

COST & RETURN SUMMARY FOR IRRIG PASTURE
 SAMPLE COSTS TO PRODUCE IRRIGATED PASTURE
 SAN JOAQUIN CO. 1980
 YIELD: 12 AUM PER ACRE @\$10/AUM

BY W. VAN RIET
 G. HUTTON
 FARM ADVISORS

*** SCS BUDGET ***

Pasture #77

PA-VN-80-2

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
GROSS RECEIPTS FROM PRODUCTION:					
IRRIG PASTURE	AUMS	10.000	12.000	120.00	
TOTAL RECEIPTS:				120.00	
2. VARIABLE COSTS:					
PREHARVEST:					
SINGLE-SUPR PHOS	TON	125.000	0.200	25.00	
FENCE WORK	HOUR	5.000	1.500	7.50	
IRRIG DIST WATER	ACRE	18.300	1.000	18.30	
MISCL EXPENSE	ACRE	8.000	1.000	8.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			2.38	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			0.12	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			1.63	
IRRIGATION (SYSTEM MAINT.)	ACIN	0.059	41.990	2.46	
MACHINERY LABOR	HOUR	5.000	0.578	2.89	
IRRIGATION LABOR	HOUR	5.000	9.500	47.50	
INTEREST ON OPERATING CAP.	DOL.	0.07370	34.880	2.53	
TOTAL PREHARVEST COSTS:				118.30	
PREHARVEST COST PER AUMS				9.8585	
HARVEST:					
TOTAL HARVEST COSTS:				0.00	
HARVEST COST PER AUMS				0.0000	
TOTAL VARIABLE COSTS:				118.30	
VARIABLE COST PER AUMS				9.8585	
3. INCOME ABOVE VARIABLE COSTS:					
INCOME PER AUMS				1.70	
				0.1415	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				0.94	
REAL PROPERTY TAXES:				10.00	
TOTAL OVERHEAD:				10.94	
OVERHEAD COST PER AUMS				0.9115	
TOTAL CASH COSTS:					
TOTAL CASH COST PER AUMS				129.24	
				10.7700	
5. INCOME ABOVE ALL CASH COSTS:					
INCOME PER AUMS				-9.24	
				-0.7700	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			2.05	
IRRIGATION SYSTEM	ACRE			13.54	
BUILDINGS	ACRE			3.25	
TREES, VINES OR STAND	ACRE			10.00	
TOTAL DEPRECIATION:				28.85	
CAPITAL & INTEREST:					
MACHINERY & EQUIPMENT		0.07370	23.253	1.71	
IRRIGATION SYSTEM		0.07370	124.506	9.18	
BUILDINGS		0.07370	32.500	2.40	
TREES, VINES OR STAND		0.07370	100.000	3.69	
LAND		0.07370	4000.000	294.80	
TOTAL INTEREST CHARGE:				311.77	
TOTAL FIXED COSTS:				340.62	
FIXED COST PER AUMS				28.3848	
7. TOTAL OF ABOVE COSTS:					
TOTAL COST PER AUMS				469.86	
				39.1547	
8. NET RETURNS:					
NET RETURNS PER AUMS				-349.86	
				-29.1547	

BASED ON 80 ACRES PASTURE ON 160 ACRE FARM
 CLOVER, RYE MIX SEED ESTABLISHED FOLLOWING CORN/GRAIN CROP
 LAND OWNERSHIP BASIS FLOOD IRRIGATION: 42 ACIN DISTRICT WATER
 DATE PRINTED: 02/20/81 HARVEST MONTH: 10

UC Cooperative Extension

02/16/81
 BUDGET RECORD NUMBER 77

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 77
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INCOME ABOVE VARIABLE COSTS

		RANGES FROM				
		8.00 TO	9.00	10.00	11.00	12.00
WHEN THE PRICE OF IRRIG PASTURE		RANGES FROM				
AND THE QUANTITY OF IRRIG PASTURE		10.00 TO				
		PRICE OF IRRIG PASTURE				
		8.00	9.00	10.00	11.00	12.00

QUANTITY OF IRRIG PASTU	10.00 *	-38.30	-28.30	-18.30	-8.30	1.70
	*					
	11.00 *	-30.30	-19.30	-8.30	2.70	13.70
	*					
	12.00 *	-22.30	-10.30	1.70	13.70	25.70
	*					
	13.00 *	-14.30	-1.30	11.70	24.70	37.70
	*					
	14.00 *	-6.30	7.70	21.70	35.70	49.70
	*					

INCOME ABOVE ALL CASH COSTS

		RANGES FROM				
		8.00 TO	9.00	10.00	11.00	12.00
WHEN THE PRICE OF IRRIG PASTURE		RANGES FROM				
AND THE QUANTITY OF IRRIG PASTURE		10.00 TO				
		PRICE OF IRRIG PASTURE				
		8.00	9.00	10.00	11.00	12.00

QUANTITY OF IRRIG PASTU	10.00 *	-49.24	-39.24	-29.24	-19.24	-9.24
	*					
	11.00 *	-41.24	-30.24	-19.24	-8.24	2.76
	*					
	12.00 *	-33.24	-21.24	-9.24	2.76	14.76
	*					
	13.00 *	-25.24	-12.24	0.76	13.76	26.76
	*					
	14.00 *	-17.24	-3.24	10.76	24.76	38.76
	*					

INCOME ABOVE ALL COSTS

		RANGES FROM				
		8.00 TO	9.00	10.00	11.00	12.00
WHEN THE PRICE OF IRRIG PASTURE		RANGES FROM				
AND THE QUANTITY OF IRRIG PASTURE		10.00 TO				
		PRICE OF IRRIG PASTURE				
		8.00	9.00	10.00	11.00	12.00

QUANTITY OF IRRIG PASTU	10.00 *	-389.86	-379.86	-369.86	-359.86	-349.86
	*					
	11.00 *	-381.86	-370.86	-359.86	-348.86	-337.86
	*					
	12.00 *	-373.86	-361.86	-349.86	-337.86	-325.86
	*					
	13.00 *	-365.86	-352.86	-339.86	-326.86	-313.86
	*					
	14.00 *	-357.86	-343.86	-329.86	-315.86	-301.86
	*					

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CASH FLOW & INVESTMENT SUMMARY FOR IRRIG PASTURE
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CATEGORY	UNIT	MONTHLY SUMMARY OF RECEIPTS AND EXPENSES												TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
RECEIPTS	\$/AC	0.00	0.00	7.50	22.50	22.50	15.00	15.00	15.00	15.00	7.50	0.00	0.00	120.00
OPERATING EXPENSES														
SINGLE-SUPR PHOS	\$/AC	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
FENCE WORK	\$/AC	0.00	0.00	2.50	0.00	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	7.50
IRRIG DIST WATER	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.30	0.00	0.00	18.30
MISCL EXPENSE	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	8.00
MACHINE LABOR COST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00	0.00	2.89
INTEREST ON OPER. CAP.	\$/AC	0.00	1.22	0.23	0.20	0.24	0.20	0.29	0.10	0.05	0.00	0.00	0.00	2.53
TRACTOR COST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00	0.00	2.38
EQUIPMENT COST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.12
BLDG OPER. COST	\$/AC	0.00	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.00	0.00	1.63
IRRIGATION COST	\$/AC	0.00	0.00	0.13	0.26	0.26	0.39	0.39	0.39	0.39	0.26	0.00	0.00	2.46
IRRIG LABOR COST	\$/AC	0.00	0.00	2.50	5.00	5.00	7.50	7.50	7.50	7.50	5.00	0.00	0.00	47.50
TOTAL EXPENSES	\$/AC	0.00	26.41	5.54	5.64	8.18	8.26	16.25	8.17	8.12	31.74	0.00	0.00	118.30

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
MACHINE LABOR	HR/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.58
IRRIGATION LABOR	HR/AC	0.00	0.00	0.50	1.00	1.00	1.50	1.50	1.50	1.50	1.00	0.00	0.00	9.50
IRRIG. WATER APPLIED	ACIN	0.00	0.00	2.21	4.42	4.42	6.63	6.63	6.63	6.63	4.42	0.00	0.00	41.99

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
TRACTOR-60 HP	3	50.0	15960.	20.	300.	1.22	1.16	0.63	3.01	1.45	0.22	0.71	2.38	0.525
ROTARY MOWER	121	6.0	1440.	15.	50.	0.83	0.55	0.31	1.70	0.00	0.00	0.12	0.12	0.477
SURFACE IRR SYS*	128	2.0	45780.	10.	5000.	13.54	9.18	4.33	27.05	0.00	0.05	2.41	2.46	20.995
BARBWIRE 4 STRND	15		2600.	20.		3.25	2.40	0.65	6.30	0.00		1.63	1.63	
MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE			1645.			18.85	13.29	5.91	38.05	1.45	0.27	4.87	6.59	
TOTAL INVESTMENT			65780.											

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FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 77
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FUEL USED IN GALLONS PER HOUR

TRACTOR 60 HP 2.880

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE GALLONS POWER UNIT
 ROTARY MOWER 1.513 TRACTOR 60 HP
 FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
ROTARY MOWER	0.000	0.000	0.000	0.000	0.000	0.000	1.513	0.000	0.000	0.000	0.000	0.000	1.513	DIESEL
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000	1.513	0.000	0.000	0.000	0.000	0.000	1.513	

GALLONS FUEL BY TYPE

0.00 GAS
 0.00 LP
 1.51 DIESEL
 0.00 N. GAS
 0.00 KWHRS

FUEL TYPES
 1=GAS
 2=L.P.
 3=DIESEL
 4=N. GAS
 5=ELEC.

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MACHINERY OPERATIONS SUMMARY
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OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR S	MACHINE HOUR S	FUEL, OIL, LUB., REP. COSTS PER ACRE	FIXED COSTS PER ACRE
ROTARY MOWER	3,121	JULY	1.00	0.528	0.427	2.50	4.20
TOTALS				0.578	0.477	2.50	4.70

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STORED DATA PAGE (NO CALCULATIONS) FOR IRRIG PASTURE

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COSTS AND RETURNS WILL BE
 DIVIDED BY 12.0 AUMS
 TO OBTAIN PER AUMS 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 IRRIG PASTURE	0.00	0.00	0.75	2.25	2.25	1.50	1.50	1.50	1.50	0.75	0.00	0.00	10.000	0.000	10.	22.	2.	0.

OPERATING INPUTS	RATE/UNIT												PRICE	SHARE	UNIT	ITEM	TYPE	HARV	
														RENT	CODE	CODE	CODE	CODE	
6 SINGLE-SUPR PHOS	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.000	0.000	3.	219.	3.	0.
7 FENCE WORK	0.00	0.00	0.50	0.00	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	5.000	0.000	8.	365.	3.	0.	
8 IRRIG DIST WATER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	18.300	0.000	7.	323.	3.	0.	
9 MISCL EXPENSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	8.000	0.000	7.	400.	3.	0.	

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												M CREW	POWER	MACH	TYPE	HARV	
													LABOR	UNIT	CODE	CODE	CODE	
26 ROTARY MOWER	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	3.	121.	4.	0.
49 ACIN IRRIG WATER	0.00	0.00	2.21	4.42	4.42	6.63	6.63	6.63	6.63	4.42	0.00	0.00	0.00	0.00	0.00	0.	128.	0.
50 NO. TIMES IRRIG	0.00	0.00	1.00	2.00	2.00	3.00	3.00	3.00	3.00	2.00	0.00	0.00						

EQUIPMENT REQUIREMENTS									NUMBER	PROPORT	XXX	EQUIP	TYPE	XXXX
									UNITS	OF COST		CODE		
51 BARBWIRE 4 STRND									1.000	1.000	0.	15.	5.	0.
COLUMNS --->	2	3	4	5	6	7	8							
LAND REQUIREMENTS	CHARGE		NUMBER	VALUE OR	TAXES	PERENNIAL CROPS								
	METHOD		OF ACRES	COST/ACRE	PER ACRE	YRS LIFE	COST/ACRE							
71	1.		40.00	4000.00	10.00	10.0	100.00							
ENTERPRISE 2-22 REGION/COUNTY 39	UNASSIGNED	0000	MACH COMP	1	IRIG SYST	1	UNASSIGNED	0	EQUIP SET	2	HARVEST	MONTH	10	

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02/16/81 MACHINERY COMPLEMENT 1
 EQUIPMENT COMPLEMENT 2

GENERAL NAME CHANGE-->365	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE
FENCE WORK					
MACHNRY NAME CHANGE-->121					
ROTARY MOWER					

PARAMETER CHGS-->	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	
MACH COMP CHGS-->	3.	2.	50.000000	3.	3.15960.000000	3.13.15960.000000	*** 2.	6.000000	*** 3.	1440.000000	*** 4.	4.800000	
*** 5.			0.600000	*** 13.	1440.000000	*** 6.	0.650000	*** 11.		0.560000			
PARAMETER CHGS-->	6.		0.073700	26.	0.073700	10.	5.000000	11.	5.000000	12.	5.000000	18.	0.500000

Additional Notes: Irrigated Pasture
San Joaquin County 1980
By William van Riet, Farm Advisor
Granville Hutton, Farm Advisor

Data Base: Sample Costs for Irrigated Pasture
Stanislaus County 1980
By William van Riet
(attached)

A. Operating Inputs

1. Establishment

- a. Custom landplane: does not occur every year of establishment, therefore, 50% represents every other time.
- b. Land charges: Establishment budget does not include land taxes or interest since the budget is assumed to account for additional first year costs. Animals may or may not graze during the first year. If so, assume approximately half of the production. Costs will vary also.

2. Production

a. Fertilizer: 400 lbs. single super phosphate

b. Irrigation schedule:

March	1x	@ 2.21 acin	
April	2x	" "	
May	2x	" "	
June-Sept.	3x	" "	every 10 days
October	2x	" "	