

## THE ECONOMICS OF PRODUCING

## RICE

IN YUBA COUNTY

As in most agricultural crops, the most important variable in production is yield. Because of this, it is important that a grower become as efficient as possible; that is, realize the maximum production with the minimum cost per unit of production.

The grower can achieve this higher efficiency by planning the crop year completely. Unnecessary operations in ground working are costly. A rotation program, where possible, seems advantageous. Over fertilizing, as well as under fertilizing can contribute to decreased net income.

A use of proper weed sprays with the proper timing of these sprays can make an operation more efficient. The same is true with pesticides.

Much research is being conducted in finding new varieties for California. Such things as early maturity, disease resistance, long-grain varieties, stiff straw, and fertilizers as affecting varietal yield differences are being studied. Up to date information can be obtained from your farm advisor's office.

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SAMPLE COSTS TO PRODUCE RICE IN YUBA COUNTY

Yield: 4,000 pounds

Operation	Hours per Acre	Cash and Labor Cost Per Acre			Total
		Labor	Fuel and Repairs	Materials	
<b>Leveling and Checking (every 3 years)</b>					
Land plane 2 times	.6	.90	1.45	Land plane rent .75	3.10
Survey				Custom .50	.50
Checking	.2	.30	.50	Rent checker and tractor 2.60	3.40
Blading back	.2	.30	.50	Box expense 3.00	3.80
<b>Cultural</b>	<b>Total</b>	<b>1.50</b>	<b>2.45</b>	<b>6.85</b>	<b>10.80</b>
Plow	.5	.75	1.40		2.15
Disc 2 times	.6	.90	1.50		2.40
Fertilize (plane @ 90¢ CWT)				300 pounds ammonium sulfate @ \$3.00 11.70	11.70
Flood, irrigate, drain	4.5	5.75	1.00	Water - 7 feet 21.00	27.75
Seed (plane @ \$1.00 CWT)				150 pounds @ \$8.00 13.50	13.50
Spray 2 times (plane @ \$1.50)				MCP and insecticide 6.50	6.50
Duck control		1.00		.50	1.50
Taxes				4.00	4.00
Miscellaneous		1.00	.80	4.90	6.70
<b>Total Cultural</b>		<b>9.40</b>	<b>4.70</b>	<b>62.10</b>	<b>76.20</b>
<b>Harvest:</b>					
Combine - 2 combines	.6	2.70	14.30		17.00
Bank out	.6	1.00	1.50		2.50
Haul	.6	1.00	.50		1.50
Drying @ .30 CWT				12.00	12.00
<b>Total Harvest</b>		<b>4.70</b>	<b>16.30</b>	<b>12.00</b>	<b>33.00</b>
<b>Total Cash and Labor Cost</b>		<b>14.10</b>	<b>21.00</b>	<b>74.10</b>	<b>109.20</b>

Investment	Per Acre	Annual Cost	
		Depreciation	Interest @ 6%
Land	300.00		18.00
Equipment	120.00	12.00	3.60
Buildings	20.00	1.00	.60
Level and check	10.80	3.60	.30
<b>Total</b>	<b>440.00</b>	<b>16.60</b>	<b>22.50</b>

<b>Total Cost Per Acre</b>	<b>148.30</b>
<b>Cost Per CWT @ 4,000 pounds yield</b>	<b>3.70</b>

A significant variable of production of rice is cost of water. The following table shows the affect of different costs of water and different levels of yield on the cost of production.

COST PER CWT. TO PRODUCE RICE AT VARIOUS YIELDS AND WATER COSTS

Cost per Acre-foot of Water

	\$1.00	\$2.00	\$3.00	\$4.00	\$5.00
25	5.18	5.46	5.74	6.02	6.30
30	4.37	4.60	4.84	5.06	5.30
35	3.78	3.98	4.18	4.38	4.58
40	3.35	3.52	3.70	3.88	4.05
45	3.01	3.16	3.32	3.48	3.63
50	2.74	2.88	3.02	3.16	3.30
55	2.52	2.64	2.77	2.90	3.03
60	2.33	2.45	2.56	2.68	2.80

Yield in CWT.

Rice Publications

- Weed Control in Rice
- Establishing a Rice Stand
- Rice Fertilization
- Green Manures and Cover Crop Residues in Managing Rice Soils