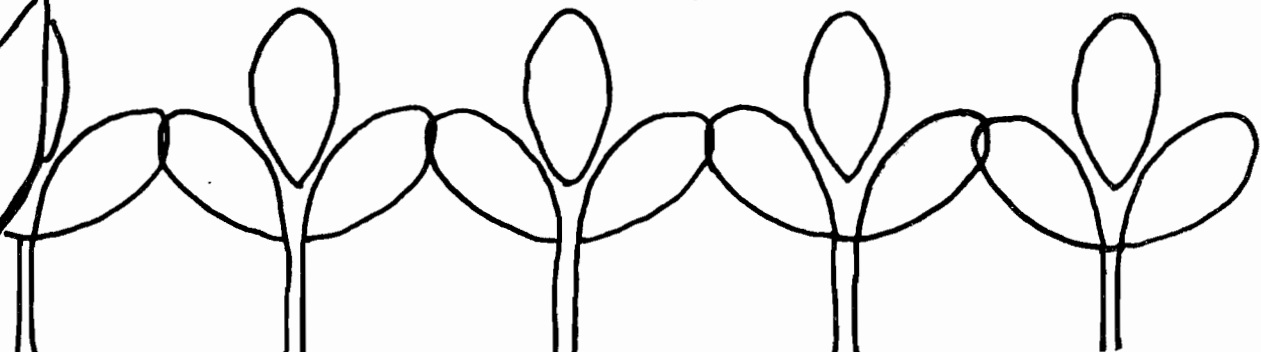
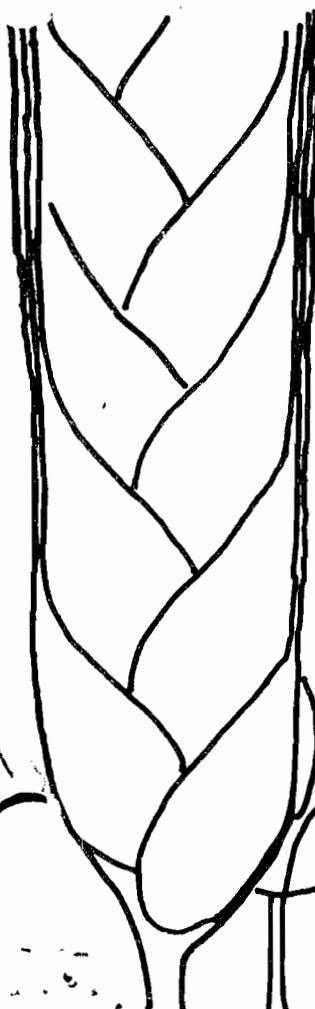


LASSEN - PLUMAS - SIERRA COUNTIES
PRODUCTION COSTS



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LASSEN - PLUMAS - SIERRA COUNTIES PRODUCTION COSTS

The information which you will find enclosed in this publication is an effort to update the costs of production of beef cattle and some of the major crops of the area. As many of you know, the production costs have been rising rapidly due to fuel shortages, and many other factors. While on the other hand, prices received for beef cattle are now about half of the amount paid in the high year of 1973.

It is realized that each of the operations in the area have a set of costs which are different from their neighbor, depending on labor, equipment used, and many other factors which influence production costs. However, if the producer can use these as guidelines and plug in his own costs, the information may be helpful in making management decisions.

**BEEF BREEDING HERD INCOME AND COSTS
FEEDING HIGH QUALITY ALFALFA**

Lassen County - 1974

Based on 400 cow herd, 80% calf crop, 2% mortality, 20% replacement
selling 12 month old calves

<u>Investment</u>	Value per cow	Total Ranch
Range land 7.05 acres @ 50	\$	375.00
Meadow land .7 acres @ 225		157.50
Alfalfa land .3 acres @ 500		150.00
Fences		100.00
Building, corrals, etc.		82.50
Irrigation system		102.15
Alfalfa stand		15.00
Equipment		237.30
Horses and saddles		6.25
Cows		350.00
Bulls		28.00
Heifers		90.00
TOTAL INVESTMENT		\$1,693.70
<u>Income</u>		
Steers .395 @ 750 lb. - 296 lb. @ .33¢		97.80
Heifers .198 @ 700 lb. - 139 lb. @ .23¢		31.90
Cows .18 @ 1,000 lb. - 180 lb. @ .23¢		41.40
Bulls .01 @ 1,400 lb. - 14 lb. @ .25¢		3.50
Other: Meadow hay .15 ton @ \$40		6.00
TOTAL INCOME		\$ 180.60
<u>Expense</u>		
Range		3.50
Concentrate		.50
Salt		1.00
Total Feed		5.00
Labor		51.60
Bull replacement		7.00
Veterinary and medicine		8.00
Taxes		19.55
Equipment		29.90
Miscellaneous overhead		18.00
Building repair		6.90
Irrigation power		14.00
Fertilizer, pest control, haul, wire		37.95
Interest on operating capital		11.70
Cash cost		211.00
Depreciation		34.00
Interest on investment		114.00
Management		8.75
TOTAL EXPENSE		\$ 367.75
NET INCOME		\$ <187.15>

BEEF BREEDING HERD INCOME AND COSTS

Lassen County - 1975

Based on 400 cow herd, 80% calf crop, 2% mortality, 20% replacement, selling 8 month old calves.

<u>Investment</u>	Value per cow Total Ranch
Range land 7.75 acres @ 50	\$ 375.00
Meadow land .7 acres @ 225	157.50
Alfalfa land .3 acres @ 500	150.00
Fences	100.00
Buildings, corrals, etc.	82.50
Irrigation system	102.15
Alfalfa stand	15.00
Equipment	237.30
Horses and saddles	6.25
Cows @ \$250 ea.	250.00
Bulls @ \$700 ea.	28.00
Heifers	90.00
TOTAL INVESTMENT	\$ 1,593.70
<u>Income</u>	
Steers .4 @ 450 lb. - 180 lb. @ 34¢	61.20
Heifers .2 @ 425 lb. - 85 lb. @ 24¢	20.40
Cows .2 @ 1,000 lb. - 200 lb. @ 23¢	46.00
Bulls .01 @ 1,400 lb. - 14 lb. @ 25¢	3.50
Other: Meadow hay .55 ton @ \$40	22.00
TOTAL INCOME	\$ 113.90
<u>Expense</u>	
Range - Forest Service AUM @ 1.17	3.50
Concentrate	.50
Salt	1.00
Total feed	5.00
Labor @ \$3 per hour	51.60
Bull replacement	7.00
Veterinary and medicine	8.00
Taxes	19.55
Equipment	29.90
Miscellaneous overhead	18.00
Building repair	6.90
Irrigation power	14.00
Fertilizer, pest control, haul, wire	37.95
Interest on operating capital	11.70
Cash cost	209.60
Depreciation	23.90
Interest on investment 7%	111.50
Management 5% at \$113.90	5.70
TOTAL EXPENSE	\$ 350.90
NET INCOME	\$ -237.00

COSTS OF GRAZING CATTLE ON
FOREST SERVICE AND BLM PERMITS

Modoc-Lassen Counties - 1973

By Cecil Pierce, Carl Rimbey and Doyle Reed

	Record Number											1973	1972 AV.
	1	2	3	4	5	6	7	8	9	10	11	AV.	8 records
Forest Service													
Head	113	144	138	465	164	181	450	89	300	120	99	206	159
Days	106	109	124	107	138	140	122	153	122	66	111	118	125
Head months	400	504	570	1628	738	845	1800	445	1200	264	250	786	628
Cost per head month													
Labor	.66	1.11	1.42	1.23	1.67	1.60	1.20	2.08	1.85	2.75	4.93	1.86	1.24
Truck	.02	---	.41	.79	1.12	.74	.85	.16	3.02	5.45	.31	1.17	.55
Pickup	.13	.26	.15	.39	.06	.23	.72	1.08	.44	.55	.10	.37	.17
Trailer	---	---	---	.01	---	.04	.33	.18	---	.10	---	.06	.02
Horse	.26	.54	.85	.52	.37	.47	.66	.77	.91	1.52	3.52	.94	.66
Fencing	---	---	---	---	---	---	---	---	.01	---	3.03	.28	.01
Water	---	.48	---	---	---	.34	---	1.79	---	---	---	.24	.03
Salt	.06	.12	.05	.06	.07	.05	---	.32	.10	---	.02	.08	.05
Possessory													
interest	.17	.17	.17	.17	.17	.17	.17	.17	.19	.17	.17	.17	.14
Grazing fee	.95	.95	.95	.95	.98	.95	.95	.95	1.07	.95	.98	.97	.89
TOTAL	2.25	3.63	4.00	4.12	4.44	4.59	4.88	7.50	7.59	11.49	13.06	6.14	3.76

COSTS OF GRAZING CATTLE ON
FOREST SERVICE AND BLM PERMITS

Modoc/Lassen Counties - 1973
(Continued)

	Record Number											1973 AV.	1972 AV. 6 records	
	1	2	3	4	5	6	7	8	9	10	11			
BLM														
Head	33	600	300	585	107	254	56	65					250	239
Days	153	80	201	116	123	163	145	138					140	116
Head months	165	1600	2025	2233	428	1354	270	292					1046	775
Cost per head month														
Labor	.33	.42	.42	.92	1.00	1.53	1.79	1.57					1.00	1.14
Truck	---	.18	.32	.58	.83	.38	1.04	.29					.45	.40
Pickup	.03	---	.07	.02	---	.64	.15	1.11					.25	.16
Trailer	---	---	.04	---	---	.27	---	.20					.06	.01
Horse	---	.32	.12	.67	.80	1.04	.95	.77					.58	.63
Fencing	.18	---	---	.02	---	---	---	.07					.03	.23
Water	---	---	---	---	---	---	---	---					---	.07
Salt	.03	---	---	.02	---	.06	.03	.09					.03	.02
Possessory interest	.13	.13	.13	.13	.13	.13	.13	.13					.13	.13
Grazing fee	.78	.78	.78	.78	.78	.78	.78	.78					.78	.66
TOTAL	1.48	1.83	1.88	3.14	3.54	4.83	4.87	5.01					3.31	3.45

SAMPLE COSTS TO PRODUCE WHEAT - FLOOD IRRIGATED

Lassen County - 1975

Production data: 4,500 lbs. yield. Labor @ \$3 including social security and comp. insurance.

Operation	Hours Per Acre	Cash and labor cost per acre				Total
		Labor	Fuel and repairs	Kind and Quantity	Materials Cost	
Cultural Costs						
Plow	.5	1.50	1.70			\$ 3.20
Disk	.3	.90	.90			1.80
Landplane				Contract	\$ 5.00	5.00
Run borders	.5	1.50	.30			1.80
Plane checks	.3	.90	.90			1.80
Pre-irrigate	.6	1.80	.50	Power to pump 1/2 a.f. @ \$2.20	1.10	3.40
Drill, seed, fertilize, cultipack	.5	1.50	1.80	75# seed	4.00	7.30
Fertilizer				50# N @ 30¢	15.00	15.00
Fertilize in spring - ground rig	.3	.90	.15	50# N @ 30¢	15.00	16.05
Cultipack for crust	.2	.60	2.20			2.80
Irrigate 2 times	2.0	6.00	.40	Power to pump 1 a.f. @ \$2.20	2.20	8.60
Weed spray	.2	.60	.15	1 1/2 pts. 2,4-D	1.80	2.55
TOTAL CULTURAL COSTS		\$16.20	\$9.00		\$44.10	\$69.30
Harvest Costs						
Combine				Contract 1/2 hr. @ \$18	9.00	
TOTAL HARVEST COSTS						\$ 9.00
Cash overhead						
Misc., office, etc.					4.30	
Taxes					10.00	
TOTAL CASH OVERHEAD						\$ 14.30
TOTAL CASH COST		\$16.20	\$9.00		\$66.30	\$ 91.50
Management 5% of 2 1/4 tons @ \$100						11.25
INVESTMENT						
	Per Acre			Annual Cost		
Land	\$300.			Depreciation	Interest - 8%	
Leveling	90.				\$24.00	
Irrigation system	125.			\$ 8.35	7.20	
Equipment	105.			10.50	5.00	
Total	\$620.			\$18.85	\$40.40	
TOTAL COST PER ACRE						59.25
Cost per cwt @ 45 cwt yield						\$162.00
						3.60

SAMPLE COST TO ESTABLISH ALFALFA - FLOOD IRRIGATION

Lassen County - 1975

Production data: Labor @ \$3 including social security and comp. insurance.

Operation	Hours Per Acre	Cash and labor cost per acre				Total
		Labor	Fuel and repairs	Kind and Quantity	Materials Cost	
<u>Cultural costs</u>						
Landplane				Contract	\$ 5.00	\$ 5.00
Fertilize	.3	.90	.15			1.05
Fertilizer				200# sulphur	5.40	5.40
Disc - 1 time	.3	.90	.90			1.80
Harrow - 1 time	.3	.90	.60			1.50
Check	.3	.90	.90			1.80
Drill - 1 time	.3	.90	1.10			2.00
Seed				16# @ 75¢/lb.	12.00	12.00
Ditch	.2	.60	.30			.90
Irrigate - 3 times	3.0	9.00		Power to pump 1 a.f. @ \$2.20	2.20	11.20
Weed control (post emergence)	.2	.60	.30	2,4 DB - 1# active	10.70	11.60
Weed control (preplant)	.8	2.40	2.10	Eptam - 3-4#	9.70	14.20
TOTAL CULTURAL COSTS		\$17.10	\$6.35		\$45.00	\$ 68.45
<u>Harvest costs</u>						
Harvest				Custom 1 1/2 tons @ \$15/T	22.50	
TOTAL HARVEST COSTS						\$ 22.50
<u>Cash overhead</u>						
Misc., office, etc.					4.30	
Taxes					10.00	
TOTAL CASH OVERHEAD						\$ 14.30
TOTAL CASH COST		\$17.10	\$6.35		\$81.80	\$105.25
<u>INVESTMENT</u>						
	<u>Per Acre</u>			<u>Annual Cost</u>		
Land	\$500.			<u>Depreciation</u>	<u>Interest - 8%</u>	
Irrigation system	125.			\$ 8.35	\$40.00	
Equipment	265.			26.50	5.00	
Total	\$890.			\$34.85	\$55.60	
TOTAL COST PER ACRE						\$ 95.70
Less income from harvest 1 1/2 T @ \$60						- 90.00
TOTAL COST TO ESTABLISH ALFALFA/ACRE						\$105.70

SAMPLE COSTS TO PRODUCE ALFALFA - FLOOD IRRIGATION

Lassen County - 1975

Production data: 5.5 ton yield. Labor @ \$3/hr. including social security and comp. insurance.

Operation	Hours Per Acre	Cash and labor cost per acre				Total
		Labor	Fuel and repairs	Materials		
				Kind and Quantity	Cost	
<u>Cultural costs</u>						
Irrigate--8 times	8.0	\$24.00	\$4.00	Water: 4 ac. ft. @ \$2.20	\$ 8.80	\$ 36.80
Fertilize				Sulphur 50# @ 3¢	1.50	1.50
	.2	.60	.30	Application		.90
Gopher control	.1	.30	.10		1.00	1.40
Herbicide--1/2 times	.2	.60	.30		3.00	3.90
TOTAL CULTURAL COSTS		\$25.50	\$4.70		\$14.30	\$ 44.50
<u>Harvest costs</u>						
Swath--3 times	.75	2.25	2.35			4.60
Turn windrows	.60	1.80	.75			2.55
Bale--3 times	.60	1.80	1.65	Wire \$4/ton	22.00	25.45
Roadside				5.5 tons @ \$4	22.00	22.00
TOTAL HARVEST COSTS		\$ 5.85	\$4.75		\$44.00	\$ 54.60
<u>Cash overhead</u>						
Misc., office, etc.					5.70	
Taxes					10.00	
TOTAL CASH OVERHEAD						\$ 15.70
TOTAL CASH COST		\$31.35	\$9.45		\$74.00	\$114.80
Management 5% of 5.5 tons @ \$60 = \$330						\$ 16.50
<u>INVESTMENT</u>						
	<u>Per Acre</u>			<u>Annual Cost</u>		
Land	\$500			<u>Depreciation</u>	<u>Interest--8%</u>	
Stand	88			\$17.60	\$40.00	
Irrigation system	125			8.35	3.50	
Equipment	265			26.50	5.00	
Total	\$978			\$52.45	10.60	
					\$59.10	\$111.55
TOTAL COST PER ACRE						\$242.85
Cost per ton @ 5.5 ton yield						\$ 44.15

EQUIPMENT INVESTMENT FOR BARLEY PRODUCTION - SPRINKLER IRRIGATED

Lassen County - 1975

Barley is grown on 100 acres of a 300 acre farm.

Item	Cost	Operation Cost per Hour
Tractor, 60 h.p. wheel diesel	\$14,000.	\$2.60
Tractor, 30 h.p. wheel diesel	7,200.	1.30
Plow, 3 bottom 16"	1,700.	.80
Disk, 10' offset	2,000.	.90
Drill, 10'	2,800.	2.25
Cultipacker, 10'	1,000.	.40
Sprayer	700.	2.00
Fertilizer injector	100.	.45
TOTAL	\$29,500. (300 acres)	
Irrigation System:		2.90
Well and pump	13,500.	
Sprinklers	17,500.	
TOTAL	\$31,000. (100 acres)	
Total Investment	\$60,500.	
Per Acre on 300 acres for \$29,500	90	} Total investment of \$400 per acre of which \$310 is sprinkler irrigation system.
Per Acre on 100 acres for \$31,000	310	

EQUIPMENT INVESTMENT FOR BARLEY PRODUCTION - FLOOD IRRIGATED

Lassen County - 1975

Barley is grown on 100 acres of a 300 acre farm

Item	Cost	Operation Cost per Hour
Tractor, 60 h.p. wheel diesel	\$14,000.	\$2.60
Tractor, 30 h.p. wheel diesel	7,200.	1.30
Plow, 3 bottom 16"	1,700.	.80
Disk, 10' offset	2,000.	.90
Drill, 10'	2,800.	2.25
Cultipacker, 10'	1,000.	.40
Sprayer	700.	2.00
Border disk	900.	.45
Ditcher	500.	.90
Easy-Flow spreader - 10'	700.	.40
TOTAL	\$31,500. (300 acres)	
Irrigation System:		
Well - 400', 14" diameter	7,200	
Pump - 1,000 gpm 80' lift 30 hp	5,300.	
TOTAL	\$12,500. (100 acres)	
Total Investment	\$44,000.	
Per Acre on 300 acres for \$31,500. = 105	}	Total investment of \$230 per acre of \$125. is sprinkler irrigation system.
Per Acre on 100 acres for \$12,500. = 125		

EQUIPMENT INVESTMENT FOR ALFALFA PRODUCTION - FLOOD IRRIGATED

Lassen County - 1975

Alfalfa is grown on 100 acres of a 300 acre farm.

Item	Cost	Operation Cost per Hour
Tractor, 60 h.p. wheel diesel	\$14,000.	\$2.60
Tractor, 30 h.p. wheel diesel	7,200.	1.30
Disk, 10' offset	2,000.	.90
Drill, 10'	2,800.	2.25
Harrow, 12'	1,600.	.75
Ditcher	500.	.90
Easy-Flow spreader, 10'	700.	.40
Sprayer	700.	2.00
TOTAL	\$29,500. (300 acres)	
Harvest:		
Swather, SP, 14'	10,200.	3.85
Baler, motor, 2 wire	6,200.	2.40
Rake, side-delivery	1,100.	.45
TOTAL	\$17,500. (100 acres)	
Irrigation System:		
Well, 400', 14" diameter	7,200.	
Pump, 1,000 gpm, 80' lift, 30 h.p.	5,300.	
TOTAL	\$12,500. (100 acres)	
Total Investment	59,500.	
Per Acre on 300 acres for \$29,500. = 90	}	Total investment of \$390. per acre of which \$125 is irrigation system.
Per Acre on 100 acres for \$30,000. = 300		

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