

CE-SI-75

CEREAL
CROPS

SAMPLE COSTS
AND
PRODUCTION



Agricultural Extension
University of California
Imperial County
Court House, El Centro

Cost Data Sheet No. 3

UC Cooperative Extension

Barlen

1975-

CEREAL CROPS--PROJECTED PRODUCTION COSTS

(Barley, Wheat)

Mechanical operations at custom rates. Labor at \$3.50 per hour (\$3.00 plus Social Security, unemployment insurance, and fringe benefits).

Yield - 2.5 tons per acre. Days to maturity 70-170 days

OPERATION	Custom Rate	MATERIALS		HAND LABOR		SAMPLE COSTS Per Acre
		Type	Cost	Hours	Dollars	
LAND PREPARATION						
Disc 2x	4.50					\$ 9.00
Fertilize	4.50	190# N @ .15	28.50			33.00
Border	4.50					4.50
Float	4.00					4.00
TOTAL LAND PREPARATION						\$ 50.50
GROWING PERIOD						
Plant	5.00	Seed 80# @ .15	12.00			17.00
Irrigate 7x		3/ac ft	10.50	3.5	12.25	22.75
Weed Control	3.50	Herbicides				
		2,4-D®	2.30			5.80
Pest Control 1x	2.50	Insecticides	3.50			6.00
GROWING PERIOD						\$ 51.55
GROWING PERIOD & LAND PREP COSTS						\$ 102.05
Land Rent (new lease)						100.00
Cash Overhead - 15% of preharvest costs and land rent						30.30
TOTAL PREHARVEST COSTS						\$ 232.35
HARVEST COSTS						
Combine	(15.00 per ton acre and .30 cwt. over 1 ton)					24.00
Haul	\$.35 per ton					8.75
TOTAL ALL COSTS						\$ 265.10

Cost per ton = \$106.04

CEREAL CROPS CULTURE (Wheat)

<u>YEAR</u>	<u>ACRES</u>	<u>YIELD/ACRE</u>	<u>VALUE/TON</u>
1970	63,000	2.3	50.00
1971	45,000	2.4	59.00
1972	56,000	2.3	60.00
1973	100,000	2.6	100.00
1974	104,000	2.53	130.00

LAND PREPARATION: Where grains are to be planted in the mulch, the practice is disc, fertilize, disc, and float. Next apply the pre-mulch irrigation and when dry enough, mulch and plant.

PLANTING DATES, RATES AND DEPTH: Optimum planting date for high yields of grain is between December 1st and December 15th. Rates of seeding average 80 pounds per acre.

Seed should not be planted deeper than 3 to 4 inches if planted in the mulch. If the crop is to be irrigated up, shallow planting of 1/2 to 1 inch is best.

VARIETIES

Recommended varieties of barley are California Mariout, Numar and CM 67. CM 67 is tolerant to the yellow dwarf virus.

Several dwarf wheat varieties have performed well: Cajeme 71, Bluebird 2, Anza, etc. and several durums Produra, Crane and Cocorit.

FERTILIZATION

Imperial Valley soils usually contain sufficient phosphorus for grain production, if phosphates have been applied to other crops in the rotation. In a winter cereal - sorghum rotation, phosphates should be applied to the winter cereal. Cereals generally need added nitrogen at rates of 100 to 180 pounds per acre, depending on the previous crop. All nitrogen should be applied before stem elongation.

IRRIGATION

Pre-mulch irrigations should be heavy. Subsequent irrigations should be sufficient to maintain good growth and avoid stressing. Wheat will require about two more irrigations than barley.

WEED CONTROL

Weeds should be controlled in small grains to reduce the weed population in following crops. Consult Weed Control Recommendations - Imperial County.

INSECT CONTROL

Aphids are the only insects which consistently cause serious damage to cereals. Five chemicals are recommended for aphid control. Contact the Farm Advisor's Office for specific recommendations.

Prepared by
Imperial County
Agricultural Extension Staff

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1914. J.B. Kendrick, Jr., Director,
California Agricultural Extension