

IRRIGATED BARLEY - DOUBLE CROPPED - SAN JOAQUIN VALLEY

Cost Analysis Worksheet - 1985

Sample costs to produce wheat in the San Joaquin Valley, based on a yield of 5,000 lbs./A. Field labor at \$4.50/hr and equipment operator at \$5.00/hr; this includes benefits. Medium wheel, 80 hp. tractor hr. cash costs \$8.50, depreciation \$2.58, and interest \$1.68. Heavy wheel tractor - 130 hp hr. 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. man + med. tractor	4.45			
Seed: 120 lbs. @ 11¢	13.20			
Fertilizer: 160 lbs. N @ 18¢, source NH ₃	28.80			
40 lbs. P ₂ O ₅	13.20			
Application: 1 custom, 1X in water	7.00			
Broadleaf weed control: air application \$5.00, material \$3.00	8.00			
* Aphid control if needed: air application \$5, material \$4	00.00			
Irrigate: 1 pre and 3 crop - labor 4 hrs.	18.00			
Water: (combined canal, pumping, district assessment) 2 acre ft. @ \$20/ft.	40.00			
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 allocated to farming (1/2 cost)	62.00			
Interest on operating costs = (total pre-harvest cash cost) ÷ 2 X 13%	17.85			
TOTAL PRE-HARVEST CASH COSTS	\$292.51	\$5.85		
<u>Harvesting Costs</u>				
Combine: \$14/acre + \$7/ton	33.50			
Hauling: \$25.5¢/cwt. - 10 miles	12.75			
TOTAL HARVESTING COSTS	\$46.25	\$.93		
TOTAL CASH COSTS	\$338.76	\$6.67		
<u>Depreciation</u>				
Irrigation system (1/2 cost) orig. cost \$350 16 yr. life	10.94			
Tractor 80 hp. diesel wheel: 2.3 hr.	5.93			
130 hp., 1 hr.	9.17			
Other equipment, \$100 over 10 yrs. (1/2 cost)	5.00			
TOTAL DEPRECIATION	\$31.04	\$.62		
TOTAL CASH AND DEPRECIATION COSTS	\$369.80	\$7.36		

(over)

	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>		\$24.45	\$.61	
<u>TOTAL COST OF PRODUCTION</u>		\$357.66	\$8.94	

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
Total cost per cwt.	17.88	11.92	8.94	7.15	5.96	5.11

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 procedures. 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 regions. 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.