

#### ACKNOWLEDGEMENTS

This Sample Cost of Production Study, Woodland Area ~ 1985, is developed in consultation with a group of Yolo County farmer cooperators. Their advice and counsel on crops to be considered, acreages, equipment needs and usage, and production practices formed the foundation upon which the enterprise study was based. We are grateful to each of them for volunteering their time and knowledge for making the study as practical as possible.

We also wish to thank the many people from industries (equipment, chemical, energy, financial, etc.) for their help with equipment, money and material costs.

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Prepared by
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Yolo County, California
April, 1985

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#### INTRODUCTION

This 1985 cost study provides information on estimated costs of growing crops of major importance in Yolo County. Five field and vegetable crops commonly grown in the Woodland area were chosen for study. For purposes of the study, a hypothetical farming operation was developed based on the minimum acreage of each crop that might be considered an efficient unit, for that crop, as part of the total enterprise.

#### Hypothetical Farming Enterprise

Crops	Acres
Alfalfa	400
Corn	600
Sugar Beets	300
Tomatoes	700
Wheat	900
Total	2,900

The study is aimed at answering questions on production costs and potential returns using local production practices. Figures given represent estimates, not actual costs. Actual costs will vary from farm to farm because of differences in soil, size of operation, equipment used, crop rotations, wage rates, water costs, etc. Growers are urged to use their own data in arriving at true costs for their own farming operations.

#### EQUIPMENT:

Tractors and implements used in this farming operation are listed on pages 25 and 26. Equipment costs are divided into cash and non-cash costs.

Cash costs include: Fuel and oil, repairs, insurance and taxes.

Non-cash costs include: Depreciation and interest on investment in equipment.

The equipment table includes: Original cost, hours of operation, cash, non-cash and total hourly charges for tractors and implements. Generally speaking, the more hours a piece of equipment is used, the lower will be its cost per hour of operation. Some farming operations (i.e. alfalfa harvesting) are done on a custom basis at prevailing custom rates in the Woodland area. A few pieces of rental equipment are utilized in the operation.

#### COUNTY EQUIPMENT TAX:

The tax rate used is 1.20% of the assessed value. For this cost study, assessed value is 55% of original cost.

Original cost x 55% x 1.12% = tax on equipment

Note: In practice, county assessed value is more accurately determined by the use of tables.

#### EQUIPMENT INSURANCE:

Insurance is charged at \$5.00 per \$1,000 of insured value. Insured value is estimated at 55% of original cost.

Original cost x 55% x 0.5% = insurance cost

#### INTEREST ON INVESTMENT IN EQUIPMENT:

Interest on equipment investment is charged at 12.0% simple annual interest. The study uses average interest over the life of equipment.

$$\frac{\text{Original cost}}{2} \times 12.0\% = \text{interest on equipment}$$

Interest charges are divided equally into cash and non-cash costs. Cash interest charges represent the operator's equipment loan costs; non-cash interest charges represent interest on the operator's equity or investment in equipment. Cash interest charges appear as "Equipment Loan Interest Cost"; non-cash interest charges appear under "Investment Costs" as interest and depreciation.

#### EQUIPMENT REPAIRS:

Repair costs are taken from University of California publication "Farm Machinery Costs" leaflet 2263 (revised May 1981). Costs are adjusted to 1985 prices. Average repair costs for machinery life are used. When available and appropriate, local grower repair costs are used.

#### FUEL COSTS:

Fuel requirements are calculated from University of California publication AXT 336, "Machinery Costs and Performance."

Type Tractor	Horsepower at 75% Maximum Rating
Diesel wheel engine	.065
Diesel tracklayer	.075

Flywheel HP x 86% = PTO HP (approximation) PTO HP x 86% = drawbar HP

Fuel price + 10% (for lube & oil + filters) = fuel costs

Diesel \$.90 + \$0.09 = \$.99/gallon

Unleaded gasoline \$1.00 + \$0.10 = \$1.10/gallon

Example: 144 drawbar HP tracklayer:

144 x 75% max. pull = 108 HP x 0.075 gal. =  $\frac{8.1}{hr}$  gal. x \$0.99 = \$8.02/hr.

150 HP wheel engine (PTO):

 $150 \times 86\% \times 75\% \times 0.065 = 6.29 \times \$0.99 = \$6.23/hr$ 

Pickup and truck fuel requirements are taken from University of California leaflet 2263.

#### WATER COSTS:

Water costs for this 2,900 acre farm are computed on the basis of using 1/2 irrigation district water (canal delivery system) and 1/2 well water.

Irrigation district water - \$9.98/acre foot
Well water pumped - \$20.32/acre foot (power & standby charge)

The average cost is \$15.15 per acre foot on 1/2 canal and 1/2 well usage.

Power cost for pumped water is based on a 450' well, a 125' lift, and a 75 HP turbine operating at 65% efficiency.

In the study, no investment costs for the wells and pumps are charged because all land is rented (landowner cost).

Note: Total costs of pumping for an operator owning his own pumps and wells would be:

\$20.32 power (including demand charge)

1.42 taxes, insurance, and repairs

7.37 interest and depreciation (20 year life)

\$29.11 per acre foot

These costs are based on pumping 570 acre feet per year.

#### BUILDINGS:

A \$150,000 investment in farm buildings is assumed for the study. The primary building is a fully equipped farm shop with storage for chemicals, fertilizer and seed. A used \$5,000 forklift is included in the shop.

Building costs are equally distributed over 2,900 acres.

#### \$150,000 original cost:

```
$ 7,500 - depreciation (20 year life)
9,000 - interest on average investment at 12%
990 - taxes: original cost x 55% x 1.20%
413 - insurance: original cost x 55% x 0.5%
1,500 - repairs and maintenance: 1% of original cost
$19,403/2,900 acres = $6.69/acre
```

\$5.69 fixed (depreciation and interest)

#### LAND RENT:

All ground is leased. No charges are made for land taxes, investment costs of land or pumps and wells.

Rental charges are listed as percent of gross income to the landlord:

Crop	Percent
Alfalfa	25
Barley	33 (30-33)
Beans	25 (20-25) single crop
Beans	20 double crop
Corn	25 (20-25) + 25% share drying costs single crop
Corn	20 double crop + share drying
Milo -	25 single, 20 double crop
Safflower	25 (25-33)
Sugar Beets	20 (15-20)
Tomatoes	16 (13-18)
Wheat	33 (30-33)

Crop share rents shown here are approximate averages for the area. Individual share leases are negotiated between the landowner and tenant and may vary depending on soil classification, water cost and availability and crop economics. Share rents are changing for the first time since these studies were first initiated in 1958. Share rents to the landowner are decreasing because of depressed crop prices and increasing costs of producing and marketing crops.

#### LABOR COSTS:

The labor rates are estimated to be representative of the Woodland area. Actual labor rates vary from farm to farm. All labor costs, wages and benefits, are charged directly to operations.

		Wages + Benefits	Total Cost Per Hour
General la	bor	3.75 + 1.28	\$5.03
• •	ctor driver on work)	5.25 + 1.79	7.04
	ctor driver tractor skills)	4.75 + 1.62	6.37
Irrigators		4.10 + 1.39	5.49
Tomato har	vester operator	5.25 + 1.79	7.04
Benefits:	Social Security Workman's Compensat Holidays Unemployment Insura Health Insurance Bonuses Pensions	) ion ) ) nce ) Estimated at 34% of ) )	f cash wages

#### PRODUCTION LOAN INTEREST COST:

All cash costs are funded by production loans. Production loans are reduced, during the year, as income is received from crop sales. It is assumed that income is received 30 days after crop harvest. Loan interest is charged at 12% simple annual interest. Loan interest calculations are made on an independent, crop by crop basis. Production loan costs would be less (for the overall enterprise) if the cash flow among crops had been integrated and if a beginning cash reserve had been used. On the other hand, production loan costs will be much higher for those operators who store crops for later sale or for those operators whose crop income payments are withheld for several months.

#### COMMON COSTS:

The miscellaneous equipment, miscellaneous labor and supplies, trucks and pickups are needed for the overall farm operation. Costs are spread to specific crops on a percentage of gross income basis.

#### DEPRECIATION:

Depreciation (buildings and equipment) straight line depreciation is used in all cases. (Original cost divided by years of life.)

Crops	Price/ Yield Unit Acres	Gross Farm Income % of Gross
Alfalfa	$7 \text{ tons } x \$80.00 \ x \ 400 = \$2$	\$224,000 \$224,000/\$1,940,850 = 12%
Wheat	55  cwt  x \$ 5.50 x 900 = \$2	\$272,250 \$272,250/\$1,940,850 = 14%
Corn	90 cwt x \$ 5.50 x 600 = \$2	\$297,000 \$297,000/\$1,940,850 = 15%
Sugar Beets	22 tons x $$36.00 \times 300 = $2$	\$237,600 \$237,600/\$1,940,850 = 12%
Tomatoes	25 tons x $$52.00 \times 700 = $9$	\$910,000 \$910,000/\$1,940,850 = 47%
TOTAL:	\$1,9	,940,850 100%

Expenses that were distributed by this spread method were:

#### A. Supervisory labor and office expenses:

3 foremen (salaries and benefits)
Bookeeping and tax reports
Office supplies, telephone, postage, etc.
Liability insurance
Attorney's fees and association fees, etc.

#### B. Miscellaneous Equipment:

Low bed and tractor (used)
Equipment carrier
Small "cleanup" disc
Angle blade
Sprayer system
Fuel wagons
Closed mixing spray system

#### C. Pickups and truck:

- (2) 2-ton trucks
- (2) 3/4 ton pickups
- (2) Economy-size pickups

#### RETURN TO MANAGEMENT:

Return to management should be a consideration. However, costs may not be cash costs unless a professional manager was hired. Returns for management generally are figured at 5% of the gross income.

### ALFALFA HAY (COST TO ESTABLISH AND DESTROY)

100 acres/year - (following wheat)

(Wheat straw baled or burned - One stubble discing charged to wheat)

(50 acres sprinkled up in fall + 50 acres germinated by fall rains)

CASH COSTS DEP ACRE

	HOURS/	CASH COSTS PER ACRE				
·	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
COSTS TO ESTABLISH:						
SEED BED PREPARATION:						
DISC 1X	.13	.83	1.96	.90	٠.	3.69
CHISEL 2X	.80	5.10	16.44	2.43	***	23.97
TRIPLANE 2X	.33	2.10	4.99	1.20	***	8.29
PULL CHECKS 1X (BG)	-25	1.59	1.92	.47	-	3.98
SHAPE CHECKS 2X (RENTED SHAPER)	.10	.64	1.16	1.00	-	2.79
PULL & CLOSE DITCH	.10	.64	1.51	.24	<b>-</b> ·	2.39
PRE IRRIGATE 8" WATER	1.25	6.86			10.10	16.96
(1/2 SURFACE + 1/2 PUMP)						
INCORPORATE HERBICIDE DISC 2X	.44	2.80	6.65	3.03	<del>-</del> .	12.49
TRIPLANE MIDDLES 1X	.17	1.08	2.57	.62	-	4.27
HARROW & ROLL 1X	.08	<b>.</b> 51	1.21	.21	_	1.93
PLANT BRILLION (PLANTER RENTED)	.25	1.59	1.92	.50	-	4.02
SEED 20# PER ACRE @ \$2.10/LB.	-	-	<del>-</del>	•••	42.00	42.00
SPRINKLE UP 1/2 @ \$75.24/ACRE	1.56	8.56	-	23 <b>.9</b> 8	10.16	42.70
WEED CONTROL			٠.			
PREPLANT HERBICIDE	**	-	-	-	15.43	15.43
2,4-DB POST EMERGENCE	***	••••	-	•	7.88	<b>7.8</b> 8
AIRCRAFT (POST EMERGE)	_	-	-	_	5.50	5.50
MISC. EQUIPMENT USE	_	•53	.78	.47	-	1.78
MOVE EQUIP., SETUP & SERVICE 10%	,					
OF LABOR COST		1.74				1.74
PICKUP & TRUCK USE	<del>-</del>	<del></del>	_	2.54	-	2.54
TOTAL		34.57	41.11	37.59	91.07	204.34
	,		•	,		
SUPERVISORS SALARIES, ACCOUNTING OFFICE EXPENSE					24.33	24.33
EQUIP. LOAN INTEREST COST					3.84	3.84
TOTAL CASH COSTS TO ESTABLISH:						232.51

ALFALFA CONT.

#### CASH COSTS PER ACRE

	HOURS/					
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
COSTS TO DESTROY:					,	
STUBBLE DISC BORDERS 1X PLOW 1X	.06 .40	.38 2.55	.91 4.63	.57 1.61		1.85 8.79
MOVE EQUIP., SET UP & SERVICE @ 10% OF LABOR COSTS	-	.29	<del>-</del>	_	<del>-</del>	.29
CASH COSTS TO DESTROY:	-	3.22	5.54	2.18	<del>-</del> .	10.94
TOTAL CASH COSTS TO ESTABLISH & DESTR	OY:				\$	243.45
INVESTMENT COSTS:				- Outer distribution and an alone digraph grown, again, graph grap	in think the time was good the face about most good film, the time	
INTEREST & DEPRECIATION (tractors & implts.)	- -	<del>-</del>	-	<b>-</b>	14.07	14.07
TOTAL ALL COSTS TO ESTABLISH & DESTRO	Y: (per acre)				\$	257.52

# ALFALFA HAY (4 YEAR LIFE) 400 ACRES ON A 2,900 ACRE FARM LEASE BASIS - 25% OF GROSS SALES TO LANDLORD YIELD 7 TONS

	HOURS/		CASH COSTS PER ACRE			
•	ACRE	LABOR		IMPLT.	MATERIAL	TOTAL
CASH GROWING COSTS:						
IRRIGATE 8X @ \$5.49/HR.	5.00	27.45	_	_	-	27.45
WATER (CASH COST 4 AC.FT.)			-		60.60	60.60
(1/2 PUMP @ \$20.32/AC.FT.)						
(1/2 SURFACE @ \$9.98/AC.FT.)	10		3 53	40		
DITCH (OPEN & CLOSE) 2X	.10	.64	1.51	.48	-	2.63
INSECT CONTROL 2.5X MATERIALS	_	_			16.34	16.34
AIRPLANE		_	_	_	13.75	13.75
WINTER WEED CONTROL	_				13.73	13.73
MATERIALS			·	-	24.66	24.66
GROUND APPLICATION (CUSTOM)				_	5.50	5.50
MISC. EQUIPMENT USE	-	<b>.</b> 53	.78	. 47		1.78
PICKUP & TRUCK USE	-	<del></del>	<del>-</del>	2.54	-	2.54
MOVE EQUIP., SET UP & SERVICE @ 10% OF LABOR COSTS	. –	.12	-		* ***	.12
TOTAL GROWING COSTS:		28.73	2.29	3.50	120.85	155.37
SUPERVISORS SALARIES, ACCOUNTING, OFFICE EXPENSE	-		-	-	24.33	24.33
BUILDINGS (TAXES, INS., REPAIRS)			**	_	1.00	1.00
PRODUCTION LOAN INTEREST COST	-	***	-	•••	11.04	11.04
EQUIPMENT LOAN INTEREST COST	-		_	-	3.84	3.84
	•					
TOTAL PRE HARVEST CASH COSTS:		والمراجعة				195.58
HARVEST COSTS: (CONTRACT @ \$25/TON X 7 TONS/ACRE)					175.00	175.00
LANDLORD SHARE - 25% OF 7 TONS @ \$80/TON	1	•			140.00	140.00
TOTAL CASH COSTS PER YEAR:			·		\$	510.58

ALFALFA CONTINUED	Apad malak dawa Sawa Sawa Sawa Sawa salam salam salam salam salam salam Sawa Sawa Sawa Sawa Sawa Sawa Sawa Sa	TOTAL
INVESTMENT COSTS:		
BUILDINGS (interest & depreciation)		5.69
TRACTORS & IMPLEMENTS (interest & depreciation)		14.07
STAND ESTABLISHMENT @ \$257.52 (depreciation over 4 years) (interest on investment)		64.38 15.45
TOTAL ALL COSTS PER ACRE:	\$	610.16
COSTS PER TON:	\$	87.17

COST PER TO	AT VARIOUS YIELDS
5 TONS	104.03
6 TONS	94.19
7 TONS	87.17
8 TONS	81.90
9 TONS	77.80

MANAGEMENT FEE @ 5% OF GROSS INCOME:
(usual charge for management not included in this study)
(10)

#### FIELD CORN

600 ACRES FOLLOWING WHEAT, CORN, ALFALFA OR SUGAR BEETS ON A 2900 ACRE FARM LEASE BASIS - 25% OF GROSS SALES TO LANDLORD (LANDLORD PAYS 25% OF DRYING COSTS)
YIELD - 9,000 LBS/ACRE

	TIOTING /	CASH COSTS PER ACRE				
	HOURS/ ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
SEED BED PREPARATION:	P. St. St. St. St. St. St. St. St. St. St		<del></del>			
FALL:			•	•		
PLOW (1/2 ACRES)	•20 <sup>-</sup>	1.27	2.31	.81		4.40
SUBSOIL & ROLL (1/2 ACRES)	.20	1.27	4.11	.94	· _	6.33
TRIPLANE 2X	.34	2.17	5.14	1.23	<del>-</del> ,	8.54
LIST UP BEDS (1/2 ACRES)	.13	.83	1.23	.17	- '	2.24
HERBICIDE (1/2 ACRES)	-			. –	5.75	5.75
AIRPLANE (1/2 ACRES)	-			-	2.75	2.75
SPRING:						
SPRINGTOOTH 2X (1/2 ACRES)	. 08	.51	1,21	.39		2.11
LIST UP BEDS (1/2 ACRES)	<b>.</b> 13	.83	1.23	.17		2.24
INCORPORATE HERBICIDE (1/4 ACRES)	.05	.32	.38	.13		.83
HERBICIDE (1/4 ACRES)	-	<b>-</b> .	-		5.45	5.45
ROLLING CULTIVATOR (ALL ACRES)	-20	1.27	1.54	.52	· <del>-</del>	3.33
MOVE EQUIP., SET & SERVICE @ 10% OF LABOR COSTS	-	.85	, <del>-</del>	-	<u>.</u>	-85
TOTAL SEEDBED PREPARATION COSTS:		9.32	17.16	4.37	13.95	44.80
PLANTING:						<del></del>
PLANT	.33	2.32	2.63	1.68		6.63
SEED 18 LBS. @ \$1.27/LB.	-	_	-	_	22.86	22.86
STARTER FERTILIZER @ 15 GALS/ACRE (@ \$1.50/GAL. + \$1.75 ZINC)	. <del>-</del>		_	-	24.75	24.75
MOVE EQUIPMENT SET UP & SERVICE		.46	_	<del>-</del>	-	.46
020% OF LABOR COSTS			•			
TOTAL PLANTING COSTS:		2.79	2.63	1.68	47.61	54.70
					•	

(11)

#### CASH COSTS PER ACRE

COM CONT.	HOURS/							
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL		
GROWING COSTS:		· · · · · · · · · · · · · · · · · · ·						
BREAK CRUST (10% ACRES)	.02	.13	.15	.05	_	.33		
CUTWORM CONTROL (1/3 ACRES)			•					
MATERIAL	priors .	-	-		7.50	7.50		
AIRPLANE	<del>-</del> ·	-	, <del>-</del>	-	1.83	1.83		
ROLLING CULTIVATOR	.17	1.08	1.31	.72	_	3.11		
FURROW & SIDE DRESS	.29	1.85	2.75	•50	-	5.10		
200 LBS. N @ 24c/LB.	· <del></del>	-			48.00	48.00		
DITCH & CLOSE 2X	.10	.70	1.51	. 24		2.46		
IRRIGATE 6X @ 1.25 HRS./ACRE	7.50	41.18		_	-	41.18		
WATER 1.5 AC.FT.@ \$9.98/FT.	-	<b>-</b> .			14.97	14.97		
1.5 AC.FT. WELL @ \$20.32		•••		-	30.48	30.48		
HERBICIDE - GROUND RIG(1/2 ACRES)	.08	.51	.62	• 05	-	1.18		
2,4-D AMINE @ 8 OZ. (1/2 ACRES)	-	-	-		.69	.69		
MITICIDE - CUSTOM			-	****	5.50	5.50		
MATERIAL	-	· · · · · · · · · · · · · · · · · · ·		-	14.75	14.75		
MOVE EQUIP., SET UP & SERVICE @ 15% OF LABOR COST	-	6.82	. <b>-</b>	. –	-	6.82		
TOTAL GROWING COSTS:		52.26	6.34	1.57	123.72	183.89		
TOTAL CHOPAGE COSTS	٠.,							
MISCELLANEOUS COSTS:								
SUPERVISORS SALARIES, ACCOUNTING, OFFICE EXPENSE	_	, , · · <del>-</del>	-	-	26.88	26.88		
PRODUCTION LOAN INTEREST COST	-		_		20.94	20.94		
PICKUP AND TRUCK USE			***		2.81	2.81		
	·	.58	.86	.52	_	1.96		
MISC. EQUIPMENT USE	-	• 50			10.59	10.59		
EQUIPMENT LOAN INTEREST COST BUILDING (TAXES, INS., REPAIRS)	-	, · · · · ·	<b>-</b> .	-	1.00	1.00		
					****	<del></del>		
TOTAL MISCELLANEOUS COSTS:		<b>.</b> 58	.86	.52	62.22	64.18		

(12)

CORN CONT.	Hormo /		Œ			
	HOURS/ ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
HARVEST COSTS:	Minister gillet stylet til til en skale skal I	Anny Aires Aires Airlin Airin Ionn anns anns anns anns	rens representations destro status status space super dilate menti super dans	n tanka denser person sperso staten dalah armen upum anama uni	he majer militar mama apper yampa apama gilam ma ter apama apama apame endan sajam	والمقت والمقار والمقار والمقار المقارم والمقار والمقارد طابارة المقدرة
COMBINE	,22		5.77			9.31
BANKOUT WAGON	.22		1.69			3.36
CHOP STUBBLE	<b>.</b> 25 ·	1.59	2.37	1.03		4.99
DRYING (1/2 CORN @ \$ 4.40/TON)		***	****		7.43	7.43
TOTAL HARVEST COSTS:		4.54	9.83	3.29	7.43	25.09
POST HARVEST COSTS:						
STUBBLE DISC	.22	1.40	4.52	2.07	-	8.00
TOTAL CULTURAL AND HARVEST COSTS:						380.67
SHARE RENT (25% of gross, less	de samp again gain, amain, again alban bagan bagan amain, babba diama.		THE METER SHAPE FROM SHAPE SHA		118.79	118.79
1/4 of drying & dockage) DOCKAGE, TENNANTS SHARE(2% OF 90 CWT.)	)	aptim			7.43	7.43
TOTAL CASH COSTS:						506.88
INVESTMENT COSTS:	in pales salah make sapa dalah mada salah sa				and the state of the state and the state and the state and the state of the state of the state of the state of	i deligii vidullire sigliiddi vaallias squaase Cliterar arasti radiasse, salren V
BUILDINGS (INTEREST & DEPRECIATION)		***		_	5.69	5.69
TRACTORS & IMPLIT. (INT. & DEPRE.)		_		~	28.63	28.63

34.32

34.32

541.20

6.01

(Management fee @ 5% of gross income - 90/cwt. @ \$ 5.50/cwt) -- (\$ 24.75) (usual charge for management not includin this study)
(13)

TOTAL INVESTMENT COSTS:

TOTAL ALL COSTS PER ACRE:

COST PER OWT.

## SUGAR BEETS (22 TONS/ACRE - 15% SUGAR) 300 ACRES FOLLOWING WHEAT SPRING PLANTING/FALL HARVEST

CVCH	COSTS	DED	$\Delta CDE$

	H( A (DC)					
	HOURS/ ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
FALL GROUND PREPARATION:						
BALE STRAW(CUSTOM - NO CHARGE)						
V DITCH, OPEN & CLOSE	.05	.35	.76	.24	-	1.35
PRE-IRRIGATE	1.25	6.86	_	-		6.86
WATER	_	-	_		11.36	11.36
MISC(SHOVELS & DAMS)		· <del>-</del>	-	_	.30	.30
DISC 2X	.26	1.66	3.93	1.79		7.38
TRIPLANE 2X	.34	2.17	5.14	1.23		8.54
LIST	.25	1.76	2.37	.34		4.47
MOVE EQUIP. SET UP & SERVICE	· -	•59	-	_	-	•59
@ 10% OF LABOR COSTS						
250 02 1125000						
TOTAL GROUND PREP. COSTS:		13.39	12.20	3.60	11.66	40.85
PLANTING						
* TT #17 T110						•
FALL (150 ACRES)						
INCORP. HERB. 1X	.17	1.20	1.61	.63	18.36	21.80
APPLY FERT. & PLANT	.17	1.20	1.31	.86	-	3.37
SEED 2 LBS.	_		-		8.00	8.00
STARTER FERT, 10 GALS.		_	-	_	8.38	8.38
, ,						
SPRING (150 ACRES)						
WINTER WEED CONTROL 2X AIR	-	_			16.89	16.89
LILLISTON 2X	.20	1.41	1.54	.52		3.47
PLANT WITHOUT FERTILIZER	.17	1.20	1.31	.86		3.37
SEED 2 LBS.		-	· •••	<b>-</b> .	8.00	8.00
WEED CONTROL, BAND SPRAY	-	-	·	-	14.93	14.93
RECULTIVATE (30 ACRES)	.03	.21	.28	.04		<b>-</b> 54
REPLANT (30 ACRES)	.03	.21	-23	.14	-	<b>.</b> 58
SEED	<u> </u>	*		-	1.60	1.60
MOVE EQUIP. SET UP & SERVICE	<b>-</b>	1.08		-	. •	1.08
@ 20% OF LABOR COSTS						
		- EC	6 30	3.06	76.16	92.01
TOTAL PLANTING COSTS:		6.50	6.28	3.06	\₽•T0	32.UI

	HOURS/					
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
GROWING:	ri- M'eor direk diske siner siner-kalen diske siner papa gaza, ama.		فأنه المحدوريين بالمحد بالمحدود بالمحدود والمحدود والمحدود والمحدود والمحدود والمحدود والمحدود والمحدود والمحد	a Majan spansa manaya markat salah sal	t Bardi, After 1984 fieler stifte stiften udere, udere, admir admir admir udere after	-
CULTIVATE	.33	2.32	3.13	.44		5.90
CUTWORM BAIT (1/3 AC.)	7.55		3123	• • •	3.77	3.77
FIAT ROLL	.12	.76	.92	.14	***	1.83
THIN (ELECTRONIC)	.33	2.32	2.54	2.44	***	7.30
HOE	-				50 <b>.0</b> 0	50.00
FERTILIZE 90 LBS. N	•33 <sup>°</sup>	2.32	3.13	.57	21.60	27.63
LAYBY HERBICIDE	<b>.</b> 25	1.76	1.92	.75	9.51	13.94
ROLLING CULTIVATOR	.20	1.41	1.54	.52	-	3.47
V DITCH, OPEN & CLOSE 3X	<b>.</b> 15	1.06	2.27	.72		4.05
IRRIGATE 7X	8.75	48.04	•	<del></del>	<del>des</del>	48.04
WATER		-	-		60.60	60.60
MISC. (SHOVELS, DAMS)	-			_	2.00	2.00
INSECT & DISEASE CONTROL						
AIRPIANE 3X	manufic .			-	16.50	16.50
WORMS 1X	-	_	-	-	11.58	11.58
MILDEW 2X, SULFUR	***		**	-	9.47	9.47
MOVE EQUIP. SET UP & SERVICE	-	1.79		-	•••	1.79
@ 15% OF LABOR COSTS(-HOE, IRRIG.)						
GROWING COSTS:		61.79	15.46	5.59	185.02	267.86
MISCELLANEOUS COSTS:						Comp. 1000-1000-1000-1000-1000-1000-1000-100
PICKUP & TRUCK USE		etas		~	4.49	4.49
SUPERVISORS' SALARIES, ACCOUNTING	<b>-</b>	- Table	-	-	43.01	43.01
OFFICE EXPENSE			•			
BUILDING (TAXES, INS., REPAIRS)	wa.		***	_	1.00	1.00
MISC. EQUIP. USE	<del></del>	.93	1.37	.84		3.14
PRODUCTION LOAN INTEREST COST				-	27.58	27.58
EQUIPMENT LOAN INTEREST COST	****	<b>***</b>	_	-	7.31	7.31
MISCELLANEOUS COSTS:		•93	1.37	-84	83.39	86.54
and are such greatest one was true from the date date that some some date and also date date that						Angles Species religion in Species States
TOTAL PRE-HARVEST CASH COSTS:					\$	487.26

SUGAR BEETS CONT. HARVEST COSTS: (CUSTOM) (top & dig, \$2/ton; PRODUCTION & HARVEST CASH COSTS:	haul,	\$2.75/ton)		· .	\$	TOTALS 104.50 591.76
LANDLORD SHARE (20% X 22 tons @ \$36/ton)				•	. •	158.40
TOTAL CASH COSTS:					\$	750.16
INVESTMENT COSTS: BUILDING (interest & depreciation) TRACTORS & IMPLITS. (int. & deprec.) TOTAL INVESTMENT COSTS:						5.69 26.48 32.17
TOTAL ALL COSTS/ACRE:	•				\$	782.33
COST PER TON @ 22 TONS/ACRE:		`	n sa di di		\$	35.56
COST SUMMARY:		CASH	NON-CASH	TOTAL		
COST PER ACRE (22 ton yield, 15% sugar)				****		•
GROWING HARVEST LANDOWNER		487.26 104.50 158.40	32.17	519.43 104.50 158.40		
TOTAL:	\$	750.16	32.17	782.33		
COST PER TON (25 ton yield, 15% sugar)				<del></del>	· •	
GROWING HARVEST LANDOWNER TOTAL:	\$	19.49 4.75 7.20 31.44	3.01 - - 3.01	22.50 4.75 7.20 34.45		
COST PER TON (30 ton yield, 15% sugar)						
GROWING HARVEST LANDOWNER TOTAL:	\$	16.24 4.75 7.20 28.19	1.07 	17.31 4.75 7.20 29.26		
MANACMENT FEE. 0.5%	OF GRO	SC TNOOME.			\$ 39.60	

MANAGMENT FEE @ 5% OF GROSS INCOME: (usual charge for management not included inthis study) (16)

\$ 39.60

## TOMATOES (25 TONS PER ACRE) 700 ACRES IN ROTATION FOLLOWING WHEAT OR CORN (1/2 EACH) TWO HARVESTER OPERATION (BOTH ELECTRONIC)

CASH COSTS PER ACRE

	HOURS/ ACRE	HOURS/			Œ	
		LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
SEED BED PREPARATION:	and and an experience of the state of the st					
FALL WORK:			•			
PLOW 1/2 ACRES @ .4 HR/ACRE	.20	1.27	2.31	.81	•••	4.40
LASERPLANE 10% ACRES @ \$120/AC.		-	A14-	· <u>-</u>	12.00	12.00
SUBSOIL 1/2 AC. 2X AFTER WHEAT	.40	2.55	8.22	1.89		12.65
SUBSOIL 1/2 AC. 1X AFTER CORN	.20	1.27	4.11	.94		6.33
TRIPLANE 2X	.34	2.17	5.14	1.23		8.54
DISC 1X	.13	.83	1.96	.90	-	3.69
LIST (ALL FALL BEDDED)						
WITHOUT NEWATICIDE (3/4 AC.)	.19	1.34	1.80	.25	-	3.40
W/NEMATICIDE (1/4 ACRES)	.09	.63	.85	.16	26.38	28.02
FLAT ROLL TO SHAPE	.12	.76	.92	.14	-	1.83
POWER INCORP. TO SHAPE (1/3 AC.)	.25	1.76	2.89	.83		5.48
FALL APPLIED HERBICIDE (3/4 AC.)	.09	.63	.69	.10	15.60	17.02
CONTACT HERB. BY AIR 1X	ears .	•			17.36	17.36
SPRING WORK:						
CULTIVATE (2/3 AC.) 1X	.09	.63	.85	.12	_ `	1.61
RE-CULTIVATE (1/3 AC.) 1X	. 05	<b>. 3</b> 5	.47	.07		<b>.8</b> 9
MOVE EQUIP. SET UP & SERVICE @ 10% OF LABOR COSTS	-	1.42	***	-	<del></del>	1.42
TOTAL LAND PREPARATION COSTS:		15.63	30.24	7.44	71.34	124.64

	HOURS/	***				
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAI.	LATOT
PLANTING:	akin dama dinah silah dapa pilah birah pula darah darah dinah dinah dama dipun purah.				a direk statu statu pata princi di la sinda dapa baira darin darin dalah dari	
PLANT 2 ROWS (2 PEOPLE)						
LIGHTWEIGHT TRACKLAYER 20%	.07	.84	.71	.36	***	1.92
WHEEL, TRACTOR 80%	.26	3.14	2.07	1.34		6.55
SEED 2/3 HYBRID @ 1/2 LB.		-		_	60.00	
1/3 O.P. @ 1 LB.					6.67	6.67
STARTER FERT. 18 GALS./AC.	····	_	_	-	24.61	24.6]
HERB., SURFACE SPRAY 40% AREA	.12	.84	.92	.13		
CRUST BREAKER FOR GERMINATION	.40	2.82	3.08	.54		6.43
REPLANT (SEED ONLY) 10% AC.	.03	.36	.24	.15		7.43
MOVE EQUIP., SET UP & SERVICE		1.60	-	_		1.60
20% OF LABOR COSTS						
				-	~~~	
TOTAL PLANTING COSTS:		9.61	7.02	2.52	117.25	136.40
GROWING:						
SPRINKLE IRRIG. STAND ESTAB.						
1/6 AC. NATURAL RAINFALL	_					
1/6 AC. EARLY, SPRINKLE 1X	<b>،36</b>	1.98	<u></u>	.94	.21	3.13
1/3 AC. MID-SEASON, SPRINK. 2.5X		9.88		4.61		15.54
1/3 AC. LATE, SPRINKLE 3X	2.16	11.86	-	5.54		18.66
CULTIVATE	.25	1.76	2.37	.34		4.47
THIN (ELECTRONIC) 1/3 AC.	.11	.77	.85	.81		2.43
HOE (HAND WEED)	-		-	_	70.00	70.00
FERT. 125 LB. @ 24c	.33	2.32	3.13	.57	30.00	36.03
	.15	1.06	2.27	.72	50.00	4.05
V DITCH, OPEN & CLOSE 3X IRRIGATE 7X @ 1.25 HR./AC.	8.75	48.04	~	-		48.04
		40.04	-		60.60	
WATER 4 AC. FT.	-	***	<del></del>	· _	2.00	2.00
MISC. EQUIP. (SHOVELS, DAMS)	.40	2.82	4.63			14.59
LAYBY HERBICIDE	.29	2.04	2.75	.39	-	5.18
CULTIVATE	.33	2.32	2.63	.44		5.40
CULTIVATE WITH HI-CROP	.20	1.41	1.59	.23		3.24
VINE TRAINER 1/2 AC.	* ZU	2.18		+ 2-3		2.18
MOVE EQUIP., SETUP & SERVICE @ 15% OF LABOR COSTS		2.10	-			۷.10
TOTAL GROWING COSTS:		88.43	20.23	16.09	170.77	295.52

(18)

#### TOMATOES CONT.

#### CASH COSTS PER ACRE

	HOURS/							
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL		
GROWING - INSECT CONTROL:	normen magn gunt enem afass sider; udgir sirini dove sva p same siden si	ander hierer wilder stade broke delakt stiller broke delakt ware gevan o	hamin printer danser (verar-danser Milet i Mjeser derfest († 1911), afriqe Aphin - Aphie Milet	- Aller - Aller Steph - Affer and a count - Sprills spale, count - Affer Steph	क्ष प्रमुक्त प्रेरीको अस्त्रित अस्त्रित स्थापन क्षान्त्रित स्थापन क्षान्त्रित स्थापन स्थापन स्थापन स्थापन स्था -	te States tallete Milital States which space space and experi		
AIRPLANE APPLICATION 3.5X @ \$5.50	——	<u>.</u>	_		19.25	19.25		
FLEA BEETLE 1/4 AC.	-	-	_	-	1.36	1.36		
CUTWORMS, BAIT 1/4 AC.	-	_			5.65	5.65		
WORM CONTROL 2X	4 <b>4</b> 44 ,	-	-		27.46	27.46		
SULFUR DUST 35 LBS. MOLD CONTROL WITH INSECTICIDE	•••	-				4.14		
1/3 AC. 2X	Que.	-	¥**	phin	9.92	9.92		
ETHEPHON 1/5 AC.	.03	.21	.24	.03	7.25	7.73		
WHITEWASH 1/5 AC. CUSTOM	€+	~	-			6.40		
MOVE EQUIP. SET UP & SERVICE								
15% OF LABOR COSTS	-	.03	***	***	den der Sentalen	.03		
TOTAL - INSECT CONTROL COSTS:		.24	.24	.03	81.43	81.94		
MISCELLANEOUS:						•		
PICKUP & TRUCK USE	4-	-	_	_	4.91	4.91		
SUPERVISORS SALARIES, ACCOUNTING, OFFICE EXPENSE	***		-	<b>-</b>	47.07	47.07 .00		
MISC. EQUIP. USE		1.02	1.50	.92	,	3.44		
BUILDING (TAXES, INS., REPAIRS)	<b>-</b>		**		.67	.67		
PRODUCTION LOAN INTEREST COST	•				29.39	29.39		
EQUIPMENT LOAN INTEREST COST	<u>.</u>	encher.	<b></b>	***	14.32	14.32		
CROP INSURANCE, ALL ACRES	_	***	-		30.00	30.00		
TOTAL - MISCELLANEOUS COSTS:		1.02	1.50	.92	126.35	129.79		
TOTAL, PRE-HARVEST CASH COSTS:					<b>\$</b>	768.29		

•	HOURS/					
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
HARVEST EXPENSE:			alle label dans torre tilere som omen gener gener lynk, spep, opp, opp			
NEW MACHINE 3/4 AC. (7 AC./SHIFT) (TWO 10 HR. SHIFTS)	1.07	. <del></del>	33.72	-	_	33.72
OLD MACHINE 1/4 AC. (7 AC./SHIFT) (ONE 10 HR. SHIFT, PART SEASON)	.36	_	18.84	_	-	18.84
DRIVER, HARVESTER	1.43	10.07		· •••	_	10.07
6 SORTERS	8.58	43.16			-	43.16
4 DOLLIES (5TH WHEELS)	2.50	. <del>-</del>	<del></del> .	.80	_	.80
(2)TRACTOR & DRIVER 3/4 AC.	2.14	13.63	20.31			33.95
(1)TRACTOR & DRIVER 1/4 AC.	.36	2.29	4.17	***		6.46
AVENUE OPENER 7% OF ACRES (TRACTOR & DRIVER)	.10	.70	1.16	.35	-	2.21
LIGHTING SYSTEM	.54			2.42	-	2.42
MISC.EQUIP.\$40/DAY X 18 AC./DAY	_		-	-	2.22	2.22
MISC. SUPPLIES \$25/DAY		<del></del>		_	1.39	1.39
TOILET FACILITIES	_	<b>←</b>	PAGE	<del></del> .	.37	.37
INSPECTION FEES	_	_	-	_	4.50	4.50
MISC.(ASSN.,CIRI,LF.HOP.,25c/TON)		<del>-</del>	<del></del> ,	•	6.25	6.25
REJECT LOADS 1% DIRECT HARV.COSTS	_	-	-	•	1.52	1.52
PICKUP & TRUCK USE		- '	-	-	2.46	2.46
SUPERVISORS SALARIES, ACCOUNTING, OFFICE EXPENSE	<del>-</del>		•••		23.53	23.53
BUILDING (TAXES, INS., REPAIRS)	-	_	-	<del></del>	.33	.33
MISC. EQUIP. USE (LOW BED, ETC)	-	<b>.</b> 51	.75	.46		1.72
EQUIP. LOAN INTEREST COST	<del>-</del>	_		***	14.32	14.32
MOVE EQUIP., SET UP, SERVICE & CLEAN @ 15% OF LABOR (-SORIERS)	· •	4.08	pates		<del>~</del>	4.08
TOTAL CASH HARVEST COSTS:		74.45	78.95	4.03	56.88	214.31

TOTAL CASH HARVEST EQUIP. (INT.		214.31 85.00
TOTAL:	 \$	299.31

TOMATOES CONT.	•	COSTS/ACRE
PRODUCTION AND HARVEST CASH COSTS: LANDLORD SHARE (16% X \$52 X 25 TONS)		982.60 208.00
TOTAL CASH COSTS:	\$	1190.60
INVESTMENT: BUILDINGS (interest & depreciation) TRACTORS & IMPLTS. (int. & depreciation)		5.69 144.85
TOTAL INVESTMENT COSTS:		150.54
GRAND TOTAL ALL COSTS PER ACRE:	\$	1341.14
TOTAL COST/TON @ 25 TONS/AC.	\$	53.65

### SUMMARY

#### DOLLARS PER ACRE @ 25 TONS PER ACRE

	CASH	NON-CASH	TOTAL
GROWING HARVEST LANDLORD	\$ 768.29 214.31 208.00	65.54 85.00	833.83 299.31 208.00
TOTAL COST PER ACRE:	\$ 1190.60	150.54	1341.14
COST PER TON @ VARIOUS YIELDS:	20 T/AC.	25 T/AC.	30 T/AC.
CASH GROWING COSTS NON-CASH GROWING COSTS CASH HARVEST COSTS NON-CASH HARVEST COSTS LANDLORD - 16% @ \$52/TON	\$ 38.41 3.28 10.72 4.25 8.32	30.73 2.62 8.57 3.40 8.32	25.61 2.18 7.14 2.83 8.32
TOTAL COST PER TON:	\$ 64.98	53.64	46.08

MANAGEMENT FEE @ 5% OF GROSS INCOME
(usual charge for management not included in this study)
(21)

(\$65/ACRE)

# WHEAT 900 ACRES FOLLOWING TOMATOES, CORN OR ALFALFA ON A 2,900 ACRE FARM LEASE BASIS - 1/3 OF GROSS SALES TO LANDLORD YIELD - 5,500 LBS/ACRE

	HOURS/	CASH COSTS PER ACRE						
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL		
SEED BED PREPARATION			-		· · · · · · · · · · · · · · · · · · ·			
DISC 2X	.26	1.66	3.93	1.79	· _	7.38		
FERTILIZE (1/2 ACRES)	•05	.32	.76		-	1.07		
RENT TAG A LONG @ \$3.00/ACRE	<b>-</b> '	<del>-</del>	<del>-</del> .	_	1.50	1.50		
NITROGEN 100 LBS. N @ 24c/LB.	<del>-</del> ·	-	-	<del>-</del>	12.00	12.00		
RIDGE FOR IRRIGATION (1/2 ACRES)	.03	.19	.28	.10		. 57		
LIST UP BEDS (1/2 ACRES)	.13	.83	1.23	.17		2.24		
HARROW & ROLL	.08	•51	1.21	.41	<del>.</del>	2.13		
MOVE EQUIP., SETUP & SERVICE @ 10% OF LABOR COSTS	: <b>-</b>	.35	<del></del>	<b>-</b>	· -	.35		
TOTAL SEED BED PREPARATION COSTS:		3.85	7.41	2.48	13.50	27.24		
PLANTING				:				
DRILL & FERTILIZE	.13	.83	1.00	.93	-	2.76		
SEED 120 LBS.@ \$10/CWF.		-			12.00	12.00		
STARTER FERT. (N + P 80 LBS.) @ 13.6c/LB.	-		<del>-</del>		10.88	10.88		
MOVE EQUIPMENT., SETUP & SERVICE	<u>-</u> ·	.17	<b></b>	-	<b></b>	.17		
@ 20% OF LABOR COSTS TOTAL PLANTING COSTS:		-99	1.00	.93	22.88	25.81		
GROWING:		•		: :				
path data data and any path of the series.	•		<u>-</u>					
HERBICIDE - GROUND RIG 1/4 ACRES	<b>-04</b>	<b>.</b> 25	.31	.03		.59		
AIRPLANE - 1/2 ACRES		-	_	_	2.75	2.75		
(2,4-D @ 10 OZ/AC 3/4 AC.)					1.28	1.28		
FERTILIZE - TOPDRESS (1/2 ACRES)				:				
(60 LBS.N @ 31c/LB.)			•••	_	9.30	9.30		
AIRPLANE	-				2.25	2.25		
•		(22)						

	HOURS/					•
	ACRE	LABOR	TRACTOR	IMPLT.	MATERIAL	TOTAL
GROVING CONT.			<del></del>		* ***	· · · · · · · · · · · · · · · · · · ·
DITCH (OPEN & CLOSE) IRRIGATE @ 1.25 HRS./ACRE WATER 1/4 ACRE FT. @ \$9.98 1/4 ACRE FT. WELL @ \$20.32	.05 1.25 -	.32 6.86 -	.76 - - -	.12	- 2.50 5.08	1.19 6.86 2.50 5.08
MOVE EQUIP., SETUP & SERVICE @ 15% OF LABOR COSTS	<del></del>	.05	<del>-</del> .	-	_	.05
TOTAL GROWING COSTS:		7.48	1.06	.15	23.16	31.85
MISCELLANEOUS:				:		<del></del>
SUPERVISORS SALARIES, OFFICE EXP. PRODUCTION LOAN INTEREST COST PICKUP & TRUCK USE MISC. EQUIPMENT USE EQUIPMENT LOAN INTEREST COST BUILDINGS (TAXES, INS., REPAIRS)	- - - - -	16.43 - - .36 -	- 1.72 .52 -	- - -32 -	7.81 - - 5.87 1.00	16.43 7.81 1.72 1.20 5.87 1.00
TOTAL MISCELLANEOUS COSTS:		16.78	2.24	.32	14.68	34.02
HARVEST:				<u> </u>		
COMBINE BANKOUT WAGON	.23 .23	1.62 1.47	6.03 .88	_ .28	<del>-</del> -,	7.65 2.63
TOTAL HARVEST COSTS:		3.08	6.91	.28		10.28
POST HARVEST COSTS:			•			
STUBBLE DISC	.22	1.40	4.52	2.07	·	8.00
TOTAL CULTURAL AND HARVEST COSTS:				: :	\$	137.20
SHARE RENT (1/3 gross income) (55 cwt.	@ \$5.50/cwt.	x 1/3)		! !		100.83
(ASCS defic. payment not included) TOTAL CASH COSTS:					\$ \$	238.03

#### WHEAT CONT.

INVESTMENT:				TOTAL
BUILDINGS (INTEREST & DEPREC.) TRACTORS & IMPLEMENTS(INT.& DEPRE.)	 	<del>-</del> . -	<u></u>	5.69 21.14
TOTAL INVESTMENT COSTS:		· i		26.83
TOTAL COSTS PER ACRE:			\$	264.86
COST PER 100 WEIGHT:			\$	4.82

MANAGEMENT FEE @ 5% OF GROSS INCOME - 55 CWT. @\$5.50/CWT (usual charge for management not included in this study)

(\$ 15.13)

COSTS OF EQUIPMENT - YOLD C (Annual & Hourly Costs)

. •		TRACTOR	YEARS	acres per	ORIGINAL.	DEPRE-	INTERES
EDUIPMENT	SIZE	USED	LIFE	HOUR	COST	CIATION	COST
TRACTOR (USED) DRAWBAR HP	144 HP		15		47888	3133	282
TRACKLAYER (NEW)	125 HP		15		114900	` 7688	684
TRACKLAYER (NEW)	125 HP		15		114890	7688	584
Tracklayer, Lightweight	5 <del>0</del> HP		15.		12000	869	72
MHEEL TRACTOR - (PTO HP.)	- 165 HP		10		63700	6370	388
MAKEEL TRACTOR	135 HP		10	,	54 <del>90</del> 0	5460	324
WHEEL TRACTOR	135 HP		10		54898	5490	324
KHEEL (HIGH CLEARANCE)	11 <b>0</b> HP		10		45700	4578	274
WHEEL TRACTOR (USED)	98 HP		10		5000	500	32
WATEL TRACTOR (LISED)	90 HP		10		5000	580	30
Subsoiler (3 Shrank x 24°)	g,	T144	15	2.50	8800	533	48
TRIPLANE	15 X 40°	T125	15	6.00	20000	1333	128
OFFSET DISC	267	T125	15	8.03	18000	1299	188
STUBBLE DISC	141	T144	15	4.58	24666	1620	144
SPRINGTOOTH	32°	T125	15	12.60	7889	520	46
SWEDE HARACH & CART	321	7125	15	12.00	7689	507	45
RING ROLLER (AFTER HARROWS)	321		15	12,90	5598	367	33
REALING CULTIVATORS (2)	165	1/98	15	5.68	3000	268	18
LARGE ROLLER (36" DIAMETER)	127		15	2.50	7688	520	46
INCORPORATOR (2)	15°	W135-165	19	2.59	21988	2169	126
CULTIVATOR SLEDS (6)	161	₩ <del>98-</del> 135	15	3.50	16299	1989	97
CORN-BEET PLANTERS (6) ON SLED		₩9 <b>9</b> ~135	15	3.83	6900	469	41
TOMATO PLANTERS (6) ON SLED		₩9 <del>0</del> -135	15	3.88	6900	460	41
v ditcher (lised)		T125	15	20.68	4888	320	28
GRAIN DRILL	261	W90	15	8.99	11490	760	58
PLON 2 WAY X 5-16 BOTTORS	5-16	H165	15	2,59	19159	677	50
SPROYER SYSTEM		<b>638</b>	15		500	33	
SADDLE TANKS (4 SETS)		ผ135	15	•	6888	453	44
GRAIN COMBINE 29' HEADER	581		19	4.50	84388	8430	565
CORN HEADER - 8 ROM	8 ROM	COMB.	19	5.99	21300	2130	127
TOMATO HARVESTOR (NEW)			5	.70	149000	28000	841
TOMATO HARVESTOR (USED)			5	.79	50000	12000	354
TRUCKS - 2 TON FLATBED (2 USED)			10		16888	1680	91
PICKUPS 3/4 TON (2)			5		20080	4688	129
PICKUPS, COMPACT (2)			5	•	15000	3000	91
LOWSED W/TRACTOR (USED)			15		15988	1988	96

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		TRACTOR	YEARS	ACRES PER	ORIGINAL	DEPRE-	INTERE
EDUIPMENT	SIZE	USED	LIFE	, HOUR	COST	CIATION	COST
MPLEMENT CARRIER	<del></del>	3/4 TON	15		5000	333	;
LECTRONIC THINNERS (2)		W90	10	3.00	10000	1960	- (
B. G. SCRAPER	16'	W30	10	4.68	2500	250	:
XXLLIES (4) (FOR BULK TRAILERS)		1/98	15		3400	227	í
TINE DIVERTER		W135	15		5899	333	
PANKOUT WASON		W50	15		7809	528	
DITCH CLOSER		T125	15	20.99	5800	387	
WIGLE BLADE		W135	15		2689	173	
SMALL DISC	91	TIZ	15		6590	433	
INE TRAINER	•	W135	15	4,08	2500	167	
ENERATOR, LIGHTS (USED)	•		15	.08	4590	300	i
LAT ROLLER	16 <sup>1</sup>	<b>49</b> 8	15	8.00	2588	167	
ALLOWAY Y	163	W135	10	5.09	6929	689	
LAIL CHOPPER 15'	159	W135	10	4, 80	8169	810	
DISC RIDGER		W135	15		4560	380	
UFL MASONS		3/4 TON	10		2800	288	
LOSED HIX SPRAY SYSTEM			10		2000	289	
TOTAL ORIGINAL COST OF EMUL	MENT:			\$	1153859		
SPRINKLER EQUIPMENT:		,					
1/4 NILE WEEL MOVES, COMPLETE (	5)		10	2.4 ACRES/	81988	8188	4
I-1/2 HILES, 8" NAIN LINE			18	1/4 Hi.	<b>389</b> 16	3882	2
900 GPH PUMP WITH DIESEL ENGINE			. 10	LINE/SET	13860	1399	
ADDITIONAL PIPE MOVERS (2 USED)			7		2000	286	
IRRIGATION PUMPS & WELLS:				\$	134916		
(Not used in this cost study	- listed or	nly to show tota	al cost of	pumping as	compared to	irrigation m	ith surf
WELL, 450 DEPTH, 16" OD CASING			. 20	1350 GPM	20888	1848	1
(gravel pack)							
75 HP PUMP, HODKUP, KELL DEVELOPKEI	TY.		28		17400	878	1

ESTIMATED HOURLY EQUIPMENT COSTS (adjusted for standard hours of use & based on original companies)

		YEARS	ACRES/	ORIGINAL	REPAIRS	HOURS	FUEL	TX, INS.
<b>EDUI PRENT</b>	SIZE	LIFE	HOUR	COST	HOUR	YEAR	GRLS/HR	REPAI
TRACTOR (USED) DRAWBAR HP	144 HP	15		479 <del>59</del>	11.82	1200	8. 10	***************************************
TRACKLAYER (NEW)	125 HP	15	٠.	114888	7.63	1200	7.03	
TRACKLAYER (NEW)	125 HP	15		114000	7.03	1200	7.03	
TRACKLAYER, LIGHTWEIGHT	50 HP	15		12000	4.92	250	2.81	
MHEEL TRACTOR - (PTO HP.)	165 HP	16		63700	4.21	1200	6.92	
MEEL TRACTOR	135 HP	10		54000	3.57	1200	5.66	
WHEEL TRACTOR	135 HP	16		54888	3.57	1286	5.66	
MHEEL (HIGH CLEARANCE)	110 HP	10		45700	3.01	1200	4.61	
WHEEL TRACTOR (USED)	98 HP	10		5000	3.92	1200	3,77	
MMEEL TRACTOR (USED)	90 HP	19		5068	3.92	1200	3.77	
SUBSCILER (3 SHANK X 24")	81	15	2.50	8888	2.92	560		
TRIPLONE	16 X 40°	15	6, 98	20008	3.31	500		
OFFSET DISC	261	15	8. 90	18000	6.57	509		
STUBBLE DISC	14 <sup>1</sup>	15	4.58	24968	8.76	568		-
SPRINGTOOTH	321	15	12.68	7800	3.56	588		
SMEDE HARROW & CART	321	15	12.00	7600	1.48	580		
RING ROLLER (AFTER HARROWS)	321	. 15	12.98	5588	2.25	500		
ROLLING CULTIVATOR	151	15	5.00	1588	2.54	250		
LARGE ROLLER (36" DIAMETER)	121	15	2.50	7800	1.56	500		
INCORPORATOR	15'	10	2.50	18588	2.94	250		
CULTIVATOR SLED	16'	15	3.58	2790	1.28	400		
CORN-BEET PLANTERS (6) ON SLED		15	3.00	6900	4,47	300		
TOWATO PLANTERS (6) ON SLED		15	3.00	6900	4.47	300		'
V DITCHER (USED)		15	20. <del>48</del>	4888	2.44	368		
GRAIN DRILL	201	15	8.00	11400	6.28	250		
PLOW 2 MAY X 5-16 BOTTOKS	5-16	15	2.58	16150	3.72	300		
SADDLE TANKS		15		1700	.36	588		
GRAIN COMBINE 20' HEADER	201	10	4.50	84300	18.06	500	6,91	
CORN HEADER - 8 ROM	B ROM	10	5.00	21300	7.56	250		
ELECTRONIC THINNER		· 10	3,66	5999	6.86	250		
VINE DIVERTER		15		5000	2.86	100		
BANKOUT WAGON	,	15	٠.	7889	1.00	500		
DITCH CLOSER	-	15	26. 23	5800	2.11	358		
VINE TRAINER		15	4.68	2588	1,88	150		
FLAT ROLLER	16'	15	8.00	2500	1.00	250		
ALLOHAY	16'	10	6.08	5888	3.65	258		
FLAIL CHOPPER 15'	15'	16	4, 83	8108	3.60	250		

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