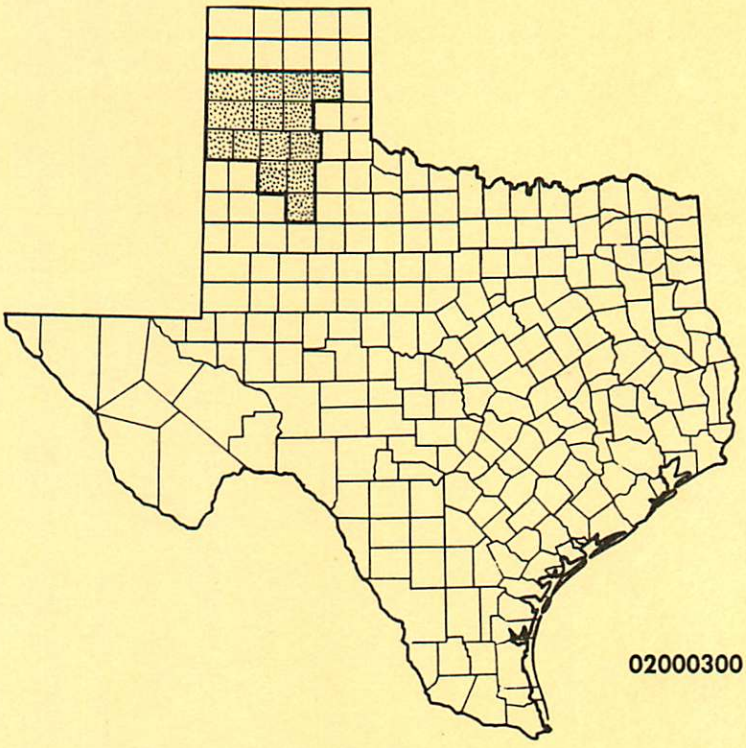

TEXAS HIGH PLAINS II

FOREWORD

The data contained in this report are based on estimates and actual records of operations within an area described as Texas High Plains II. This area includes the "hardlands" or the Pullman Clay Soils south of the Canadian River in the Texas Panhandle. Variations in inputs and returns exist among farms and managers. However, these budgets should serve as useful guides in planning and decision making for agriculturalists concerned with the area described above.

In order to analyze farm enterprises in Texas High Plains II, certain basic assumptions were necessary.

Farm size was assumed to be 1,150 acres for irrigation and 3,000 acres for dryland. The complement of equipment associated with this farm size is shown on form 02000500.

Two different levels of management, typical and high level, were assumed. High level management was assumed to obtain higher yields with the same fixed resources such as land and irrigation water. In addition, the high level manager made more efficient use of equipment and utilized a more highly skilled labor supply which resulted in lower machinery costs. Thus, machinery and tractor costs for the typical manager were developed by multiplying high level costs by a factor of 1.1 to differentiate between the two levels of management. Budgets for irrigated crops are based on the assumption of adequate water availability. No attempt was made to impose a cropping pattern on these budgets for the particular farm size.

Grazing data are estimated in pounds of gain. Government payments were based on full allotments for each crop where applicable. No allowance was made for increased costs due to cultivation of set aside acres since it was assumed that benefits derived from clean tillage or planting grazing crops on these acres would offset most of these costs.

Labor was assumed to include the manager's labor plus any additional labor necessary. Wage rates for various jobs ranged from $1.50 to $2.00. (See 02000400)

Land charge was estimated on the basis of cash rent for irrigated land minus the fixed costs on the pump and irrigation well. The cash lease varied for different crops. (See 02000400)

Dryland rent was based on 1/4 of the gross income for cotton and 1/3 of the gross for other crops. The same percentage division was applied to government payments for dryland.

It was assumed that government payments would not be divided on irrigated land since the operator would pay all variable costs for producing the crops.

TEXAS HIGH PLAINS II

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
Prices Paid 1/		
Seed:		
Rye	cwt.	$ 4.50
Cotton (Di-Syston treated)	cwt.	19.50
Cotton (delinted)	cwt.	15.00
Grain Sorghum	cwt.	21.00
Soybean	cwt.	8.00
Wheat (cleaned and treated)	bu.	2.50
Alfalfa	cwt.	50.00
Corn	cwt.	30.00
Forage Sorghum Ensilage	cwt.	21.00
Sudan	cwt.	20.00
Brome	cwt.	30.00
Vetch	cwt.	20.00
Custom Rates:		
Combining soybeans	acre	5.00
Combining wheat	acre	3.50 2/
Combining grain sorghum (dryland)	acre	2.50
Combining grain sorghum (irrigated)	cwt.	.10
Sugar beet harvest and haul	ton	2.25
Hay harvest, Swath, bale, haul	bale	.45
Corn, harvest, including haul	bu.	.20
Windrow beet tops	acre	5.00
Hauling:		
Grain sorghum	cwt.	.10
Soybeans	bu.	.08
Wheat	bu.	.05 3/
Chemical spraying (aerial)	acre	1.25
Chemical spraying (ground)	acre	.75
Cotton ginning	500# gross wt. bale	21.50 4/
Fuel and lubricants:		
L.P. gas	gal.	.11
Diesel fuel	gal.	.15½
Motor oil (heavy duty, detergent)	gal.	1.05
Lubricant (tube)	lb.	.39
Fertilizer (bulk):		
Nitrogen (anhydrous)	lb.	.035
Nitrogen (granular)	lb.	.075
Labor (except hoeing & irrigation)	hour	2.00
Labor (irrigation)	hour	1.75
Labor (hoeing)	hour	1.50

TEXAS HIGH PLAINS II

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
Capital	$	$ .08
Chemicals:		
Pre-emergence herbicide	5 gal.	110.00
Methyl parathion	gal.	5.25
Malathion	gal.	11.00
Land Lease (cash rent)		
General	ac.	35.00
Sugarbeets & vegetables	ac.	50.00
Alfalfa & permanent pasture	ac.	40.00
Hail insurance:		
Wheat	$100	14.00
Cotton	$100	13.00
Corn	$100	9.45
Grain Sorghum	$100	7.15
Interest		
Capital	$	.08
Operating	$	.085
Prices Received		
Cotton	lb. Lint	$ .20
Cotton seed	ton	60.00
Wheat	bu.	1.30 5/
Grain sorghum	cwt.	2.00 5/
Alfalfa hay (standing in field)	ton	20.00
Forage sorghum hay (baled, in stack)	ton	25.00
Ensilage (corn) standing in field	ton	5.50
Pasture grazing	AUM	8.00
Pasture grazing	lb. gain	.18
Corn (grain)	bu.	1.15
Soybeans	bu.	2.50
Sugar beets		
22 T @ 14%	ton	10.50
20 T @ 12%	ton	9.20

1/ These price assumptions are not to be interpreted as predictions or prospective prices.

2/ $3.50 per acre plus $0.05 per bushel of yield over 20 bushels per acre.

3/ Hauling-combine to elevator $0.05/bu. + $0.05/bu./mi. over 5 miles.

4/ Ginning, $13.25; bagging and tying, $7.00 + Miscellaneous costs, $1.25.

5/ Does not include Government Payment which a farmer might receive for participating in farm programs.

Estimated Machinery And Equipment Cost Per Hour Of Use

Machinery Item and Size	Item No.	New Cost	Estimated Typical Yrs. Of Use	Total Depr.1/	Estimated Total Hrs. Of Use	Depr. Per Hr.2/	Interest on Investment Per Hour 3/	Fuel, Oil, Lub., Rep., Per Hr. 4/
Tractor, 100 HP	1	$10,500	5	$6,015	5,000	$1.20	$ .60	$1.48
Tractor, 85 HP	2	8,000	8	4,896	6,400	.77	.56	1.28
Tractor, 45 HP	3	3,500	12	3,500	7,200	.49	.23	.65
Rolling Cultivator 6R	4	1,700	8	1,268	1,600	.79	.43	.91
Oneway, 15'	5	1,800	10	1,343	1,500	.90	.60	.63
4-Bottom Moldboard Plow	6	1,400	8	1,044	1,600	.65	.35	.49
Chisel, 13'	7	800	8	597	1,600	.37	.20	.43
Float	8	1,500	10	1,194	1,000	1.19	.72	.32
Border Disc	9	200	10	160	1,600	.10	.06	.08
Flex Planter, 6R	10	580	5	375	1,000	.38	.16	.39
Lister-Planter, 6R	11	1,800	8	1,343	1,000	1.34	.72	1.28
Tandem Disc. 13'	12	1,400	8	1,044	1,600	.65	.35	.49
Offset Disc.	13	2,000	8	1,492	1,600	.93	.50	.69
Grain Drill, 16'	14	1,600	10	1,274	1,200	1.06	.64	.44
Shredder, 4R	15	1,400	8	1,044	1,000	1.04	.56	.77
Rod Weeder, 6R	16	325	5	200	1,200	.17	.08	.10
Sandfighter 8R	17	300	10	215	1,000	.21	.12	.30
4-8" wells + Equip 5/	18							
Bedshaper	19	800	12	675	1,600	.42	.28	.30
Harrow	20	300	12	250	1,600	.16	.11	.11
Clod Buster	21	385	12	350	2,000	.18	.10	.05
Beet Thinner, 6R	22	1,800	10	1,500	1,000	1.50	.84	.74
Herbicide Sprayer, 8R	23	500	10	400	2,000	.20	.12	.26
Tool Bar, 6R	24	200	12	175	2,000	.09	.05	.05

1/ New cost less value at time of trade, or less salvage value.
2/ Assumes straight line depreciation.
3/ (Investment + Salvage) ÷ 2 (8%) divided by annual hours of use.
4/ Fuel, oil, lubrication, repair cost estimate taken from Bowers. Modern Concepts of Farm Machinery Mgmt.
5/ See attached Irrigation Cost Analysis

* This complement sufficient for a two-section, above-average manager. Both machinery cost per hour and farm size will be greater for typical management; machinery cost estimated a 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

New, 1972

TEXAS HIGH PLAINS II

Yield Per Acre For Typical And High Level Management

Crop	Unit	Irrigated		Dryland	
		Typical	High Level	Typical	High Level
Cotton	lbs.	500	600	150	200
Grain Sorghum	lbs.	6,500	7,500	1,700	-
Corn For Grain	bu.	110	140	-	-
Corn For Silage	tons	20	27	-	-
Forage Sorghum for Grazing	lb. gain	405	540	50	-
Forage Sorghum for Hay	tons	-	-	1	-
Soybeans	bu.	35	45	-	-
Alfalfa	tons	6	8	-	-
Sugar Beets	tons	20 @ 12%	22 @ 14%	-	-
Permanent Pasture	lb. gain	650	750	-	-
Wheat for Grain	bu.	37	45	15	25
Wheat for Grain	lb. gain	200	250	90	120
Wheat for Graze	lb gain	460	580	125	175
Annual Winter Pasture	lb. gain	550	650	-	-
Life of Alfalfa Stand	years	5	7	-	-
Life of Permanent Pasture Stand	years	7	10	-	-

TEXAS HIGH PLAINS II

Estimated Costs Of Irrigation Water

Well Depth feet	GPM	Distribution System	Power 1/ Source	Per Acre Inch: Operating Cost 2/ dollars	Fixed Cost 3/ dollars	Labor Requirement hrs.	Labor Cost dollars	Total Cost dollars
150	75	h.m sprinkler	electricity	.77	1.63	.211	.37	2.77
		Sidemove-tow	electricity	1.07	1.91	.047	.08	3.08
200	100	h.m sprinkler	electricity	.89	1.63	.211	.37	2.89
		skid tow line	electricity	.97	1.83	.063	.11	2.91
	150	h.m sprinkler	electricity	.83	1.24	.211	.37	2.44
		skid tow line	electricity	.91	1.44	.063	.11	2.46
	250	side roll	nat. gas	.75	1.43	.063	.11	2.29
		furrow	nat. gas	.42	.98	.123	.22	1.62
	400	side roll	nat. gas	.75	1.27	.063	.11	2.13
		s. propelled	nat. gas	.42	.98	.123	.22	1.62
		furrow	nat. gas	.46	.82	.123	.22	1.50
	600	side roll	nat. gas	.75	1.18	.063	.11	2.04
		s. propelled	nat. gas	1.13	1.29	.022	.04	2.46
		furrow	nat. gas	.44	.73	.123	.22	1.39
	800	side roll	nat. gas	.74	1.11	.063	.11	1.96
		s. propelled	nat. gas	1.11	1.22	.022	.04	2.37
		furrow	nat. gas	.44	.66	.123	.22	1.32
250	300	side roll	nat. gas	.78	1.45	.063	.11	2.34
		furrow	nat. gas	.50	1.00	.123	.22	1.72
	400	side roll	nat. gas	.77	1.36	.063	.11	2.24
		s. propelled	nat. gas	1.14	1.48	.022	.04	2.66
		furrow	nat. gas	.46	.92	.123	.22	1.60
	600	side roll	nat. gas	.78	1.25	.063	.11	2.14
		s. propelled	nat. gas	1.15	1.37	.022	.04	2.56
		furrow	nat. gas	.46	.81	.123	.22	1.49
	800	side roll	nat. gas	.77	1.19	.063	.11	2.07
		s. propelled	nat. gas	1.12	1.31	.022	.04	2.47
		furrow	nat. gas	.46	.75	.123	.22	1.43
300	400	side roll	nat. gas	.79	1.47	.063	.11	2.37
		s. propelled	nat. gas	1.16	1.57	.022	.04	2.77
		furrow	nat. gas	.48	1.01	.123	.22	1.71
	600	side roll	nat. gas	.80	1.33	.063	.11	2.24
		s. propelled	nat. gas	1.15	1.45	.022	.04	2.64
		furrow	nat. gas	.48	.88	.123	.22	1.58
	800	side roll	nat. gas	.78	1.26	.063	.11	2.15
		s. propelled	nat. gas	1.14	1.37	.022	.04	2.55
		furrow	nat. gas	.48	.81	.123	.22	1.51
	1000	side roll	nat. gas	.77	1.24	.063	.11	2.12
		s. propelled	nat. gas	1.13	1.36	.022	.04	2.53
		furrow	nat. gas	.47	.80	.123	.22	1.49

TEXAS HIGH PLAINS II

Estimated Costs Of Irrigation Water

Well Depth	GPM	Distribution System	Power 1/ Source	Per Acre Inch: Operating Cost 2/ dollars	Fixed Cost 3/ dollars	Labor Requirement hrs.	Labor Cost dollars	Total Cost dollars
350	400	side roll	nat. gas	.83	1.56	.063	.11	2.50
		s. propelled	nat. gas	1.20	1.67	.022	.04	2.91
		furrow	nat. gas	.52	1.11	.123	.22	1.85
	600	side roll	nat. gas	.81	1.40	.063	.11	2.32
		s. propelled	nat. gas	1.18	1.52	.022	.04	2.74
		furrow	nat. gas	.52	.96	.123	.22	1.70
	800	side roll	nat. gas	.80	1.32	.063	.11	2.23
		s. propelled	nat. gas	1.16	1.44	.022	.04	2.64
		furrow	nat. gas	.50	.88	.123	.22	1.60
	1000	side roll	nat. gas	.80	1.30	.063	.11	2.21
		s. propelled	nat. gas	1.16	1.42	.022	.04	2.62
		furrow	nat. gas	.50	.86	.123	.22	1.58
500	800	side roll	nat. gas	.86	1.47	.063	.11	2.44
		s. propelled	nat. gas	1.21	1.59	.022	.04	2.84
		furrow	nat. gas	.56	1.02	.123	.22	1.80
600	1000	side roll	nat. gas	.89	1.45	.063	.11	2.45
		s. propelled	nat. gas	1.24	1.56	.022	.04	2.84
		furrow	nat. gas	.60	1.00	.123	.22	1.82

1/. LP gas as a power source can be fit into this table by increasing the operating cost for self-propelled sprinklers by 1.65; by 1.80 for all other sprinklers, and by 1.95 for furrow irrigation.

2/. Includes fuel, lubrication, maintenance and repair on well, pumping plant, and distribution system.

3/. Includes depreciation and interest on investment for well, pumping plant, and distribution system.

* Prepared by Marvin O. Sartin, Area Farm Management Specialist, Texas Agricultural Extension Service, Lubbock, Texas; 5/71.

ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Alfalfa Establishment, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Seed	lb.	$ .50	15	$ 7.50
Fertilizer (20-80-0)	ac.	7.10	1	7.10
Machinery	ac.	.60	1.0	.60
Tractor (1)	hr.	1.48	.33	.49
Tractor (2)	hr.	1.28	1.16	1.49
Tractor (3)	hr.	.65	.10	.07
Labor, Tractor & Machinery	hr.	2.00	2.00	4.00
Labor, Irrigation	hr.	1.75	1.72	3.01
Irrigation Machinery	ac.	6.44	1.0	6.44
Pickup, Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	$	.085	17.85	1.52
Total Variable Costs				$ 37.22
3. Fixed Costs:				
Machinery	ac.	1.99	1.0	$ 1.99
Tractor (1)	hr.	1.80	.33	.59
Tractor (2)	hr.	1.33	1.16	1.44
Tractor (3)	hr.	.72	.10	.07
Irrigation	ac.	10.55	1.0	10.55
Land (Net Rent) 1/	ac.	11.56	1.0	11.56
Total Fixed Costs				$ 26.30
4. Total Establishment Costs				$ 63.50
5. Annual Establishment Costs (7 year life)				$ 9.07

1/ $20/acre, 1/2 annual rental less 80% of irrigation fixed costs

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ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre
Of Alfalfa Establishment, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow, Bust	1,6,21	July	1	.41	.33	$ .16	$ .33
Tandem Disc	2,12	Aug	2	.50	.40	.20	.40
Float	2,8	Aug	2	.63	.50	.16	.96
Border	2,9	Aug	1	.13	.10	.01	.02
Fertilize	3	Aug	1	.13	.10		
Plant	2,14	Aug	1	.20	.16	.07	.28
TOTALS				2.00	1.59	$ .60	$ 1.99
Irrigation:	(2)	Aug, Sept Nov	3	1.72		$ 6.44	$10.55

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

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ALFALFA, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Alfalfa, High Level Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production:	ton	$ 20.00	8.0	$160.00
2.	Variable Costs:				
	Establishment	ac.	9.07	1.0	$ 9.07
	Fertilizer (0-100-0)	ac.	8.00	1.0	8.00
	Tractor (3)	hr.	.65	.10	.07
	Labor, Tractor & Machinery	hr.	2.00	.13	.26
	Labor, Irrigation	hr.	1.75	4.17	7.30
	Irrigation Machinery	ac.	15.64	1.0	15.65
	Pickup, Miscellaneous	ac .	5.00	1.0	5.00
	Interest on Op. Cap.	$	.085	18.14	1.54
	Total Variable Costs				$ 46.88
3.	Income Above Variable Costs				$113.12
4.	Fixed Costs:				
	Tractor (3)	hr.	.72	.10	$ .07
	Irrigation	ac.	25.50	1.0	25.50
	Land (Net Rent) 1/	ac.	19.60	1.0	19.60
	Total Fixed Costs				$ 45.17
5.	Total Costs				$ 92.05
6.	Net Returns				$ 67.95

1/ $40/acre less 80% of irrigation fixed costs

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ALFALFA, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre Of Alfalfa, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Fertilize	3	Mar	1	.13	.10		
TOTAL				.13	.10		
Irrigation:	(2)	Mar-Sept	8	4.17		$15.64	$25.50

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

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ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Alfalfa Establishment, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Seed	lb.	$ .50	15	$ 7.50
Fertilizer (20-80-0)	ac.	7.10	1	7.10
Machinery	ac.	.67	1.0	.67
Tractor (1)	hr.	1.63	.33	.54
Tractor (2)	hr.	1.41	1.16	1.64
Tractor (3)	hr.	.72	.13	.09
Labor, Tractor & Machinery	hr.	2.00	2.0	4.00
Labor, Irrigation	hr.	1.75	1.72	3.01
Irrigation Machinery	ac.	7.08	1.0	7.08
Pickup, Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	$	.085	14.77	1.56
Total Variable Costs				$ 38.19
3. Fixed Costs:				
Machinery	ac.	2.19	1.0	$ 2.19
Tractor (1)	hr.	1.98	.33	.65
Tractor (2)	hr.	1.46	1.16	1.69
Tractor (3)	hr.	.79	.13	.10
Irrigation	ac.	11.55	1.0	11.55
Land (Net Rent) 1/	ac.	10.76	1.0	10.76
Total Fixed Costs				$ 26.94
4. Total Establishment Costs				$ 65.13
5. Annual Establishment Costs (5 year life)				$ 13.02

1/ $20/acre (1/2 annual rental) less 80% of irrigation fixed costs

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ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre Of Alfalfa, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow, Bust	1,6,21	July	1	.41	.33	$ .18	$ .36
Tandem Disc	2,12	Aug	2	.50	.40	.22	.44
Float	2,8	Aug	2	.63	.50	.18	1.06
Border	2,9	Aug	1	.13	.10	.01	.02
Fertilize	3	Aug	1	.13	.10		
Plant	2,14	Aug	1	.20	.16	.08	.31
TOTALS				2.00	1.59	$ .67	$ 2.19
Irrigation:		Aug-Sept Nov	3	1.72		$ 7.08	$11.55

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery costs per hour estimated at 1.1 times the cost for high level manager due to decreased efficiency and increased repair costs.

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ALFALFA, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Alfalfa, Typical Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production:	ton	$ 20.00	6	$120.00
2.	Variable Costs:				
	Establishment	ac.	13.02	1	$ 13.02
	Fertilizer (0-60-0)	ac.	4.80	1.0	4.80
	Tractor (3)	hr.	.72	.10	.07
	Labor, Tractor & Machinery	hr.	2.00	.13	.26
	Labor, Irrigation	hr.	1.75	3.19	5.58
	Irrigation Machinery	ac.	13.16	1.0	13.16
	Pickup, Miscellaneous	ac.	5.00	1.0	5.00
	Interest on Op. Cap.	$	.085	20.94	1.78
	Total Variable Costs				$ 43.67
3.	Income Above Variable Costs				$ 76.33
4.	Fixed Costs:				
	Tractor (3)	hr.	.79	.10	$ .08
	Irrigation	ac.	21.45	1.0	21.45
	Land (Net rent) 1/	ac.	22.84	1.0	22.84
	Total Fixed Costs				$ 44.37
5.	Total Costs				$ 88.04
6.	Net Returns				$ 31.96

1/ $40/acre less 80% of irrigation fixed costs

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AFCO 6

ALFALFA, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre Of Alfalfa, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Fertilize	3	Mar	1	.13	.10		
TOTAL				.13	.10		
Irrigation:	(2)	Mar-Sept	6	3.19		$13.16	$21.45

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery cost per hour estimated at 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

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CORN FOR GRAIN, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Corn For Grain, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Grain	bu.	$ 1.15	140.0	$161.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.30	25.0	$ 7.50
Fertilizer (180-60-0)	ac.	11.10	1.0	11.10
Herbicide (custom)	ac.	6.75	1.0	6.75
Machinery	ac.	1.55	1.0	1.55
Tractor (1)	hr.	1.48	1.02	1.51
Tractor (2)	hr.	1.28	1.32	1.69
Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
Labor, Irrigation	hr.	1.75	2.70	3.50
Irrigation Machinery	ac.	10.12	1.0	10.12
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Crop Insurance	$100	9.45	.80	7.56
Iterest on Op. Cap.	$	.085	31.06	2.64
Subtotal, Pre-Harvest				$ 64.76
Harvest:				
Custom, includes haul	bu.	.20	140.0	$ 28.00
Total Variable Costs				$ 92.76
3. Income Above Variable Costs				$ 68.24
4. Fixed Costs:				
Machinery	ac.	3.35	1.0	$ 3.35
Tractor (1)	hr.	1.80	1.02	1.84
Tractor (2)	hr.	1.33	1.32	1.76
Irrigation	ac.	16.50	1.0	16.50
Land (Net Rent) 1/	ac.	21.80	1.0	21.80
Total Fixed Costs				$ 45.25
5. Total Costs				$138.01
6. Net Returns				$ 22.99
7. Government Payments ($.32/bu. x 140 bu. x 50% allot.)				$ 22.40
8. Net Return Including Government Payment 2/				$ 45.39

1/ $35/acre less 80% of irrigation fixed costs

2/ Based on planted acres. No allowance made for set-aside acreage of 20%

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AECO 6

CORN FOR GRAIN, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre
Of Corn For Grain, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Nov	1	.20	.16	$ .21	$ .43
Tandem Disc	2,12	Nov	1	.25	.20	.10	.20
Chisel,Harrow	1,7,20	Dec	1	.31	.25	.09	.10
Offset Disc	1,13	Feb	1	.31	.25	.17	.36
Tandem Disc	2,12	Feb	1	.25	.20	.10	.20
Float	2,8	Mar	2	.63	.50	.16	.96
List & Fert	1,11	Mar	1	.25	.20	.26	.41
Rod Weeder	2,16	Apr	1	.16	.13	.01	.03
Plant & Incorp. Herbicide	1,11 23,10	Apr	1	.20	.16	.33	.49
Cultivate	2,4	May	1	.16	.13	.11	.15
Water Furrow	2,24	May	1	.20	.16	.01	.02
TOTALS				2.92	2.34	$ 1.55	$ 3.35
Irrigation:							
Preplant (2)		Mar	1	.74		$ 2.76	$ 4.50
Postplant (2)		June-Aug	4	1.96		7.36	12.00
TOTALS				2.70		$10.12	$16.50

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

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ARCO 6

CORN FOR GRAIN, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Corn For Grain, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	bu.	$ 1.15	110	$126.50
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.30	25	$ 7.50
Fertilizer (150-60-0)	ac.	10.05	1	10.05
Herbicide (Custom)	ac.	6.75	1	6.75
Machinery	ac.	1.71	1	1.71
Tractor (1)	hr.	1.63	1.02	1.66
Tractor (2)	hr.	1.41	1.32	1.86
Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
Labor, Irrigation	hr.	1.75	2.21	3.87
Irrigation Machinery	ac.	9.11	1	9.11
Pickup, Miscellaneous	ac.	5.00	1	5.00
Crop Insurance	$100	9.45	.6	5.67
Interest on Op. Capital	$	.085	29.51	2.51
Subtotal, Pre-Harvest				$ 61.53
Harvest:				
Custom includes haul	bu.	.20	110	$ 22.00
Total Variable Costs				$ 83.53
3. Income Above Variable Costs:				$ 42.97
4. Fixed Costs:				
Machinery	ac.	3.69	1	$ 3.69
Tractor (1)	hr.	1.98	1.02	2.02
Tractor (2)	hr.	1.46	1.32	1.93
Irrigation	ac.	14.85	1	14.85
Land (Net Rent) 1/	ac.	23.12	1	23.12
Total Fixed Costs				$ 45.61
5. Total Costs				$129.14
6. Net Returns				$ (2.64)
7. Government Payments ($.32/bu. x 110 bu. x 50% allot.)				$ 17.60
8. Net return including Government Payment				$ 14.96

1/ $35/acre less 80% of irrigation fixed costs

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CORN FOR GRAIN, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre
Of Corn For Grain, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Nov	1	.20	.16	$ .23	$ .47
Tandem Disc	2,12	Nov	1	.25	.20	.11	.22
Chisel,Harrow	1,7,20	Dec	1	.31	.25	.10	.11
Offset Disc	1,13	Feb	1	.31	.25	.19	.40
Tandem Disc	2,12	Feb	1	.25	.20	.11	.22
Float	2,8	Mar	2	.63	.50	.18	1.06
List & Fert	1,11	Mar	1	.25	.20	.29	.45
Rod Weeder	2,16	Apr	1	.16	.13	.01	.03
Plant & Incorp. Herb.	1,11 23,10	Apr	1	.20	.16	.36	.54
Cultivate	2,4	May	1	.16	.13	.12	.17
Water Furrow	2,24	May	1	.20	.16	.01	.02
TOTALS				2.92	2.34	$ 1.71	$ 3.69
Irrigation:							
Preplant (2)		Mar	1	.74		$ 3.04	$ 4.95
Postplant (2)		May-Aug	3	1.47		6.07	9.90
TOTALS				2.21		$ 9.11	$14.85

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery costs per hour estimated at 1.1 times the cost for high level manager due to decreased efficiency and increased repair costs.

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CORN FOR SILAGE, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Corn For Silage, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Silage, in field	ton	$ 5.50	27.0	$148.50
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.30	25.0	$ 7.50
Fertilizer (180-60-0)	ac.	11.10	1.0	11.10
Herbicide (custom)	ac.	6.75	1.0	6.75
Machinery	ac.	1.55	1.0	1.55
Tractor (1)	hr.	1.48	1.02	1.51
Tractor (2)	hr.	1.28	1.32	1.69
Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
Labor, Irrigation	hr.	1.75	2.70	3.50
Irrigation Machinery	ac.	10.12	1.0	10.12
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Crop Insurance	$100	9.45	.65	6.14
Interest on Op. Cap.	$	.085	31.06	2.64
Subtotal, Pre-Harvest				$ 63.34
3. Income Above Variable Costs				$ 85.16
4. Fixed Costs:				
Machinery	ac.	3.35	1.0	$ 3.35
Tractor (1)	hr.	1.80	1.02	1.84
Tractor (2)	hr.	1.33	1.32	1.76
Irrigation	ac.	16.50	1.0	16.50
Land (Net Rent) 1/	ac.	21.80	1.0	21.80
Total Fixed Costs				$ 45.25
5. Total Costs				$108.59
6. Net Returns				$ 39.91

1/ $35/acre less 80% of irrigation fixed costs

2/ Planted on acres outside government program

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CORN FOR SILAGE, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre
Of Corn For Silage, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Nov	1	.20	.16	$ .21	$ .43
Tandem Disc	2,12	Nov	1	.25	.20	.10	.20
Chisel,Harrow	1,7,20	Dec	1	.31	.25	.09	.10
Offset Disc	1,13	Feb	1	.31	.25	.17	.36
Tandem Disc	2,12	Feb	1	.25	.20	.10	.20
Float	2,8	Mar	2	.63	.50	.16	.96
List & Fert	1,11	Mar	1	.25	.20	.26	.41
Rod Weeder	2,16	Apr	1	.16	.13	.01	.03
Plant & Incorp. Herb.	1,11 23,10	Apr	1	.20	.16	.33	.49
Cultivate	2,4	May	1	.16	.13	.11	.15
Water Furrow	2,24	May	1	.20	.16	.01	.02
TOTALS				2.92	2.34	$ 1.55	$ 3.35
Irrigation:							
Preplant (2)		Mar	1	.74		$ 2.76	$ 4.50
Postplant (2)		Jun-Aug	4	1.96		7.36	12.00
TOTALS				2.70		$10.12	$16.50

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

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AECO 6

CORN FOR SILAGE, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Corn For Silage, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Silage, in field	ton	$ 5.50	20.0	$110.00
2. Variable Costs:				
Seed	lb.	.30	25.0	$ 7.50
Fertilizer (180-60-0)	ac.	11.10	1.0	11.10
Herbicide (custom)	ac.	6.75	1.0	6.75
Machinery	ac.	1.71	1.0	1.71
Tractor (1)	hr.	1.63	1.02	1.66
Tractor (2)	hr.	1.41	1.32	1.86
Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
Irrigation Machinery	ac.	9.11	1.0	9.11
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Crop Insurance	$100	9.45	.50	4.72
Interest on Op. Cap.	$	.085	27.20	2.51
Total Variable Costs				$ 61.63
3. Income Above Variable Costs				$ 48.37
4. Fixed Costs:				
Machinery	ac.	3.69	1.0	$ 3.69
Tractor (1)	hr.	1.98	1.02	2.02
Tractor (2)	hr.	1.46	1.32	1.93
Irrigation	ac.	14.85	1.0	14.85
Land (Net Rent) 1/	ac.	23.12	1.0	23.12
Total Fixed Costs				$ 45.61
5. Total Costs				$107.24
6. Net Returns 2/				$ 2.76

1/ $35/acre less 80% of irrigation fixed costs

2/ Planted on acres outside the government program

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CORN FOR SILAGE, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre
Of Corn For Silage, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Nov	1	.20	.16	$ .23	$ .47
Tandem Disc	2,12	Nov	1	.25	.20	.11	.22
Chisel, Harrow	1,7,20	Dec	1	.31	.25	.10	.11
Offset Disc	1,13	Feb	1	.31	.25	.19	.40
Tandem Disc	2,12	Feb	1	.25	.20	.11	.22
Float	2,8	Mar	2	.63	.50	.18	1.06
List & Fert	1,11	Mar	1	.25	.20	.29	.45
Rod Weeder	2,16	Apr	1	.16	.13	.01	.03
Plant & Incorp. Herb.	1,11 23,10	Apr	1	.20	.16	.36	.54
Cultivate	2,4	May	1	.16	.13	.12	.17
Water Furrow	2,24	May	1	.20	.16	.01	.02
TOTALS				2.92	2.34	$ 1.71	$ 3.69
Irrigation:							
Preplant (2)		Mar	1	.74		$ 3.04	$ 4.95
Postplant (2)		May-Aug	3	1.47		6.07	9.90
TOTALS				2.21		$ 9.11	$14.85

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery costs per hour estimated at 1.1 times the cost for high level manager due to decreased efficiency and increased repair costs.

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COTTON, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Cotton, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Lint	lb.	$ .20	600.0	$120.00
Seed	ton	60.00	.47	28.20
Total				$148.20
2. Variable Costs:				
Pre-Harvest:				
Seed 1/	lb.	.15	38.0	$ 5.70
Fertilizer (60-40-0)	ac.	5.30	1	5.30
Herbicide	pt.	3.13	1.5	4.70
Insecticide (custom applied)	ac.	2.25	1.0	2.25
Machinery	ac.	1.65	1.0	1.65
Tractor (1)	hr.	1.48	1.02	1.51
Tractor (2)	hr.	1.28	1.32	1.69
Tractor (3)	hr.	.65	.03	.02
Irrigation Machinery	ac.	8.28	1.0	8.28
Labor, Tractor & Machinery	hr.	2.00	2.96	5.92
Labor, Irrigation	hr.	1.75	2.21	3.87
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Hail Insurance	$100	13.00	.75	9.75
Interest on Op. Cap.	$	.085	27.82	2.37
Subtotal, Pre-Harvest				$ 58.01
Harvest Costs:				
Strip & Haul	cwt.	.50	26.0	$ 13.00
Ginning	bale	21.50	1.2	25.80
Subtotal, Harvest				$ 38.80
Total Variable Costs				$ 96.81
3. Income Above Variable Costs				$ 51.39
4. Fixed Costs:				
Machinery	ac.	3.48	1.0	$ 3.48
Tractor (1)	hr.	1.80	1.02	1.84
Tractor (2)	hr.	1.33	1.32	1.76
Tractor (3)	hr.	.72	.03	.02
Irrigation	ac.	13.50	1.0	13.50
Land (Net Rent)	ac.	24.20	1.0	24.20
Total Fixed Costs				$ 44.80
5. Total Costs				$141.61
6. Net Returns				$ 6.59
7. Government Payment ($.15 x 600 lb lint/A)				$ 90.00
8. Net Returns Including Government Payment				$ 96.59

1/ Assumes cotton planted 1.25 times

2/ $35/acre less 80% of irrigation fixed costs

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AECO 6

COTTON, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre Of Cotton, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Dec	1	.20	.16	$ .21	$ .43
Chisel	1,7	Dec	1	.25	.20	.09	.10
Offset Disc	1,13	Feb	1	.31	.25	.17	.36
Float	2,8	Mar	2	.63	.50	.16	.96
Apply & Incorp. herb.	2,12,23	Mar	1	.50	.40	.25	.46
List & Fert	1,11	Mar	1	.25	.20	.26	.41
Cultivate	2,4	May	1	.16	.13	.11	.15
Plant	1,11	May	1.25	.26	.21	.27	.43
Sandfight	3,17	June	1	.04	.03	.01	.01
Cultivate	2,4	June	1	.16	.13	.11	.15
Water Furrow	2,24	July	1	.20	.16	.01	.02
TOTALS				2.96	2.37	$ 1.65	$ 3.48
Irrigation:							
Preplant (2)		Apr	1	.74		$ 2.76	$ 4.50
Postplant (2)		Jul-Aug	3	1.47		$ 5.52	$ 9.00

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

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COTTON, IRRIGATED, HIGH PLAINS II

Estimated Costs And Returns Per Acre Of Cotton, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Lint	lb.	$ .20	500.0	$100.00
Seed	ton	60.00	.4	24.00
Total				$124.00
2. Variable Costs:				
Pre-Harvest:				
Seed 1/	lb.	.15	38.0	$ 5.70
Fertilizer (60-40-0)	ac.	5.30	1	5.30
Herbicide	pt.	3.13	1.5	4.70
Insecticide (custom applied)	ac.	2.25	1.0	2.25
Machinery	ac.	1.83	1.0	1.83
Tractor (1)	hr.	1.63	1.02	1.66
Tractor (2)	hr.	1.41	1.32	1.86
Tractor (3)	hr.	.72	.03	.02
Irrigation Machinery	ac.	7.09	1.0	7.09
Labor, Tractor & Machinery	hr.	2.00	2.96	5.92
Labor, Irrigation	hr.	1.75	1.72	3.01
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Hail Insurance	$100	13.00	50.0	6.50
Interest on Op. Cap.	$	.085	25.42	2.16
Subtotal, Pre-Harvest				$ 53.00
Harvest Costs:				
Strip & haul	cwt.	.50	22.0	$ 11.00
Ginning	bale	21.50	1.0	21.50
Subtotal, Harvest				$ 32.50
Total Variable Costs				$ 85.50
3. Income Above Variable Costs				$ 38.50
4. Fixed Costs:				
Machinery	ac.	3.83	1.0	$ 3.83
Tractor (1)	hr.	1.98	1.02	2.02
Tractor (2)	hr.	1.46	1.32	1.93
Tractor (3)	hr.	.79	.03	.02
Irrigation	ac.	11.55	1.0	11.55
Land (Net Rent) 2/	ac.	25.76	1.0	25.76
Total Fixed Costs				$ 45.11
5. Total Costs				$130.61
6. Net Returns				$ (6.61)
7. Government Payment (500#/A x .115/lb.)				$ 75.00
8. Net Returns Including Government Payment				$ 68.39

1/ Assumes cotton planted 1.25 times

2/ $35/acre less 80% of irrigation fixed costs

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COTTON, IRRIGATED, HIGH PLAINS II

Estimated Costs, And Requirements Per Acre Of Cotton, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Dec	1	.20	.16	$ .23	$ .47
Chisel	1,7	Dec	1	.25	.20	.10	.11
Offset Disc	1,13	Feb	1	.31	.25	.19	.40
Float	2,8	Mar	2	.63	.50	.28	.51
Apply & Incorp. Herb.	2,12,23	Mar	1	.50	.40	.18	1.06
List & Fert	1,11	Mar	1	.25	.20	.29	.45
Cultivate	2,4	May	1	.16	.13	.12	.16
Plant	1,11	May	1.25	.26	.21	.30	.47
Sandfight	3,17	June	1	.04	.03	.01	.01
Cultivate	2,4	June	1	.16	.13	.12	.17
Water Furrow	2,24	July	1	.20	.16	.01	.02
TOTALS				2.96	2.37	$ 1.83	$ 3.83
Irrigation:							
Preplant (2)		Apr	1	.74		$ 3.04	$ 4.95
Postplant (2)		June-Aug	2	.98		$ 4.05	$ 6.60
TOTALS				1.72		$ 7.09	$11.55

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, Furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery cost per hour estimated at 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

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