



16000300

EDWARDS AQUIFER

FOREWORD

The data contained in this report are based on estimates and actual records of operations within an area described as the Edwards Aquifer. This area is composed primarily of Medina and Uvalde counties but includes parts of Bexar, Comal, Hayes and Kinney counties. Even in a region so narrowly defined, variation in inputs and returns exists among farms and managers. However, these budgets should serve as useful guides in planning and decision making for agriculturists concerned with the area described above.

The enterprise budgets for this region are based on yields as shown on 16000600. The assumptions used in the development of these budgets include the following things. Management levels are reflected to a major degree by the machinery used. Generally, the typical operator will farm less acreage (approximately 400 acres) and will utilize one tractor in the 90-horsepower class and one in the 60-horsepower class. He generally will use 4-row equipment and have his crops custom harvested. This definition separates him from the high level manager who will farm approximately 900 acres

and will use one tractor in the 115-horsepower class. He will utilize 6-row equipment to a larger degree and will own the harvesting equipment for some crops. The budgets developed for each management level reflect this distinction. Other factors mentioned as distinctions in management levels include the following items: timeliness in land preparation and harvest, availability of financial resources and more current knowledge of production technology and market prices.

Irrigation well and pumping depth varied over the area, with the well depth ranging from under 700 feet to over 1,800 feet. The typical well depth is 1,400 feet with a pumping depth of 250 feet. While engines for irrigation pumping are operated on natural gas, electricity and butane, the largest percentage is operated on diesel. Therefore, irrigation costs for these budgets were based on diesel engines.

No typical crop share arrangement could be identified in this region; therefore, the cash rent basis of allocating a land charge was utilized throughout the budgets.

EDWARDS AQUIFER

Assumed Prices Paid and Received by Farmers

Item	Unit	Price
Insecticides:		
Methyl Parathion	gal.	\$ 3.75
Ethyl Parathion	gal.	3.75
Methyl-Toxaphene Dust	cwt.	13.57
Malathion	gal.	6.75
Phosdrin	gal.	19.50
Lannate	lb.	9.00
Bacillus Thuringiensis	gal.	18.30
Cygon	gal.	15.88
Sevin 80W	lb.	.96
Fungicides:		
Maneb	lb.	.81
Zineb	lb.	.90
Defoliant:		
Def	gal.	10.75
Paraquat	gal.	29.95
Fuel and Lubricants:		
Diesel Fuel	gal.	.158
Gasoline	gal.	.277
Motor Oil	qt.	.38
Grease	10, 14 oz. cartridges	3.68
Labor:		
Tractor Labor	hour	1.65
Labor (hand and irrigation)	hour	1.30
Capital	\$	.08
Land Lease:		
Irrigation	acre	25.00
Dryland	acre	15.00
Peanut Allotment:		
Irrigated	acre	20.00
Dryland	acre	8.00
Prices Received:		
Coastal Pasture	animal unit month	5.50
Corn Silage	ton in field	6.00
Sudan X Hay	ton	28.00
Oat Pasture	animal unit month	6.00
Coastal Hay	ton	25.00
Cotton (lint)	lb.	.30
Cotton seed	ton	58.00
Peanuts	lb.	.14
Carrots	50# sack	2.10
Cabbage	50# sack	1.81
Corn	bu.	1.30
Grain Sorghum	cwt.	2.00
Wheat	bu.	1.39

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

EDWARDS AQUIFER

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
<u>Prices Paid 1/</u>		
Seed:		
Cotton (delinted)	lb.	\$.15
Grain Sorghum	lb.	.24
Corn	lb.	.36
Sudan X	lb.	.16
Oats	bu.	1.75
Wheat	cwt.	5.00
Carrot	lb.	2.60
Cabbage	lb.	25.00
Peanut	lb.	.33
Custom Rates:		
Coastal Sprigs and Sprigging	acre	30.00
Mow, Rake and Bale Hay	bale	.35
Haul Hay	bale	.15
Aerial Applications		
Insecticide	acre	1.25
Defoliant	acre	1.50
Fungicide	acre	1.50
Pick and Haul Cotton	bale	25.00
Gin Cotton	bale	21.00
Digging and Shaking Peanuts	acre	6.00
Combine Peanuts	lb.	.01
Haul Peanuts	ton	4.00
Dry Peanuts	ton	8.00
Harvest Carrots	50# sack	.50
Packing Carrots	50# sack	1.10
Market Carrots	50# sack	.10
Harvest Cabbage	50# sack	.25
Packing Cabbage	50# sack	.65
Market Cabbage	50# sack	.18
Haul Corn and Grain Sorghum	cwt.	.10
Combine Corn	acre	5.00
plus	bu.	.05
Combine Grain Sorghum	cwt.	.15
Haul Small Grains	cwt.	.10
Fertilizer:		
Nitrogen	lb.	.09
Phosphorus	lb.	.10
Potash	lb.	.05
Herbicide:		
Treflan	qt.	6.00
AAtrex	lb.	2.45
Propazine	lb.	2.45
Loxex	lb.	3.00
Dacthal	lb.	1.25
Vegedex	gal.	13.10
TOK	lb.	2.05
Prefar	gal.	11.22

Estimated Machinery and Equipment Cost Per Hour of Use

Machinery Item and Size	Item no.	New Cost	Estimated Typical Years of Use	Total Depreciation ^{1/}	Estimated Total Hours of Use	Depreciation Per Hour ^{2/}	Interest on Investment Per Hour ^{3/}	Fuel, Oil, Lub., Rep., Per Hour ^{4/}
Grain Drill, 12'	(18)	\$ 1,100	15	\$ 1,000	800	\$1.25	.90	.93
Bed Shaper, 6 row	(19)	575	10	550	600	.92	.40	.28
Land Plane, 45'x12'	(20)	2,400	20	2,100	1,800	1.17	1.20	.60
Herbicide Sprayer 4 row	(21)	750	8	750	1,000	.75	.24	.65
Herbicide Sprayer 6 row	(22)	1,100	8	1,100	1,000	1.10	.35	.87
V-type Ditcher	(23)	250	15	250	2,500	.10	.06	.06
Scraper Blade	(24)	350	15	350	2,500	.14	.08	.09
Combine, 18' Header	(25)	19,000	6	12,500	1,500	8.33	4.08	4.32
Corn Header, 4 row	(26)	5,000	6	3,500	480	7.00	3.25	<u>6/</u>
Pickup Truck	(27)	3,600	3	2,400	90,000 miles	1.50/acre per year	.48/acre per year	1.75/acre per year
Irrigation System	(28)							
Well - 12" diameter 1400' deep, 1800 GPM Pump & Drive		20,000	40	20,000	80,000	.25	.40	.03
300' lift capacity		6,500	10	6,000	20,000	.30	.14	.20
Engine, 200+hp Diesel		8,000	15	7,000	30,000	.23	.18	1.66
Aluminum Pipe		6,000	15	6,000	30,000	.20	.11	.05

^{1/} New cost less value at time of trade, or less salvage value.

^{2/} Assumed straight line depreciation.

^{3/} $(\text{Investment} + \text{Salvage}) \div 2 \times .08 \div \text{annual hours of use}$

^{4/} Fuel, Oil, Lubrication, Repair cost estimate taken from 1971 Agricultural Engineer's Handbook and Bower's, and Modern Concepts of Farm Machinery Management, 1968.

^{5/} 2 rows per bed

^{6/} Cost of F.O.L.R. for Cornheader is included in Combine.

EDWARDS AQUIFER

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Estimated Machinery And Equipment Cost Per Hour Of Use

Machinery Item and Size	Item no.	New Cost	Estimated Typical Years of Use	Total Depreciation ^{1/}	Estimated Total Hours of Use	Depreciation Per Hour ^{2/}	Interest on Investment Per Hour ^{3/}	Fuel, Oil, Lub., Rep., Per Hour ^{4/}
Tractor 115 HP Diesel	(1)	\$12,000	5	\$6,500	7,000	\$.93	\$.50	\$1.96
Tractor 90 HP Diesel	(2)	9,000	6	5,500	5,500	1.00	.55	1.34
Tractor 60 HP Diesel	(3)	6,000	8	4,000	4,800	.83	.53	.89
Shredder, 4 row	(4)	1,900	10	1,600	1,200	1.33	.73	.97
Chisel Plow - V type 7 shank	(5)	850	8	700	1,400	.50	.23	.42
Moldboard Plow 4-16"	(6)	2,000	8	1,600	1,800	.89	.43	.98
Offset Disc 13'	(7)	2,200	8	1,800	2,000	.90	.42	.93
Offset Disc 10'	(8)	2,000	8	1,700	1,600	1.06	.46	1.06
Bedder 6 row	(9)	1,500	10	1,300	2,000	.65	.34	.74
Bedder 4 row	(10)	1,000	10	850	1,400	.61	.33	.55
Rolling Cultivator 4 row	(11)	1,250	10	850	1,800	.47	.37	.62
Rolling Cultivator 6 row	(12)	2,000	10	1,600	2,500	.64	.38	.82
Toolbar Cultivator 4 row	(13)	1,100	10	900	1,600	.56	.33	.55
Toolbar Cultivator 6 row	(14)	1,800	10	1,500	1,500	1.00	.56	.88
Planter, 4 row	(15)	800	15	800	1,250	.64	.38	.68
Planter, 6 row	(16)	1,100	15	1,100	1,250	.88	.53	.93
Vegetable Planter 8 row ^{5/}	(17)	1,000	15	1,000	800	1.25	.75	.85

New, 1972

EDWARDS AQUIFERYield Per Acre For Typical And High Level Management

Crop	Unit	<u>Irrigated</u>		<u>Dryland</u>	
		Typical	High Level	Typical	High Level
Grain Sorghum	lbs.	4500	5500	2000	3500
Corn	bu.	80	100	40	-
Cotton	lbs.	600	800	-	-
Peanuts	lbs.	2800	3300	1155	1485
Cabbage	50# sacks	-	650	-	-
Carrots	50# sacks	250	400	-	-
Sudan X Hay	tons	9	-	3.5	-
Coastal Hay	tons	8	-	-	-
Corn Silage	tons	-	17	-	-
Coastal Pasture	animal unit months	12	-	3.5	-
Mexican Wheat	bu.	-	-	30	45
Oat Pasture	animal unit months	7.5	-	3.5	-
Coastal Establishment	-	*	-	*	-

* Used in other budgets as input

CABBAGE, IRRIGATED, EDWARDS AQUIFER

Estimated Cost and Returns Per Acre of Cabbage, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Cabbage	50 lb bag	\$ 1.81 ^{1/}	650	\$1,176.50
2. Variable Costs:				
Preharvest				
Seed	1b	25.00	1.5	37.50
Fertilizer (200-80-0)	acre	26.00	1	26.00
Herbicide	acre	18.00	1	18.00
Insecticide	acre	60.00	1	60.00
Insecticide application	acre	1.25	15	18.75
Fungicide	acre	6.80	1	6.80
Fungicide application	acre	1.50	4	6.00
Machinery	acre	2.96	1	2.96
Tractor (1)	hour	1.96	1.12	2.20
Tractor (2)	hour	1.34	2.09	2.80
Tractor (3)	hour	.89	1.95	1.74
Tractor labor	hour	1.65	6.46	10.66
Irrigation equipment	acre	19.40	1	19.40
Irrigation labor	hour	1.30	7.5	9.75
Hand labor	hour	1.30	20	26.00
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	125.16	20.02
Subtotal, Preharvest				\$ 270.33
Harvest				
Harvesting	sack	.25	650	\$ 162.50
Packing	sack	.65	650	422.50
Selling	sack	.18	650	117.00
Subtotal, Harvest				\$ 702.00
Total Variable Cost				\$ 972.33
3. Income Above Variable Cost				\$ 204.17
4. Fixed Costs				
Machinery	acre	5.08	1	\$ 5.08
Tractor (1)	hour	1.43	1.12	1.60
Tractor (2)	hour	1.55	2.09	3.24
Tractor (3)	hour	1.36	1.95	2.65
Irrigation equipment	acre	18.10	1	18.10
Land (cash rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Cost				\$ 57.65
5. Total Costs				\$1,029.98
6. Net Returns				\$ 146.52

1961-70 Season Weighted Average Price, Texas Vegetable Statistics, Texas Crop and Livestock Reporting Service

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CABBAGE, IRRIGATED, EDWARDS AQUIFER

Estimated Costs, and Requirements Per Acre of Cabbage, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	3&4	Jun-Aug	1	.25	.20	\$.19	\$.41
Disc	2&7	Jun-Aug	1	.25	.20	.19	.26
Moldboard Plow	1&6	Jun-Aug	.5	.31	.25	.25	.33
Chisel Plow	1&5	Jun-Aug	.5	.31	.25	.11	.18
Disc	2&7	Jun-Aug	1	.25	.20	.19	.26
Disc & Spray Herbicide	1&7&22	Jun-Aug	1	.28	.22	.40	.61
Disc	2&7	Jun-Aug	1	.25	.20	.19	.26
Float	1&20	Jun-Aug	1	.25	.20	.12	.47
Bed	2&9	Jun-Aug	1	.21	.17	.13	.17
Fertilize	2	Jun-Aug	1	.25	.20	-	-
Rebed	2&9	Jun-Aug	1	.21	.17	.13	.17
Plant	2&17	Aug-Nov	1	.31	.25	.21	.50
Spray Herbicide	2&22	Aug-Dec	1	.25	.20	.17	.29
Rolling Cultivate	1&12	Aug-Dec	1	.25	.20	.16	.20
Cultivate	2&14	Aug-Mar	2	.63	.50	.44	.78
Side Dress Fertilize	3	Aug-Mar	3	.94	.75	-	-
Make Ditches	3&23	Aug-Apr	5	.63	.50	.03	.08
Level Ditches	3&24	Aug-Apr	5	<u>.63</u>	<u>.50</u>	<u>.05</u>	<u>.11</u>
Total				6.46	5.16	\$ 2.96	\$ 5.08
Irrigate	28	Aug-Apr	5	7.50*	10.00	\$19.40	\$18.10
Hand Labor	-	-	-	20.0	-	-	-

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

* Labor hours = .75 times machine hours.

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CARROTS, IRRIGATED, EDWARDS AQUIFER

Estimated Cost And Returns Per Acre Of Carrots, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Carrots	50# bag	\$ 2.10	400	\$840.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb	2.60	2	\$ 5.20
Fertilizer (80-70-0)	acre	14.30	1	14.30
Herbicide	acre	18.00	1	18.00
Insecticide	acre	8.00	1	8.00
Insecticide application	acre	1.25	4	5.00
Fungicide	acre	9.00	1	9.00
Fungicide application	acre	1.50	6	9.00
Machinery	acre	2.64	1	2.64
Tractor (1)	hour	1.96	1.24	2.43
Tractor (2)	hour	1.34	1.79	2.40
Tractor (3)	hour	.89	.80	.71
Tractor labor	hour	1.65	4.78	7.89
Irrigation equipment	acre	15.52	1	15.52
Irrigation labor	hour	1.30	6	7.80
Hand labor	hour	1.30	5	6.50
Pickup truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	58.07	4.65
Sub-Total, Pre-Harvest				\$120.79
Harvest:				
Harvesting	bag	.50	400	\$200.00
Packing	bag	1.10	400	440.00
Selling	bag	.10	400	40.00
Sub-Total, Harvest				\$680.00
Total Variable Costs				\$800.79
3. Income Above Variable Costs				\$ 39.21
4. Fixed Costs:				
Machinery	acre	4.46	1	\$ 4.46
Tractor (1)	hour	1.43	1.24	1.77
Tractor (2)	hour	1.55	1.79	2.77
Tractor (3)	hour	1.36	.80	1.09
Irrigation equipment	acre	14.48	1	14.48
Land rent	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 51.55
5. Total Costs				\$852.34
6. Net Returns				(\$12.34)

1/ 1961-70 Season Weighted Average Price, Texas Vegetable Statistics, Texas Crop and Livestock Reporting Service. New, 1972

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CARROTS, IRRIGATED, EDWARDS AQUIFER

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

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Disc	1&7	Jun-Sep	1	.25	.20	\$.19	\$.26
Chisel Plow	1&5	Jun-Sep	.5	.21	.17	.07	.12
Moldboard Plow	1&6	Jun-Sep	.5	.31	.25	.25	.33
Disc	1&7	Jun-Sep	1	.25	.20	.19	.26
Disc & Spray Herbicide	1&7 &22	Jun-Sep	1	.28	.22	.42	.61
Disc	1&7	Jun-Sep	1	.25	.20	.19	.26
Bed	2&9	Jun-Sep	1	.21	.17	.09	.16
Fertilize	2	Jun-Sep	1	.21	.17	-	-
Rolling Cultivate	2&12	Jun-Sep	1	.13	.10	.08	.10
Shape Beds	2&19	Jun-Sep	1	.21	.17	.05	.22
Plant	2&17	Jul-Oct	1.3	.41	.33	.28	.66
Spray Herbicide	2&22	Aug-Nov	1	.21	.17	.16	.26
Cultivate	2&14	Aug-Feb	4	.85	.68	.60	1.06
Make Ditches	3&23	Jul-Apr	4	.50	.40	.03	.07
Level Ditches	3&24	Jul-Apr	4	.50	.40	.04	.09
Total				4.78	3.83	\$2.64	\$4.46
Irrigate	28		4	6.00*	8.00	\$15.52	\$14.48
Hand Labor	-		-	5.00	-	-	-

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

* Labor hours calculated at .75 times machine hours.

CARROTS, IRRIGATED, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre Of Carrots, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Carrots	50 lb bag	\$ 2.10 <u>1/</u>	250	\$ 525.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	2.60	2	\$ 5.20
Fertilizer (60-40-0)	acre	9.40	1	9.40
Herbicide	acre	9.00	1	9.00
Insecticide	acre	6.00	1	6.00
Insecticide application	acre	1.25	3	3.75
Fungicide	acre	7.50	1	7.50
Fungicide application	acre	1.50	5	7.50
Machinery	acre	1.93	1	1.93
Tractor (2)	hour	1.34	2.20	2.95
Tractor (3)	hour	.89	1.31	1.17
Tractor labor	hour	1.65	4.38	7.23
Irrigation equipment	acre	15.52	1	15.52
Irrigation labor	hour	1.30	6	7.80
Hand labor	hour	1.30	5	6.50
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	46.60	<u>3.72</u>
Sub-total, Pre-harvest				\$ 96.92
Harvest:				
Harvesting	bag	.50	250	\$ 125.00
Packing	bag	1.10	250	275.00
Selling	bag	.10	250	<u>25.00</u>
Sub-total, Harvest				\$ 425.00
Total Variable Cost				\$ 521.92
3. Income Above Variable Cost				\$ 3.08
4. Fixed Cost:				
Machinery	acre	3.28	1	\$ 3.28
Tractor (2)	hour	1.55	2.20	3.41
Tractor (3)	hour	1.36	1.31	1.72
Irrigation equipment	acre	14.48	1	14.48
Land rent	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	<u>1.98</u>
Total Fixed Costs:				\$ 49.87
5. Total Costs				\$ 571.79
6. Net Returns				(\$ 46.79)

1961-70 Season Average Price, Texas Vegetable Statistics, Texas Crop and Livestock Reporting Service

New, 1972

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CARROTS, IRRIGATED, EDWARDS AQUIFER

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

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Disc	2&8	June-Sep	1	.25	.20	.21	.30
Chisel Plow	2&5	June-Sep	.5	.21	.17	.07	.12
Moldboard Plow	2&6	June-Sep	.5	.31	.25	.25	.33
Disc	2&8	June-Sep	2	.50	.40	.41	.60
Bed	2&10	June-Sep	1	.25	.20	.11	.19
Fertilize	3	June-Sep	1	.21	.17	-	-
Rolling Cultivate	2&11	June-Sep	1	.21	.17	.11	.14
Shape Beds	3&19	June-Sep	1	.21	.17	.05	.22
Plant	2&17	July-Oct	1.2	.38	.30	.26	.60
Spray Herbicide	3&21	Aug-Nov	1	.21	.17	.11	.17
Cultivate	2&13	Aug-Feb	3	.64	.51	.28	.45
Make Ditches	3&23	July-Apr	4	.50	.40	.03	.07
Level Ditches	3&24	July-Apr	4	<u>.50</u>	<u>.40</u>	<u>.04</u>	<u>.09</u>
Total				4.38	3.51	1.93	3.28
Irrigate	28	-	4	6.00*	8.00	15.52	14.48
Hand Labor	-	-	-	5.00	-	-	-

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

* Labor hours = .75 times machine hours.

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AFCO 6

COASTAL BERMUDA HAY, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Coastal Bermuda Hay, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Coastal Bermuda Hay	ton	\$ 25.00	8	\$200.00
2. Variable Costs:				
Pre-Harvest:				
Fertilizer (300-60-0)	acre	33.00	1	33.00
Tractor (3)	hour	.89	.52	.46
Tractor labor	hour	1.65	.65	1.07
Irrigation equipment	acre	15.52	1	15.52
Irrigation labor	hour	1.30	6	7.80
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	29.80	2.38
Subtotal Pre-Harvest				\$61.98
Harvest:				
Custom cut, rake and bale	bale	.30	265	\$ 79.50
Custom haul	bale	.15	265	39.75
Subtotal, Harvest				\$119.25
Total Variable Costs				\$181.23
3. Income Above Variable Costs				\$ 18.77
4. Fixed Costs:				
Tractor (3)	hour	1.36	.65	\$.88
Irrigation equipment	acre	14.48	1	14.48
Establishment (\$103.35/10 yrs)	acre	10.34	1	10.34
Land (cash rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 52.68
5. Total Costs				\$233.91
6. Net Returns				(\$ 33.91)

COASTAL BERMUDA HAY, IRRIGATED, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre Of Coastal Bermuda Hay, 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	Feb-Sep	4	<u>.65</u>	<u>.52</u>	-	-
Total				.65	.52	-	-
Irrigate	28	Jan-Dec	4	6.00*	8.00	\$15.52	\$14.48

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

* Labor hours = .75 times machine hours.

COASTAL BERMUDA (ESTABLISHMENT), IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Establishing Coastal Bermuda, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Coastal Bermuda Hay	ton	\$ 25.00	3	\$ 75.00
2. Variable Costs:				
Pre-Harvest:				
Custom Sprigging	acre	30.00	1	30.00
Fertilizer (100-60-0)	acre	15.00	1	15.00
Herbicide	acre	5.00	1	5.00
Machinery	acre	1.46	1	1.46
Tractor (2)	hour	1.34	1.67	2.24
Tractor (3)	hour	.89	.30	.27
Tractor labor	hour	1.65	2.47	4.08
Irrigation equipment	acre	15.52	1	15.52
Irrigation labor	hour	1.30	6	7.80
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	41.56	3.32
Subtotal, Pre-Harvest				\$ 86.44
Harvest:				
Custom cut, rake, bale	bale	.30	100	\$ 30.00
Custom haul	bale	.15	100	15.00
Subtotal, Harvest				\$ 45.00
Total Variable Cost				\$131.44
3. Income Above Variable Cost				(\$ 56.44)
4. Fixed Costs:				
Machinery	acre	2.45	1	\$ 2.45
Tractor (2)	hour	1.55	1.67	2.59
Tractor (3)	hour	1.36	.30	.41
Irrigation	acre	14.48	1	14.48
Land (Cash Rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 46.91
5. Total Costs				\$178.35
6. Establishment Cost (Negative Net Returns Year of Establishment)				(\$103.35)

COASTAL BERMUDA (ESTABLISHMENT), IRRIGATED, EDWARDS AQUIFEREstimated Costs And Requirements Per Acre Of Establishing Coastal Bermuda, 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
Moldboard Plow	2&6	Aug-Jan	1	.50	.40	\$.39	\$.53
Disc	2&8	Aug-Jan	2	.63	.50	.53	.76
Disc	2&8	Feb-Mar	1	.31	.25	.27	.38
Plane	2&20	Mar	1	.31	.25	.15	.59
Make Borders	2&24	Mar	1	.13	.10	.01	.02
Sprig		Mar-Apr		Custom @ 30.00 per acre including sprigs			
Spray Herbicide	2&21	May	1	.21	.17	.11	.17
Fertilize	3	May-Sep	2	<u>.38</u>	<u>.30</u>	<u>-</u>	<u>-</u>
Totals				2.47	1.97	\$ 1.46	\$ 2.45
Irrigate	28	Mar-Sep	4	6.00*	8.00	\$ 15.52	\$ 14.48

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

* Labor hours = .75 times machine hours.

COASTAL BERMUDA (ESTABLISHMENT), DRYLAND, EDWARDS AQUIFEREstimated Costs And Returns Of Establishing Coastal Bermuda, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production				
No yield in year of establishment	-	-	-	-
2. Variable Costs:				
Pre-Harvest:				
Custom Sprigging	acre	\$30.00	1	\$30.00
Fertilizer (50-30-0)	acre	7.50	1	7.50
Herbicide	acre	5.00	1	5.00
Machinery	acre	1.03	1	1.03
Tractor (2)	hour	1.34	1.07	1.43
Tractor (3)	hour	.89	.15	.13
Tractor labor	hour	1.65	1.53	2.52
Pickup truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	24.68	1.97
Total Pre-Harvest				\$51.33
Harvest:				
None				-
Total Variable Cost				\$51.33
3. Income Above Variable Costs				(\$51.33)
4. Fixed Costs:				
Machinery	acre	1.46	1	\$ 1.46
Tractor (2)	hour	1.55	1.07	1.66
Tractor (3)	hour	1.36	.15	.20
Land (cash rent)	acre	15.00	1	15.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$20.30
5. Total Costs				\$71.63
6. Establishment Cost (Negative Net Returns, Year of Establishment)				(\$71.63)

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COASTAL BERMUDA (ESTABLISHMENT), DRYLAND, EDWARDS AQUIFEREstimated Costs And Requirements Of Establishing Coastal Bermuda, 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	
Moldboard Plow	2&6	Sep-Feb	1	.50	.40	\$.39	\$.53	
Disc	2&8	Sep-Mar	2	.63	.50	.53	.76	
Sprig	-	Mar-Apr	Custom @ \$30.00 per acre including sprigs					
Spray Herbicide	2&21	May	1	.21	.17	.11	.17	
Fertilize	3	May-Sep	1	<u>.19</u>	<u>.15</u>	<u>-</u>	<u>-</u>	
Totals				1.53	1.22	\$1.03	\$ 1.46	

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

COASTAL BERMUDA PASTURE, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Coastal Bermuda Pasture, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:	animal unit			
Livestock Grazing	per month	\$ 5.50	12	\$ 66.00
2. Variable Costs:				
Pre-harvest:				
Fertilizer (300-60-0)	acre	33.00	1	\$ 33.00
Machinery	acre	.33	1	.33
Tractor (3)	hour	.89	.96	.85
Tractor labor	hour	1.65	1.21	2.00
Irrigation equipment	acre	11.64	1	11.64
Irrigation labor	hour	1.30	4.5	5.85
Pickup truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	27.71	2.22
Subtotal, Pre-harvest				\$ 57.64
Harvest				
None				-
Total Variable costs				\$ 57.64
3. Income Above Variable Costs				\$ 8.36
4. Fixed Costs:				
Machinery	acre	.70	1	\$.70
Tractor (3)	hour	1.36	.96	1.31
Irrigation equipment	acre	10.86	1	10.86
Establishment (\$103.35/10 yrs)	acre	10.34	1	10.34
Land (Cash Rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 50.19
5. Total Costs				\$107.83
6. Net Returns				(\$ 41.83)

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COASTAL BERMUDA PASTURE, IRRIGATED, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre Of Coastal Bermuda Pasture, 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	Jan-Dec	3	.53	.42	-	-
Scatter Manure	3	Jan-Dec	2	.25	.20	-	-
Shred	3&4	Mar-Oct	2	<u>.43</u>	<u>.34</u>	<u>.33</u>	<u>.70</u>
Totals				1.21	.96	.33	.70
Irrigate	28	Feb-Nov	3	4.50*	6.00	11.64	10.86

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

* Labor hours = .75 times machine hours.

COASTAL BERMUDA PASTURE, DRYLAND, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Coastal Bermuda Pasture, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Livestock Grazing	aum ^{1/}	\$ 5.50	3.5	\$ 19.25
2. Variable Costs:				
Pre-Harvest:				
Fertilizer (100-30-0)	acre	12.00	1	\$ 12.00
Tractor (3)	hour	.89	.21	.19
Tractor labor	hour	1.65	.26	.43
Pickup truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	7.18	.57
Total Pre-Harvest				\$ 14.94
Harvest:				
None				-
Total Variable Costs				\$ 14.94
3. Income Above Variable Costs				\$ 4.31
4. Fixed Costs:				
Tractor (3)	hour	1.36	.21	\$.29
Establishment (\$71.63/10 years)	acre	7.16	1	7.16
Land (cash rent)	acre	15.00	1	15.00
Pickup Truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 24.43
5. Total Costs				\$ 39.37
6. Net Returns				(\$20.12)

^{1/} animal unit months

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COASTAL BERMUDA PASTURE, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre Of Coastal Bermuda Pasture, 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	Apr-May Sep	2	<u>.26</u>	<u>.21</u>	-	-
Totals				.26	.21	-	-

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

CORN, IRRIGATED, EDWARDS AQUIFER

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Corn	bushel	\$ 1.30	100	\$130.00
2. Variable Costs:				
Preharvest				
Seed	lb	.36	15	\$ 5.40
Fertilizer (160-80-0)	acre	22.40	1	22.40
Herbicide	acre	4.00	1	4.00
Insecticide	acre	2.00	1	2.00
Insecticide application	acre	1.25	2	2.50
Machinery	acre	1.69	1	1.69
Tractor (1)	hour	1.96	.42	.82
Tractor (2)	hour	1.34	1.66	2.22
Tractor (3)	hour	.89	.80	.71
Tractor labor	hour	1.65	3.58	5.91
Irrigation equipment	acre	15.52	1	15.52
Irrigation labor	hour	1.30	6	7.80
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	36.36	<u>2.91</u>
Total Preharvest				\$ 75.63
Harvest				
Combine & header	acre	1.08	1	\$ 1.08
Operator	hour	1.65	.31	.51
Custom haul	bushel	.10	100	<u>10.00</u>
Total Harvest				\$ 11.59
Total Variable Costs				\$ 87.22
3. Income Above Variable Costs				\$ 42.78
4. Fixed Costs:				
Machinery				
(includes combine & header)	acre	8.19	1	\$ 8.19
Tractor (1)	hour	1.43	.42	.60
Tractor (2)	hour	1.55	1.66	2.57
Tractor (3)	hour	1.36	.80	1.09
Irrigation equipment	acre	14.48	1	14.48
Land (cash rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	<u>1.98</u>
Total Fixed Costs				\$ 53.91
5. Total Costs				\$141.13
6. Net Returns				(\$ 11.13)

CORN, IRRIGATED, EDWARDS AQUIFER

Estimated Costs and Requirements Per Acre of Corn, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	2&4	Jul-Sep	1	.16	.13	\$.13	\$.27
Disc	2&7	Jul-Sep	1	.25	.20	.19	.26
Moldboard Plow	1&6	Aug-Oct	.5	.31	.25	.25	.33
Chisel Plow	1&5	Aug-Oct	.5	.21	.17	.07	.12
Disc	2&7	Aug-Oct	1	.25	.20	.19	.26
Bed	2&9	Nov-Dec	1	.21	.17	.13	.17
Fertilize	2	Jan-Feb	1	.21	.17	-	-
Re-bed	2&9	Jan-Feb	1	.21	.17	.13	.17
Plant	2&16	Feb-Mar	1.2	.30	.24	.22	.34
Cultivate	2&12	Mar-Apr	1.2	.25	.20	.16	.20
Spray Herbicide	2&22	April	1	.22	.18	.16	.26
Make Ditches	3&23	Mar-Jun	4	.50	.40	.02	.06
Level Ditches	3&24	Mar-Jun	4	<u>.50</u>	<u>.40</u>	<u>.04</u>	<u>.09</u>
Total				3.58	2.88	\$ 1.69	\$ 2.53
Combine	25&26	Jul-Aug	1	.31	.25	\$ 1.08	\$ 5.66
Irrigate	28	Mar-Jun	4	6.00*	8.00	\$15.52	\$14.48

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

* Labor hours = .75 times machine hours.

CORN, IRRIGATED, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre of Corn, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Corn	bushel	\$ 1.30	80	\$104.00
2. Variable Costs:				
Preharvest				
Seed	lb	.36	15	\$ 5.40
Fertilizer (160-80-0)	acre	22.40	1	22.40
Herbicide	acre	4.00	1	4.00
Insecticide	acre	1.00	1	1.00
Insecticide application	acre	1.25	1	1.25
Machinery	acre	1.62	1	1.62
Tractor (2)	hour	1.34	1.97	2.64
Tractor (3)	hour	.89	1.10	.98
Tractor labor	hour	1.65	3.83	6.32
Irrigation equipment	acre	15.52	1	15.52
Irrigation labor	hour	1.30	6	7.80
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	35.34	<u>2.83</u>
Total Preharvest				\$ 73.51
Harvest				
Custom combine	acre	5.00	1	\$ 5.00
plus	bushel	.05	80	4.00
Custom haul	bushel	.10	80	<u>8.00</u>
Total Harvest				\$ 17.00
Total Variable Costs				\$ 90.51
3. Income Above Variable Costs				\$ 13.49
4. Fixed Costs:				
Machinery	acre	2.56	1	\$ 2.56
Tractor (2)	hour	1.55	1.97	3.05
Tractor (3)	hour	1.36	1.10	1.50
Irrigation equipment	acre	14.48	1	14.48
Land (cash rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	<u>1.98</u>
Total Fixed Costs				\$ 48.57
5. Total Costs				\$139.08
6. Net Returns				(\$ 35.08)

CORN, IRRIGATED, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre of Corn, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	3&4	Jul-Sep	1	.16	.13	\$.13	\$.27
Disc	2&8	Jul-Sep	1	.25	.20	.21	.30
Moldboard Plow	2&6	Aug-Oct	.5	.31	.25	.25	.33
Chisel Plow	2&5	Aug-Oct	.5	.25	.20	.08	.15
Disc	2&8	Aug-Oct	1	.25	.20	.21	.30
Bed	2&10	Nov-Dec	1	.25	.20	.11	.19
Fertilize	3	Jan-Feb	1	.21	.17	-	-
Re-bed	2&10	Jan-Feb	1	.25	.20	.11	.19
Plant	2&15	Feb-Mar	1.2	.30	.24	.16	.24
Cultivate	2&11	Mar-Apr	2	.35	.28	.17	.24
Spray Herbicide	2&21	April	1	.25	.20	.13	.20
Make Ditches	3&23	Mar-Jun	4	.50	.40	.02	.06
Level Ditches	3&24	Mar-Jun	4	<u>.50</u>	<u>.40</u>	<u>.04</u>	<u>.09</u>
Total				3.83	3.07	\$ 1.62	\$ 2.56
Irrigate	28	Mar-Jun	4	6.00*	8.00	\$15.52	\$14.48

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

* Labor hours = .75 times machine hours.

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CORN, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre of Corn, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Corn	bushel	\$ 1.30	40	\$52.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb	.36	10	\$ 3.60
Fertilizer (50-40-0)	acre	8.50	1	8.50
Machinery	acre	1.09	1	1.09
Tractor (2)	hour	1.34	1.06	1.42
Tractor (3)	hour	.89	.61	.54
Tractor labor	hour	1.65	2.08	3.43
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	10.16	<u>.81</u>
Sub-total, Pre-harvest				\$21.14
Harvest:				
Custom combine	acre	5.00	1	\$ 5.00
plus	bushel	.05	40	2.00
Custom haul	bushel	.10	40	4.00
Sub-total, Harvest				\$11.00
Total Variable Cost				\$32.14
3. Income Above Variable Cost				\$19.86
4. Fixed Costs:				
Machinery	acre	1.73	1	\$ 1.73
Tractor (2)	hour	1.55	1.06	1.64
Tractor (3)	hour	1.36	.61	.83
Land (cash rent)	acre	15.00	1	15.00
Pickup truck	acre	1.98	1	<u>1.98</u>
Total Fixed Costs				\$21.18
5. Total Costs				\$53.32
6. Net Returns				(\$ 1.32)

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CORN, DRYLAND, EDWARDS AQUIFER

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

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	3&4	Jul-Sep	1	.16	.13	\$.13	\$.27
Break	2&6	Jul-Sep	.5	.31	.25	.25	.33
Disc	2&8	Jul-Sep	1	.21	.17	.18	.26
Bed	2&10	Nov-Dec	1	.25	.20	.11	.19
Fertilize	3	Jan-Feb	1	.25	.20	-	-
Re-bed	2&10	Jan-Feb	1	.25	.20	.11	.19
Plant	2&15	Feb-Mar	1.2	.30	.24	.16	.24
Cultivate	3&13	Mar-Apr	2	<u>.35</u>	<u>.28</u>	<u>.15</u>	<u>.25</u>
Total				2.08	1.67	\$ 1.09	\$ 1.73

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

CORN SILAGE, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Corn Silage, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Corn Silage	ton	\$ 6.00	17	\$ 102.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	\$.36	20	\$ 7.20
Fertilizer (160-80-0)	acre	22.40	1	22.40
Machinery	acre	1.53	1	1.53
Tractor (1)	hour	1.96	.42	.82
Tractor (2)	hour	1.34	1.59	2.13
Tractor (3)	hour	.89	.93	.83
Tractor labor	hour	1.65	3.66	6.04
Irrigation Equipment	acre	15.52	1	15.52
Irrigation Labor	hour	1.30	6	7.80
Pickup Truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	33.01	2.64
Total Pre-Harvest				\$ 68.66
Harvest:				
None ^{1/}				-
Total Variable Costs				\$ 68.66
3. Income Above Variable Costs				\$ 33.34
4. Fixed Costs:				
Machinery	acre	2.27	1	\$ 2.27
Tractor (1)	hour	1.43	.42	.60
Tractor (2)	hour	1.55	1.59	2.46
Tractor (3)	hour	1.36	.93	1.26
Irrigation Equipment	acre	14.48	1	14.48
Land (cash rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 48.05
5. Total Costs				\$ 116.71
6. Net Returns				(\$ 14.71)

^{1/} Sold in Field

CORN SILAGE, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Requirements Per Acre of Corn 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	3&4	Jul-Sep	1	.16	.13	\$.13	\$.27
Disc	2&7	Jul-Sep	1	.25	.20	.19	.26
Moldboard Plow	1&6	Aug-Oct	.5	.31	.25	.25	.33
Chisel Plow	1&5	Aug-Oct	.5	.21	.17	.07	.12
Disc	2&7	Aug-Oct	1	.25	.20	.19	.26
Bed	2&9	Nov-Dec	1	.21	.17	.13	.17
Fertilize	2	Jan-Feb	1	.21	.17	-	-
Re-Bed	2&9	Jan-Feb	1	.21	.17	.13	.17
Plant	2&16	Feb-Mar	1.2	.30	.24	.22	.34
Cultivate	2&12	Mar-Apr	2	.25	.20	.16	.20
Side Dress Fertilize	2	Apr	1	.30	.24	-	-
Make Ditches	3&23	Mar-Jun	4	.50	.40	.02	.06
Level Ditches	3&24	Mar-Jun	4	<u>.50</u>	<u>.40</u>	<u>.04</u>	<u>.09</u>
Total				3.66	2.94	\$ 1.53	\$ 2.27
Irrigate	28	Mar-Jun	4	6.00*	8.00	\$15.52	\$14.48

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

* Labor hours = .75 times machine hours.

SUDAN HAY, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Sudan X Hay, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production				
Hay	ton	\$ 28.00	9	\$252.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.16	25	\$ 4.00
Fertilizer (150-0-0)	acre	13.50	1	13.50
Machinery	acre	1.10	1	1.10
Tractor (2)	hour	1.34	1.19	1.59
Tractor (3)	hour	.89	1.06	.94
Tractor Labor	hour	1.65	2.82	4.65
Irrigation Equipment	acre	11.64	1	11.64
Irrigation Labor	hour	1.30	4.5	5.85
Pickup Truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	22.51	1.80
Total Pre-Harvest				\$ 46.82
Harvest:				
Custom Mow, Rake, Bale	bale	.35	300	\$105.00
Custom Haul	bale	.15	300	45.00
Total Harvest				\$150.00
Total Variable Cost				\$196.82
3. Income Above Variable Cost				\$ 55.18
4. Fixed Costs:				
Machinery	acre	1.88	1	\$ 1.88
Tractor (2)	hour	1.55	1.19	1.84
Tractor (3)	hour	1.36	1.06	1.44
Irrigation Equipment	acre	10.86	1	10.86
Land (cash rent)	acre	25.00	1	25.00
Pickup Truck	acre	1.98	1	1.98
Total Fixed Cost				\$ 43.00
5. Total Costs				\$239.82
6. Net Returns				\$ 12.18

SUDAN HAY, IRRIGATED, EDWARDS AQUIFEREstimated Costs and Requirements Per Acre Of Sudan X Hay, 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	3&4	Aug-Nov	.5	.08	.06	\$.07	\$.14
Disc	2&8	Aug-Nov	1	.21	.17	.18	.26
Chisel Plow	2&5	Aug-Nov	.5	.25	.20	.08	.15
Moldboard Plow	2&6	Aug-Nov	.5	.31	.25	.24	.33
Disc	2&8	Aug-Nov	1	.21	.17	.18	.26
Fertilize	3	Jan-Mar	1	.25	.20	-	-
Bed	2&10	Jan-Mar	1	.25	.20	.11	.19
Plant	2&18	Mar-Apr	1	.25	.20	.19	.43
Fertilize	3	Mar-Aug	1	.25	.20	-	-
Make Ditches	3&23	Mar-Aug	3	.38	.30	.02	.05
Level Ditches	3&24	Mar-Aug	3	<u>.38</u>	<u>.30</u>	<u>.03</u>	<u>.07</u>
Totals				2.82	2.25	\$ 1.10	\$ 1.88
Irrigate	28	Mar-Aug	3	4.5*	6.0	\$11.64	\$10.86

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

* Labor hours = .75 times machine hours.

SUDAN X HAY, DRYLAND, EDWARDS AQUIFEREstimated Costs and Returns Per Acre of Sudan X Hay, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Sudan X Hay	ton	\$ 28.00	3.5	\$ 98.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.16	.20	3.20
Fertilizer (90-0-0)	acre	8.10	1	8.10
Machinery	acre	.94	1	.94
Tractor (2)	hour	1.34	.99	1.33
Tractor (3)	hour	.89	.26	.23
Tractor labor	hour	1.65	1.56	2.57
Pickup truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	9.06	.72
Total Pre-Harvest				\$ 18.84
Harvest:				
Custom mow, rake, bale	bale	.35	115	\$ 40.25
Custom haul	bale	.15	115	17.25
Total Harvest				\$ 57.50
Total Variable Cost				\$ 76.34
3. Income Above Variable Cost				\$ 21.66
4. Fixed Costs:				
Machinery	acre	1.57	1	\$ 1.57
Tractor (2)	hour	1.55	.99	1.53
Tractor (3)	hour	1.36	.26	.35
Land (cash rent)	acre	15.00	1	15.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 20.43
5. Total Costs				\$ 96.77
6. Net Returns				\$ 1.23

SUDAN X HAY, DRYLAND, EDWARDS AQUIFER
Estimated Costs And Requirements Per Acre Of Sudan X Hay, 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	3&4	Aug-Nov	.5	.08	.06	\$.07	\$.14
Disc	2&8	Aug-Nov	1	.21	.17	.18	.26
Chisel plow	2&5	Aug-Nov	.5	.25	.20	.08	.15
Moldboard plow	2&6	Aug-Nov	.5	.31	.25	.24	.33
Disc	2&8	Aug-Nov	1	.21	.17	.18	.26
Fertilize	3	Jan-Mar	1	.25	.20	-	-
Plant	2&18	Mar-Apr	1	<u>.25</u>	<u>.20</u>	<u>.19</u>	<u>.43</u>
Totals				1.56	1.25	\$.94	\$ 1.57

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

COTTON, IRRIGATED, EDWARDS AQUIFER

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:				
Cotton	lb	\$.30 ^{1/}	600	\$ 180.00
Cotton seed	ton	58.00	.48	27.84
Total				\$ 207.84
2. Variable Costs:				
Pre-Harvest:				
Seed	lb	.15	20	\$ 3.00
Fertilizer (80-40-0)	acre	11.20	1	11.20
Herbicide	acre	6.00	1	6.00
Insecticide	acre	15.00	1	15.00
Insecticide application	per app.	1.25	10	12.50
Machinery	acre	2.16	1	2.16
Tractor (2)	hour	1.34	2.42	3.24
Tractor (3)	hour	.89	.90	.80
Tractor labor	hour	1.65	4.15	6.85
Irrigation equipment	acre	11.64	1	11.64
Irrigation labor	hour	1.30	4.5	5.85
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	40.00	3.20
Subtotal, Pre-Harvest				\$ 83.19
Harvest:				
Defoliant	acre	2.50	1	\$ 2.50
Defoliant application	acre	1.50	1	1.50
Custom harvest	bale	25.00	1.2	30.00
Ginning	bale	21.00	1.2	25.20
Subtotal, Harvest				\$ 59.20
Total Variable Cost				\$ 142.39
3. Income Above Variable Cost				\$ 65.45
4. Fixed Costs:				
Machinery	acre	3.58	1	\$ 3.58
Tractor (2)	hour	1.55	2.42	3.75
Tractor (3)	hour	1.36	.90	1.22
Irrigation equipment	acre	10.86	1	10.86
Land (cash rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 46.39
5. Total Costs				\$ 188.78
6. Net Returns				\$ 19.06
7. Government Payment (600 lb @ \$.15 per lb) ^{2/}				\$ 90.00
8. Net Returns Including Government Payment				\$ 109.06

^{1/} Estimated Contract Price for 1972.^{2/} Based on planted acres. No allowance is made for set aside acreage.

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AECO 6

COTTON, IRRIGATED, EDWARDS AQUIFER

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	3&4	Aug-Sep	1	.16	.13	\$.13	\$.27
Disc	2&8	Aug-Oct	1	.25	.20	.21	.30
Moldboard Plow	2&6	Aug-Oct	.5	.31	.25	.25	.33
Chisel Plow	2&5	Aug-Oct	.5	.25	.20	.08	.15
Disc	2&8	Aug-Oct	1	.25	.20	.21	.30
Plane	2&20	Aug-Oct	1	.25	.20	.12	.47
Fertilize	3	Dec-Jan	1	.21	.17	-	-
Spray Herbicide and Disc	2&21 &8	Dec-Feb	1	.31	.25	.43	.63
Bed	2&10	Dec-Feb	1	.25	.20	.11	.19
Run Middles	2&13	Feb-Mar	1	.21	.17	.09	.15
Plant	2&15	Mar	1	.30	.24	.16	.24
Rolling Cultivate	2&11	Mar-May	3	.64	.51	.32	.43
Make Ditches	3&23	Mar-Aug	3	.38	.30	.02	.05
Level Ditches	3&24	Mar-Aug	3	<u>.38</u>	<u>.30</u>	<u>.03</u>	<u>.07</u>
TOTALS				4.15	3.32	\$ 2.16	\$ 3.58
Irrigate	28	Mar-Aug	3	4.50*	6.00	\$11.64	\$10.86

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

* Labor hours = .75 times machine hours.

COTTON, IRRIGATED, EDWARDS AQUIFER

16075112

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:				
Cotton	lb.	\$.30 ^{1/}	800	\$ 240.00
Cotton seed	ton	58.00	.64	37.12
Total				\$ 277.12
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.15	20	\$ 3.00
Fertilizer (100-60-0)	acre	15.00	1	15.00
Herbicide	acre	6.00	1	6.00
Insecticide	acre	22.50	1	22.50
Insecticide application	per app.	1.25	15	18.75
Machinery	acre	2.56	1	2.56
Tractor (1)	hour	1.96	1.38	2.70
Tractor (2)	hour	1.34	1.48	1.98
Tractor (3)	hour	.89	.60	.53
Tractor labor	hour	1.65	4.32	7.13
Irrigation equipment	acre	11.64	1	11.64
Irrigation labor	hour	1.30	4.5	5.85
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	49.70	3.98
Subtotal, Pre-Harvest				\$ 103.37
Harvest:				
Defoliant	acre	2.50	1	\$ 2.50
Defoliant application	acre	1.50	1	1.50
Custom harvest	bale	25.00	1.6	40.00
Ginning	bale	21.00	1.6	33.60
Sub-total, Harvest				\$ 77.60
Total Variable Costs				\$ 180.97
3. Income Above Variable Cost				\$ 96.15
4. Fixed Costs:				
Machinery	acre	4.08	1	\$ 4.08
Tractor (1)	hour	1.43	1.38	1.97
Tractor (2)	hour	1.55	1.48	2.29
Tractor (3)	hour	1.36	.60	.82
Irrigation equipment	acre	10.86	1	10.86
Land (cash rent)	acre	25.00	1	25.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 47.00
5. Total Costs				\$ 227.97
6. Net Returns				\$ 49.15
7. Government payment (800 lb. @ \$.15 per lb)^{2/}				\$ 120.00
8. Net Returns Including Government Payment				\$ 169.15

^{1/} Estimated Contract Price for 1972.

^{2/} Based on planted acres. No allowance is made for set aside acreage.

COTTON, IRRIGATED, EDWARDS AQUIFEREstimated 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	2&4	Aug-Sep	1	.16	.13	\$.13	\$.27
Disc	2&7	Aug-Oct	1	.25	.20	.19	.26
Moldboard Plow	1&6	Aug-Oct	.5	.31	.25	.25	.33
Chisel Plow	1&5	Aug-Oct	.5	.21	.17	.07	.12
Disc	2&7	Aug-Oct	1	.25	.20	.19	.26
Plane	1&20	Aug-Oct	1	.25	.20	.12	.47
Fertilize	2	Dec-Jan	1	.21	.17	-	-
Spray Herbicide and Disc	1&22 &7	Dec-Feb	1	.31	.25	.45	.69
Disc	2&7	Dec-Feb	1	.25	.20	.19	.26
Bed	2&9	Dec-Feb	1	.21	.17	.13	.17
Run Middles	2&14	Feb-Mar	1	.21	.17	.15	.27
Plant	2&16	Mar	1	.30	.24	.22	.34
Rolling Cultivate	1&12	Mar-May	3	.64	.51	.42	.52
Make Ditches	3&23	Mar-Aug	3	.38	.30	.02	.05
Level Ditches	3&24	Mar-Aug	3	<u>.38</u>	<u>.30</u>	<u>.03</u>	<u>.07</u>
TOTALS				4.32	3.46	\$ 2.56	\$ 4.08
Irrigate	28	May-Aug	3	4.50*	6.00	\$11.64	\$10.86

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

GRAIN SORGHUM, IRRIGATED, EDWARDS AQUIFER

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Grain Sorghum	cwt.	\$ 2.00	55	\$110.00
2. Variable Costs:				
Pre-Harvest				
Seed	lb	.25	6.5	\$ 1.63
Fertilizer (100-60-0)	acre	15.40	1	15.40
Herbicide	acre	1.50	1	1.50
Machinery	acre	1.61	1	1.61
Tractor (1)	hour	1.96	.82	1.61
Tractor (2)	Hour	1.34	1.34	1.80
Tractor (3)	hour	.89	.60	.53
Tractor Labor	hour	1.65	3.45	5.69
Irrigation Equipment	acre	11.64	1	11.64
Irrigation Labor	hour	1.30	4.5	5.85
Pickup Truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	24.50	1.96
Sub-Total, Pre-Harvest				\$ 50.97
Harvest:				
Machinery	acre	1.08	1	\$ 1.08
Labor	hour	1.65	.31	.51
Custom Haul	cwt.	.10	55	5.50
Sub-Total, Harvest				\$ 7.09
Total Variable Costs				\$ 58.06
3. Income Above Variable Costs				\$ 51.94
4. Fixed Costs:				
Machinery (includes combine)	acre	5.86	1	\$ 5.86
Tractor (1)	hour	1.43	.82	1.17
Tractor (2)	hour	1.55	1.34	2.08
Tractor (3)	hour	1.36	.60	.82
Irrigation Equipment	acre	10.86	1	10.86
Land (Cash Rent)	acre	25.00	1	25.00
Pickup Truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 47.77
5. Total Costs				\$105.83
6. Net Returns				\$ 4.17

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GRAIN SORGHUM, IRRIGATED, EDWARDS AQUIFER

Estimated Cost, And Requirements Per Acre Of Grain Sorghum, High Level Management

Operation	Item No.	Date	Times Over	Labor hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	2&4	Jul-Sept	.5	.13	.10	\$.10	\$.21
Disc	1&7	Jul-Sept	1	.25	.20	.19	.26
Chisel Plow	1&5	Aug-Oct	.5	.21	.17	.07	.12
Moldboard Plow	1&6	Aug-Oct	.5	.31	.25	.25	.33
Disc	2&7	Aug-Oct	1	.25	.20	.19	.26
Float	1&20	Aug-Oct	1	.25	.20	.12	.47
Fertilize	2	Oct-Jan	1	.21	.17	-	-
Bed	2&9	Oct-Jan	1	.21	.17	.09	.16
Re-bed	2&9	Jan-Mar	1	.21	.17	.09	.16
Plant	2&16	Jan-Mar	1.2	.30	.24	.22	.34
Rolling Cultivate	2&12	Mar-Apr	2	.25	.20	.16	.20
Spray Herbicide	2&22	Mar-Apr	.5	.11	.09	.08	.13
Make Ditches	3&23	Feb-Jun	3	.38	.30	.02	.05
Level Ditches	3&24	Feb-Jun	3	<u>.38</u>	<u>.30</u>	<u>.03</u>	<u>.07</u>
Total				3.45	2.76	\$1.61	\$2.76
Combine	25	Jun-Jul	1	.31	.25	1.08	3.10
Pre-irrigate	28	Feb	1	1.50*	2.00	3.88	3.62
Irrigate	28	Mar-Jun	2	<u>3.00*</u>	<u>4.00</u>	<u>7.76</u>	<u>7.24</u>
				4.50	6.00	\$11.64	\$10.86

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

* Labor hours = .75 times machine hours.

GRAIN SORGHUM, IRRIGATED, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre Of Grain Sorghum, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Grain Sorghum	cwt	\$ 2.00	45	\$ 90.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb	.25	6.5	\$ 1.63
Fertilizer (100-40-0)	acre	13.00	1	13.00
Machinery	acre	1.45	1	1.45
Tractor (2)	hour	1.34	1.77	2.37
Tractor (3)	hour	.89	.90	.80
Tractor Labor	hour	1.65	3.35	5.53
Irrigation Equipment	acre	11.64	1	11.64
Irrigation Labor	hour	1.30	4.5	5.85
Pickup Truck	acre	1.75	1	1.75
Interest on Operating Capital	\$	.08	22.01	<u>1.76</u>
Sub-Total, Pre-Harvest				\$ 45.78
Harvest:				
Custom Combine	cwt	.15	45	\$ 6.75
Custom Haul	cwt	.10	45	<u>4.50</u>
Sub-Total, Harvest				\$ 11.25
Total Variable Costs				\$ 57.03
3. Income Above Variable Cost				\$ 32.97
4. Fixed Cost:				
Machinery	acre	2.55	1	\$ 2.55
Tractor (2)	hour	1.55	1.77	2.74
Tractor (3)	hour	1.36	.90	1.22
Irrigation Equipment	acre	10.86	1	10.86
Land (Cash Rent)	acre	25.00	1	25.00
Pickup Truck	acre	1.98	1	<u>1.98</u>
Total Fixed Cost				\$ 44.35
5. Total Costs				\$ 101.38
6. Net Returns				(\$ 11.38)

GRAIN SORGHUM, IRRIGATED, EDWARDS AQUIFER

Estimated Costs, And Requirements Per Acre Of Grain Sorghum, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	3&4	Jul-Sep	.5	.13	.10	\$.10	\$.21
Disc	2&8	Jul-Sep	1	.25	.20	.21	.30
Chisel plow	2&5	Aug-Oct	.5	.25	.20	.08	.15
Moldboard plow	2&6	Aug-Oct	.5	.31	.25	.24	.33
Disc	2&8	Aug-Oct	1	.25	.20	.21	.30
Float	2&20	Aug-Oct	1	.25	.20	.12	.47
Fertilize	3	Jan-Feb	1	.25	.20	-	-
Bed	2&10	Jan-Feb	1	.25	.20	.11	.19
Plant	2&15	March	1.2	.30	.24	.16	.24
Cultivate	2&11	Mar-Apr	2	.35	.28	.17	.24
Make ditches	3&23	Mar-Jun	3	.38	.30	.02	.05
Level ditches	3&24	Mar-Jun	3	<u>.38</u>	<u>.30</u>	<u>.03</u>	<u>.07</u>
Total				3.35	2.67	\$ 1.45	\$2.55
Irrigate	28	Mar-Jun	3	4.50*	6.00	\$11.64	\$10.86

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

* Labor hours = .75 times machine hours.

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GRAIN SORGHUM, DRYLAND, EDWARDS AQUIFER

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Grain Sorghum	cwt	\$ 2.00	35	\$70.00
2. Variable Costs:				
Preharvest:				
Seed	lb	.24	5	\$ 1.20
Fertilizer (30-30-0)	acre	4.70	1	4.70
Machinery	acre	1.40	1	1.40
Tractor (1)	hour	1.96	.25	.49
Tractor (2)	hour	1.34	1.45	1.94
Tractor labor	hour	1.65	2.13	3.51
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	7.50	<u>.60</u>
Subtotal, Preharvest				\$15.59
Harvest:				
Machinery	acre	1.08	1	\$ 1.08
Combine labor	hour	1.65	.31	.51
Custom haul	cwt	.10	35	<u>3.50</u>
Subtotal, Harvest				\$ 5.09
Total Variable Costs				\$20.68
3. Income Above Variable Cost				\$49.32
4. Fixed Costs				
Machinery (includes combine)	acre	4.98	1	\$ 4.98
Tractor (1)	hour	1.43	.25	.63
Tractor (2)	hour	1.55	1.45	2.25
Land (cash rent)	acre	15.00	1	15.00
Pickup truck	acre	1.98	1	<u>1.98</u>
Total Fixed Costs				\$24.84
5. Total Costs				\$45.52
6. Net Returns				\$24.48

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GRAIN SORGHUM, DRYLAND, EDWARDS AQUIFER

Estimated Costs and Requirements Per Acre of Grain Sorghum, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	2&4	Jul-Sep	1	.13	.10	\$.10	\$.21
Break	1&6	Jul-Sep	.5	.31	.25	.25	.33
Disc	2&7	Jul-Sep	2	.43	.34	.45	.32
Bed	2&9	Nov-Dec	1	.21	.17	.09	.16
Fertilize	2	Jan-Feb	1	.25	.20	-	-
Rebed	2&9	Jan-Feb	1	.21	.17	.09	.16
Plant	2&16	March	1.2	.30	.24	.22	.34
Cultivate	2&14	Mar-Apr	2	<u>.29</u>	<u>.23</u>	<u>.20</u>	<u>.36</u>
Total				2.13	1.70	1.40	1.88
Combine	25	Jun-Jul	1	.31	.25	1.08	3.10

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

GRAIN SORGHUM, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre Of Grain Sorghum, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Grain Sorghum	cwt	\$ 2.00	20	\$40.00
2. Variable Costs:				
Pre-harvest:				
Seed	lb	.24	5	\$ 1.20
Fertilizer (16-20-0)	acre	3.44	1	3.44
Machinery	acre	1.16	1	1.16
Tractor (2)	hour	1.34	1.03	1.38
Tractor (3)	hour	.89	.61	.54
Tractor labor	hour	1.65	2.05	3.38
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	6.43	<u>.51</u>
Sub-total, Pre-harvest				\$13.36
Harvest:				
Custom combine	cwt	.15	20	\$ 3.00
Custom haul	cwt	.10	20	<u>2.00</u>
Sub-total, Harvest				\$ 5.00
Total Variable Costs				\$18.36
3. Income Above Variable Cost				\$21.64
4. Fixed Costs:				
Machinery	acre	1.81	1	\$ 1.81
Tractor (2)	hour	1.55	1.03	1.60
Tractor (3)	hour	1.36	.61	.83
Land (cash rent)	acre	15.00	1	15.00
Pickup truck	acre	1.98	1	<u>1.98</u>
Total Fixed Costs				\$21.22
5. Total Costs				\$39.58
6. Net Returns				\$.42

GRAIN SORGHUM, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre of Grain Sorghum, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep. Per Acre	Fixed Costs Per Acre
Shred	3&4	Jul-Sep	1	.16	.13	\$.13	\$.27
Break	2&6	Jul-Sep	.5	.31	.25	.25	.33
Disc	2&8	Jul-Sep	2	.43	.34	.36	.53
Fertilize	3	Jan-Mar	1	.25	.20	-	-
Bed	2&10	Jan-Mar	1	.25	.20	.11	.19
Plant	2&15	March	1.2	.30	.24	.16	.24
Cultivate	3&13	Mar-Apr	2	<u>.35</u>	<u>.28</u>	<u>.15</u>	<u>.25</u>
Total				2.05	1.64	1.16	1.81

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

OATS FOR GRAZING, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Oats For Grazing, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Grazing Lease	aum ^{1/}	\$ 6.00	7.5	\$45.00
2. Variable Costs:				
Pre-Harvest:				
Seed	bu.	1.75	3	5.25
Fertilizer (45-0-0)	acre	4.05	1	4.05
Machinery	acre	.88	1	.88
Tractor (2)	hour	1.34	.80	1.07
Tractor (3)	hour	.89	.70	.62
Tractor Labor	hour	1.65	1.87	3.09
Irrigation Equipment	acre	7.76	1	7.76
Irrigation Labor	hour	1.30	3	3.90
Pickup Truck (½)	acre	1.75	.5	.88
Interest on Operating Capital	\$	.08	13.75	1.10
Total Pre-Harvest				\$28.60
Harvest:				
None				-
Total Variable Costs				\$28.60
3. Income Above Variable Costs				\$16.40
4. Fixed Costs:				
Machinery	acre	1.56	1	\$ 1.56
Tractor (2)	hour	1.55	.80	1.24
Tractor (3)	hour	1.36	.70	.95
Irrigation Equipment	acre	7.24	1	7.24
Land (½ year cash rent)	acre	12.50	1	12.50
Pickup Truck (½)	acre	1.98	.5	.99
Total Fixed Cost				\$24.48
5. Total Costs				\$53.08
6. Net Returns				(\$ 8.08)

^{1/} Animal Units Months

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OATS FOR GRAZING, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Requirements Per Acre Of Oats For Grazing, 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	3&4	Sept	1	.16	.13	\$.13	\$.27
Disc	2&8	Sept	2	.50	.40	.42	.60
Fertilize	3	Oct	1	.21	.17	-	-
Bed	2&10	Oct	1	.25	.20	.11	.19
Plant	2&18	Oct	1	.25	.20	.19	.43
Make Ditches	3&23	Oct-Apr	2	.25	.20	.01	.03
Level Ditches	3&24	Oct-Apr	2	<u>.25</u>	<u>.20</u>	<u>.02</u>	<u>.04</u>
Total				1.87	1.50	\$.88	\$ 1.56
Irrigate	28	Oct-Apr	2	3.00*	4.00	\$ 7.76	\$ 7.24

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

* Labor hours = .75 times machine hours.

OATS FOR GRAZING, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre Of Oats For Grazing, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Income, From Production: Lease for Grazing	aum ^{1/}	\$ 6.00	3.5	\$ 21.00
2. Variable Costs:				
Pre-Harvest				
Seed	bu.	1.75	1.5	\$ 2.63
Fertilizer (30-0-0)	acre	2.70	1	2.70
Machinery	acre	.74	1	.74
Tractor (2)	hour	1.34	.60	.80
Tractor (3)	hour	.89	.30	.27
Tractor Labor	hour	1.30	1.12	1.46
Pickup Truck (½)	acre	1.75	.5	.88
Interest on Operating Capital	\$	.08	4.74	.40
Total Pre-Harvest				\$ 9.88
Harvest				
None				-
Total Variable Costs				\$ 9.88
3. Income Above Variable Costs				\$ 11.12
4. Fixed Costs:				
Machinery	acre	1.30	1	\$ 1.30
Tractor (2)	hour	1.55	.60	.93
Tractor (3)	hour	1.36	.30	.41
Land (½ year cash rent)	acre	7.50	1	7.50
Pickup truck (½)	acre	1.98	.5	.99
Total Fixed Costs				\$ 11.13
5. Total Costs				\$ 21.01
6. Net Returns				(\$.01)

^{1/} Animal Units Months

OATS FOR GRAZING, DRYLAND, EDWARDS AQUIFEREstimated Costs And Requirements Per Acre Of Oats For Grazing, 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	3&4	Sept	1	.16	.13	\$.13	\$.27
Disc	2&8	Sept	2	.50	.40	.42	.60
Fertilize	3	Oct	1	.21	.17	-	-
Plant	2&18	Oct	1	<u>.25</u>	<u>.20</u>	<u>.19</u>	<u>.43</u>
Totals				1.12	.90	\$.74	\$ 1.30

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

PEANUTS, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Peanuts, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Peanuts	lb	\$.14	3300	\$ 462.00
2. Variable Costs:				
Preharvest:				
Cover crop seed	acre	2.50	1	2.50
Seed	lb	.33	80	26.40
Fertilizer (64-80-0) total	acre	13.76	1	13.76
Soil fungicide	acre	14.00	1	14.00
Herbicide	acre	8.00	1	8.00
Insecticide	acre	4.00	1	4.00
Insecticide application	per app	1.25	2	2.50
Foliage fungicide	acre	6.80	1	6.80
Foliage fungicide application	per app	1.50	4	6.00
Machinery	acre	2.59	1	2.59
Tractor (1)	hour	1.96	1.25	2.45
Tractor (2)	hour	1.34	1.75	2.35
Tractor labor	hour	1.65	3.74	6.17
Irrigation equipment	acre	25.61	1	25.61
Irrigation labor	acre	1.30	12	15.60
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	70.24	5.62
Subtotal, Preharvest				\$146.10
Harvest:				
Digging and Shaking	acre	6.00	1	\$ 6.00
Combining (custom)	lb	.01	3300	33.00
Hauling (custom)	ton	4.00	1.65	6.60
Drying (custom)	ton	8.00	1.65	13.20
Subtotal, Harvest				\$ 58.80
Total Variable Cost				\$204.90
3. Income Above Variable Cost				\$257.10
4. Fixed Costs:				
Machinery	acre	3.75	1	\$ 3.75
Tractor (1)	hour	1.43	1.25	1.79
Tractor (2)	hour	1.55	1.75	2.71
Irrigation equipment	acre	23.89	1	23.89
Land (cash rent)	acre	25.00	1	25.00
Allotment	acre	20.00	1	20.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 79.12
5. Total Costs				\$284.02
6. Net Returns				\$177.98

PEANUTS, IRRIGATED, EDWARDS AQUIFEREstimated Cost And Requirements Per Acre Of Peanuts, 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
Moldboard Plow	1&6	Sept	1	.62	.50	\$.49	\$.66
Disc	2&7	Sept	1	.25	.20	.19	.26
Fertilize	2	Oct	1	.25	.20	-	-
Seed cover crop	2&18	Oct	1	.25	.20	.19	.43
Moldboard Plow	1&6	Feb	1	.62	.50	.49	.66
Disc	2&7	Feb	1	.25	.20	.19	.26
Fertilize	2	Feb	1	.25	.20	-	-
Bed	2&9	Feb	1	.21	.17	.13	.17
Apply Fungicide ^{2/} and Herbicide	1,22 &12	Feb	1	.31	.25	.42	.62
Plant	2&16	Feb	1	.30	.24	.22	.34
Cultivate	2&12	Mar&Apr	2	<u>.43</u>	<u>.34</u>	<u>.27</u>	<u>.35</u>
Totals				3.74	3.00	\$ 2.59	\$ 3.75
Irrigate ^{3/}	28	Mar-Jun	6	12.00*	12.00	\$25.61	\$23.89

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

^{2/} Special equipment cost approximated by cost of operation for herbicide sprayer and cultivator.

^{3/} Sprinkle Irrigation cost is assumed to be equal to cost of defined system plus 10%.

* Labor hours = 1.00 times machine hours.

PEANUTS, IRRIGATED, EDWARDS AQUIFEREstimated Costs And Returns Per Acre of Peanuts, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Peanuts	lb	\$.14	2800	\$ 392.00
2. Variable Costs:				
Preharvest:				
Cover crop seed	acre	\$ 2.50	1	\$ 2.50
Seed	lb	.33	80	26.40
Fertilizer (48-60-0) total	acre	10.32	1	10.32
Soil fungicide	acre	14.00	1	14.00
Herbicide	acre	8.00	1	8.00
Insecticide	acre	4.00	1	4.00
Insecticide application	per app	1.25	2	2.50
Foliage fungicide	acre	6.80	1	6.80
Foliage fungicide application	per app	1.50	4	6.00
Machinery	acre	2.37	1	2.37
Tractor (2)	hour	1.34	2.4	3.22
Tractor (3)	hour	.89	.6	.53
Tractor labor	hour	1.65	3.74	6.17
Irrigation equipment	acre	25.61	1	25.61
Irrigation labor	hour	1.30	12	15.60
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	67.89	5.43
Subtotal, Preharvest				\$ 141.20
Harvest:				
Digging and Shaking	acre	6.00	1	\$ 6.00
Combining (custom)	lb	.01	2800	28.00
Hauling (custom)	ton	4.00	1.4	5.60
Drying (custom)	ton	8.00	1.4	11.20
Total Harvest				\$ 50.80
Total Variable Cost				\$ 192.00
3. Income Above Variable Cost				\$ 200.00
4. Fixed Costs:				
Machinery	acre	3.50	1	\$ 3.50
Tractor (2)	hour	1.55	2.4	3.72
Tractor (3)	hour	1.36	.6	.82
Irrigation equipment	acre	23.89	1	23.89
Land (cash rent)	acre	25.00	1	25.00
Allotment	acre	20.00	1	20.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Costs				\$ 78.91
5. Total Cost				\$ 270.91
6. Net Returns				\$ 121.09

PEANUTS, IRRIGATED, EDWARDS AQUIFER

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Estimated Costs and Requirements Per Acre Of Peanuts, 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
Moldboard Plow	2&6	Sept	1	.62	.50	\$.49	\$.66
Disc	2&8	Sept	1	.25	.20	.21	.30
Fertilize	3	Oct	1	.25	.20	-	-
Seed cover crop	3&18	Oct	1	.25	.20	.19	.43
Moldboard Plow	2&6	Feb	1	.62	.50	.49	.66
Disc	2&8	Feb	1	.25	.20	.21	.30
Fertilize	3	Feb	1	.25	.20	-	-
Bed	2&10	Feb	1	.21	.17	.09	.16
Apply Fungicide ^{2/} 2, and Herbicide 11&21		Feb	1	.31	.25	.32	.46
Plant	2&15	Feb	1	.30	.24	.16	.24
Cultivate	2&11	Mar&Apr	2	<u>.43</u>	<u>.34</u>	<u>.21</u>	<u>.29</u>
Totals				3.74	3.00	2.37	3.50
Irrigate ^{3/}	28	Mar-Jun	6	12.00*	12.00	\$ 25.61	\$ 23.89

- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
^{2/} Special equipment cost approximated by cost of operation for herbicide sprayer and cultivator
^{3/} Sprinkle irrigation cost is assumed to be equal to cost of defined system plus 10%.
 * Labor hours = 1.00 times machine hours.

PEANUTS, DRYLAND, EDWARDS AQUIFEREstimated Costs And Returns Per Acre Of Peanuts, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production Peanuts	lb	\$.14	1485	\$ 207.90
2. Variable Cost				
Preharvest				
Cover crop seed	acre	\$ 2.50	1	\$ 2.50
Seed	lb	.33	45	14.85
Fertilizer (32-40-0)	acre	6.88	1	6.88
Herbicide	acre	8.00	1	8.00
Insecticide	acre	4.00	1	4.00
Insecticide application	per app	1.25	2	2.50
Foliage fungicide	acre	3.40	1	3.40
Foliage fungicide application	per app	1.50	2	3.00
Machinery	acre	2.33	1	2.33
Tractor (1)	hour	1.96	1.00	1.96
Tractor (2)	hour	1.34	1.93	2.59
Tractor labor	hour	1.65	3.65	6.02
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	29.89	2.39
Subtotal Preharvest				\$ 62.17
Harvest				
Diggin and shaking	acre	6.00	1	\$ 6.00
Combining (custom)	lb	.01	1485	14.85
Hauling (custom)	ton	4.00	.7425	2.97
Drying (custom)	ton	8.00	.7425	5.94
Total Harvest				\$ 29.76
Total Variable Cost				\$ 91.93
3. Income Above Variable Cost				\$ 115.97
4. Fixed Cost				
Machinery	acre	3.39	1	\$ 3.39
Tractor (1)	hour	1.43	1.00	1.43
Tractor (2)	hour	1.55	1.93	2.99
Land (cash rent)	acre	15.00	1	15.00
Allotment	acre	8.00	1	8.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Cost				\$ 32.79
5. Total Costs				\$ 124.72
6. Net Returns				\$ 83.18

PEANUTS, DRYLAND, EDWARDS AQUIFEREstimated Costs And Requirements Per Acre of Peanuts, 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
Moldboard Plow	1&6	Sept	1	.62	.50	\$.49	\$.66
Disc	2&7	Sept	1	.25	.20	.19	.26
Fertilize	2	Sept	1	.25	.20	-	-
Seed cover crop	2&18	Oct	1	.25	.20	.19	.43
Moldboard Plow	1&6	Feb	1	.62	.50	.49	.66
Disc	2&7	Feb	1	.25	.20	.19	.26
Spray Herbicide	2&22	Feb	1	.22	.18	.16	.26
Fertilize	2	Feb	1	.25	.20	-	-
Bed	2&9	Feb	1	.21	.17	.13	.17
Plant	2&16	Feb	1	.30	.24	.22	.34
Cultivate	2&12	Mar-Apr	2	<u>.43</u>	<u>.34</u>	<u>.27</u>	<u>.35</u>
TOTALS				3.65	2.93	\$ 2.33	\$ 3.39

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

PEANUTS, DRYLAND, EDWARDS AQUIFER
Estimated Costs And Returns Per Acre Of Peanuts, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Peanuts	lb	\$.14	1155	\$ 161.70
2. Variable Cost:				
Preharvest:				
Cover crop seed	acre	2.50	1	\$ 2.50
Seed	lb	.33	45	14.85
Fertilizer (32-40-0)	acre	6.88	1	6.88
Herbicide	acre	8.00	1	8.00
Insecticide	acre	4.00	1	4.00
Insecticide application	per app	1.25	2	2.50
Foliage fungicide	acre	3.40	1	3.40
Foliage fungicide application	per app	1.50	2	3.00
Machinery	acre	2.18	1	2.18
Tractor (2)	hour	1.34	2.15	2.88
Tractor (3)	hour	.89	.80	.71
Tractor labor	hour	1.65	3.68	6.07
Pickup truck	acre	1.75	1	1.75
Interest on operating capital	\$	.08	29.36	2.35
Total Preharvest				\$ 61.07
Harvest:				
Digging and Shaking	acre	6.00	1	\$ 6.00
Combining (custom)	lb	.01	1155	11.55
Hauling (custom)	ton	4.00	.5775	2.31
Drying (custom)	ton	8.00	.5775	4.62
Total Harvest				\$ 24.48
Total Variable Cost				\$ 85.55
3. Income Above Variable Cost				\$ 76.15
4. Fixed Cost				
Machinery	acre	3.24	1	\$ 3.24
Tractor (2)	hour	1.55	2.15	3.33
Tractor (3)	hour	1.36	.80	1.09
Land (cash rent)	acre	15.00	1	15.00
Allotment	acre	8.00	1	8.00
Pickup truck	acre	1.98	1	1.98
Total Fixed Cost				\$ 32.64
5. Total Costs				\$ 118.19
6. Net Returns				\$ 43.51

PEANUTS, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre Of Peanuts, 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
Moldboard Plow	2&6	Sept	1	.62	.50	\$.49	\$.66
Disc	2&8	Sept	1	.25	.20	.21	.30
Fertilize	3	Sept	1	.25	.20	-	-
Seed cover crop	3&18	Oct	1	.25	.20	.19	.43
Moldboard plow	2&6	Feb	1	.62	.50	.49	.66
Disc	2&18	Feb	1	.25	.20	.21	.30
Spray Herbicide	3&21	Feb	1	.25	.20	.13	.20
Fertilize	3	Feb	1	.25	.20	-	-
Bed	2&10	Feb	1	.21	.17	.09	.16
Plant	2&15	Feb	1	.30	.24	.16	.24
Cultivate	2&11	Mar&Apr	2	<u>.43</u>	<u>.34</u>	<u>.21</u>	<u>.29</u>
Totals				3.68	2.95	\$ 2.18	\$3.24

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

MEXICAN WHEAT, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre Of Mexican Wheat, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production:				
Wheat	bushel	\$1.39 <u>1/</u>	45	\$62.55
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt	5.00	.60	3.00
Fertilizer (60-30-0)	acre	8.40	1	8.40
Herbicide	acre	1.50	1	1.50
Machinery	acre	1.00	1	1.00
Tractor (2)	hour	1.34	1.02	1.37
Tractor Labor	hour	1.65	1.29	2.13
Pickup Truck	acre	1.75	.5	.88
Interest on Operating Capital	\$	.08	9.14	.73
Sub-Total, Pre-Harvest				\$19.01
Harvest:				
Machinery	acre	1.08	1	\$ 1.08
Labor	hour	1.65	.31	.51
Custom Haul	cwt	.10	27	2.70
Sub-Total, Harvest				\$ 4.29
Total Variable Cost				\$23.30
3. Income Above Variable Cost				\$39.25
4. Fixed Cost:				
Machinery (includes combine)	acre	4.22	1	\$ 4.22
Tractor (2)	hour	1.55	1.02	1.58
Land (Cash Rent)	acre	15.00	.5	7.50
Pickup Truck (1/2)	acre	1.98	.5	.99
Total Fixed Costs				\$14.29
5. Total Costs				\$37.59
6. Net Returns				\$24.96

1/ 1966-70 Seasons Average Price, Texas Crop and Livestock Reporting Service

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MEXICAN WHEAT, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre Of Mexican Wheat, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep Per Acre	Fixed Costs Per Acre
Shred	2&4	Aug-Nov	1	.13	.10	.10	.21
Disc	2&7	Aug-Dec	2	.43	.34	.45	.32
Fertilize	2	Dec	1	.25	.20	-	-
Plant	2&18	Dec-Jan	1	.25	.20	.19	.43
Spray Herbicide	2&22	Feb-Mar	1	<u>.23</u>	<u>.18</u>	<u>.26</u>	<u>.16</u>
Total				1.29	1.02	1.00	1.12
Combine	25	May-June	1	.31	.25	1.08	3.10

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

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MEXICAN WHEAT, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Returns Per Acre Of Mexican Wheat, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross Receipts, From Production				
Wheat	bushel	\$ 1.39 <u>1/</u>	30	\$41.70
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt	5.00	.60	3.00
Fertilizer (40-20-0)	acre	5.60	1	5.60
Machinery	acre	.68	1	.68
Tractor (2)	hour	1.34	.34	.46
Tractor (3)	hour	.89	.53	.47
Tractor labor	hour	1.65	1.09	1.80
Pickup truck	acre	1.75	.5	.88
Interest on Operating Capital	\$	.08	6.45	.52
Sub-Total, Pre-Harvest				\$13.41
Harvest:				
Custom Combine	acre	4.50	1	\$ 4.50
Custom Haul	cwt	.10	18	1.80
Sub-Total, Harvest				\$ 6.30
Total Variable Cost				\$19.71
3. Income Above Variable Cost				\$21.99
4. Fixed Costs:				
Machinery	acre	1.22	1	\$ 1.22
Tractor (2)	hour	1.55	.34	.53
Tractor (3)	hour	1.36	.53	.72
Land (Cash rent)	acre	15.00	.5	7.50
Pickup Truck (1/2)	acre	1.98	.5	.99
Total Fixed Costs				\$10.96
5. Total Costs				\$30.67
6. Net Returns				\$11.03

1/ 1966-70 Seasons Average Price, Texas Crop and Livestock Reporting Service

MEXICAN WHEAT, DRYLAND, EDWARDS AQUIFER

Estimated Costs And Requirements Per Acre Of Mexican Wheat, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours ^{1/}	Tractor or Machine Hours	Fuel, Oil, Lub., Rep Per Acre	Fixed Costs Per Acre
Shred	3&4	Aug-Nov	1	.16	.13	\$.13	\$.27
Disc	2&8	Aug-Dec	2	.43	.34	.36	.52
Fertilizer	3	Dec	1	.25	.20	-	-
Plant	3&18	Dec-Jan	1	<u>.25</u>	<u>.20</u>	<u>.19</u>	<u>.43</u>
Total				1.09	.87	\$.68	\$1.22

^{1/} Labor hours calculated at 1.25 times tractor hours except where noted by *.

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