SUTTER'S GOLD

RICE — ITS ECONOMICS AND MARKETING

JANUARY 1954

UNIVERSITY OF CALIFORNIA
AGRICULTURAL EXTENSION SERVICE

YUBA CITY POST OFFICE BUILDING CALIFORNIA
Historically, rice production began in California in 1912. Production has been centered in 5 counties along the Sacramento River—Sutter, Butte, Colusa, Glenn and Yolo. Production has increased to four times its prewar level, and California now produces 20-25% of the nation’s rice. California’s rice area has expanded to include the northern San Joaquin Valley. In 1949 twenty counties reported rice acreage, from Glenn on the north to Imperial in the south.

In the United States, Texas, Louisiana, Arkansas, and California now account for most all of the production. Rice was first introduced in Virginia in about 1647. The first commercial planting was in South Carolina in 1685. After the Civil War, the production center moved to Louisiana, Texas and Arkansas.

For Further Reading
Rice Production in California - Loren Davis
Rice Market Review - Federal State Market News Service - San Francisco
Rice Fertilization in Sutter County - R. C. Pearl and J. H. Lindt - Agr. Ext. Service 1953
The Rice Journal - 806 Perdido St. New Orleans, Louisiana

SUTTER’S GOLD
RICE - ECONOMICS - MARKETING
John H. Lindt, Jr., Farm Advisor
Doyle Reed, Extension Economist

Our county’s king crop is rice—the golden crop of Sutter’s fields. Rice grown on 66,000 acres and valued at 13 million dollars in 1952, is basic to our local economy. Think for a moment of all those who depend at least in part on the reaping of the rice. You, the farmer, the buyer, the miller. You, the tractor dealer, the fertilizer salesman, and the airplane pilot, and you, the grocer, the barber, the construction worker and the “gofer.” Everyone in this area shares in “Sutter’s Gold.”

LET’S RAISE RICE

Let’s raise rice. What would you, an average farmer, need to go into business? First we should decide on:

SIZE OF OPERATIONS

Experience has shown that the minimum size of operations to return a satisfactory living is 150 acres. This will vary depending on the soil’s productivity—the price level—and the management ability of the farmer.

Experience has also shown that because of the amount of machinery needed for rice production, one man, with a minimum of hired help, can handle 300 acres. This same machinery will handle up to 450 acres with a few more men. It is to your
To farm as large an acreage as possible to reduce the overhead per acre. Here we are speaking of 300 acres in rice. The farmer will need other land, too, for a proper crop rotation plan.

Using smaller equipment or fewer machines is not a good idea because jobs cannot be performed when needed, resulting in lower yields.

What equipment would you need to farm 300 acres of rice? Well, here's how it figures.

**TABLE I**

**Equipment and Land Investment for 300 Acres of Rice**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Approximate New Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRAWLER TRACTOR 60-70 H.P.</td>
<td>$ 10,000</td>
</tr>
<tr>
<td>CRAWLER TRACTOR 30-40 H.P.</td>
<td></td>
</tr>
<tr>
<td>Drawbar H.P.</td>
<td>5,000</td>
</tr>
<tr>
<td>Truck, 1/2 Ton</td>
<td>3,000</td>
</tr>
<tr>
<td>Pick-up</td>
<td>2,400</td>
</tr>
<tr>
<td>2. PLOWS 5-14&quot;</td>
<td>2,000</td>
</tr>
<tr>
<td>DISK 20'</td>
<td>2,000</td>
</tr>
<tr>
<td>Harrow, Spike Tooth 20'</td>
<td>200</td>
</tr>
<tr>
<td>FLOAT 12' X 30'</td>
<td>150</td>
</tr>
<tr>
<td>Dozer 6' BLADE</td>
<td>600</td>
</tr>
<tr>
<td>Bankout Wagon</td>
<td>1,500-2,000</td>
</tr>
<tr>
<td>2 Self-Propelled Harvesters 14'</td>
<td>16,000</td>
</tr>
<tr>
<td>Tools and Small Equipment</td>
<td>3,000</td>
</tr>
</tbody>
</table>

**Total Equipment**                                      | **$46,350** |

**Land 300 Acres @ $200**                                 | **$60,000** |

**Total Investment Land & Equipment**                     | **$106,350** |

The second method is a sale through a broker to the mill, or even directly to the mill. The contract can be made before harvest or after the crop is in.

Prices paid for Calrose, a medium grain rice, are generally slightly higher than the price on Caloro or Colusa (1600), which are short grain.

**WORLD OUTLOOK**

California's rice is sold largely through export to rice consuming areas of the world. Our efficiency of production and high yields allow us to compete in this world market. In turn, our price must not be kept artificially above the world market level if we are to compete successfully.

The "world's rice bank" of Southeast Asia is getting back on its feet after the last war, Burma and Thailand are once again able to export rice; however, not on the same scale as before the war.

Rice is becoming more important as an export crop in South America.

Despite rising production there is still a world deficit in rice. Rice, the staple food of millions of Asians, has historically been in short supply. The outlook for continued high production is good.
Let’s take a look at some California figures:

<table>
<thead>
<tr>
<th>Year</th>
<th>Acres</th>
<th>Yield</th>
<th>Price</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>1943</td>
<td>41,817</td>
<td>3,400</td>
<td>$3.40</td>
<td>224,000</td>
</tr>
<tr>
<td>1944</td>
<td>45,990</td>
<td>3,510</td>
<td>$3.30</td>
<td>240,000</td>
</tr>
<tr>
<td>1945</td>
<td>46,176</td>
<td>3,550</td>
<td>$3.18</td>
<td>235,000</td>
</tr>
<tr>
<td>1946</td>
<td>47,000</td>
<td>3,400</td>
<td>$4.19</td>
<td>261,000</td>
</tr>
<tr>
<td>1947</td>
<td>45,000</td>
<td>3,300</td>
<td>$6.00</td>
<td>256,000</td>
</tr>
<tr>
<td>1948</td>
<td>40,000</td>
<td>3,000</td>
<td>$4.50</td>
<td>256,000</td>
</tr>
<tr>
<td>1949</td>
<td>58,000</td>
<td>3,500</td>
<td>$3.40</td>
<td>305,000</td>
</tr>
<tr>
<td>1950</td>
<td>44,000</td>
<td>3,160</td>
<td>$4.46</td>
<td>238,000</td>
</tr>
<tr>
<td>1951</td>
<td>62,000</td>
<td>3,250</td>
<td>$4.70</td>
<td>314,000</td>
</tr>
<tr>
<td>1952</td>
<td>66,000</td>
<td>3,480</td>
<td>$5.81</td>
<td>330,000</td>
</tr>
</tbody>
</table>

Finger Tip Figures:

- 10 Year Average State Yield: 3,100 pounds
- 10 Year Average State Production: 8,961,000 cwt.
- 10 Year Average U.S. Production: 39,288,000 cwt.
- 10 Year Average California Acreage: 284,200

Rice is sold by the farmer generally in one of two methods. First, he belongs to a cooperative which often takes care of the drying and storage for him. The cooperative then sells the rice to the miller, or perhaps they even do the milling themselves.

Leasing Rice Land

Because of the high investment required for equipment, many producers find it profitable to rent rather than to own rice land. Common rentals vary from one-fifth to one-third of the crop. On a one-third rent the landlord would furnish the water plus one-third of the fertilizer and spray materials. The landlord also pays the drying or his share of the crop. There are lots of variations from this depending on what the landlord furnishes. Rice land is not usually rented on a cash basis.

Marketing

California rice is the short-grain Japanese type. Our principal varieties, Caloro, Colusa and Calrose find a limited domestic market. Our big outlet is our overseas trade—Japan and the Far East—Hawaii and Puerto Rico and Cuba.
<table>
<thead>
<tr>
<th>OPERATION, CREW &amp; EQUIPMENT</th>
<th>HOURS PER ACRE</th>
<th>COST PER ACRE</th>
<th>TOTAL COST PER ACRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vetch</td>
<td>0.36</td>
<td>2.10</td>
<td>0.75</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>0.36</td>
<td>0.70</td>
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<tr>
<td>Seed</td>
<td>0.50</td>
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