

Agricultural Briefs

SACRAMENTO COUNTY

4145 Branch Center Road, Sacramento, California 95827

Telephone (916) 366 2013

1980 SAMPLE COST TO PRODUCE LADINO CLOVER SEED

SOIL REQUIREMENTS: Usually produced on shallow hardpan soils. Not adapted to heavy, deep soils for seed production.

PLANTING DATES: September - early October for best stand establishment.

HARVEST DATES: August - September.

VARIETIES: California Ladino Clover and proprietary varieties.

SEEDING RATE: 3 lbs/acre broadcast by air.

FERTILIZER REQUIREMENTS: Usually 500 lbs. P_2O_5 at planting and 300 - 500 lbs P_2O_5 in fall after harvest, utilize soil analysis to determine needs. Apply Potassium only if soil analysis indicates a deficiency.

IRRIGATION REQUIREMENTS: Irrigate up in fall following seeding. Usually every 7 - 14 days during growing season (April - August). Irrigate immediately after harvest to reestablish stand.

NORMAL YIELD: 300 - 500 lbs/acre.

INSECT PROBLEMS: Lygus, Spider Mites, Aphids, occasionally Armyworms and Slugs.

DISEASE PROBLEMS: Asteryellows, Mosaic Viruses.

WEED PROBLEMS: Winter grasses and Chickweed controlled by EPTC, IPC, CIPC, Kerb. Summer grasses (Watergrass) controlled by EPTC and possibly CIPC and Kerb. Broadleaf weeds controlled by 2,4-DB amine or ester, 2,4-D amine and Casoron. EPTC and CIPC control some species of broadleaf weeds in pre-emergent application.

HARVEST: Direct combine following desiccation of stand.

CAUTION: FOLLOW ALL LABEL DIRECTIONS AND PRECAUTIONS!

Prepared by: T. S. Torngren, County Director and Lynn Horel, Research Associate Agriculture Economics, University of California Cooperative Agricultural Extension.

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
CERT SEED, LADINO	LBS.	1.500	400.000	600.00	
TOTAL RECEIPTS:				\$ 600.00	
2. VARIABLE COSTS:					
PREHARVEST:					
SINGLE-SUPR PHOS	LBS.	0.070	500.000	35.00	
FERTILIZER APP	APLC	3.000	1.000	3.00	
HAND HOEING	HOURL	4.000	3.000	12.00	
MISC WEED CON	ACRE	9.500	1.000	9.50	
HERBICIDE	APLC	14.500	3.000	43.50	
HERBICIDE APP	APLC	3.000	3.000	9.00	
INSECTICIDE	APLC	15.000	3.000	45.00	
MISC PEST CON.	APLC	3.000	1.000	3.00	
POLLINATION	ACRE	6.500	1.000	6.50	
CUST DEFOLIATION	APLC	15.000	1.000	15.00	
INSPECTION FEE	ACRE	0.250	1.000	0.25	
CUSTOM HAULING	LBS.	0.002	1000.000	1.50	
SEED CLEANING	LBS.	0.125	400.000	50.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			4.35	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			0.10	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			0.59	
IRRIGATION (POWER-LUBE-REP)	ACIN	0.995	33.000	32.85	
MACHINERY LABOR	HOURL	6.000	0.416	2.50	
IRRIGATION LABOR	HOURL	4.000	1.837	7.35	
INTEREST ON OPERATING CAP.	DOL.	0.119	94.924	11.08	
TOTAL PREHARVEST COSTS:				\$ 292.05	
PREHARVEST COST PER LBS.				\$ 0.7301	
HARVEST:					
BAG STORAGE TEST	LBS.	0.023	400.000	9.20	
MANAGEMENT	MO.	2.340	11.000	25.74	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			2.28	
MACHINERY LABOR	HOURL	6.000	0.339	2.03	
INTEREST ON OPERATING CAP.	DOL.	0.119	11.490	1.37	
TOTAL HARVEST COSTS:				\$ 40.62	
HARVEST COST PER LBS.				\$ 0.1015	
TOTAL VARIABLE COSTS:				\$ 332.67	
VARIABLE COST PER LBS.				\$ 0.8317	
3. INCOME ABOVE VARIABLE COSTS:				\$ 267.33	
INCOME PER LBS.				\$ 0.6683	
4. CASH OVERHEAD:					
REAL PROPERTY TAXES:				0.56	
CASH RENT:				80.00	
MISC. OFFICE & BOOKKEEPING (2.50% OF TOTAL VARIABLE COSTS)				8.32	
TOTAL CASH OVERHEAD:				\$ 88.88	
OVERHEAD COST PER LBS.				0.2222	
5. INCOME ABOVE ALL CASH COSTS:				\$ 178.45	
INCOME PER LBS.				\$ 0.4461	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			11.62	
IRRIGATION SYSTEM	ACRE			11.02	
BUILDINGS	ACRE			1.45	
TREES, VINES OR STAND	ACRE			48.74	
TOTAL DEPRECIATION:				\$ 72.83	
CAPITAL & INTEREST:					
MACHINERY & EQUIPMENT		0.119	91.982	10.95	
IRRIGATION SYSTEM		0.119	113.384	13.49	
BUILDINGS		0.100	30.938	3.09	
TREES, VINES OR STAND		0.100	97.480	4.87	
TOTAL INTEREST CHARGE:				\$ 32.41	
TOTAL FIXED COSTS:				\$ 105.24	
FIXED COST PER LBS.				0.2631	
7. TOTAL OF ABOVE COSTS:				\$ 526.78	
TOTAL COST PER LBS.				1.3170	
8. NET RETURNS:				\$ 73.22	
NET RETURNS PER LBS.				0.1830	

80 ACRES OF 640 ACRE FARM
CERTIFIED SEED CROP, ESTABLISHED STAND, FLOOD IRRIGATION

UPDATED 03/25/80

BUDGET IDENTIFICATION NUMBER 2103400000 312 1
DATE PRINTED: 03/27/80

BUDGET RECORD NUMBER 186
HARVEST MONTH: 9

1979 Default data

UC Cooperative Extension

CATEGORY	UNIT	MONTHLY SUMMARY OF RECEIPTS AND EXPENSES												TOTAL	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
TOTAL RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00	300.00	0.00	0.00	0.00	600.00
OPERATING EXPENSES															
SINGLE-SUPR PHOS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	35.00
FERTILIZER APP	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00
HAND HOEING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	12.00
MISC WEED CON	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50	0.00	0.00	0.00	0.00	9.50
HERBICIDE	\$/AC	0.00	0.00	14.50	0.00	0.00	14.50	0.00	0.00	0.00	0.00	14.50	0.00	0.00	43.50
HERBICIDE APP	\$/AC	0.00	0.00	3.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	9.00
INSECTICIDE	\$/AC	0.00	0.00	0.00	0.00	15.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00
MISC PEST CON.	\$/AC	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00
POLLINATION	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	6.50
CUST DEFOLIATION	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	15.00
INSPECTION FEE	\$/AC	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
CUSTOM HAULING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	1.50
SEED CLEANING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00	0.00	50.00
BAG STORAGE TEST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.20	0.00	0.00	0.00	0.00	9.20
MANAGEMENT	\$/AC	0.00	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	25.74
MACHINE LABOR COST	\$/AC	0.00	0.00	0.00	0.00	2.50	0.00	0.00	1.02	1.02	0.00	0.00	0.00	0.00	4.53
INTEREST ON OPER. CAP.	\$/AC	0.00	0.17	1.16	0.12	1.22	1.57	0.78	0.31	0.00	6.68	0.23	0.21	12.44	
TRACTOR COST	\$/AC	0.00	0.00	0.00	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35
EQUIPMENT COST	\$/AC	0.00	0.00	0.00	0.00	0.10	0.00	0.00	1.14	1.14	0.00	0.00	0.00	0.00	2.37
MG OPER. COST	\$/AC	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.59
IRRIGATION COST	\$/AC	0.00	0.00	0.00	0.00	5.97	8.96	8.96	2.99	2.99	2.99	0.00	0.00	0.00	32.85
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	0.00	1.34	2.00	2.00	0.67	0.67	0.67	0.00	0.00	0.00	7.35
TOTAL EXPENSES	\$/AC	0.00	2.56	21.05	2.51	33.12	56.42	41.63	33.01	68.90	68.23	2.63	2.60	332.67	

MACHINE LABOR	HR/AC	MONTHLY IRRIGATION AND LABOR REQUIREMENTS												0.75	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
IRRIGATION LABOR	HR/AC	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00	1.84
IRRIG. WATER APPLIED	ACIN	0.00	0.00	0.00	0.00	6.00	9.00	9.00	3.00	3.00	3.00	0.00	0.00	0.00	33.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE

MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANN HOURS USED	FIXED COST PER ACRE			VARIABLE COST PER ACRE				HRS PER ACRE	
						DEPR.	INTER.	TAX \$INS	TOTAL	FUEL	LUBE	REPAIRS		TOTAL
TRACT 4WD 175HP	8	135.0	52000.	12.	1000.	1.23	1.46	0.20	2.89	2.07	0.31	1.97	4.35	0.378
IRR PUMP 75 HP*	22	2.0	11388.	25.	3200.	2.15	3.79	0.59	6.53	29.59	0.44	1.20	31.24	16.500
COMBINE-GRAIN	26	16.0	41200.	10.	90.	10.23	9.31	1.29	20.83	0.64	0.10	1.54	2.28	0.283
ROTARY CHOPPER	127	6.0	1400.	14.	180.	0.17	0.18	0.03	0.37	0.00	0.00	0.10	0.10	0.344
SURFACE IRR SYS*	128	2.0	38150.	10.	5000.	8.87	9.70	1.26	19.83	0.00	0.03	1.58	1.61	16.500
FARM SHOP	2		4500.	35.		1.45	3.09	0.56	5.10	0.56		0.02	0.59	
MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE			1858.			24.09	27.53	3.93	55.55	32.87	0.88	6.40	40.15	
TOTAL INVESTMENT			148638.											

80 ACRES OF 640 ACRE FARM
 CERTIFIED SEED CROP, ESTABLISHED STAND, FLOOD IRRIGATION

UPDATED 03/25/80

INCOME ABOVE VARIABLE COSTS
 WHEN THE PRICE OF CERT SEED,LADINO RANGES FROM 1.20 TO 1.80
 AND THE QUANTITY OF CERT SEED,LADINO RANGES FROM 300.00 TO 500.00

		PRICE OF CERT SEED,LADINO				
		1.20	1.35	1.50	1.65	1.80

QUANTITY OF CERT SEED,L	300.00	27.33	72.33	117.33	162.33	207.33
	350.00	87.33	139.83	192.33	244.83	297.33
	400.00	147.33	207.33	267.33	327.33	387.33
	450.00	207.33	274.83	342.33	409.83	477.33
	500.00	267.33	342.33	417.33	492.33	567.33

INCOME ABOVE ALL CASH COSTS
 WHEN THE PRICE OF CERT SEED,LADINO RANGES FROM 1.20 TO 1.80
 AND THE QUANTITY OF CERT SEED,LADINO RANGES FROM 300.00 TO 500.00

		PRICE OF CERT SEED,LADINO				
		1.20	1.35	1.50	1.65	1.80

QUANTITY OF CERT SEED,L	300.00	-61.55	-16.55	28.45	73.45	118.45
	350.00	-1.55	50.95	103.45	155.95	208.45
	400.00	58.45	118.45	178.45	238.45	298.45
	450.00	118.45	185.95	253.45	320.95	388.45
	500.00	178.45	253.45	328.45	403.45	478.45

INCOME ABOVE ALL COSTS
 WHEN THE PRICE OF CERT SEED,LADINO RANGES FROM 1.20 TO 1.80
 AND THE QUANTITY OF CERT SEED,LADINO RANGES FROM 300.00 TO 500.00

		PRICE OF CERT SEED,LADINO				
		1.20	1.35	1.50	1.65	1.80

QUANTITY OF CERT SEED,L	300.00	-166.78	-121.78	-76.78	-31.78	13.22
	350.00	-106.78	-54.28	-1.78	50.72	103.22
	400.00	-46.78	13.22	73.22	133.22	193.22
	450.00	13.22	80.72	148.22	215.72	283.22
	500.00	73.22	148.22	223.22	298.22	373.22

BUDGET RECORD NUMBER 186
 80 ACRES OF 640 ACRE FARM
 CERTIFIED SEED CROP, ESTABLISHED STAND, FLOOD IRRIGATION

UPDATED 03/25/80

BUDGET IDENTIFICATION NUMBER 2103400000 312 1
 HARVEST OR SALE MONTH 9

BUDGET RECORD NUMBER 186

COSTS OF PRODUCTION FOR LADINO CLOVER SEED
 SACRAMENTO CO.
 1980

BY T.S. TORNGREN,
 FARM ADVISOR

COSTS AND RETURNS WILL BE
 DIVIDED BY 400.0 LBS.
 TO OBTAIN PER LBS. COSTS

LINE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PRODUCTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	SHARE	UNIT	ITEM	TYPE	XXXX
1 CERT SEED, LADINO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.500	0.000	12.	100.	2.	0.
OPERATING INPUTS																		
	RATE/UNIT												PRICE	SHARE	UNIT	ITEM	TYPE	HARV
6 SINGLE-SUPR PHOS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.070	0.000	12.	219.	3.	0.
7 FERTILIZER APP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	3.000	0.000	34.	356.	3.	0.
8 HAND HOEING	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.00	0.00	0.00	0.00	0.00	4.000	0.000	8.	335.	3.	0.
9 MISC WEED CON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	9.500	0.000	7.	353.	3.	0.
10 HERBICIDE	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	14.500	0.000	34.	250.	3.	0.
11 HERBICIDE APP	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	3.000	0.000	34.	358.	3.	0.
12 INSECTICIDE	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	15.000	0.000	34.	240.	3.	0.
13 MISC PEST CON.	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	3.000	0.000	34.	263.	3.	0.
14 POLLINATION	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	6.500	0.000	7.	350.	3.	0.
15 CUST DEFOLIATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	15.000	0.000	34.	354.	3.	0.
16 INSPECTION FEE	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.250	0.000	7.	402.	3.	0.
17 CUSTOM HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.000	12.	306.	3.	0.
18 SEED CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.125	0.000	12.	396.	3.	0.
19 BAG STORAGE TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.023	0.000	12.	381.	3.	9.
21 MANAGEMENT	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.340	0.000	40.	334.	3.	9.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												H CREW POWER		MACH	TYPE	HARV	
													LABOR	UNIT	CODE			
27 COMBINE-GRAIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.00	0.000	0.000	0.	26.	4.	9.
27 ROTARY CHOPPER	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	8.	127.	4.	0.
49 ACIN IRRIG WATER	0.00	0.00	0.00	0.00	6.00	9.00	9.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	22.	128.	130.	
50 NO. TIMES IRRIG	0.00	0.00	0.00	0.00	2.00	3.00	3.00	1.00	1.00	1.00	0.00	0.00						

EQUIPMENT REQUIREMENTS	NUMBER	PROPORT	XXX	EQUIP	TYPE	XXXX
	UNITS	OF COST		CODE		
51 FARM SHOP	1.000	0.125	0.	2.	5.	0.

LAND REQUIREMENTS	CHARGE	NUMBER	VALUE OR	TAXES	PERENNIAL CROPS
	METHOD	OF ACRES	COST/ACRE	PER ACRE	YRS LIFE COST/ACRE
71	2.	80.00	80.00	0.00	2.0 97.48

80 ACRES OF 640 ACRE FARM
 CERTIFIED SEED CROP, ESTABLISHED STAND, FLOOD IRRIGATION

MACHINERY COMPLEMENT 3
 EQUIPMENT COMPLEMENT 1

UPDATED 03/25/80

GENERAL NAME CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE
100 CERT SEED, LADINO	263 MISC PEST CON.	353 MISC WEED CON	354 CUST DEFOLIATION	381 BAG STORAGE TEST	
334 MANAGEMENT					
RW CL	VALUE	RW CL	VALUE	RW CL	VALUE
PARAMETER CHGS-->10.	6.000000 11.	3.500000 12.	4.000000 18.	0.167000 1.	4.000000

1979 Default data