

COST & RETURNS SUMMARY FOR IRRIG PASTURE
 SAMPLE COSTS TO ESTABLISH IRRIGATED PASTURE
 SAN JOAQUIN CO. 1980
 (LAND PREP., PLANTING AND ADD. FIRST YEAR COSTS)

BY W. VAN RIET
 G. HUTTON
 FARM ADVISORS

*** SCS BUDGET ***

Pasture #74

PA-VN-80-1

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST PER ACRE | YOUR COST |
|---|------|-----------------------|----------|------------------------------|-----------|
| 1. GROSS RECEIPTS FROM PRODUCTION: | | | | | |
| TOTAL RECEIPTS: | | | | 0.00 | |
| 2. VARIABLE COSTS: | | | | | |
| PREHARVEST: | | | | | |
| CUSTOM CHISEL | ACRE | 10.000 | 1.000 | 10.00 | |
| CUSTOM LANDPLANE | ACRE | 5.000 | 0.500 | 2.50 | |
| CUSTOM BORDER | ACRE | 7.500 | 1.000 | 7.50 | |
| SINGLE-SUPR PHOS | TON | 125.000 | 0.125 | 15.63 | |
| PAST. SEED MIX | LBS. | 1.500 | 14.000 | 21.00 | |
| TRACTOR (FUEL-LUBE-REPAIRS) | ACRE | | | 7.72 | |
| EQUIPMENT (FUEL-LUBE-REPAIRS) | ACRE | | | 1.88 | |
| MACHINERY LABOR | HR | 5.000 | 2.121 | 10.61 | |
| INTEREST ON OPERATING CAP. | DOL. | 0.07370 | 6.334 | 0.46 | |
| TOTAL PREHARVEST COSTS: | | | | 77.29 | |
| PREHARVEST COST PER ACRE | | | | 77.2883 | |
| HARVEST: | | | | | |
| TOTAL HARVEST COSTS: | | | | 0.00 | |
| HARVEST COST PER ACRE | | | | 0.0000 | |
| TOTAL VARIABLE COSTS: | | | | 77.29 | |
| VARIABLE COST PER ACRE | | | | 77.2883 | |
| 3. INCOME ABOVE VARIABLE COSTS: | | | | | |
| INCOME PER ACRE | | | | -77.29 | |
| | | | | -77.2883 | |
| 4. OVERHEAD: | | | | | |
| REAL PROPERTY TAXES: | | | | 0.00 | |
| TOTAL OVERHEAD: | | | | 0.00 | |
| OVERHEAD COST PER ACRE | | | | 0.0010 | |
| TOTAL CASH COSTS: | | | | 77.29 | |
| TOTAL CASH COST PER ACRE | | | | 77.2893 | |
| 5. INCOME ABOVE ALL CASH COSTS: | | | | | |
| INCOME PER ACRE | | | | -77.29 | |
| | | | | -77.2893 | |
| 6. OWNERSHIP COSTS: | | | | | |
| DEPRECIATION: | | | | | |
| MACHINERY & EQUIPMENT | ACRE | | | 12.22 | |
| TOTAL DEPRECIATION: | | | | 12.27 | |
| CAPITAL & INTEREST: | | | | | |
| MACHINERY&EQUIPMENT | | 0.07370 | 129.981 | 9.58 | |
| LAND | | 0.00000 | 4000.000 | 0.00 | |
| TOTAL INTEREST CHARGE: | | | | 9.58 | |
| TOTAL FIXED COSTS: | | | | 21.86 | |
| FIXED COST PER ACRE | | | | 21.8567 | |
| 7. TOTAL OF ABOVE COSTS: | | | | | |
| TOTAL COST PER ACRE | | | | 99.15 | |
| | | | | 99.1460 | |
| 8. NET RETURNS: | | | | | |
| NET RETURNS PER ACRE | | | | -99.15 | |
| | | | | -99.1460 | |

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

02/20/81
 BUDGET RECORD NUMBER 76

UC Cooperative Extension

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 76
 SAMPLE COSTS TO ESTABLISH IRRIGATED PASTURE
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FUEL USED IN GALLONS PER HOUR

TRACTOR 50 HP 2.400

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

| MACHINE | GALLONS | POWER UNIT |
|------------------|---------|---------------|
| DISK OFFSET | 0.688 | TRACTOR 50 HP |
| SEED BROADCASTER | 0.732 | TRACTOR 50 HP |
| RING ROLLER | 0.000 | TRACTOR 50 HP |
| ROTARY MOWER | 1.260 | TRACTOR 50 HP |

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL | FUEL TYPE |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| DISK OFFSET | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.375 | 0.000 | 0.000 | 0.000 | 1.375 | DIESEL |
| SEED BROADCASTER | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.732 | 0.000 | 0.000 | 0.000 | 0.732 | DIESEL |
| RING ROLLER | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.786 | 0.000 | 0.000 | 0.000 | 0.786 | DIESEL |
| ROTARY MOWER | 0.000 | 0.000 | 0.000 | 1.260 | 0.000 | 0.000 | 1.260 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.521 | DIESEL |
| TOTALS | 0.000 | 0.000 | 0.000 | 1.260 | 0.000 | 0.000 | 1.260 | 0.000 | 2.893 | 0.000 | 0.000 | 0.000 | 5.413 | |

GALLONS FUEL BY TYPE

0.00 GAS
 0.00 LP
 5.41 DIESEL
 0.00 N. GAS
 0.00 KWRS

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

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02/20/81

MINERY OPERATIONS SUMMARY
 SAMPLE COSTS TO ESTABLISH IRRIGATED PASTURE
 SAN JOAQUIN CO. 1980
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BUDGET RECORD NUMBER 76
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| OPERATION | ITEM NO. | DATE | TIMES OVER | LABOR HOUR S | MACHINE HOURS | FUEL,OIL, LUB.,REP. PER ACRE | FIXED COSTS PER ACRE |
|------------------|----------|------|------------|--------------|---------------|------------------------------|----------------------|
| ROTARY MOWER | 3,121 | APR | 1.00 | 0.578 | 0.477 | 2.23 | 3.77 |
| ROTARY MOWER | 3,121 | JULY | 1.00 | 0.578 | 0.477 | 2.23 | 3.77 |
| DISK OFFSET | 3, 59 | SEPT | 2.00 | 0.630 | 0.521 | 3.14 | 6.75 |
| SEED BROADCASTER | 3,106 | SEPT | 1.00 | 0.335 | 0.277 | 1.93 | 6.34 |
| RING ROLLER | 56 | SEPT | 1.00 | 0.000 | 0.298 | 0.09 | 1.23 |
| TOTALS | | | | 2.121 | 2.051 | 9.60 | 21.85 |

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02/20/81

UC Cooperative Extension

VERSION #29.3.8.

2/20/81 3:22:48 HOURS

STORED DATA PAGE (NO CALCULATIONS) FOR IRRIG PASTURE

BUDGET RECORD NUMBER 76

SAMPLE COSTS TO ESTABLISH IRRIGATED PASTURE
 SAN JOAQUIN CO. 1980
 (LAND PREP., PLANTING AND ADD. FIRST YEAR COSTS)

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COSTS AND RETURNS WILL BE
 DIVIDED BY 1.0 ACRE
 TO OBTAIN PER ACRE 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 RENT | UNIT CODE | ITEM CODE | TYPE | XXXX |
| 1 IRRIG PASTURE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 0. | 22. | 2. | 0. |

| OPERATING INPUTS | RATE/UNIT | | | | | | | | | | | | PRICE | SHARE RENT | UNIT CODE | ITEM CODE | TYPE | HARV CODE |
|--------------------|-----------|------|------|------|------|------|------|------|------|-------|------|------|---------|------------|-----------|-----------|------|-----------|
| 6 CUSTOM CHISEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 10.000 | 0.000 | 7. | 278. | 3. | 0. |
| 7 CUSTOM LANDPLANE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 5.000 | 0.000 | 7. | 282. | 3. | 0. |
| 8 CUSTOM BORDER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 7.500 | 0.000 | 7. | 284. | 3. | 0. |
| 9 SINGLE-SUPR PHOS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 125.000 | 0.000 | 3. | 219. | 3. | 0. |
| 10 PAST. SEED MIX | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.00 | 0.00 | 0.00 | 1.500 | 0.000 | 12. | 121. | 3. | 0. |

| MACHINERY REQUIREMENTS | IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE | | | | | | | | | | | | M CREW LABOR | POWER UNIT | MACH CODE | TYPE | HARV CODE | |
|------------------------|---|------|------|------|------|------|------|------|------|------|------|------|--------------|------------|-----------|------|-----------|----|
| 26 DISK OFFSET | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 3. | 59. | 4. | 0. |
| 27 SEED BROADCASTER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 3. | 106. | 4. | 0. |
| 28 RING ROLLER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 0. | 56. | 4. | 0. |
| 29 ROTARY MOWER | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 3. | 121. | 4. | 0. |

| EQUIPMENT REQUIREMENTS | NUMBER UNITS | PROPORT OF COST | XXX | EQUIP CODE | TYPE | XXXX |
|-------------------------|--------------|-----------------|-----|------------|------|------|
| NONE STORED WITH BUDGET | | | | | | |

| LIVESTOCK INVESTMENT COLUMNS ---> | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------------------------------|---------------|-----------------|--------------------|----------------|--------------------------|-----------|------------------------------|
| LAND REQUIREMENTS | CHARGE METHOD | NUMBER OF ACRES | VALUE OR COST/ACRE | TAXES PER ACRE | PERENNIAL CROPS YRS LIFE | COST/ACRE | |
| APRISE 2-22 REGION/COUNTY | 1. | 80.00 | 4000.00 | 0.00 | 0.0 | 0.00 | |
| | 39 | UNASSIGNED | 00000 | MACH COMP | 1 | IRIG SYST | 0 UNASSIGNED |
| | | | | | | 0 | EQUIP SET 2 HARVEST MONTH 10 |

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 LAND OWNERSHIP BASIS

02/20/81 MACHINERY COMPLEMENT 1
 EQUIPMENT COMPLEMENT 2

| GENERAL NAME CHANGE-> | LINE CHANGE | VALUE | RW CL | LINE CHANGE | VALUE | RW CL | LINE CHANGE | VALUE | RW CL | LINE CHANGE | VALUE | RW CL |
|-----------------------|-------------|-----------|--------|-------------|-------------------|--------|-------------|----------|--------|-------------|----------|----------|
| MACHNRY NAME CHANGE-> | 3 | 50.000000 | 3. | 282 | 3.13.15960.000000 | 3.16. | 106 | 0.650000 | 11. | 121 | 5.000000 | 12. |
| | | 4.800000 | *** 5. | | 0.600000 | ***13. | | 0.650000 | ***11. | | 0.560000 | |
| PARAMETER CHGS--> | 6. | 0.073700 | 26. | | 0.000001 | 10. | | 5.000000 | 11. | | 5.000000 | 8. |
| | 17. | 0.000000 | | | | | | | | | | 0.000000 |

DATE PRINTED: 02/20/81

CASH FLOW & INVESTMENT SUMMARY FOR IRRIG PASTURE

*** SCS BUDGET ***

BUDGET RECORD NUMBER 76

SAMPLE COSTS TO ESTABLISH IRRIGATED PASTURE

BY W. VAN RIET

SAN JOAQUIN CO.

1980

G. HUTTON

(LAND PREP., PLANTING AND ADD. FIRST YEAR COSTS)

FARM ADVISORS

MONTHLY SUMMARY OF RECEIPTS AND EXPENSES

| CATEGORY | UNIT | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| OPERATING EXPENSES | | | | | | | | | | | | | | |
| CUSTOM CHISEL | \$/AC | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.00 | 0.00 | 0.00 | 0.00 | 10.00 |
| CUSTOM LANDPLANE | \$/AC | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 2.50 |
| CUSTOM BORDER | \$/AC | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 | 0.00 | 0.00 | 0.00 | 7.50 |
| SINGLE-SUPR PHOS | \$/AC | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 | 0.00 | 0.00 | 15.63 |
| PAST. SEED MIX | \$/AC | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.00 | 0.00 | 0.00 | 21.00 |
| MACHINE LABOR COST | \$/AC | 0.00 | 0.00 | 0.00 | 2.89 | 0.00 | 0.00 | 2.89 | 0.00 | 4.83 | 0.00 | 0.00 | 0.00 | 10.61 |
| INTEREST ON OPER. CAP. | \$/AC | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.09 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.46 |
| TRACTOR COST | \$/AC | 0.00 | 0.00 | 0.00 | 2.10 | 0.00 | 0.00 | 2.10 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 7.72 |
| EQUIPMENT COST | \$/AC | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.12 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 1.88 |
| TOTAL EXPENSES | \$/AC | 0.00 | 0.00 | 0.00 | 5.30 | 0.00 | 0.00 | 5.21 | 0.00 | 30.16 | 36.63 | 0.00 | 0.00 | 77.29 |

MONTHLY IRRIGATION AND LABOR REQUIREMENTS

| | | | | | | | | | | | | | | |
|---------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MACHINE LABOR | HR/AC | 0.00 | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 | 0.58 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 2.12 |
|---------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|

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 50 HP | 3 | 50.0 | 15960. | 20. | 300. | 4.47 | 4.27 | 0.00 | 8.74 | 4.44 | 0.67 | 2.61 | 7.72 | 1.928 |
| RING ROLLER | 56 | 12.0 | 2400. | 20. | 50. | 0.68 | 0.55 | 0.00 | 1.23 | 0.00 | 0.00 | 0.09 | 0.09 | 0.298 |
| DISK OFFSET | 59 | 12.0 | 3960. | 15. | 50. | 2.49 | 1.67 | 0.00 | 4.15 | 0.00 | 0.02 | 0.83 | 0.84 | 0.521 |
| SEED BROADCASTER | 106 | 12.0 | 4800. | 15. | 27. | 2.97 | 1.99 | 0.00 | 4.96 | 0.00 | 0.01 | 0.69 | 0.71 | 0.277 |
| ROTARY MOWER | 121 | 6.0 | 1440. | 15. | 50. | 1.67 | 1.10 | 0.00 | 2.77 | 0.00 | 0.00 | 0.24 | 0.25 | 0.955 |
| MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE | | | 357. | | | 12.27 | 9.58 | 0.00 | 21.85 | 4.44 | 0.70 | 4.46 | 9.60 | |
| TOTAL INVESTMENT | | | 28560. | | | | | | | | | | | |

BASED ON 80 ACRES PASTURE ON 160 ACRE FARM CLOVER, RYE MIX SEED ESTABLISHED FOLLOWING CORN/GRAIN CROP

LAND OWNERSHIP BASIS DATE PRINTED: 02/20/81

UC Cooperative Extension 02/20/81

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 | " " | |