

POTATOES 1987



MODOC COUNTY

by

Harry L. Carlson and Don Kirby
University of California
Cooperative Extension

UC Cooperative Extension

COSTS TO PRODUCE POTATOES UNDER SOLID SET IRRIGATION
TULELAKE, CALIFORNIA

Prepared by Harry L. Carlson & Don Kirby
University of California Cooperative Extension

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OPERATION	CASH COSTS PER ACRE (\$)				
	HOURS/ ACRE	LABOR	TRACTOR	IMPLT MATERIAL	TOTAL
FIELD PREPARATION					
BEATER	.14	.79	1.26	.30	2.35
DISC	.14	.79	1.31	.49	2.59
RIP	.33	1.83	3.06	.85	5.74
SOIL CONDITIONER	.17	.92	1.66	.45	3.02
PREEMERGENCE HERBICIDE	.20	1.20	1.76	.66	17.86
FUMIGATE	.20	1.10	1.76	.54	153.00
FERTILIZE	.05	.28	.46	12.00	12.73
CHISEL	.20	1.10	1.84	.54	3.47
ROTERA	.25	1.38	2.48	1.00	4.86
MOVE EQUIP., SETUP & SERVICE @ 15% OF LABOR COSTS					10.78
TOTAL SEED BED PREPARATION COST:					219.79
PLANTING					
BED W/ FERTILIZER	.29	1.57	2.52	3.03	48.25
PLANT	.33	5.50	3.06	2.94	11.50
SEED					171.00
SEED CUTTING		28.50			28.50
SEED TREATMENT				4.28	4.28
MOVE EQUIP., SETUP & SERVICE @ 15% OF LABOR COSTS					6.87
TOTAL PLANTING COSTS:					277.52
GROWING					
HERBICIDE				13.67	13.67
PIPE INSTALLATION	.22	6.00	1.38	.08	7.46
INSECTICIDE 2X				11.00	28.76
FUNGICIDE 4X				23.24	23.24
CULTIVATION 2X	.40	4.40	6.50	1.27	12.18
MINOR NUTRIENTS				20.00	20.00
NITROGEN W/ IRRIGATION				7.06	7.06
SPRINKLER (LABOR + ELEC + REPAIRS)		1.00		12.18	3.00
PRIVATE WATER COSTS					17.00
FROST PROTECTION		.33		1.00	1.33
MOVE EQUIP., SETUP & SERVICE @ 15% OF LABOR COSTS					13.49
TOTAL GROWING COSTS:					171.37

OPERATION	HOURS/ ACRE	CASH COSTS PER ACRE (\$)			
		LABOR	TRACTOR	IMPLT MATERIAL	TOTAL
HARVEST					
PIPE OUT	.22	6.00	1.38	.08	7.46
VINE ROLLING	.07	.37	.33	.04	.73
DIGGING COSTS					
WIND ROWER	.67	3.67	5.87	.71	10.25
BULKER	.67	9.00	6.12	8.01	23.13
TRUCK	.67	11.00	6.50		17.50
ELEVATOR	.67	9.00		.33	9.33
STORAGE COSTS				138.60	138.60
MOVE EQUIP., SETUP & SERVICE @ 15% OF LABOR COSTS					44.89
TOTAL HARVEST COSTS:					251.89
OVERHEAD COSTS					
MANAGEMENT/SUPERVISION				73.65	73.65
LAND RENT				275.00	275.00
PRODUCTION LOAN INTEREST COST				110.47	110.47
PICKUP	.55		.73		.73
BUILDINGS (TAXES, INS., REPAIRS)				1.00	1.00
TOTAL MISCELLANEOUS COSTS:					460.85
TOTAL CULTURAL AND HARVEST COSTS					1381.42
INVESTMENT					
DEPRECIATION					
TRACTORS, IMPLEMENTS & SPRINKLERS					145.22
FARM BUILDINGS & SHOP					2.16
INTEREST					
TRACTORS, IMPLEMENTS & SPRINKLERS					106.96
FARM BUILDINGS & SHOP					4.85
TOTAL INVESTMENT COSTS:					259.18
TOTAL COSTS PER ACRE					1640.60
COST PER 100 WEIGHT					3.91

COMBINED EQUIPMENT OPERATING COSTS FOR PRODUCTION OF POTATOES AND BARLEY IN THE TULELAKE BASIN

FARM ACERAGE BASE: 200 ACRES POTATOES
400 ACRES BARLEY

ITEM #	DESCRIPTION	NUMBER REQUIRED	OPERATING COSTS			CROP USE HOURS/ACRE		CROP USE HOURS/YEAR		ANNUAL CROP USE (HRS)	CROP USE FACTOR PER ACRE	
			FUEL	REPAIRS	TOTAL	POTATO	GRAIN	POTATO	GRAIN		POTATO	GRAIN
1	160 hp wheel diesel	1	6.01	3.93	9.93	.40		79.5		80	1.00	.00
2	140 HP wheel diesel	1	5.26	3.93	9.18	1.76	.32	351.7	128.0	480	.85	.15
3	130 HP wheel diesel	1	4.88	3.93	8.81	1.61	.29	322.9	115.7	439	.85	.15
4	60 HP wheel diesel	1	3.27	1.64	4.90	.39		77.3		77	1.00	.00
5	CAT TD-9	1		8.96	8.96		.40		160.0	160	.00	1.00
6	Disc-12'	1		3.45	3.45	.21	.21	42.6	85.2	128	.50	.50
7	Ripper-6'	1		2.55	2.55	.33		66.6		67	1.00	.00
8	Soil Conditioner-13'	1		2.68	2.68	.15		30.8		31	1.00	.00
9	Chisel Plow-13'	1		2.68	2.68	.17		34.5		35	1.00	.00
10	Rototill-12'	1		4.00	4.00	.24		48.8		49	1.00	.00
11	Bedder w/ Fert	1		10.62	10.62	.26		52.6		53	1.00	.00
12	Planter-4 row	1		3.32	3.32	.33		66.6		67	1.00	.00
13	Cultivator-4 row	1		1.65	1.65	.40		80.0		80	1.00	.00
14	Pipe Trailer	2		.17	.17	.32		64.0		64	1.00	.00
15	Beater-12'	1		2.12	2.12	.12		23.0		23	1.00	.00
16	Wind Rower-2 row	1		1.07	1.07	.67		133.3		133	1.00	.00
17	Bulker w/ blower	1		12.01	12.01	.67		133.3		133	1.00	.00
18	Truck w/ bed	3	3.08	.17	3.25	4.50	.64	900.0	256.0	1,156	.88	.12
19	Elevator	1		.49	.49	.67		134.0		134	1.00	.00
20	Drill w/ fert 12'	1		5.79	5.79		.115		46.0	46	.00	1.00
21	Clod Stomper-12'	1		1.48	1.48		.115		46.0	46	.00	1.00
22	Vibre Shank-13'	1		1.59	1.59		.145		58.0	58	.00	1.00
23	Combine-1460	1	3.08	29.22	32.30		.3225		129.0	129	.00	1.00
24	Checkers	1		.60	.60		.37		148.0	148	.00	1.00
25	Ditcher	1		2.76	2.76		.20		80.0	80	.00	1.00
26	Squeeze	1		2.33	2.33		.20		80.0	80	.00	1.00
27	Harrow-13'	1		.62	.62		.145		58.0	58	.00	1.00
28	Roller-12'	1		.60	.60	.07		13.3		13	1.00	.00
29	Pickup-3/4 ton	1	1.50	.08	1.57	.55	.11	110.0	44.0	154	.83	.17
30	Sprinkler irrig. sys./A 200			24.36	24.36			100.0				
31	Irrigation pump (60 HP)	3	9.00	6.42	15.42			100.0				

