr>
<td></td>
</tr>
<tr>
<td>Carryover</td>
</tr>
<tr>
<td>Production</td>
</tr>
<tr>
<td>Total supply</td>
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</table>
Exports Near Record Pace

Although record world rice supplies are expected to cause a modest reduction in 1978/79 U.S. rice exports, continued expansion in world rice consumption provides the base for another strong export year. Last year's exports totaled nearly 73 million cwt. (rough equivalent), an all-time high. Although this year's rice exports are projected to be modestly lower (70 million cwt.), August-December shipments of around 32 million cwt. were on par with last year's record-setting pace. Over halfway through the current marketing year, commitments (shipments plus outstanding sales) remained strong due to continued growth in commercial demand for parboiled and quality white rice. The record-large quantity of U.S. paddy rice (rough) exported to Italy in 1977/78 continues at the same level this year, suggesting that this type of rice export sale to Italy may continue as an important market.

August-December P.L. 480 commitments were largely confined to sales carried over from last season and made early in the marketing year. P.L. 480 activity should pick up in coming months and provide for expanded purchases. About 21 million cwt. of P.L. 480 rice shipments are projected for the 1978/79 marketing year. The unrest in Iran casts uncertainties on the United States’ most important commercial rice market. Currently, deliveries to Iran are down about 20 percent compared to last year. However, sales to Western Europe have been exceptionally heavy for the second consecutive year, with purchases from Portugal, Italy, and the United Kingdom at higher levels. Another big year appears likely for sales to the Middle East particularly to Iraq, Saudi Arabia, and Syria. African markets, particularly Nigeria and the Ivory Coast, continue strong. The major Asian rice buyers, Indonesia and Bangladesh, have cut back on their U.S. purchases because of large 1978 rice harvests.

Prices Weaken from Season’s High

A record-large rice supply caused 1978/79 farm prices to slip well below last year’s level. Early-season prices (August and September) were only off about 50 cents per cwt.; February prices are down nearly $3 from a year ago. This large spread reflects the extremely strong midseason 1977/78

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**Rough Rice Farm Prices and Loan Rates**

![Graph showing rough rice farm prices and loan rates from 1970/71 to 1978/79. The graph shows a steep increase in farm prices followed by a sharp decline, with loan rates remaining relatively stable. The graph includes data points for each year beginning August (monthly prices).](image-url)

**Graph Notes:**
- Farm price: Reflects changes in the cost of producing rice.
- Loan rate: Indicates the interest rate at which farmers can borrow to finance their operations.
- Vehicle: USDA

**Chart Source:** USDA

8 RS-33, MARCH 1979
prices (about $11 per cwt.), rather than any collapse of this year's prices.

Average farm prices have showed some seasonal strength since harvest, and remained fairly steady around $8 per cwt. through midwinter. February prices slipped from this level and prices are expected to weaken through the remainder of the marketing year. Some support is expected from the good export demand for high-quality long grain and parboiled rice, while prices for lower quality will be depressed to near the loan level. The average farm price for the 1978/79 season may range from $7.50 to $7.80 per cwt., down from 1977's $9.49 but still more than $1 above the $6.40 loan rate.

Farm prices for the first 5 months of the marketing year will average below the $8.53 target price. Upon final determination of this average price, deficiency payments will be paid to growers on the normal production from their allotment acres. This would mark the second time rice deficiency payments have been made under the authority of the Food and Agriculture Act of 1977.

OUTLOOK FOR 1979/80

1979 Program Announced

On January 29, 1979, USDA announced the provisions of the 1979 rice program. Major features of the new program include:

- No set-aside or paid diversion program, which is the same as for the 1978 crop.
- An upward adjustment in 1979 target price and loan rate to reflect increases in costs of production. The target price was set at $9.05 per cwt., up 52 cents from last year. The loan rate was adjusted upward from $6.40 to $6.79 per cwt., the same percentage increase as the target price.
- A national acreage allotment of 1.8 million acres, the same as in 1978, apportioned on the basis of the 1975 crop.
- No limit on acreage planted to rice, although program benefits are available on allotment acres only.
- A $50,000 limitation on rice deficiency payments per producer, compared to $52,250 in 1978.

Producers Plan Fewer Acres

With rice prices considerably lower this year relative to competing crops, producers have indicated an acreage cut for 1979. This outlook primarily reflects the record-large carryover from the 1978 rice crop and a strong price outlook for soybeans.

As of January 1, 1979, growers intended to plant 2.9 million acres to rice, down from 3.1 million in 1978. A reduction in long grain varieties accounts for 79,000 acres, or nearly half, of the total acreage cutback. All major long-grain producing States except Louisiana indicated a 5-percent cut. Louisiana producers plan for the same acreage as 1978.

Planting intentions for medium grain were off 66,000 acres, or 8 percent, in the January report. California's acreage should be up 13 percent based on the report, while growers in Arkansas and Louisiana planned to cut acreage 30 and 16 percent, respectively. The indicated increase in California's acreage reflects both some switching from short grain to medium and an excellent outlook for irrigation water.

Short-grain plantings were indicated to be down 23,000 acres, or 10 percent, in the January report. California and Arkansas producers' early planting

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<tbody>
<tr>
<td>Soybean/rice</td>
<td>84</td>
<td>99</td>
<td>171</td>
<td>86</td>
<td>148</td>
</tr>
<tr>
<td>Cotton/rice</td>
<td>288</td>
<td>682</td>
<td>943</td>
<td>480</td>
<td>683</td>
</tr>
</tbody>
</table>

1 Based on mid-February farm price per cwt., except for 1977 which is a monthly price.
plans include a 10,000- and 13,000-acre reduction, respectively.

While 1979 planted acreage is dependent somewhat on weather developments, market prices will provide the most important signal for final planting decisions. But relatively strong soybean prices are likely to cause some year-to-year shifts in planted rice acreage. Since January 1, prospects for Brazil's soybean crop have diminished and U.S. soybean prices have risen. Based on this development, and prospects of a large carryover of old-crop rice, it is likely that actual 1979 acreage could be cut further from the level indicated in the January intentions report. However, some early-season mid-South contracts for the 1979 rice crop call for base prices between $7.75 and $8 per cwt. These contract prices are down only slightly from mid-March cash markets and they may cushion the acreage-reducing effects of higher soybean prices. A reassessment of rice growers' planting plans will be forthcoming in USDA's April 15 Prospective Plantings report.
Table 2.—Rice, rough basis: Supply and distribution, United States, annual 1975-77, August-December 1977-78 1/

<table>
<thead>
<tr>
<th>Item</th>
<th>Year beginning August</th>
<th>August-December</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning carryover</td>
<td>4,050</td>
<td>31,345</td>
</tr>
<tr>
<td>Farm production</td>
<td>128,437</td>
<td>115,648</td>
</tr>
<tr>
<td>Supply</td>
<td>132,487</td>
<td>146,993</td>
</tr>
<tr>
<td>Seed</td>
<td>3,500</td>
<td>3,200</td>
</tr>
<tr>
<td>Exports (rough only)</td>
<td>10</td>
<td>994</td>
</tr>
<tr>
<td>Used by mills</td>
<td>95,818</td>
<td>105,685</td>
</tr>
<tr>
<td>Total disappearance</td>
<td>99,328</td>
<td>109,879</td>
</tr>
<tr>
<td>Ending carryover</td>
<td>31,345</td>
<td>33,351</td>
</tr>
<tr>
<td>Statistical discrepancies 3/</td>
<td>+1,814</td>
<td>+3,763</td>
</tr>
</tbody>
</table>

1/ Includes supply and disappearance of rough rice only. 2/ Preliminary. 3/ Results from storage, handling and processing losses.

Table 3.—Rice, milled basis: Supply and distribution, United States, annual 1975-77, August-December 1977-78 1/

<table>
<thead>
<tr>
<th>Item</th>
<th>Year beginning August</th>
<th>August-December</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginning carryover</td>
<td>2,164</td>
<td>3,892</td>
</tr>
<tr>
<td>Mill production</td>
<td>67,440</td>
<td>76,209</td>
</tr>
<tr>
<td>Imports</td>
<td>31</td>
<td>36</td>
</tr>
<tr>
<td>Supply</td>
<td>69,635</td>
<td>80,137</td>
</tr>
<tr>
<td>Food</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipments to territories</td>
<td>4,130</td>
<td>4,597</td>
</tr>
<tr>
<td>Used by military</td>
<td>151</td>
<td>160</td>
</tr>
<tr>
<td>Civilian consumption</td>
<td>15,288</td>
<td>16,217</td>
</tr>
<tr>
<td>Total food</td>
<td>19,569</td>
<td>20,974</td>
</tr>
<tr>
<td>Exported to territories</td>
<td>6,391</td>
<td>7,450</td>
</tr>
<tr>
<td>Exports</td>
<td>39,783</td>
<td>46,557</td>
</tr>
<tr>
<td>Total disappearance</td>
<td>65,743</td>
<td>74,981</td>
</tr>
<tr>
<td>Ending carryover</td>
<td>3,892</td>
<td>5,156</td>
</tr>
<tr>
<td>Per capita civilian consumption (pounds)</td>
<td>7.2</td>
<td>7.6</td>
</tr>
</tbody>
</table>

1/ Includes supply and disappearance of milled rice only. 2/ Preliminary.
Table 4. -- Rice: Acreage allotments, by States, 1975-79

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<th></th>
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</thead>
<tbody>
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<td>Arizona</td>
<td>250</td>
<td>3</td>
<td>---</td>
<td>---</td>
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<tr>
<td>Arkansas</td>
<td>435,322</td>
<td>434,630</td>
<td>434,941</td>
<td>435,116</td>
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<tr>
<td>California</td>
<td>327,037</td>
<td>326,568</td>
<td>326,540</td>
<td>326,598</td>
</tr>
<tr>
<td>Florida</td>
<td>1,044</td>
<td>1,012</td>
<td>950</td>
<td>951</td>
</tr>
<tr>
<td>Illinois</td>
<td>22</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Louisiana</td>
<td>518,222</td>
<td>517,789</td>
<td>517,902</td>
<td>517,840</td>
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<tr>
<td>Mississippi</td>
<td>50,921</td>
<td>50,849</td>
<td>50,767</td>
<td>50,786</td>
</tr>
<tr>
<td>Missouri</td>
<td>5,191</td>
<td>5,185</td>
<td>4,964</td>
<td>4,965</td>
</tr>
<tr>
<td>North Carolina</td>
<td>41</td>
<td>41</td>
<td>41</td>
<td>41</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>163</td>
<td>163</td>
<td>163</td>
<td>163</td>
</tr>
<tr>
<td>South Carolina</td>
<td>3,105</td>
<td>3,009</td>
<td>2,746</td>
<td>2,742</td>
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<tr>
<td>Tennessee</td>
<td>564</td>
<td>563</td>
<td>563</td>
<td>288</td>
</tr>
<tr>
<td>Texas</td>
<td>460,734</td>
<td>460,188</td>
<td>460,308</td>
<td>460,400</td>
</tr>
<tr>
<td>National Reserve</td>
<td>300</td>
<td>---</td>
<td>115</td>
<td>110</td>
</tr>
<tr>
<td>United States</td>
<td>1,802,916</td>
<td>1,800,000</td>
<td>1,800,000</td>
<td>1,800,000</td>
</tr>
</tbody>
</table>

Agriculture Stabilization and Conservation Service.

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### Table 5.--Rice: Production by class and States, 1974-78

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Grain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>25,105</td>
<td>29,370</td>
<td>32,538</td>
<td>28,463</td>
<td>43,188</td>
</tr>
<tr>
<td>California</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Louisiana</td>
<td>8,140</td>
<td>6,002</td>
<td>8,052</td>
<td>6,308</td>
<td>9,163</td>
</tr>
<tr>
<td>Mississippi</td>
<td>4,473</td>
<td>6,552</td>
<td>6,006</td>
<td>4,360</td>
<td>9,052</td>
</tr>
<tr>
<td>Missouri</td>
<td>340</td>
<td>559</td>
<td>369</td>
<td>515</td>
<td>1,204</td>
</tr>
<tr>
<td>Texas</td>
<td>21,876</td>
<td>21,110</td>
<td>23,086</td>
<td>22,560</td>
<td>25,421</td>
</tr>
<tr>
<td>Total</td>
<td>59,934</td>
<td>63,593</td>
<td>70,051</td>
<td>62,206</td>
<td>88,028</td>
</tr>
<tr>
<td>Medium Grain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>6,953</td>
<td>9,541</td>
<td>6,714</td>
<td>6,016</td>
<td>7,607</td>
</tr>
<tr>
<td>California</td>
<td>14,873</td>
<td>19,520</td>
<td>14,322</td>
<td>8,085</td>
<td>15,698</td>
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<td>Louisiana</td>
<td>13,950</td>
<td>19,062</td>
<td>14,151</td>
<td>11,137</td>
<td>13,262</td>
</tr>
<tr>
<td>Missouri</td>
<td>40</td>
<td>69</td>
<td>42</td>
<td>80</td>
<td>86</td>
</tr>
<tr>
<td>Texas</td>
<td>3,382</td>
<td>3,868</td>
<td>1,344</td>
<td>840</td>
<td>805</td>
</tr>
<tr>
<td>Total</td>
<td>41,387</td>
<td>52,255</td>
<td>36,792</td>
<td>26,272</td>
<td>37,534</td>
</tr>
<tr>
<td>Short Grain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>702</td>
<td>1,864</td>
<td>1,110</td>
<td>917</td>
<td>1,675</td>
</tr>
<tr>
<td>California</td>
<td>10,348</td>
<td>10,659</td>
<td>7,695</td>
<td>9,828</td>
<td>10,550</td>
</tr>
<tr>
<td>Mississippi</td>
<td>-</td>
<td>-</td>
<td>44</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Missouri</td>
<td>15</td>
<td>22</td>
<td>-</td>
<td>-</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>11,065</td>
<td>12,589</td>
<td>8,805</td>
<td>10,745</td>
<td>12,243</td>
</tr>
</tbody>
</table>

1/ Preliminary.

Source: Annual Crop Production, Crop Reporting Board, ESCS.

### Table 6.--Rice, rough: Acreage, yield and production, by States, 1977 and 1978

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas</td>
<td>840.0</td>
<td>1,180.0</td>
<td>837.0</td>
<td>1,170.0</td>
<td>4,230</td>
<td>4,485</td>
<td>35,396</td>
<td>52,470</td>
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<tr>
<td>California</td>
<td>310.0</td>
<td>500.0</td>
<td>308.0</td>
<td>499.0</td>
<td>5,810</td>
<td>5,260</td>
<td>17,913</td>
<td>26,248</td>
</tr>
<tr>
<td>Louisiana</td>
<td>480.0</td>
<td>590.0</td>
<td>475.0</td>
<td>587.0</td>
<td>3,670</td>
<td>3,820</td>
<td>17,645</td>
<td>22,425</td>
</tr>
<tr>
<td>Mississippi</td>
<td>112.0</td>
<td>220.0</td>
<td>111.0</td>
<td>215.0</td>
<td>4,000</td>
<td>4,250</td>
<td>4,440</td>
<td>9,138</td>
</tr>
<tr>
<td>Missouri</td>
<td>17.0</td>
<td>30.0</td>
<td>17.0</td>
<td>30.0</td>
<td>3,700</td>
<td>4,330</td>
<td>629</td>
<td>1,298</td>
</tr>
<tr>
<td>Texas</td>
<td>502.0</td>
<td>560.0</td>
<td>501.0</td>
<td>558.0</td>
<td>4,670</td>
<td>4,700</td>
<td>23,400</td>
<td>26,226</td>
</tr>
<tr>
<td>Total United States</td>
<td>2,261.0</td>
<td>3,080.0</td>
<td>2,249.0</td>
<td>3,059.0</td>
<td>4,412</td>
<td>4,505</td>
<td>99,223</td>
<td>137,805</td>
</tr>
</tbody>
</table>

1/ Preliminary.

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Table 7.--Rice: Stocks, rough and milled, United States, for selected dates, 1973-79 1/

<table>
<thead>
<tr>
<th>Year</th>
<th>Rough</th>
<th>Milled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>At mills</td>
<td>In warehouses:</td>
</tr>
<tr>
<td></td>
<td>or in farm:</td>
<td>not: or in:</td>
</tr>
<tr>
<td></td>
<td>attached:</td>
<td>warehouses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1973</td>
<td>4,714</td>
<td>13,703</td>
</tr>
<tr>
<td>1974</td>
<td>7,729</td>
<td>13,651</td>
</tr>
<tr>
<td>1975</td>
<td>13,608</td>
<td>15,177</td>
</tr>
<tr>
<td>1976</td>
<td>24,713</td>
<td>14,597</td>
</tr>
<tr>
<td>1977</td>
<td>21,006</td>
<td>16,830</td>
</tr>
<tr>
<td>1978 2/</td>
<td>8,269</td>
<td>15,930</td>
</tr>
<tr>
<td>1979 2/</td>
<td>28,089</td>
<td>66,929</td>
</tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1973</td>
<td>1,476</td>
<td>9,142</td>
</tr>
<tr>
<td>1974</td>
<td>1,536</td>
<td>10,048</td>
</tr>
<tr>
<td>1975</td>
<td>2,902</td>
<td>10,579</td>
</tr>
<tr>
<td>1976</td>
<td>12,800</td>
<td>11,717</td>
</tr>
<tr>
<td>1977 2/</td>
<td>6,761</td>
<td>15,326</td>
</tr>
<tr>
<td>1978 2/</td>
<td>3,157</td>
<td>14,323</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1973</td>
<td>426</td>
<td>2,086</td>
</tr>
<tr>
<td>1974</td>
<td>77</td>
<td>2,589</td>
</tr>
<tr>
<td>1975</td>
<td>63</td>
<td>1,453</td>
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<tr>
<td>1976</td>
<td>653</td>
<td>5,850</td>
</tr>
<tr>
<td>1977 2/</td>
<td>709</td>
<td>6,718</td>
</tr>
<tr>
<td>1978 2/</td>
<td>586</td>
<td>6,288</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1973</td>
<td>94</td>
<td>1,931</td>
</tr>
<tr>
<td>1974</td>
<td>77</td>
<td>2,589</td>
</tr>
<tr>
<td>1975</td>
<td>63</td>
<td>1,453</td>
</tr>
<tr>
<td>1976</td>
<td>653</td>
<td>5,850</td>
</tr>
<tr>
<td>1977 2/</td>
<td>709</td>
<td>6,718</td>
</tr>
<tr>
<td>1978 2/</td>
<td>586</td>
<td>6,288</td>
</tr>
</tbody>
</table>

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.

Table 8.--Rice, rough: Price support activity by states, 1978 crop as of February 28, 1979

<table>
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<tr>
<th>State</th>
<th>Placed under loan</th>
<th>Loans</th>
<th>Loans</th>
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<td>Farms</td>
<td>Warehouses</td>
<td>Total</td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>1,163</td>
<td>8,477</td>
<td>9,640</td>
</tr>
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<td>Louisiana</td>
<td>1,044</td>
<td>352</td>
<td>1,396</td>
</tr>
<tr>
<td>Texas</td>
<td>996</td>
<td>5,688</td>
<td>6,684</td>
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<tr>
<td>Mississippi</td>
<td>753</td>
<td>54</td>
<td>807</td>
</tr>
<tr>
<td>Missouri</td>
<td>6</td>
<td>---</td>
<td>6</td>
</tr>
<tr>
<td>South</td>
<td>3,962</td>
<td>14,571</td>
<td>18,533</td>
</tr>
<tr>
<td>California</td>
<td>---</td>
<td>7,483</td>
<td>7,483</td>
</tr>
<tr>
<td>United States</td>
<td>3,962</td>
<td>22,054</td>
<td>26,016</td>
</tr>
</tbody>
</table>

1/ Includes 46,000 cwt. placed in reserve.

Source: Agriculture Stabilization and Conservation Service, USDA.

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<table>
<thead>
<tr>
<th>Year</th>
<th>Long grain</th>
<th>Medium grain</th>
<th>Short grain</th>
<th>Total 2/</th>
<th>Long grain</th>
<th>Medium grain</th>
<th>Short grain</th>
<th>Total 2/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug.</td>
<td>begin. Long</td>
<td>August grain</td>
<td>grain Total</td>
<td>August grain</td>
<td>grain</td>
<td>August grain</td>
<td>grain</td>
<td>August grain</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1971</td>
<td>20,502.7</td>
<td>4,609.6</td>
<td>469.5</td>
<td>25,581.8</td>
<td>12,657.6</td>
<td>3,214.0</td>
<td>117.1</td>
<td>15,987.8</td>
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<td>17,428.9</td>
<td>5,570.7</td>
<td>184.1</td>
<td>23,147.7</td>
<td>10,522.8</td>
<td>3,560.4</td>
<td>91.4</td>
<td>14,174.7</td>
</tr>
<tr>
<td>1973</td>
<td>14,660.5</td>
<td>6,818.2</td>
<td>136.9</td>
<td>21,622.6</td>
<td>9,007.8</td>
<td>4,438.1</td>
<td>113.9</td>
<td>13,595.8</td>
</tr>
<tr>
<td>1974</td>
<td>23,939.4</td>
<td>7,336.6</td>
<td>372.7</td>
<td>31,648.7</td>
<td>13,317.8</td>
<td>4,575.1</td>
<td>167.4</td>
<td>18,060.3</td>
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<tr>
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<td>7,645.3</td>
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<tr>
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<td>3,458.7</td>
<td>540.7</td>
<td>20,779.8</td>
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<tr>
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<td>28,249.7</td>
<td>6,919.9</td>
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<td>15,264.5</td>
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<table>
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<th>Year</th>
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<th>California</th>
<th>Total United States</th>
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<td>21,055.3</td>
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<td>7,622.2</td>
<td>13,928.2</td>
<td>5,251.0</td>
<td>26,306.3</td>
<td>26,306.3</td>
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<td>4,084.6</td>
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<tr>
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<td>60,775.0</td>
</tr>
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</table>

1/ Includes brown rice.
2/ Total may not add due to rounding.
3/ Mills at Memphis, Tennessee, and Cleveland, Mississippi, are included in Arkansas.

Data compiled from reports of the Rice Millers' Association and the California Market News Service.
### Table 10.--Rice, rough: Monthly prices received by farmers, United States, 1972-79

<table>
<thead>
<tr>
<th>Year</th>
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<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Season average</th>
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<td>7.84</td>
<td>8.14</td>
<td>8.26</td>
<td>8.51</td>
<td>8.56</td>
<td>8.74</td>
<td>10.80</td>
<td>6.73</td>
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<tr>
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<td>14.80</td>
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<td>15.50</td>
<td>15.80</td>
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<td>17.20</td>
<td>15.90</td>
<td>17.20</td>
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<td>13.80</td>
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<td>10.90</td>
<td>11.30</td>
<td>11.60</td>
<td>10.90</td>
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<td>11.00</td>
<td>11.10</td>
<td>11.20</td>
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<td>6.82</td>
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<tr>
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<td>7.56</td>
<td>7.62</td>
<td>7.76</td>
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<td>8.07</td>
<td>7/7.86</td>
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<td></td>
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<td>7.69</td>
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1/ U.S. season average prices include an allowance for unredeemed loans and purchases by the Government, valued at the average loan rate, by States. Monthly prices do not include this allowance. California is excluded in the monthly averages but is included in the U.S. season average. 2/ Preliminary.

### Table 11.--Rice: Monthly average price at Southwest Louisiana, 1975-79

<table>
<thead>
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<th>Year</th>
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<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Average</th>
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</thead>
<tbody>
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<td>9.75</td>
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<td>7.75</td>
<td>8.00</td>
<td>8.25</td>
<td>8.45</td>
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<tr>
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<td>6.80</td>
<td>7.05</td>
<td>6.86</td>
<td>6.75</td>
<td>6.15</td>
<td>6.20</td>
<td>6.25</td>
<td>6.30</td>
<td>6.95</td>
<td>7.25</td>
<td>7.25</td>
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<tr>
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</tr>
<tr>
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</table>

### Table 12.--Prices: Arkansas brewers rice and New York brewers corn grits, August-July, 1975-79

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<tr>
<th>Year</th>
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<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Average</th>
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<td>6.20</td>
<td>6.25</td>
<td>5.75</td>
<td>5.80</td>
<td>5.86</td>
<td>5.85</td>
<td>5.85</td>
<td>5.75</td>
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1/ U.S. No. 4 or better. 2/ Prices quoted as bulk.

### Table 13.--Prices: Arkansas brewers rice and New York brewers corn grits, August-July, 1975-79

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<th>Year</th>
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<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
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<th>May</th>
<th>June</th>
<th>July</th>
<th>Average</th>
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<td>7.50</td>
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<tr>
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NQ = Not Quoted.


16 IS-33, MARCH 1979
Table 13.--Rice, milled U.S. No. 2 f.o.b. mills: Average price of Texas and Arkansas head rice at milling centers, by months, 1973-79

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</tr>
<tr>
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<table>
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<td>1978</td>
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1/ Preliminary. 2/ Mostly Nato. 3/ No quote.

Table 14.--Rice, milled U.S. f.o.b. mills: Average price of Louisiana and California head rice at milling centers, by months, 1973-79

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Southwest Louisiana, Long Grain 1/

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Southwest Louisiana, Medium Grain 1/

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California, Medium Grain 3/

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1/ U.S. No. 2--brokens not to exceed 4 percent. 2/ Preliminary. 3/ U.S. No. 1.

### Table 15.--U.S. milled rice exports by type of sale, Fiscal years, 1964-78

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1/ Includes local currency, convertible local currency, dollar credit, and private trade. 2/ Includes Government-to-Government, world food, and voluntary relief. 3/ Mutual Security Aid. 4/ Less than 500 metric tons. 5/ Includes Transitional Quarter July-September 1976. 6/ Fiscal year has been changed from July-June to October-September.

Office of the General Sales Manager, USDA and Foreign Demand and Competition Division, ESCS.

### Table 16.--U.S. milled rice exports under Government Programs by country of destination, 1973-78

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<td>981</td>
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</table>

1/ Includes Transitional Quarter, July-September 1976. 2/ Fiscal year has been changed from July-June to October-September. 3/ Preliminary. 4/ Less than 500 metric tons.

Office of the General Sales Manager, USDA and Foreign Demand and Competition Division, ESCS.

RS-33, MARCH 1979 19
The image contains a table titled "Rice, rough: Acreage, yield and production in specified countries, average 1972-76, annual 1977 and 1978." The table is divided into columns for continent, country, area, yield (MT/ha), production (1,000 MT), and two years of production (1977, 1978). The data is organized by continent and country, with specific details for each. The table is too large to list here in full, but it provides a clear view of the acreage, yield, and production for various countries and years.
## AFRICA

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1/ The world rice harvest stretches over 6-8 months. Thus, 1977 production represents the crop harvested in late 1977 and early 1978 in the Northern Hemisphere, with estimates for the crop to be harvested in early 1978 in the Southern Hemisphere. 2/ Harvested area as far as possible. 3/ Preliminary. 4/ Production has been combined for North and South Vietnam.

Foreign Agricultural Service. Prepared or estimated on the basis of official statistics of foreign governments, reports of U.S. Agricultural Attachés and other foreign source materials.
Table 18.--Rice: Export prices at Thailand by months, white f.o.b.
Bangkok, 1973-79 1/

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<td>284</td>
<td>289</td>
<td>292</td>
<td>300</td>
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<td>1978 2/</td>
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<td>390</td>
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<td>1975</td>
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<td>1976</td>
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<td>1977</td>
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<td>1978 2/</td>
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<table>
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<th>100% 2nd grade</th>
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<td>1975</td>
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<td>1976</td>
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<tr>
<td>1977</td>
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<td>1978 2/</td>
</tr>
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1/ Milled rice, includes export premium, export tax and cost of bags. Packed in bags of 100 kgs. net.
2/ Preliminary.

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## Rice

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<th>Table number</th>
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<td>Rough equivalent:</td>
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### Weights, Measures and Conversion Factors

**Bushel weights:**
- Wheat & soybeans = 60 lbs.
- Corn, sorghum & rye = 56 lbs.
- Barley (grain) = 48 lbs.: malt = 34 lbs.
- Oats = 32 lbs.

**Bushels to metric tons:**
- Wheat & soybeans = bushels x .027216
- Barley = bushels x .021772
- Corn, sorghum, rye = bushels x .025400
- Oats = bushels x .014515

1 Metric ton equals:
- 2204.622 lbs.
- 22,046 hundredweight
- 10 quintals

1,000 kilograms
- 36.7437 bushels wheat or soybeans
- 39.3679 bushels corn, sorghum, or rye
- 45.9296 bushels barley
- 68.8944 bushels oats

**Area:**
- 1 Acre = .404694 hectares
- 1 Hectare = 2.4710 acres

**Yields:**
- Wheat = bushels per acre x 0.6725 = quintals per hectare
- Rye, corn = bushels per acre x 0.6277 = quintals per hectare
- Barley = bushels per acre x 0.5380 = quintals per hectare
- Oats = bushels per acre x 0.3587 = quintals per hectare

**Rice Factors**

1 cwt. = 2.22 bushels = .617 barrels = .0453 metric tons
1 bu. = .45 cwt. = .277 barrels = .0204 metric tons
1 barrel = 3.6 bu. = 1.62 cwt. = .0734 metric tons
1 metric ton = 48.992 bu. = 13.609 barrels = 22.046 cwt.

1 cwt. rough rice = .032659 metric ton milled
1 metric ton milled = 30.6198 cwt. rough

Milling rates
- Rough to brown = 82%
- Rough to milled = 72%