

IRRIGATED BARLEY - DOUBLE CROPPED - TULARE COUNTY

## Cost Analysis Worksheet 1985

Sample costs to produce barley in Tulare County, based on a yield of 4,000 lbs. per acre. Field labor at \$4.50 per hour and equipment operator at \$5.00 per hour; these include benefits. Medium wheel, 80 hp tractor cash costs \$8.50, depreciation \$2.58, and interest \$1.68. Heavy tractor - 130 hp. Cash costs \$16.01, depreciation \$9.17 and interest \$5.96.

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	SAMPLE COSTS		MY COSTS	
	PER ACRE	PER CWT	PER ACRE	PER CWT
<u>Pre-harvest Cash Costs</u>				
Land Preparation: 2 hrs. labor - 1 hr. heavy tractor, \$34.51 1 hr. med. tractor				
Plant: 1/3 hr. medium tractor		4.45		
Seed: 90 lbs. @ 13¢		11.70		
Fertilizer: 100 lbs. N @ 18¢/lb., source NH <sub>3</sub>		18.00		
40 lbs. P <sub>2</sub> O <sub>5</sub> @ 33¢/lb.		13.00		
Application: custom		7.00		
Broadleaf weed control: air application @ 5.00 material \$3.00		8.00		
* aphid control if needed: air application \$5.00 material \$5.60		.00		
Irrigate: 1 pre and 2 crop - labor 3 hrs.		13.50		
Water: (combined canal, pumping district assessment) 1 1/2 acre ft. @\$20/A ft		30.00		
Miscellaneous: Labor, material, 1 hr. man + med. tractor		20.00		
Repairs, except tractors (1/2 cost)		10.00		
Office, car, business costs (1/2 cost)		10.00		
County taxes (1/2 cost)		5.00		
Land Cost (1/2 cost)		62.50		
Interest on operating cost = (total pre-harvest cash cost) ÷ 2 X 13%		16.11		
<b>TOTAL PRE-HARVEST CASH COSTS</b>		<b>\$263.97</b>	<b>\$6.60</b>	
<u>Harvesting Costs</u>				
Combine: \$14.00/A + \$7/ton		\$28.00		
Hauling: 25.5¢/cwt. - 10 miles		10.20		
<b>TOTAL HARVESTING COSTS</b>		<b>\$38.20</b>	<b>\$ .96</b>	
<b>TOTAL CASH COSTS</b>		<b>\$302.17</b>	<b>\$7.58</b>	
<u>Depreciation</u>				
Irrigation system (1/2 cost) original cost \$350 16 yr. life		10.94		
Tractor 80 hp diesel wheel: 2.3 hr 130 hp, 1 hr.		5.93		
		9.17		
Other equipment (1/2 cost) of \$100 over 10 yrs.		5.00		
<b>TOTAL DEPRECIATION</b>		<b>\$31.64</b>	<b>\$ .78</b>	
<b>TOTAL CASH AND DEPRECIATION COSTS</b>		<b>\$333.21</b>	<b>\$8.33</b>	

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	SAMPLE COSTS		MY COSTS	
	PER ACRE	PER CWT	PER ACRE	PER CWT
<u>Interest on Investment - (@ 13% interest)</u>				
Irrigation system: 1/4 of \$450	\$11.38			
Tractor: 80 hp diesel wheel, 2.3 hr.	3.86			
130 hp - 1 hr.	5.96			
Other equipment: 1/4 of \$100	3.25			
<u>TOTAL INTEREST</u>	<u>\$24.45</u>	<u>\$ .61</u>		
<u>TOTAL COST OF PRODUCTION</u>	<u>\$357.66</u>	<u>\$8.94</u>		

COST PER CWT AT VARYING YIELDS

Yield lbs./Acre	2000	3000	4000	5000	6000	7000
Cash cost per cwt.	15.11	10.07	7.55	6.04	5.04	4.32
<u>Total cost per cwt.</u>	<u>17.88</u>	<u>11.92</u>	<u>8.94</u>	<u>7.15</u>	<u>5.96</u>	<u>5.11</u>

Barley sold at \$90/T = \$4.50/cwt.

\$100/T = \$5.00/cwt.

\$110/T = \$5.50/cwt.

\$120/T = \$6.00/cwt.

This cost analysis worksheet should be used only as a guide to assist producers in determining their production costs and as an aid in helping analyze costs and procedure. The figures shown are based on what are considered good management practices and do not represent industry averages.

There is a great deal of variation in production costs between areas within a county. For example, tractor size, tillage operations, number of trips and materials may be different for neighboring farmers. Water costs will especially vary between different areas.

The land cost is a value related to rental costs rather than the interest on the market value. For the person renting land, the rental price should be substituted for land cost; also, interest and depreciation on the irrigation system and county taxes should be eliminated.

\* Aphid control - This treatment is required only in limited areas.