

## 1980 SAMPLE COSTS TO PRODUCE RICE IN BUTTE COUNTY

Prepared by:

Carl M. Wick, U.C. Farm Advisor, Butte County  
Lynn A. Horel, Staff Research Associate, U.C., Davis

Based on 500 acres of rice with 6,000 lbs. dry (14% moisture) yield per acre (two varieties--one early and one late) plus 100 acres of grain on a 600-acre farm. Fields leveled to grade with straight levees.

The costs of production figures, amounts of materials used and yields shown in this study are not intended to reflect averages or recommendations but are based on a hypothetical 500-acre rice operation in Butte County.

Cultural practices, equipment, size of operation, soils and grower preference within a given area will vary for each farming operation. It is intended that this cost of production information can be used by growers to evaluate their own operation and in budgeting cash expenses.

Growers who include additional cultural practices in their operation should increase the costs approximately:

\$2.60-\$3.85 per acre for pest control when necessary (blackbirds, coots, muskrats, etc.).

\$5.80-\$8.55 per acre plus application for tadpole shrimp and algae control if needed (10-15 lbs. material).

Miscellaneous overhead in this study is obtained by taking 8 percent of the total harvest, post harvest, and cultural costs. Interest on investment is figured at 12 percent\* of one-half the original cost except on land, which is figured at full value. Depreciation\*\* in this study is based on 10-year useful life of all items except buildings, which are based on 30-year useful life--and other items as noted. Investment in equipment reflects current market prices for new equipment shown in the inventory. (Typical grower inventory value--60% of total current value.) Taxes in this study are obtained by taking 2.5% of investment per acre. Management (value placed on grower's decision-making) is figured at 5% of the market value of the crop. Growers with a cash investment in rice units may wish to include 8 percent\* interest on this investment as a production costs.

## Skilled

Equipment Driver - \$6.00 per hour\*\*  
Harvester Driver - \$7.50 per hour\*\*  
Bankout Driver - \$5.50 per hour\*\*  
Irrigator-Truck Driver - \$5.00 per hour\*\*

Unskilled - \$4.50 per hour\*\*

All costs and return figures are subject to change on a day-to-day basis.

\* If the money is borrowed on today's market, a higher interest would be required.

\*\* Includes cash wages, compensation insurance, social security, supervision, recordkeeping, and any other benefits that the employer may provide.

1980 SAMPLE COSTS TO PRODUCE RICE IN BUTTE COUNTY - Page 2

Operation	Hours per Acre	Labor and Cash Costs per Acre				Cash Costs Total
		Labor	Fuel and Repairs	Materials		
				Kind & Quantity/Acre	Costs	
<b>Cultural</b>						
Plow (Moldboard) or (Off-set disc plow)	0.33	\$2.00	\$6.70			\$ 8.70
Disc (Off-set disc harrow) or (Chisel plow)	0.16	1.00	3.95			4.95
Disc (Off-set disc harrow) (each operation)	0.16	1.00	3.95			4.95
Float (drag) or tri-plane between levees (optional)	0.16	1.00	2.70			3.70
Fertilize (Contract, aerial-applied)				120 lbs. N @ .283	\$33.95	33.95
Total material--600 cwt x 1.65, Nitrogen and Phosphorus				50 lbs. P <sub>2</sub> O <sub>5</sub> @ .27	13.50	13.50
				Total N + P <sub>2</sub> O <sub>5</sub> Appli.	9.90	9.90
Incorporate fertilizer (disc or heavy-duty spike-tooth harrow)	0.16	1.00	3.95			4.95
Insect control: rice water weevil (treat approx. 60% of total acreage @ \$5.30/acre) (Contract, aerial-applied \$2.70/acre)					3.20	3.20
				Application	1.65	1.65
Fertilize (contract applied), Zinc (treat approx. 40% of total acreage @ \$6.80/acre) (Contract, aerial-applied \$2.50/acre)					2.75	2.75
				Application	1.00	1.00
Close and maintain levees	0.10	.60	1.65			2.25
Flood and irrigate	0.75	3.75	.85	Water	13.50	18.10
Seed, certified				135 lbs. @ \$14.50/cwt	19.60	19.60
Treated and soaked (contract)				Treat \$1/cwt, Soak \$.70/cwt	1.70	1.70
Haul to airstrip		.20	.15			.35
Planting (contract, aerial-applied) \$3.25/cwt				Application	4.40	4.40
Insect control: rice leafminer &/or tadpole shrimp					.30	.30
Total area treated (contract, aerial-applied)				Application	1.60	1.60
Weed control: barnyardgrass (contract, aerial-applied)					11.55	11.55
(treat appx. 90% total acreage @ \$12.84/A) \$3/A				Application	2.70	2.70
Broadleaf weeds (contract, \$3.30/A, aerial-appli.)					1.45	1.45
(treat appx. 85% total acreage @ \$1.70/A)				Application	2.80	2.80
Fertilize, topdress (contract, aerial applied) (appx. 60% total acreage)				30# N @ \$.283, \$8.50/A	5.10	5.10
Total material - 150 cwt x 1.65				Application	2.50	2.50
Move crawler tractor (contract)				\$160/move, 4 moves	1.30	1.30
<b>TOTAL CULTURAL COSTS</b>						<b>\$168.90</b>

1980 SAMPLE COSTS TO PRODUCE RICE IN BUTTE COUNTY - Page 3

Operation	Hours per Acre	Labor and Cash Costs per Acre			Cash Costs Total
		Labor	Fuel and Repairs	Materials Kind & Quantity/Acre Costs	
<b>Harvest</b>					
Drain and open levees	0.10	\$ .60	\$ 1.65		\$ 2.25
Combine	0.75	5.60	35.90		41.50
Bankout	0.50	2.25	14.55		16.80
Haul to dryer (contract @ \$.15 cwt)					9.75
Dry (contract) 6,500# paddy (22% moisture) @ .53/cwt				\$34.45	34.45
Move combine (contract)			\$200/move, 4 moves	1.60	1.60
<b>TOTAL HARVEST COSTS</b>					<b>\$106.35</b>
<b>Post Harvest Management</b>					
Mow levees	0.03	\$ .15	\$ .70		\$ .85
Clean around boxes	0.07	.30	.20		.50
Safety & burning, water spray equipment	0.05	.25	.30		.55
Burning & encroachment permit, notice flag persons & safety equipment	0.09	.40	.20		.60
Sanitation burning	0.09	.40	.10		.50
<b>TOTAL POST HARVEST COSTS</b>					<b>\$ 3.00</b>
<b>TOTAL CULTURAL, HARVEST &amp; POST HARVEST COSTS</b>					<b>\$278.25</b>
<b>Cash Overhead</b>					
Misc., Office, Insurance, Interest on production loan, etc. (8% of Cultural, Harvest & Post Harvest Costs)				\$ 22.25	\$ 22.25
Share rent, about 25% of 60 cwt @ \$9.25				\$140.00	140.00
Taxes - headquarters & equipment (2.5% of investment per acre)					16.65
<b>TOTAL CASH OVERHEAD</b>					<b>\$178.90</b>
<b>TOTAL CASH COSTS</b>					<b>\$457.15</b>
Management - 5% of 555 (60 cwt @ estimated \$9.25/cwt - estimated price)					\$27.75
<b>Fixed Costs</b>					<b>\$ 27.75</b>
Investment	Per Acre	Depreciation	Interest 12%		
Shop and equipment storage	\$110.00	\$36.65	\$ 6.60		
Equipment*	556.00	55.55	33.35		
Total	\$666.00	\$92.20	\$39.95		\$132.15
* Typical grower equipment value 60% of 1980 value.					
<b>TOTAL COSTS OF PRODUCTION/ACRE (Cultural, Harvest, Post Harvest, Cash Overhead, Management &amp; Fixed Costs) Does not include any costs for rice units</b>					<b>\$617.05</b>
<b>TOTAL COST/CWT @ 60 CWT/ACRE</b>					<b>\$ 10.28</b>

1980 EQUIPMENT INVENTORY LIST  
(including sales tax)

	<u>Investment Cost</u>	<u>Acres Used</u>	<u>New Cost/A</u>	<u>Deprec./A</u>	<u>Interest/A</u>
Crawler tractor (125D/Bhp) + dozer blade	\$ 98,500	600	\$164	\$16.40	\$ 9.84
4-wheel drive diesel DB/hp (200)	82,000	600	137	13.70	8.22
Chisel plow 16'	4,400	600	7	.70	.42
Off-set disc plow (stubble plow) 14'	18,020	600	30	3.00	1.80
Off-set disc harrow 21'	12,720	600	21	2.10	1.26
Moldboard plow 6-16 (two) \$8,480 each	16,960	600	28	2.80	1.68
Combine SP cab + air, tracks and draper ext. (two) 16' \$95,000 each	190,000	600	317	31.70	19.02
Bankout SP cab + air, 150 cwt	47,700	600	80	8.00	4.80
Implement carrier	7,550	600	13	1.30	.78
Spike-tooth harrow, heavy-duty 20'	4,300	600	7	.70	.42
Four-wheel plane 14' x 60'	18,000	600	30	3.00	1.80
Pickup, 4-wheel drive - power & air (two) \$9,300 each	18,600	600	31	3.10	1.86
Wheel tractor (40 hp)	12,000	600	20	2.00	1.20
Mower, 7'	1,650	600	3	.30	.18
Tools & small shop equipment	9,000	600	15	1.50	.90
Tri-plane	9,500	600	16	1.60	.96
Sprayer	4,080	600	7	.70	.42
<b>TOTALS</b>	<b>\$554,980</b>		<b>\$926</b>	<b>\$92.60</b>	<b>\$55.56</b>
<b>Typical Grower Inventory Value 60% of 1980 Value</b>			<b>\$556</b>	<b>\$55.55</b>	<b>\$33.35</b>

Carl M. Wick, Farm Advisor  
University of California  
Cooperative Extension  
Butte County

Lynn A. Horel, Staff Research Associate  
Farm Management  
University of California  
Davis, California