

# BARLEY

## 1989 Sample Costs Siskiyou County



Siskiyou County - Scott Valley

Labor Rate: \$7.00/hr. skilled labor Interest Rate: 12%  
 \$5.40/hr. field labor Yield (tons/acre): 2.5

Operation	Tractor/ Implement		Hours	Cash and Labor Costs per Acre					Total Cost	Your Cost
	No.	Implement No.		Labor Cost/A	Fuel & Repairs	Material Cost	Custom /Rent			
CULTURAL COSTS:										
Plow	1	11	.33	2.54	\$5.35				\$8	
Disk	1	9	.25	1.92	3.54				5	
Rotera	2	15	.33	2.54	3.17				6	
Plant (120 lbs. seed)	3	17	.33	2.54	5.15	\$12.00			20	
Fertilize						33.95	2.50		36	
Herbicide						2.08	3.50		6	
Irrigate 3X	20	23	1.00	7.00	.23	2.08	3.50		13	
Charges for pick-up use						2.61			3	
Interest on operating capital @ 12%									6	
TOTAL CULTURAL COSTS			2.24	\$16.54	\$20.26	\$50.11	\$9.50		\$102	
HARVEST COSTS:										
Custom harvest								20.00	20	
TOTAL HARVEST COSTS								\$20.00	\$20	
CASH OVERHEAD:										
Office and business costs									\$8	
Building & Equipment Taxes									3	
Land rent									40	
Equipment Insurance									3	
TOTAL CASH OVERHEAD COSTS									\$53	
TOTAL CASH COSTS									\$175	
TOTAL CASH COST PER TON @ 2.5 tons/acre									\$70	
INVESTMENT:										
	Per Acre			Annual Cost						
				Depreciation	Interest @ 12%					
Equipment & buildings	317			26.12	19.01				45	
Irrigation system	338			14.69	20.28				35	
TOTAL INVESTMENT COSTS			655	\$40.81	\$39.29				\$80	
TOTAL COSTS PER ACRE									\$255	
TOTAL COST PER TON @ 2.5 tons/acre									\$102	

MONTHLY SUMMARY OF  
SAMPLE COSTS TO PRODUCE BARLEY

Siskiyou County - Scott Valley

Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
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CULTURAL COSTS:													
Plow			7.9										\$8
Disk			5.5										5
Rotera			5.7										6
Plant			19.7										20
Fertilize			36.5										36
Herbicide				5.6									6
Irrigate 3X					4.3	4.3	4.3						13
Charges for pick-up	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	3
Int.operating capital			.8	.8	.9	.9	1.0	1.2					6
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TOTAL CULTURAL COSTS			\$76	\$7	\$5	\$5	\$5	\$1					\$102
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HARVEST COSTS:													
Custom harvest								20.0					20
-----													
TOTAL HARVEST COSTS								\$20					\$20
=====													
CASH OVERHEAD:													
Office and business	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	8
Bldg./equip. taxes				1.6								1.6	3
Land rent	40.0												
Equipment Insurance	2.6												3
-----													
TOTAL CASH OVERHEAD	\$43	\$1	\$1	\$2	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$2	\$53
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TOTAL CASH COSTS	\$43	\$1	\$77	\$9	\$6	\$6	\$6	\$22	\$1	\$1	\$1	\$2	\$175
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Interest Rate:

12%

Fuel Cost per Gallon \$.60

diesel

\$.93 gasoline

ITEM #	DESCRIPTION	NEW COST	ANNUAL COST		LIFE (HRS)	YEARS ----OVERHEAD*----			--- HOURLY COSTS ---			
			USE (ACRES)	PER ACRE		TO DEPREC- IATION	INTEREST*	TAR*	FUEL* REPAIRS*	TOTAL		
Tractors:												
1	2WD Wheel-130 HP	\$60,000	800	\$75.00	12,000	15	\$5.0	\$4.50	120%	\$6.01	\$6.0	\$12.01
2	2WD Wheel-80 HP	40,000	800	50.00	12,000	15	3.33	3.00	120	3.22	4.00	7.22
3	2WD Wheel-65 HP	30,000	800	37.50	12,000	15	2.50	2.25	120	2.61	3.00	5.61
4	2WD Wheel-60 HP	20,000	800	25.00	12,000	15	1.67	1.50	120	2.41	2.00	4.41
5	Swather, SP - 14'	40,000	800	50.00	2,500	10	5.00	3.00	100	1.80	16.00	17.80
6	2 - Darf turning rakes	2,000	800	2.50	2,500	10	.25	.15	100		.80	.80
7	Vermeer rake, 12'	5,000	800	6.25	2,500	10	.63	.38	100		2.00	2.00
8	Darf V rake	2,000	800	2.50	2,500	10	.25	.15	100		.80	.80
9	Tandem disc, 14'	4,500	800	5.63	2,500	15	.38	.34	120		2.16	2.16
10	3 Twine Balers X 3	35,000	800	43.75	2,500	10	4.38	2.63	100		14.00	14.00
11	Moldboard, 4-18"	7,000	800	8.75	2,000	15	.58	.53	120		4.20	4.20
12	Harrow bed	60,000	800	75.00	2,000	10	7.50	4.50	80	6.51	24.00	30.51
13	Sprayer	2,000	800	2.50	1,200	10	.25	.15	100		1.67	1.67
14	Hay squeeze	15,000	800	18.75	2,500	15	1.25	1.13	100		6.00	6.00
15	Roteria, 12'	5,000	800	6.25	2,500	10	.63	.38	120		2.40	2.40
16	Chain link harrow	1,200	800	1.50	2,500	10	.15	.09	120		.58	.58
17	Grain drill, 12'	12,000	800	15.00	1,200	10	1.50	.90	100		10.00	10.00
18	Flail, mower	2,500	800	3.13	2,500	10	.31	.19	100		1.00	1.00
19	Cultipacker	3,200	800	4.00	2,500	15	.27	.24	80		1.02	1.02
Irrigation System:												
21	21 wheel lines, 1700'	126,000	800	157.50	40,000	10	15.75	9.45	5		.16	.16
22	4 Pumps, 75 hp	32,000	800	40.00	120,000	30	1.33	2.40	20	.07	.05	.12
22	2 Booster pumps, 30 hp	5,000	800	6.25	120,000	30	.21	.38	20	.07	.01	.08
23	5 Wells- 80' & mainlines	287,600	800	359.50	200,000	50	7.19	21.57	5		.07	.07
24	Pick-up	14,000	800	17.50	1,000	5	3.50	1.05	25		3.50	3.50
25	2 - ATVs	6,000	800	7.50	1,000	5	1.50	.45	15		.90	.90
Buildings:												
	Farm shop	20,000	800	25.00		35	.71	1.50				
	Storage buildings	7,000	800	8.75		35	.25	.53				
	Hay storage (700 ton)	25,000	800	31.25		25	1.25	1.88				
	Shop tools	4,000	800	5.00		10	.50	.30				
TOTAL COST		\$873,000		\$1,091			\$68	\$65				
60% OF NEW COSTS*		\$523,800		\$655			\$41	\$39				

## \* DEFINITIONS:

YEARS TO TRADE----- The projected life of the machine in years adjusted for excessive annual use.

OVERHEAD ----- Per acre per year.

DEPRECIATION ----- "COST PER ACRE" divided by "YEARS TO TRADE"

INTEREST----- ("COST PER ACRE" X "INTEREST RATE") divided by 2 = average interest cost per acre per year.

TAR----- Total accumulated repairs. The total cost of repairs during the machine's life expressed as a percent of "NEW COST". Calculated from equations based on equipment type and annual use.

HOURLY COST OF FUEL----- Diesel fuel, oil and lube costs per hour = HP x cost of diesel fuel/gal X 0.0667.

Gasoline fuel, oil and lube costs per hour = HP x cost of gasoline/gal X 0.0889.

HOURLY COST OF REPAIRS-- ("NEW COST" X "TAR") divided by ("LIFE IN HOURS").

60% OF NEW COSTS ----- Used to reflect a mix of new and used equipment.

## COSTS TO PRODUCE BARLEY AT VARYING PRICES AND YIELDS

	YIELD (Tons/acre)						
	1.75	2.00	2.25	2.50	2.75	3.00	3.25
Cultural Costs	102	102	102	102	102	102	102
Harvest Costs	20	20	20	20	20	20	20
Cash Overhead	53	53	53	53	53	53	53
Cash cost/acre	175	175	175	175	175	175	175
Cash cost/ton	100	88	78	70	64	58	54
Investment cost	80	80	80	80	80	80	80
TOTAL COST/ACRE	255	255	255	255	255	255	255
TOTAL COST/TON	146	128	114	102	93	85	79

## INCOME ABOVE CASH COSTS AT VARYING PRICES AND YIELDS

\$ per Ton	YIELD (Tons/acre)						
	1.8	2.0	2.3	2.5	2.8	3.0	3.3
75	-44	-25	-7	12	31	50	68
80	-35	-15	5	25	45	65	85
85	-27	-5	16	37	58	80	101
90	-18	5	27	50	72	95	117
95	-9	15	38	62	86	110	133
100		25	50	75	100	125	150
105	8	35	61	87	113	140	166

## INCOME ABOVE ALL COSTS AT VARYING PRICES AND YIELDS

\$ per Ton	YIELD (Tons/acre)						
	1.8	2.0	2.3	2.5	2.8	3.0	3.3
75	-124	-105	-87	-68	-49	-30	-12
80	-115	-95	-75	-55	-35	-15	5
85	-107	-85	-64	-43	-22		21
90	-98	-75	-53	-30	-8	15	37
95	-89	-65	-42	-18	6	30	53
100	-80	-55	-30	-5	20	45	70
105	-72	-45	-19	7	33	60	86