SAMPLE INPUTS AND COSTS FOR BARLEY IN SAN BENITO COUNTY

Yield 2000 lbs. after fallow - 200 crop acres on larger ranch

1961

	Hours per Acre			Cost per acre	Cost per cwt.
	Man labor	40 hp. tractor	2-ton truck		
Plow, or disc twice	0.6	0.6		1.98	
Disc or cultivate fallow twice	0,6	0.6		1.98	
Disc before planting (10' disc)	0.3	0,3		.99	
Plant, drill pulling harrow, 14'	0.22	0.2	.02	.73	
Total cultural work	1.72	1.7	.02	5.68	.28
Harvest, self-propelled combine, 12'	.5	c .5		2.35	.12
Hauling grain to farm storage, truck	.5		.5	1.75	.09
Total labor and field power	2.72	1.7,c.5	.52	9.78	.49
Seed, certified, 75 lbs. at $4.80				3.60	.18
Weed spray, av. ½ of acreage, applied contract $2,50 A.				1.25	.06
Total labor, field power and materials				14.63	.73
General expense, office, car, etc., estimated at 5% of above				.73	
County taxes, land $40 at 4%, $1.60 x 2 yrs., equipment .50				3.70	
Repairs to equipment other than tractor and truck				2.00	
Insurance, compensation, social security, grain, etc.				.50	
Total cash overhead costs				6.93	.35
Total cash costs				21.56	1.08

Investment overhead based on 200 acres of grain with some other ranch use	Orig. total cost	Av. value	6% int.	Depreciation		
		Dollars per acre				
Building for equipment	1800	4.50	.27	.18		
Land, agr. value $150 A. 2 yrs.	--	300.00	18.00	--		
Sub total real estate		304.50	18.27	.18		
Tillage equipment	2400	6.00	.36	1.20		
Drill - 14'	1000	2.50	.15	.25		
Grain storage equipment or tanks	1500	3.75	.22	.38		
Combine, self-propelled	8000	20,00	1.20	2.67		
40 hp. diesel crawler tractor	11500	19.17	1.15	2.55		
2-ton truck with grain box	3800	4.75	.29	.95		
Miscellaneous eqt. & small tools	500	1.25	.08	.25		
Total grain investment & deprec.	--	361.92		8.43	8.43	.42
Total cash costs & depreciation					29.99	1.50
Interest on investment			21,72		21.72	1.09
Total all costs, owner operator basis					51.71	2.59
Less value of stubble for pasture					2.00	.10
Net cost of barley					49.71	2.49

The labor costs above are figured at the following hourly rates: Man labor $1.50, 40 hp. crawler tractor $1.80, 2 ton truck $2.00, self-propelled combine $3.20. These rates are estimated to cover cash costs only for fuel, oil, and repairs and license and insurance for truck.

Part of the equipment (1/3 of cost of tractor & ½ of cost of truck) for which original cost is shown is assumed to be used for other enterprises on the ranches to which the above schedule would apply. Average value per acre as shown is estimated at half of the original cost of items that depreciate. This value is also as charged to the grain.

Ownership of a small combine is shown. Combining cost would be the $2.35 per acre labor and field power cost, .12 general expense .12 taxes and $3.87 for interest and depreciation on the combine for a total of $6.46 per acre, which is probably above the price for which it could be hired.

Field Crops
Barley

University of California
Agricultural Extension Service

Hollister
September, 1961

GROWING BARLEY IN SAN BENITO COUNTY

H. Bill Collins, Farm Advisor
Arthur Shultis, Extension Economist

Barley Production in San Benito County: Barley is the most widely planted dryfarmed crop grown in San Benito County. Of 20,000 acres planted annually approximately two thirds is harvested for grain, and the balance is cut for hay or pastured. Grain yields average 1600 pounds per acre and hay production from 800 to 4000 pounds per acre. However, normal grain yields on good summer fallow land will approximate 2000 pounds per acre.

Fertilization: Increased yields from fertilization have not generally offset costs of fertilizing on summer fallow ground. Certain shallow soils similar to the Rincon series have a low level of available phosphates. Applications of phosphate fertilizers to these fields will improve production. Nitrogen fertilizer applied during short rainfall years may depress yields.

Varieties: Highest yielding adapted varieties include Blanco Mariout, California Mariout, Arivat, Rojo, Club Mariout and Atlas. During years of short rainfall, or when barley is planted late, early maturity is important. The earliest maturing varieties, California and Blanco Mariouts, are followed in order by Arivat, Atlas, Club Mariout and Rojo.

Yellow Dwarf: Yellow Dwarf, a serious virus disease of barley, is transmitted by aphids. Its presence in a field depresses yields and sometimes completely destroys a crop. Until resistant strains of barley can be developed, best control lies in timely planting. Barley that is comparatively mature at the time the aphid invades the field is not injured as much as early or late planted grain. Best yields can be expected from barley planted between November 15 and January 15.

Sample Costs: The sample cost schedule on the other side of this sheet has been prepared to fit the typical situation where a rancher has about 400 acres of tillable land on which he grows barley on a fallow basis, having about 200 producing acres a year. It was assumed that equipment needed would be owned, although part of the overhead costs are charged to other uses on the ranch. This still results in rather high overhead costs of interest and depreciation. The crop land is valued at $150 an acre, which may be below current market value. Taxes and interest on the land for two years make up a considerable part of the total cost of growing barley.

Cost Summary: Sample Inputs and Costs for Barley in San Benito County on the reverse side of this sheet show all costs at $2.59 per hundred lbs. A general breakdown of these costs is shown at the right. Since most land where barley is grown is not suited for crops other than small cereal grains or pasture, growers will continue to grow barley at present market prices, provided they can disregard one or more of the listed costs.

Total cash costs	1.08 per cwt.
Total depreciation costs	.42 per cwt.
Total interest on real estate value	.91 per cwt.
Total interest on equipment value	.18 per cwt.
	2.59

Costs of Production Per CWT. at Varying Yields

Based on Sample Inputs and Costs for Barley in San Benito County
(Assuming all other costs the same other than hauling grain from field)

Yield - Pounds per acre	1000	1500	2000	2500	3000	3500	4000
Cost per cwt.	$4.92	$3.29	$2.49	$2.01	$1.70	$1.45	$1.24