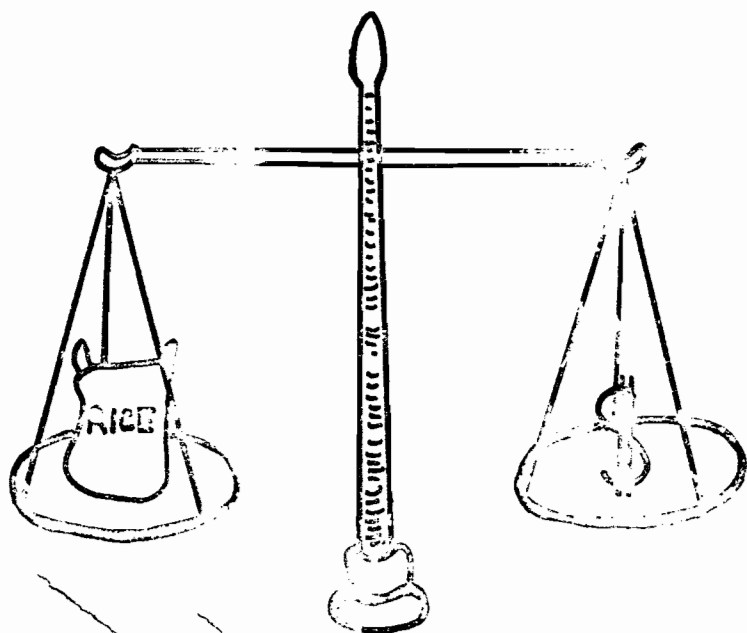


SAMPLE COSTS RICE PRODUCTION

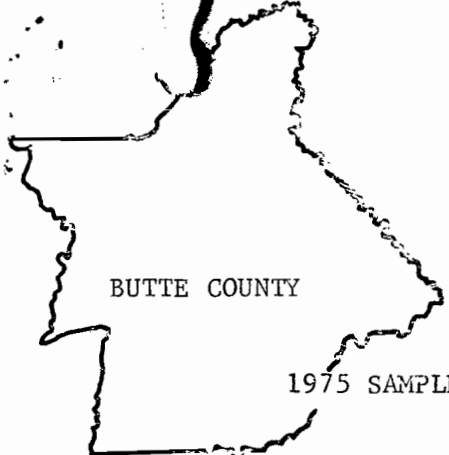
Butte County



UNIVERSITY OF CALIFORNIA
COOPERATIVE EXTENSION SERVICE

BUTTE COUNTY

MARCH 1975



COOPERATIVE EXTENSION
UNIVERSITY OF CALIFORNIA

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BUTTE COUNTY

1975 SAMPLE COSTS TO PRODUCE RICE

Based on 300 acres of rice with 5700 lbs. dry (14% moisture) yield per acre (two varieties--one early and one late) plus 100 acres of grain or safflower and 100 acres of fallow on a 500-acre diversified 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 typical 300-acre rice operation in Butte County.

A column is provided for growers to list their own costs of production which will reflect their individual operation.

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:

\$7.50-\$12.00 per acre plus application for zinc-containing materials if needed. (25-40 lbs. material)

\$1.50-\$2.25 per acre for pest control when necessary. (Blackbirds, coots, muskrats, etc.)

\$5.40-\$8.10 per acre plus application for tadpole shrimp and algae control if needed. (10-15 lbs. material)

Miscellaneous overhead is obtained by taking 6 percent of the total harvest and cultural costs.

Interest on investments is figured at 8 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 (except where used items are noted).

Growers with a cash investment in rice units may wish to include 8 percent* interest on this investment as a production cost.

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

Skilled labor - \$3.50 per hour**
harvester driver - \$5.00 per hour**
bankout driver - \$4.25 per hour**

** Includes cash wages, compensation insurance, social security, and any other benefits that the employer must pay.

Management (value placed on growers' decision-making) is figured at 5% of the market value of the crop.

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

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and growers representing rice-producing areas within Butte County and agri-business representatives.

Operation	Hours Per Acre	Labor and Cash Costs Per Acre			Cash Costs Total	My Costs/A
		Labor	Fuel and Repairs	Materials and Contract Costs		
Cultural						
Plow (Moldboard) or (off-set stubble disc plow)	.33	\$ 1.17	\$ 3.83	\$	\$ 5.00	_____
Disc (off-set disc harrow) or (chisel plow)	.16	.56	2.25		2.81	_____
Disc--off-set disc harrow (each operation)	.16	.56	2.25		2.81	_____
Float (drag) or tri-plane between levees (optional)	.16	.56	1.54		2.10	_____
Fertilize (contract-aerial applied)			(105 lbs N @ .30; 50 lbs P ₂ O ₅ @ .26 Application	44.50 9.38	53.88	_____
Incorporate fertilizer (disc or heavy-duty spike-tooth harrow)	.16	.56	2.25		2.81	_____
Insect Control: Rice Water Weevil (treat approximately 2/5 total acreage--contract-aerial applied)			Material 2/5 of \$5.80 Application 2/5 of \$2.00	2.32 .80	2.32 .80	_____
Close and maintain levees	.1	.35	.96		1.31	_____
Flood and irrigate	.75	2.63	.46	(7.2 A-ft. @ \$1.80)	12.96	16.05
Seed (contract-aerial applied) treat and soak (contract)			Seed 135 lbs @ \$16.00/cwt Treat & soak @ \$1.15/cwt Haul @ \$.21/cwt Application @ \$2.20/cwt	21.60 1.55 .28 2.97	26.40	_____
Insect Control: Rice Leafminer and/or Tadpole Shrimp (contract-aerial applied) (total area)			Material Application (shrimp-\$1.10/A)	.30 1.10	1.40	_____
Weed Control: Broadleaf (contract-aerial applied) (total area)			Material Application \$1.00/A + .15/gal	2.25 2.50	4.75	_____
Barnyardgrass (contract-aerial applied) (treat approximately 1/2 total acreage)			Material 1/2 of \$14.00 Application 1/2 of \$2.00/A	7.00 1.00	8.00	_____
Move Crawler Tractor (contract)			\$105/move-two moves	.70	.70	_____
TOTAL CULTURAL COSTS		\$ 6.39	\$13.54	\$11.21	\$131.14	
Harvest						
Drain and open levees	.1	.35	.96		1.31	_____
Combine	.75	3.75	20.55		24.30	_____
Bankout	1.0	4.25	8.33		12.58	_____
Haul to dryer	1.0	3.50	11.01		14.51	_____
Dry (contract) 6200 lbs paddy (22% moisture) @ \$.30/cwt				18.60	18.60	_____
Move harvester (contract) \$131.25/move-two moves				.88	.88	_____
TOTAL HARVEST COSTS		\$11.85	\$40.85	\$19.48	\$ 72.18	
Post Harvest						
Mow levees	.003	.12	.38		.50	_____
Clean around boxes	.066	.23	.09		.32	_____
Safety and burning						
Water spray equipment-clean up	.05	.05	.15		.20	_____
Burning and encroachment permit and notice, flagmen and safety equipment	.09	.09	.09		.18	_____
Burning	.09	.05			.05	_____
TOTAL POST HARVEST COSTS		.54	.71		1.25	
TOTAL CULTURAL, HARVEST AND POST HARVEST COSTS		\$18.78	\$55.10	\$130.69	\$204.57	

TOTAL HARVEST AND CULTURAL COSTS				\$244.57
Cash Overhead				
Miscellaneous, Office, Insurance, Interest on Production Loan, etc.				12.17
Taxes (land, headquarters, and equipment)				27.32
Total Cash Overhead				39.49
TOTAL CASH COSTS				244.06
Management = 5% of (5700 lbs @ \$11.50/cwt) \$655.50				32.78
FIXED COSTS				
Investments	<u>Per Acre</u>	<u>Depreciation**</u>	<u>Interest 8%*</u>	
Land	\$ 780.00		\$62.40	
Headquarters (shop and equipment storage)	63.00	\$ 2.10	2.48	
Equipment	523.00	52.30	20.92	
Field establishment (landplane, survey, mark contours, plow and pull levees, irrigation boxes and installation), 3-year life**	12.43	4.14	.50	
Drains and boundary roads, 15-year life**	<u>4.03</u>	<u>.27</u>	<u>.16</u>	
Total	\$1382.46	\$58.81	\$86.46	\$145.27
TOTAL Cash and Fixed Costs of Production/A (cultural, harvest, post harvest, cash overhead and management)				\$422.11/A
Does not include any costs for rice units.				
Total Costs per cwt at 57 cwts per acre				\$ 7.41/cwt

Notes: _____

		Acres Used	Cost/A	Depreciation** and Interest* per acre	
Crawler tractor (125 D/Bhp) + dozer blade	\$ 57,300	500	\$115	\$11.50	\$ 4.60
4-wheel drive diesel DB/hp (160)	35,000	500	70	7.00	
Chiesel plow 16'	2,400	500	5	.50	.20
Off-set disc plow (stubble plow) 14'	12,000	500	24	2.40	.96
Off-set disc harrow 21'	9,800	500	20	2.00	.80
Moldboard plow 6-16" (two) \$4,800 each	9,600	500	19	1.90	.76
Harvester SP 16'	45,000	400	112	11.20	4.48
Bankout SP 150 cwt	22,000	400	55	5.50	2.20
Implement carrier	3,500	500	7	.70	.28
Spiketooth harrow--heavy duty 20'	1,800	500	4	.40	.16
Landplane 14' X 60'	10,000	500	20	2.00	.80
Pickup 4-wheel drive	7,000	500	14	1.40	.56
Pickup used** (5-year life)	1,200	500	2	.20	.08
Wheel tractor (28-30 hp) used + 7' mower** (5-year life)	2,800	500	6	.60	.24
Truck + hoist and box 2 ton	12,000	500	24	2.40	.96
Tools and small shop equipment	6,000	500	12	1.20	.48
Tri-plane	5,200	500	10	1.00	.40
Sprayer	1,800	500	4	.40	.16
	\$244,400		\$523/A	\$52.30/A	\$20.92/A

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