

TEXAS RIO GRANDE VALLEY FOREWORD

The enterprise budgets for the Rio Grande Valley are based on yields as shown on form 19000600. Differentiation of farm size between management levels was particularly difficult due to different tenure patterns, climatic conditions and soil resources across the four-county area. In addition, dryland farms are considerably larger than irrigated farms. Taking these factors into consideration, it was decided to base costs for a typical farm on 500 acres and a high level farm at 900 acres.

Little difference was determined in machinery complement between management levels. However, the high level operator generally has more 6-row equipment and implement size is more directly related to tractor size.

Much, if not most, of the difference in yields and overall management is a function of timing and doing things right rather than a difference in land, farm size, machinery complement, etc.

The citrus budgets are based on two primary assumption: (1) The most typical grove in the Rio Grande Valley is a small grove containing both young trees (planted since the 1962 freeze) and old partially freeze-damaged trees, operated under grove care by someone other than the owner. (2) The more productive groves are those which have not received any significant freeze damage and were either developed by the owner or purchased as young groves by the owner. These may be either owner-operated or under grove care. For the sake of time and space the budgets of these groves (from planting to bearing) are based on owner-operator costs only. These budgets are not intended to indicate that good groves are owner-operated and poor groves are under grove care company management.

Citrus budgets were developed for establishment, development and mature bearing groves for orange and grapefruit. Early and late oranges are combined by means of a weighted average.

Vegetable budgets are based upon an average harvested yield over time and a price received as shown footnoted at the bottom of each budget. The period used to determine prices is based on trends in price rather than using an across the board average of "x" numbers of years.

The primary source of irrigation water in the valley area is water sold by irrigation districts delivered to the farm. Water cost varies by district but an estimate of \$2.50 per irrigation (in addition to flat rate and taxes) is used in all budgets. There are some irrigation wells along the Rio Grande River and in some other isolated areas, but well costs are not included.

Taxes are quite variable across the four county area, depending upon county, school district, drainage district, irrigation district, etc. However, taxes are held constant across the area.

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

			Price or		Value or	
Iten	1	Unit	Cost/Unit	Quantity	Cost	
1.	Gross Receipts, From Production:					
	Onions	50# bag	\$ 2.10 <u>1</u> /	450	\$945.00	
2.	Variable Costs:					
	Pre-Harvest:	11	12 50	2.5	\$ 31.25	
	Seed	1b	12.50	1	20.00	
	Fertilizer (100-100-0)	acre	20.00 13.50	1	13.50	
	Herbicide	acre	3.00	1	3.0	
	Insecticide	acre	.85	3	2.5	
	Insecticide Application	acre	8.00	1	8.0	
	Fungicide	acre	1.85	4	7.2	
	Fungicide Application	acre	2.53	4 1	2.5	
	Machinery	acre	1.01	1.07	1.0	
	Tractor (1)	hour	.76	.66	.5	
	Tractor (2)	hour hour	.76 .74	1.35	1.0	
	Tractor (3)	hour	.54	1.00	.5	
	Tractor (4)	hour	1.75	5.09	8.9	
	Tractor Labor	appli	2.50	5	12.5	
	Irrigation Water	acre	1.50	1	1.5	
	Irrigation Equipment	hour	1.30	7.5	9.7	
	Irrigation Labor Other Hand Labor	hour	1.30	10	13.0	
		acre	1.39	1	1.3	
	Pickup Truck Interest on Operating Capital	\$.08	69.10	5.5	
	Sub-Total, Pre-Harvest	Ŷ	.00	07120	\$143.7	
	Harvest:			150	6000 F	
	Harvesting	bag	.45	450	\$202.5	
	Packing	bag	. 80	450	360.0 94.5	
	Selling Sub-Total, Harvest	bag	.21	450	\$657.0	
	Total Variable Costs				\$800.7	
3.	Income Above Variable Costs				\$144.2	
4.	Fixed Costs:					
~ •	Machinery	acre	3.87	1	\$ 3.8	
	Tractor (1)	hour	1.58	1.07	1.6	
	Tractor (2)	hour	1.57	.66	1.0	
	Tractor (3)	hour	1.25	1.35	1.0	
	Tractor (4)	hour	1.05	1.00	1.0	
	Irrigation Equipment	acre	6.50	1	6.	
	Land (Net Rent-1/5) 2/	acre	52.49	1	52.4	
	Pickup Truck	acre	.99	1		
	Total Fixed Costs				\$ 69.3	
5.	Total Costs				\$870.0	
6.	Net Returns				\$ 74.9	
<u>1</u> /	1969-71 Seasons Average Price, Livestock Reporting Sea	1970 Texa	s Vegetable St	atistics, Tex Vegetable Mark	kas Crop an ceting News	
<u>2</u> /	One-fifth of (Gross Income minus	s Harvest	Costs) less 1/	5 of fertili:	zer and	

insecticide.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

ONIONS, IRRIGATED, RIO GRANDE VALLEY

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

				•	-	•
Operation	Item No.	Date Time Over		Tractor or Mach. Hrs.	Fuel, 011, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred	3,14	Jul-Sep 1	.21	.17	\$.16	\$.31
Disc	1,10	Jul-Sep 1	•25	.20	.21	.48
Moldboard Plow	1,5	Jul-Sep .	5.25	.20	• 55	.48
Chisel Plow	1,6	Jul-Sep .	5.21	.17	.17	.17
Disc	1,11	Jul-Sep 2	.31	.25	.25	• 35
Float	1,15	Jul-Sep 1	.31	.25	.17	.40
Bed	2,8	Jul-Sep 1	.15	.12	.07	.07
Fertilize	3	Jul - Sep 1	.25	.20	-	-
Re-Bed	2,8	Jul-Sep 1	.15	.12	.07	.07
Run Middles	3,13	Jul-Sep 1	.16	.13	.11	.17
Plant	2,16	Sep,Nov 1	.31	.25	.19	. 32
Spray Herbicide	2,17	Sep,Nov 1	.21	.17	.10	.13
Cultivate	3,13	Oct-Feb 2	.31	.25	.22	.34
Side Dress Fertilize	3	Oct-Feb 3	.75	.60	_	-
Make Ditches	4,18	Sep-Apr 5	.63	.50	.13	.29
Level Ditches	4,18	Sep-Apr 5	.63	50	13	.29
Total			5.09	4.08	\$2.53	\$3.87
Irrigate	23	Sep-Apr 5	7.50	5.00	1.50	\$6.50
Hand Labor			10.0	-	-	-

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

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ONIONS, IRRIGATED, RIO GRANDE VALLEY

19140122

Estimated Costs And Returns Per Acre Of Onions, Typical Management

Ite	m	Unit	Price or Cost/Unit	Quantity	Value o Cost
1.	Gross Receipts, From Production: Onions	50# bag	\$ 2.10 <u>1</u> /	300	\$630.0
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	1b	12.50	2.5	\$ 31.2
	Fertilizer (80-80-0)	acre	16.00	1	16.0
	Herbicide	acre	10.00	1	10.0
	Insecticide	acre	3.00	1	3.0
	Insecticide Application	acre	.85	3	2.5
	Fungicide	acre	8.00	1	8.0
	Fungicide Application	acre	1.80	4	7.2
	Machinery	acre	2.39	1	2.
	Tractor (1)	hour	.93	1.68	1.
	Tractor (2)	hour	.76	1.44	1.0
	Tractor (4)	hour	.50	1.08	• .
	Tractor Labor	hour	1.75	5.24	9.
	Irrigation Water	appli	2.50	4	10.
	Irrigation Equipment	acre	1.32	1	1.
	Irrigation Labor	hour	1.30	6	7.
	Other Hand Labor	hour	1.30	10	13.
	Pickup Truck	acre	2.00	1	2.
	Interest on Operating Capital Sub-Total, Pre-Harvest	\$.085	63.44	<u>5.</u> \$132.
	Harvest:				
	Harvesting	bag	.45	300	\$135.
	Packing	bag	. 80	300	240.
	Selling	bag	.21	300	63.
	Sub-Total, Harvest				\$438.
	Total Variable Costs				\$570.
3.	Income Above Variable Costs				\$ 59.
4.	Fixed Costs:				
	Machinery	acre	4.49	1	\$ 4.
	Tractor (1)	hour	1.94	1.68	3.
	Tractor (2)	hour	1.60	1.44	2.
	Tractor (4)	hour	1.30	1.08	1.
	Irrigation Equipment	acre	5.36	1	5.
	Land (Net Rent-1/5) 2/	acre	34.09	1	34.
	Pickup Truck Total Fixed Costs	acre	1.58	1	$\frac{1}{52}$.
5.	Total Costs				\$622.
6.	Net Returns				\$ 7.3

 1/ 1969-70 Seasons Average Price, 1970 Texas Vegetable Statistics, Texas Crop and Livestock Reporting Service; Texas Fruit and Vegetable Marketing News.
 2/ One-fifth of (Gross Income minus Harvest Costs) less 1/5 of fertilizer and insecticide.

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ONIONS, IRRIGATED, RIO GRANDE VALLEY

19140121

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

••••••••••				•	••	
Operation	Item No.	Date Time Over		Tractor or Mach. Hrs.	Fuel, 011, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred	4,29	Jul-Sep 1	• 36	.28	\$.1 5	\$.25
Disc	1,27	Jul-Sep 1	.31	.25	.14	. 32
Moldboard Plow	1,25	Jul-Sep .	5.31	.25	• 36	.51
Chisel Plow	1,26	Jul-Sep .	5.41	. 33	.33	.21
Disc	2,28	Jul-Sep 2	• 50	.40	•22	.52
Float	1,15	Jul-Sep 1	.31	.25	.21	.43
Bed	2,8	Jul-Sep 1	.15	.12	.08	.08
Fertilize	1	Jul-Sep 1	.25	.20	-	-
Re-Bed	2,8	Jul-Sep 1	.15	.12	•08	.08
Run Middles	2,13	Jul-Sep 1	.16	.13	.10	.16
Plant	2,16	Sep-Nov 1	.31	.25	.12	.66
Spray Herbicide	2,17	Sep-Nov 1	.21	.17	.12	.25
Cultivate	2,13	Oct-Feb 2	. 31	.25	.20	. 32
Side Dress Fertilize	1	Oct-Feb 2	• 50	.40	-	-
Make Ditches	4,18	Sep-Apr 4	• 50	.40	.14	.35
Level Ditches	4,18	Sep-Apr 4	.50	. 40	.14	.35
Total			5.24	4.20	\$2.39	\$4.49
Irrigate	24	Sep-Apr 4	6.0*	4.0	1.32	\$5.36
land Labor			10.0	-	-	-

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

* Labor hours = 1.5 x Machine hours.

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FORAGE SORGHUM FOR SILAGE, IRRIGATED, RIO GRANDE VALLEY

19090122

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

				Value or		
Ite	m	Unit	Cost/Unit	Quantity	Cost	
1	Crease Provints From Productions					
1.	Gross Receipts, From Production: Sorghum Silage	ton	\$ 4.00	17	\$ 68.00	
	Solghum Silage	LUII	ų 4. 00	17	Ŷ 00.00	
2.	Variable Costs:					
	Pre-Harvest:					
	Seed	1Ь	.22	18	\$ 3.9	
	Fertilizer (100-40-0)	acre	15.20	1	15.20	
	Machinery	acre	1.95	1	1.9	
	Tractor (1)	hour	.93	1.13	1.0	
	Tractor (2)	hour	.76	1.10	.8	
	Tractor (4)	hour	.50	.88	.4	
	Tractor Labor	hour	1.75	3.11	5.4	
	Irrigation Water	appli	2.50	3	7.5	
	Irrigation Equipment	acre	1.00	1	1.0	
	Irrigation Labor	hour	1.30	6	7.8	
	Pickup Truck	acre	2.00	1	2.0	
	Interest on Operating Capital	\$.085	23.59	2.0	
	Sub-Total, Pre-Harvest	•			\$ 49.1	
	Harvest:					
	Sold in Field					
	Total Variable Costs				\$ 49.1	
3.	Income Above Variable Costs				\$ 18.8	
۰.	Fixed Costs:					
	Machinery	acre	3.30	1	\$ 3.3	
	Tractor (1)	hour	1.94	1.13	2.1	
	Tractor (2)	hour	1.60	1.10	1.7	
	Tractor (4)	hour	1.10	.88	1.1	
	Irrigation Equipment	acre	4.02	1	4.0	
	Land (Net Rent-1/4) $1/$	acre	13.20	1	13.2	
	Pickup Truck —	acre	1.58	1	1.5	
	Total Fixed Costs				\$ 27.1	
•	Total Costs				\$ 76.3	
j.	Net Returns				(\$ 8.3	

1/ Landlord pays 1/4 of fertilizer, insecticide, and harvest.

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New, 1972

Estimated Costs, And Requirements Per Acre Of Sorghum 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 Stalks	4,29	Jul-Sep 1	.36	.28	\$.15	\$.25
Disc	1,27	Jul-Sep 1	.31	.25	.14	. 32
Moldboard Pl o w	1,25	Aug-Oct .5	.31	.25	. 36	.51
Chisel Plow	1,26	Aug-Oct .5	.41	. 33	.23	.21
Disc	2,28	Sep-Nov 2	.50	.40	.22	.52
Bed	2,8	Dec 1	.15	.12	.08	.08
Fertilize	1	Dec-Jan l	.25	.20	-	-
Re-Bed	2,8	Dec-Jan 1	.15	.12	.08	.08
Rolling Cultivate	1,7	Feb 1	.13	.10	.12	.12
Plant	2,9	Feb 1.25	.26	.21	.15	.37
Cultivate	2,13	Mar-Apr 2	.31	.25	.20	. 32
Make Ditches	4,18	Mar-May 3	. 38	. 30	.11	.26
Level Ditches	4,18	Mar-May 3	. 38	. 30	.11	26
Total			3.90	3.11	\$1.95	\$3.30
Irrigate	25	Mar-May 3	6.00*	3.00	1.00	\$4.02

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

* Labor hours = 2 x Machine hours.

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FRESH SPRING TOMATOES, IRRIGATED, RIO GRANDE VALLEY

19216112

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Estimated Costs And Returns Per Acre Of Fresh Spring Tomatoes, High Level Management

T+-	-		Price or		Value or
Ite	2m	Unit	Cost/Unit	Quantity	Cost
1.	Gross Receipts, From Production:				
	Tomatoes	40# lug	\$ 4.50 1/	200	<u> </u>
		40# 14g	φ 4. 50 <u>1</u> /	200	\$900.00
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	1Ъ	15.00	1.5	\$ 22.50
	Fertilizer (60-80-0)	acre	13.60	1	13.60
	Herbicide	acre	7.00	1	7.00
	Insecticide	acre	8.00	1	8.00
	Insecticide Application	acre	1.00	4	4.00
	Fungicide	acre	6.00	1	6.00
	Fungicide Application	acre	2.00	4	8.00
	Machinery	acre	2.91	i	2.91
	Tractor (1)	hour	1.01	1.07	1.08
	Tractor (2)	hour	.76	.89	.68
	Tractor (3)	hour	.74	.77	.57
	Tractor (4)	hour	.54	.60	.32
	Tractor Labor	hour	1.75	4.17	7.30
	Irrigation Water	appli	2.50	3	7.50
	Irrigation Equipment	acre	.90	1	.90
	Irrigation Labor	hour	1.30	4.5	5.85
	Other Hand Labor	hour	1.30	5	6.50
	Pickup Truck	acre	1.39	1	1.39
	Interest on Operating Capital	\$.08	52.05	
	Sub-Total, Pre-Harvest	Ŧ	.00	J <u>Z</u> .0J	<u>4.16</u> \$108.26
	Harvest:				\$100.20
	Hand Harvest & Haul	lug	1.20	200	\$240.00
	Packing	lug	1.30	200	\$240.00 260.00
	Selling	lug	.25	200	
	Sub-Total, Harvest	8	• 2 3	200	50.00
	Total Variable Costs				\$550.00
					\$658.26
•	Income Above Variable Costs				\$241.74
•	Fixed Costs:				
	Machinery	acre	4.18	1	\$ 4.18
	Tractor (1)	hour	1.58	1.07	1.69
	Tractor (2)	hour	1.57	. 89	1.40
	Tractor (3)	hour	1.25	.77	.96
	Tractor (4)	hour	1.05	.60	.63
	Irrigation Equipment	acre	3.90	1	3.90
	Land (Net Rent-1/5) 2/	acre	64.88	ī	64.88
	Pickup Truck	acre	.99	ī	.99
	Total Fixed Costs			-	\$ 78.63
	Total Costs				\$736.89
	Net Returns				\$163.11
,	1968-70 Seasons Average Prices,	1970 Texas	Vegetable Sta	tistics, Texa	as Crop and
	Livestock Reporting Serv One-fifth of (Gross Income minus) insecticide.	1ce.			

FRESH SPRING TOMATOES, IRRIGATED, RIO GRANDE VALLEY

19216111

Estimated Costs, And Requirements Per Acre Of Fresh Spring Tomatoes, High Level Management

Operation	Item No.		imes ver	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred	3,14	Jul-Sep	1	.21	.17	\$.16	\$.31
Disc	1,10	Jul-Sep	1	.25	.20	.21	.48
Moldboard Plow	1,5	Aug-Oct	.5	.25	.20	.55	•48
Chisel Plow	1,6	Aug-Oct	.5	.21	.17	.17	.17
Disc	1,11	Aug-Oct	2	.31	.25	.25	• 35
Float	1,15	Aug-Oct	1	. 31	.25	.17	.40
Bed	2,8	Nov-Dec	1	.15	.12	.07	.07
Fertilize	3	Nov-Dec	1	.25	.20	-	-
Re-Bed	2,8	Nov-Dec	1	.15	.12	.07	.07
Spray & Incorporate Herbicide	2,12 &17	Nov-Dec	1	•25	.20	.40	.64
Plant	2,16	Jan-Feb	1	• 31	.25	.19	• 32
Cultivate	3,7	Jan-Mar	1	.13	.10	.10	.10
Side Dress Fertilizer	3	Jan-Mar	1	.25	.20	-	_
Cultivate	3,7	Jan-Mar	1	.13	.10	.10	.10
Spray & Incorporate Herbicide	2,7 &17	Jan-Mar	1	•25	• 20	.31	.35
Make Ditches	4,18	Jan-May	3	.38	• 30	.08	.17
Level Ditches	4,18	Jan-May	3	. 38	.30	.08	.17
Total				4.17	3.33	\$2.91	\$4.18
Irrigate	23	Jan-May	3	4.50*	3.00	•90	3.90
Hand Labor				5.00	-	_	-

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

* Labor hours = 1.5 x Machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

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Estimated Costs	And	Returns	Per	Acre	0f	Fresh	Spring	Tomatoes.	Typical	Management
Estimated Costs	MIG	NELULIIS	TEL	UCIC	OT.	TTCOU	Obrane P	10mu0002,	- J F	0

Item		Unit	Price of Cost/Unit	Quantity	Value or Cost
1. (Gross Receipts, From Production:	101 1	A / FO 1/	150	6675 D
	Tomatoes	40# lug	\$ 4.50 <u>1</u> /	150	\$675.00
2. 1	Variable Costs:				
I	Pre-Harvest:				
	Seed	1b	15.00	1.5	\$ 22.5
	Fertilizer (60-80-0)	acre	13.60	1	13.6
	Herbicide	acre	6.00	1	6.0
	Insecticide	acre	8.00	1	8.0
	Insecticide Application	acre	1.00	4	4.0
	Fungicide	acre	6.00	1	6.0
	Fungicide Application	acre	2.00	4	8.0
	Machinery	acre	2.71	i	2.7
			.93	1.48	1.3
	Tractor (1)	hour		1.44	1.0
	Tractor (2)	hour	.76		
	Tractor (4)	hour	.50	.88	.4
	Tractor Labor	hour	1.75	4.76	8.3
	Irrigation Water	appli	2.50	3.00	7.5
	Irrigation Equipment	acre	1.00	1	1.0
	Irrigation Labor	hour	1.30	4.50	5.8
	Other Hand Labor	hour	1.30	5	6.5
	Pickup Truck	acre	2.00	1	2.0
	Interest on Operating Capital	\$.085	52.45	4.4
	Sub-Total, Pre-Harvest	•			\$109.3
]	Harvest:				
	Hand Harvest & Hawl	1ub	1.20	150	\$180.0
	Packing	1ub	1.30	150	195.0
	Selling	lub	.25	150	37.
	Sub-Total, Harvest				\$412.
•	Total Variable Costs				\$521.8
3.	Income Above Variable Costs				\$153.1
4.	Fixed Costs:				
	Machinery	acre	4.55	1	\$ 4.
	Tractor (1)	hour	1.94	1.48	2.
	Tractor (2)	hour	1.60	1.44	2.
	Tractor (4)	hour	1.30	.88	1.
	Irrigation Equipment	acre	4.02	1	4.
	Land (Net Rent-1/5) 2/	acre	47.38	1	47.
	Pickup Truck	acre	1.58	1	1.
1	Total Fixed Costs		2000	-	\$ 63.
5.	Total Costs				\$585.0
6.	Net Returns				\$ 89.
1/	1968-70 Seasons Average Prices,	1970 Texa	s Vegetable St	atistics, Tex	as Crop a
	Livestock Reporting Serv One-fifth of (Gross Income minus insecticide.	vice.			

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

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FRESH SPRING TOMATOES, IRRIGATED, RIO GRANDE VALLEY

19216121

Estimated Costs, And Requirements Per Acre Of Fresh Spring Tomatoes, Typical Management

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Operation	Item No.	Date Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred	4,29	Jul-Sep 1	. 36	.28	\$.15	\$.25
Disc	1,27	Jul-Sep l	. 31	.25	.14	.32
Moldboard Plow	1,25	Aug-Oct .5	. 31	.25	. 36	.51
Chisel Plow	1,26	Aug-Oct .5	.41	.33	.33	.21
Disc	2,28	Aug-Oct 2	.50	.40	.22	.52
Float	1,15	Aug-Oct 1	.31	.25	.21	.43
Bed	2,8	Nov-Dec 1	.15	.12	.08	.08
Fertilizer	1	Nov-Dec 1	.25	.20	-	-
Re-Bed	2,8	Nov-Dec 1	.15	.12	.08	.08
Spray & Incorporate Herbicide	2,7 &17	Nov-Dec 1	.25	.20	. 38	•54
Plant	2,16	Jan-Feb 1	.31	.25	.12	.66
Cultivate	2,7	Jan-Mar 1	.13	.10	.12	.12
Side Dress Fertilize	1.	Jan-Mar 1	.25	.20	_	-
Cultivate	2,7	Jan-Mar 2	.31	.25	. 30	.31
Make Ditches	4,18	Jan-May 3	. 38	. 30	.11	.26
Level Ditches	4,18	Jan-May 3	. 38	. 30	<u>.11</u>	.26
Total			4.76	3.80	\$2.71	\$4.55
Irrigate	24	Jan-May 3	4.5*	3.0	\$1.00	\$4.02
Hand Labor			5.0	-	-	-

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

* Labor hours = 1.5 x Machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

CITRUS ESTABLISHMENT,	1ST	YEAR.	IRRIGATED.	RIO	GRANDE	VALLEY	19156112

Estimated Costs And Returns Per Acre Of Citrus Establishment, 1st Year, High Level Management

-	Item	Unit	Price or Cost/Unit	Quantity	Value of Cost
1.	No Income				
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (14.5-0-0)	acre	\$ 1.74	1	\$ 1.74
	Trees	tree	1.90	116	220.40
	Herbicides	acre	9.00	1	9.00
	Machinery	acre	.63	1	.63
	Tractor	hour	.52	1.68	.87
	Tractor Labor	hour	1.75	2.09	3.66
	Irrigation Equipment	acre	.40	1	.40
	Irrigation Labor	hour	1.30	2	2.60
	Irrigation Water	acre	5.00	1	5.00
	Custom Services:				
	Land Preparation	acre	15.00	1	15.00
	Tank Watering	tree	.06	1160 1/	69.60
	Banking & Unbanking	tree	.10	116 —	11.60
	Hand Labor	hour	1.30	10	13.00
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap.	\$.08	181.34	14.51
	Subtotal, Pre-Harvest				\$377.18
	Harvest:				
	None				
	Total Variable Costs				\$377.18
	No Income Above Variable Costs				
•	Fixed Costs:				
	Machinery	acre	1.57	1	\$ 1.57
	Tractor	hour	1.27	2.09	2.65
	Irrigation Equipment	acre	6.08	1	6.08
	Pickup Truck	acre	2.97	ī	2.97
	Land Charge	\$.06	600	36.00
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$ 67.27
•	Total Costs				\$444.45
•	Net Returns (Costs)				(\$444.45)

 $\underline{1}/$ 116 trees watered 10 times.

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CITRUS ESTABLISHMENT, 1ST YEAR, IRRIGATED, RIO GRANDE VALLEY 19156111

Estimated Costs And Requirements Per Acre of Citrus Establishment, 1st Year, High Level Management

Operation	ltem No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	
Deep Break		Aug-Se	p 1	Custo	m @ \$7.00 pe	er acre	
Disc		Aug-Se	ep 2	Custo	m @ \$2.00 pe	er acre per	time over
Float		Aug-Se	ep 2	Custo	m @ \$2.00 pe	er acre per	time over
Spray pre- emerge	1,5	Sep	1	. 31	.25	\$.16	\$.24
Disc	1,3	Sep	2	.71	.57	.19	.53
Plant trees (includes trees))	0ct	1	Custo	m @ \$1.90 p	er tree	
Disc	1,3	Oct-Se	ep 3	1.07	. 86	.28	.80
Total				2.09	1.68	\$.63	\$ 1.57
Strip Irrigate	9	May-Au	1g 2	2.00*	2.00	\$.40	\$ 6.08
Tank Irrigate		Nov-Se	ep 10	Contr	act @ \$.06	per tree pe	r time over
Bank and Unbank Trees		Nov-Fe	eb 1	Contr	act @ \$.10	per tree	
Hand Labor		Oct-Se	≥p -	10	-	-	-

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

* Labor hours = Machine hours.

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CITRUS ESTABLISHMENT, 2ND YEAR, IRRIGATED, RIO GRANDE VALLEY 19256112

Estimated Costs And Returns Per Acre Of Citrus Establishment, 2nd Year, High Level Management

-	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	No Income				
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (29-0-0)	acre	\$ 3.48	1	\$ 3.48
	Herbicides	acre	20.00	1	20.00
	Insecticides	acre	15.80	1	15.80
	Machinery	acre	2.94	1	2.94
	Tractor	hour	.52	5.29	2.75
	Tractor Labor	hour	1.75	7.71	13.49
	Irrigation Equipment	acre	1.00	1	1.00
	Irrigation Labor	hour	1.30	6.25	8.13
	Irrigation Water $1/$	acre	17.50	1	17.50
	Hand Labor	hour	1.30	19	24.60
	Tree Replacement	acre	3.00	1	3.00
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap.	\$.08	60.93	4.87
	Subtotal, Pre-Harvest				\$126.73
3.	No Income Above Variable Costs				
	Total Variable Costs				\$126.73
4.	Fixed Costs:				
	Machinery	acre	4.65	1	\$ 4.65
	Tractor	hour	1.27	4.79	6.08
	Irrigation Equipment	acre	15.20	1	15.20
	Pickup Truck	acre	2.97	1	2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 2/	\$.10	444.45	44.45
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$127.35
5.	Total Costs				\$254.08
6.	Net Returns (Costs)				(\$254.08)

 $\frac{1}{2}$ 5 irrigations @ \$2.50 plus \$5.00 for water purchased from another landowner. Interest on money spent in previous years; includes small risk factor.

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CITRUS ESTABLISHMENT, 2ND YEAR, IRRIGATED, RIO GRANDE VALLEY	
Estimated Costs, And Requirements Per Acre of Citrus	
Establishment, 2nd Year, 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
Disc	1,3	Mar	1	. 36	.29	\$.10	\$. 27
Make Borders	1,4	Mar	1	.63	.50	.06	.43
Spray Herbicide	1,5	Mar	1	.63	.50	.31	.47
Spot Spray Herbicide	1,5	May	1	• 50*	.25	.13	.24
Spray Herbicide	1,5	Aug	1	.63	. 50	.31	.47
Shred 1/2 Area	1,6	Mar-Oc	ct 6	2.46	2.00	.64	1.56
Spot Spray Herbicide	1,5	Sep	1	• 50*	.25	.13	.24
Spray Insecticide	1,2	Apr,O	ct 2	2.00*	1.00	1.26	1.94
Total				7.71	5.29	\$ 2.94	\$ 5.62
Irrigate	9	Feb-No	ov 5	6.25	5.00	1.00	15.20
Hand Labor		Annua	1	19.00	-	-	-

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

* Labor hours = 2 x Machine hours.

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GRAPEFRUIT ESTABLISHMENT, 3RD YEAR, IRRIGATED, RIO GRANDE VALLEY 19356112

Estimated Costs And Returns Per Acre Of Grapefruit Establishment, 3rd Year, High Level Management

-	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production:				
	Grapefruit	ton	\$ 37.73	1	\$ 37.73
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (58-0-0)	acre	6.96	1	\$ 6.96
	Herbicides	acre	20.00	ī	20.00
	Insecticides	acre	24.00	ĩ	24.00
	Machinery.	acre	2.83	1	24.00
	Tractor	hour	.52	4.5	2.85
	Tractor Labor	hour	1.75	6.71	11.74
	Irrigation Equipment	acre	1.00	1	1.00
	Irrigation Labor	hour	1.30	5.0	6.50
	Irrigation Water 1/	acre	17.50	1	17.50
	Hand Labor	hour	1.30	19	24.60
	Tree Replacement	acre	3.00	1	3.00
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap.	\$.08	64.82	5.19
	Subtotal, Pre-Harvest	·		04.02	\$134.83
	Harvest:				
	None <u>2</u> /				
	Total Variable Costs				\$134.83
3.	Income Above Variable Costs				(\$ 97.10)
4.	Fixed Costs:				
	Machinery	acre	4.90	1	\$ 4.90
	Tractor	hour	1.27	4.5	5.72
	Irrigation Equipment	acre	15.20	1	15.20
	Pickup Truck	acre	2.97	1	2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 3/	\$.10	698.53	69. 85
	Taxes —	acre	18.00	1	18.00
	Total Fixed Costs				\$152.64
j.	Total Costs				\$287.47
.	Net Returns (Costs)				(\$249.74)

5 irrigations @ \$2.50 plus 5.00 for water purchased from another landowner. $\frac{1}{2}$ Crop sold on tree.

Interest on money spent in previous years; includes small risk factor. 3/

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New, 1972

Establishment, Sid fear, high bever Hanagement									
Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Lub., Per	-	Fixed Per A	
Spray Herbicide	1,5	Mar,A	ug 2	1.25	1.0	\$	62	\$.94
Shred 1/2 Area	1,6	Mar-O	ct 6	2.46	2.0		.64	1	•56
Spot Spray Herbicide	1,5	Mar,0	ct 2	1.00*	.5		. 31		.47
Spray Insecticide	1,2	Apr-0	ct l	<u>2.00</u> *	1.0	<u>1</u>	.26	<u>1</u>	<u>.93</u>
Total				6.71	4.5	\$ 2	. 83	\$4	•90
Irrigate	9	Feb-N	ov 5	5.00	4.0	1	.00	15	.20
Hand Labor	-	Annua	1 -	19.00	-	-		_	

<u>GRAPEFRUIT</u> ESTABLISHMENT, <u>3RD</u> YEAR, <u>IRRIGATED</u>, <u>RIO</u> <u>GRANDE</u> <u>VALLEY</u> 19356111 Estimated Costs And Requirements Per Acre Of Grapefruit Establishment, 3rd Year, High Level Management

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

* Labor hours = 2 x Machine hours.

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GRAPEFRUIT ESTABLISHMENT, 4TH YEAR, IRRIGATED, RIO GRANDE VALLEY

19456112

Estimated Costs And Returns Per Acre Of Grapefruit

Establishment, 4th Year, High Level Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Grapefruit	ton	\$ 37.73	2.5	\$ 94.33
2.	Variable Costs:				, , , , , , , , , , , , , , , , , , , ,
	Pre-Harvest:				
	Fertilizer (87-0-0)	acre	10.44	1	\$ 10.44
	Herbicides	acre	20.00	1	³ 10.44 20.00
	Insecticides	acre	32.00	1	
	Machinery	acre	4.72	1	32.00
	Tractor	hour	.52	6.40	4.72
	Tractor Labor	hour	1.75	10.21	3.33
	Irrigation Equipment	acre	1.00	10.21	17.87
	Irrigation Labor	hour	1.30	6.25	1.00
	Irrigation Water 1/	acre	17.50	1	8.13
	Hand Labor	hour	1.30	19.0	17.50
	Tree Replacement	acre	3.00	19.0	24.60
	Pickup Truck	acre	4.17	1	3.00
	Miscellaneous	acre	5.00	1	4.17
	Interest on Op. Cap.	\$.08	75.88	5.00
	Subtotal, Pre-Harvest	т	.00	13.00	<u>6.07</u> \$157.83
	Harvest:				
	None <u>2</u> /				
	Total Variable Costs				\$157.83
	Income Above Variable Costs				(\$ 63.50)
•	Fixed Costs:				
	Machinery	acre	7.80	1	¢ 7.00
	Tractor	hour	1.27	- 6.40	\$ 7.80
	Irrigation Equipment	acre	15.20	1	8.13
	Pickup Truck	acre	2.97	1	15.20 2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 3/	\$.10	948.27	94.83
	Taxes	acre	18.00	1	
	Total Fixed Costs				\$182.93
•	Total Costs				\$340.76
	Net Returns (Costs)				(\$246.43)

 $\frac{1}{2}$ 5 irrigations @ \$2.50 plus \$5.00 for water purchased from another landowner. $\frac{2}{2}$ Crop sold on tree. $\frac{3}{2}$ Interest on money spent in previous years; includes small risk factor.

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GRAPEFRUIT ESTABLISHMENT, 4TH YEAR, IRRIGATED, RIO GRANDE V	ALLEY 19456111
Estimated Costs And Requirements Per Acre Of Grapefruit	
Establishment, 4th Year, 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
Spray Herbicide	1,5	Mar,Aug 2	1.25	1.00	\$.62	\$.94
Spot Spray Herbicide	1,5	Mar,Oct 2	1.00*	.50	.31	.47
Shred 1/2 Area	1,6	Mar-Oct 6	2.46	2.00	.64	1.56
Spray Insecticide	1,2	Apr-Oct 2.5	5.00*	2.50	3.15	4.83
Fertilize	1	Jan-Feb 1	5	. 40		
Total			10.21	6.40	\$ 4.72	\$ 7.80
Irrigate	9	Feb-Nov 5	6.25	5.0	1.00	15.20
Hand Labor	-	Annual -	19.00	-	-	-

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

* Labor hours = 2 x Machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

GRAPEFRUIT, DEVELOPED GROVE, IRRIGATED, RIO GRANDE VALLEY

19105112

Estimated Costs And Returns Per Acre Of Grapefruit, Developed Grove, High Level Management

	Ltem	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Grapefruit	ton	\$ 37.73	20	\$754 . 60
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (116-0-0)	acre	13.92	1	\$ 13.92
	Herbicides	acre	20.00	1	20.00
	Insecticides	acre	32.00	1	32.00
	Machinery	acre	4.72	1	4.72
	Tractor	hour	.52	6.4	3.33
	Tractor Labor	hour	1.75	10.21	17.87
	Irrigation Equipment	acre	1.00	1	1.00
	Irrigation Water 2/	acre	17.50	1	17.50
	Irrigation Labor	hour	1.30	6.25	8.13
	Hand Labor	hour	1.30	10.0	13.00
	Pickup Truck	acre	4.17	1	4.17
	Tree Replacement	acre	3.00	ī	3.00
	Miscellaneous	acre	5.00	ī	5.00
	Interest on Op. Cap.	\$.08	71.82	5.75
	Subtotal, Pre-Harvest	Ŧ		-	\$149.39
	Harvest: None <u>1</u> /				
	Total Variable Costs				\$149.39
3.	Income Above Variable Costs				\$605.21
4.	Fixed Costs:				
	Machinery	acre	7.80	1	\$ 7.80
	Tractor	hour	1.27	6.4	8.13
	Irrigation Equipment	acre	15.20	1	15.20
	Pickup Truck	acre	2.97	1	2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 3/	\$.10	597.35 4	
	Depreciation on Grove	\$.05	1194.70	59.73
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$207.57
5.	Total Costs				\$356.96
	Net Returns				\$397.64

 $\frac{1}{2}/\frac{3}{4}/\frac{3}{4}$ 5 irrigations @ \$2.50 plus \$5.00 for water purchased from another landowner.

Interest on money spent in previous years; includes small risk factor. Average of 1/2 of total over life of grove.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

<u>GRAPEFRUIT</u>, <u>DEVELOPED</u> <u>GROVE</u>, <u>IRRIGATED</u>, <u>RIO</u> <u>GRANDE</u> <u>VALLEY</u> Estimated Costs And Returns Per Acre Of Grapefruit, Developed Grove, High Level Management

Operation	ltem No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, 011, Lub., Rep. Per Acre	Fixed costs Per Acre
Spray Herbicide	1,5	Mar,Au	ug 2	1.25	1.0	\$.62	\$.94
Shred 1/2 Area	1,6	Mar-0	ct 6	2.46	2.0	.64	1.56
Spot Spray Herbicide	1,5	Mar,0	ct 2	1.00*	• .5	. 31	.47
Spray Insecticide	1,2	Apr-0	ct 2.5	5.00*	* 2.5	3.15	4.83
Fertilize	1	Jan-F	eb 1	.50	.4		
Total				10.21	6.4	\$ 4.72	\$ 7.80
Irrigate	9	Feb-N	ov 5	6.25	5.0	1.00	15.20
Hand Labor	-	Annua	1	1.0	-	-	-

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

* Labor hours = 2 x Machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

ORANGES ESTABLISHMENT, 3RD YEAR, IRRIGATED, RIO GRANDE VALLEY

Estimated Costs And Returns Per Acre Of Oranges Establishment, 3rd Year, High Level Management

Value or Price or Item Unit Quantity Cost/Unit Cost 1. Gross receipts, from production: Oranges \$ 29.26 ton .7 \$ 20.48 2. Variable Costs: Pre-Harvest: Fertilizer (58-0-0) 6.96 6.96 acre 1 Ŝ Herbicides 20.00 1 20.00 acre Insecticides 24.00 1 24.00 acre Machinery 2.83 1 acre 2.83 Tractor .52 4.5 hour 2.34 Tractor Labor hour 1.75 6.71 11.74 Irrigation Equipment acre 1.00 1 1.00 Irrigation Labor 1.30 5.0 hour 6.50 Irrigation Water 1/ acre 17.50 1 17.50 Hand Labor 1.30 19 hour 24.60 Tree Replacement acre 3.00 1 3.00 Pickup Truck 1 acre 4.17 4.17 Miscellaneous 5.00 1 5.00 acre Interest on Op. Cap. Ş .08 64.82 5.19 Subtotal, Pre-Harvest \$134.83 Harvest: None 2/ Total Variable Costs \$134.83 3. Income Above Variable Costs (\$114.35) 4. Fixed Costs: Machinery acre 4.90 1 Ŝ 4.90 Tractor 1.27 4.5 hour 5.72 Irrigation Equipment 15.20 acre 1 15.20 Pickup Truck 2.97 1 acre 2.97 Land Charge \$.06 600 36.00 \$ Interest on Investment 3/ .10 698.53 69.85 Taxes 18.00 acre 1 18.00 Total Fixed Costs \$152.64 5. Total Costs \$287.47 6. Net Returns (Costs) (\$266.99)

 $\frac{1}{2}$ 5 irrigations @ \$2.50 plus \$5.00 for water purchased from another landowner. $\frac{2}{2}$ Crop sold on tree.

 $\frac{3}{2}$ Interest on money spent in previous years; includes small risk factor.

ORANGES ESTABLISHMENT, 3RD YEAR, IRRIGATED, RIO GRANDE VALLEY Estimated Costs, And Requirements Per Acre Of Oranges Establishment, 3rd Year, High Level Management

Operation	Item No.	Date Time Over	- HOUTS	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Spray Herbicide	1,5	Mar-Aug 2	1.25	1.0	\$.62	\$.94
Shred 1/2 Area	1,6	Mar-Oct 6	2.46	2.0	.64	1.56
Spot Spray Herbicide	1,6	May-Oct 2	1.00*	* . 5	.31	.47
Spray Insecticide	1,2	Apr-Oct 1	2.00	* <u>1.0</u>	1.26	1.93
Total			6.71	4.5	\$ 2.83	\$ 4.90
Irrigate	9	Feb-Nov 5	5.0	4.0	\$ 1.00	\$15.20
Hand Labor		Annual	19.0	-	-	-

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

* Labor hours = 2 x machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

ORANGES ESTABLISHMENT, 4TH YEAR, IRRIGATED, RIO GRANDE VALLEY

19656112

Estimated Costs And Returns Per Acre Of Oranges Establishment, 4th Year, High Level Management

	ltem	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Oranges	ton	\$ 29.26	1.2	\$ 35.11
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (87-0-0)	acre	10.44	1	\$ 10.44
	Herbicides	acre	20.00	1	20.00
	Insecticides	acre	32.00	1	32.00
	Machinery	acre	4.72	1	4.72
	Tractor	hour	.52	6.40	3.33
	Tractor Labor	hour	1.75	10.21	17.87
	Irrigation Equipment	acre	1.00	1	1.00
	Irrigation Labor	hour	1.30	6.25	8.13
	Irrigation Water <u>1</u> /	acre	17.50	1	17.50
	Hand Labor	hour	1.30	19.0	24.60
	Tree Replacement	acre	3.00	1	3.00
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap. Subtotal, Pre-Harvest	\$.08	75.88	<u>6.07</u> \$157.83
	Harvest:				
	None <u>2</u> /				
	Total Variable Costs				\$157.83
3.	Income Above Variable Costs				(\$122.72)
4.	Fixed Costs:				
	Machinery	acre	7.80	1	\$ 7.80
	Tractor	hour	1.27	6.40	8.13
	Irrigation Equipment	acre	15.20	1	15.20
	Pickup Truck	acre	2.97	1	2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 3/	\$.10	965.52	96.55
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$184.65
5.	Total Costs				\$342.48
6.	Net Returns (Costs)				(\$307.37)

5 irrigations @ \$2.50 plus \$5.00 for water purchased from another landowner. 1/ $\frac{\overline{2}}{3}$ Crop sold on tree.

Interest on money spent in previous years; includes small risk factor.

ORANGES	ESTABLISHMENT,	4TH YEAR,	IRRIGATED,	RIO	GRANDE V	JALLEY

Estimated	Costs,	And	Requir	ements	Per	Acre	Of	Oranges	
Establi	lshment,	, 4th	Year,	High 1	Level	Mana	agem	ent	

Operation	Item No.	llato '	Cimes Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Spray Herbicide	1,5	Mar-Aug	; 2	1.25	1.00	\$.62	\$.94
Spot Spray Herbicide	1,5	Mar-Oct	: 2	1.00*	• .50	.31	.47
Shred 1/2 Area	1,6	Mar-Oci	: 6	2.46	2.00	.64	1.56
Spray Insecticide	1,2	Apr-Oct	2.5	5.00*	2.50	3.15	4.83
Fertilize	1	Jan-Fel) 1	50	40		
Total				10.21	6.40	\$ 4.72	\$ 7.80
Irrigate	9	Feb-Nov	7 5	6.25	5.0	\$ 1.00	\$15.20
Hand Labor		Annual		19.0	-	-	_

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
* Labor hours = 2 x machine hours.

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Estimated Costs And Returns Per Acre Of Oranges, Developed Grove, High Level Management

. .	ltem	Unit	Price or Cost/Unit	Quantity	Value of Cost
1.	Gross receipts, from production:				
	Oranges	ton	\$ 29.26	12	\$351.12
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (116-0-0)	acre	13.92	1	\$ 13.92
	Herbicides	acre	20.00	1	20.00
	Insecticides	acre	32.00	1	32.00
	Machinery	acre	4.72	1	4.72
	Tractor	hour	.52	6.4	3.33
	Tractor Labor	hour	1.75	10.21	17.87
	Irrigation Equipment	acre	1.00	1	1.00
	Irrigation Water $1/$	acre	17.50	1	17.50
	Irrigation Labor	hour	1.30	6.25	8.13
	Hand Labor	hour	1.30	10.0	13.00
	Pickup Truck	acre	4.17	1	4.17
	Tree Replacement	acre	3.00	1	3.00
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap. Subtotal, Pre-Harvest	\$.08	71.82	<u>5.75</u> \$149.39
	Harvest: None <u>2</u> /				
	Total Variable Costs				\$149.39
3.	Income Above Variable Costs				\$201.76
4.	Fixed Costs:				
	Machinery	acre	7.80	1	\$ 7.80
	Tractor	hour	1.27	6.4	8.13
	Irrigation Equipment	acre	15.20	1	15.20
	Pickup Truck	acre	2.97	1	2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 3/	\$.10	636.45 <u>4</u>	
	Depreciation on Grove	\$.05	1272.89	63.65
	Taxes	acre	18.00	1	<u>s</u> 18.00
	Total Fixed Costs				\$215.40
					60C/ 70
5.	Total Costs				\$364.79

 $\frac{1}{2}$ / Crop sold on tree.

 $[\]frac{\overline{3}}{4}$ Interest on money spent in previous years; includes small risk factor.

Average of 1/2 of total over life of grove.

ORANGES, DEVELOPED GROVE, IRRIGATED, RIO GRANDE VALLEY

19145111

Of Or	anges,	Develope	ed Grov	ve, High	Level Manag	gement	
Operation	Item No.	пате	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Spray Herbicide	1,5	Mar-Aug	g 2	1.25	1.00	\$.62	\$.94
Shred 1/2 Area	1,6	Mar-Oct	6	2.46	2.00	.64	1.56
Spot Spray Herbicide	1,5	Mar-Oct	: 2	1.00*	. 50	.31	.47
Spray Insecticide	1,2	Apr-Oct	2.5	5.00*	2.50	3.15	4.83
Fertilize	1	Jan-Feb	1	.50	40		
Total				10.21	6.40	\$ 4.72	\$ 7.80
Irrigate	9	Feb-Nov	· 5	6.25	5.00	\$ 1.00	\$15.20
Hand Labor		Annual	1	10.00	-		_

Estimated Costs, And Requirements Per Acre Of Oranges, Developed Grove, High Level Management

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
* Labor hours = 2 x machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

CITRUS ESTABLISHMENT, 1ST YEAR, IRRIGATED, RIO GRANDE VALLEY

19156122

Estimated Costs And Returns Per Acre Of Citrus Establishment, 1st Year, Typical Management

-	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	No Income				
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (14.5-0-0)	acre	\$ 1.74	.1	\$ 1.74
	Trees	tree	1.90	116	220.40
	Machinery	acre	.76	1	.76
	Tractor	hour	.52	2.31	1.20
	Tractor Labor	hour	1.75	2.89	5.06
	Custom Services:			,	5.00
	Land Preparation	acre	15.00	1	15.00
	Tank Watering	tree	.06	1160 1/	69.60
	Bank & Unbank	tree	.10	116	11.60
	Hand Labor	hour	1.30	15	19.50
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	ī	5.00
	Interest on Op. Cap.	\$.085	177.02	15.03
	Subtotal, Pre-Harvest				\$369.07
	Harvest:				
	None				
	Total Variable Costs				\$369.07
3.	No Income Above Variable Costs				
4.	Fixed Costs:				
	Machinery	acre	2.14	1	\$ 2.14
	Tractor	hour	1.27	2.31	2.93
	Pickup Truck	acre	2.97	1	2.95
	Land Charge	\$.06	600	36.00
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$ 62.04
5.	Total Costs				\$431.11
6.	Net Returns (Costs)				(\$431.11)

1/ 116 trees watered 10 times.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

CITRUS	ESTABLISHMENT,	1ST	YEAR.	IRRIGATED.	RTO	GRANDE V	VALLEY	

Estimated Costs And Requirements Per Acre of Citrus Establishment, 1st Year, Typical Management

Operation	Item No.	Date Times Over	Labor Hours Tractor or (1) Fuel, Oil, Lub., Rep. Fixed costs Per Acre
Deep Break		Aug-Sep 1	Custom @ \$7.00 per acre
Disc		Aug-Sep 2	Custom @ \$2.00 per acre per time over
Float		Aug-Sep 2	Custom @ \$2.00 per acre per time over
Disc	1,3	Sep 2	.83 .66 \$.22 \$.61
Plant Trees (includes trees))	0ct 1	Custom @ \$1.90 per tree
Disc	1,3	Oct-Sep 5	<u>2.06 1.65 .54 1.53</u>
Total			2.89 2.31 \$.76 \$ 2.14
Tank Irrigate		Nov-Sep 10	Contract @ \$.06 per tree per time over
Bank and Unbank		Nov-Feb 1	Contract @ \$.10 per tree
Hand Labor		Oct-Sep	15.00

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

* Labor hours = 2 x Machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

CITRUS ESTABLISHMENT, 2ND YEAR, IRRIGATED, RIO GRANDE VALLEY 19256122

Estimated Costs And Returns Per Acre Of Citrus Establishment, 2nd Year, Typical Management

	ltem	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	No Income				
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (29-0-0)	acre	\$ 3.48	1	\$ 3.48
	Insecticide	acre	7.90	1	7.90
	Machinery	acre	2.92	1	2.92
	Tractor	hour	. 52	5.65	2.94
	Tractor Labor	hour	1.75	8.01	14.02
	Irrigation Equipment	acre	1.50	1	1.50
	Irrigation Labor	hour	1.30	12.0	15.60
	Irrigation Water $1/$	acre	7.50	1	7.50
	Hand Labor	hour	1.30	24	31.10
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap.	\$.085	48.07	4.09
	Subtotal, Pre-Harvest				\$100.23
	Harvest:				
	None				
	Total Variable Costs				\$100.23
3.	No Income Above Variable Costs				
4.	Fixed Costs:				
	Machinery	acre	5.65	1	\$ 5.65
	Tractor	hour	1.27	5.65	7.18
	Irrigation Equipment	acre	6.90	1	6.90
	Pickup Truck	acre	2.97	1	2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 2/	\$.10	431.11	43.11
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$119.81
5.	Total Costs				\$220.04
6.	Net Returns (Costs)				(\$220.04

1/3 irrigations @ \$2.50.

 $\overline{2}$ / Interest on money spent in previous years, includes small risk factor.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

CITRUS ESTABLISHMENT,	2ND YEAR,	IRRIGATED,	RIO GRA	NDE VALLEY	192
Estimated Costs,	And Require	ments Per A	Acre Of	Citrus	

Establishment, 2nd Year, 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
Disc	1,3	Mar-Nov 5	2.06	1.65	\$.54	\$ 1.53
Border	1,7	Feb-Nov 4	1.25	1.00	.31	.43
Level Borders	1,4	Feb-Nov 4	1.25	1.00	.12	. 86
Tree Hoe	1,8	Feb-Nov 4	1.25	1.00	.69	.90
Spray Insecticide	1,2	Apr-Oct 1.0	<u>2.00</u>	* <u>1.00</u>	1.26	<u>1.93</u>
Total			8.01	5.65	\$ 2.92	\$ 5.65
Irrigate	10	Feb-Nov 3	12.00	* 6.0	\$1.50	\$ 5.90
Hand Labor		annual	24.0			

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

* Labor hours = 2 x Machine hours.

2

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

ESTABLISHMENT, 3RD YEAR, IRRIGATED, RIO GRANDE VALLEY GRAPEFRUIT 19356122

Estimated	Costs	And]	Returns	Per	Acre	0f	Grapefruit
Establ:	ishment	:, 3ra	i Year,	Typi	Lcal 1	lana	agement

	Item	Unit	Price or Cost/Unit	Quantity	Value of Cost
1.	Gross receipts, from production:				
	Grapefruit	ton	-	None	-
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (58-0-0)	acre	\$ 6.96	1	\$ 6.96
	Insecticide	acre	16.00	1	16.00
	Machinery	acre	4.18	1	4.18
	Tractor	hour	.52	6.65	3.46
	Tractor Labor	hour	1.75	9.81	17.17
	Irrigation Equipment	acre	1.50	1	1.50
	Irrigation Labor	hour	1.30	12.00	15.60
	Irrigation Water 1/	acre	7.50	1	7.50
	Hand Labor	hour	1.30	24.0	31.10
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	i	5.00
	Interest on Op. Cap.	\$.085	56.32	4.79
	Subtotal, Pre-Harvest	T	.005	JU • JZ	\$117.43
	Harvest:				
	None				
	Total Variable Costs				\$117.43
3.	No Income Above Variable Costs				3
4.	Fixed Costs:				
	Machinery	acre	7.58	1	¢ 7 50
	Tractor	hour	1.27	1 6.65	\$ 7.58
	Irrigation Equipment	acre	6.90	1	8.45
	Pickup Truck	acre	2.97	1	6.90
	Land Charge	\$.06	600	2.97
	Interest on Investment 2/	\$.10	651.15	36.00
	Taxes	acre	18.00	1	65.12 18.00
	Total Fixed Costs				\$145.02
5.	Total Costs				\$262.45
5.	Net Returns (Costs)				

 $\frac{1}{2}$ 3 irrigations @ \$2.50.

Interest on money spent in previous years, includes small risk factor.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

Establishment, 3rd Year, Typical Management							
Operation	Item No.	Date Times Over	HOUTE	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre	
Disc	1,3	Mar-Nov 5	2.06	1.65	\$.54	\$ 1.53	
Border	1,7	Feb-Nov 4	1.25	1.00	.31	.43	
Level Borders	1,4	Feb-Nov 4	1.25	1.00	.12	. 86	
Tree Hoe	1,8	Feb-Nov 4	1.25	1.00	.69	.90	
Spray Insecticide Total	1,2	Apr-Oct 2	<u>4.00</u> * 9.81	<u>2.00</u> 6.65	<u>2.52</u> \$ 4.18	<u>3.86</u> \$ 7.58	
Irrigate	10	Feb-Nov 3	12.00*		\$ 1.50	\$ 6.90	
Hand Labor		Annual	24.0	_	-	_	

<u>GRAPEFRUIT ESTABLISHMENT</u>, <u>3RD YEAR</u>, <u>IRRIGATED</u>, <u>RIO GRANDE VALLEY</u> 19356121 Estimated Costs, And Requirements Per Acre Of Grapefruit Establishment, <u>3rd Year</u>, Typical Management

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

* Labor hours = 2 x Machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

GRAPEFRUIT ESTABLISHMENT, 4TH YEAR, IRRIGATED, RIO GRANDE VALLEY

Estimated Costs And Returns Per Acre Of Grapefruit

Establishment, 4th Year, Typical Management

. <u>.</u>	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Grapefruit	ton	\$ 34.30	1.25	\$ 42.88
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (87-0-0)	acre	10.44	1	\$ 10.44
	Insecticide	acre	44.00	1	44.00
	Machinery	acre	6.07	1	6.07
	Tractor	hour	.52	8,55	4.45
	Tractor Labor	hour	1.75	13.31	23.29
	Irrigation Equipment	acre	1.50	1	1.50
	Irrigation Labor	hour	1.30	12.00	15.60
	Irrigation Water 1/	acre	7.50	1	7.50
	Hand Labor	hour	1.30	24.0	31.10
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap.	\$.085	76.56	6.5
	Subtotal,Pre-Harvest				\$159.63
	Harvest:				
	None <u>2</u> /				
	Total Variable Costs				\$159.63
3.	Income Above Variable Costs				(\$116.75
4.	Fixed Costs:				
	Machinery	acre	10.48	1	\$ 10.48
	Tractor	hour	1.27	8.15	10.3
	Irrigation Equipment	acre	6.90	1	6.9
	Pickup Truck	acre	2.97	1	2.9
	Land Charge	\$.06	600	36.00
	Interest on Investment <u>3</u> /	\$.10	913.60	91.3
	Taxes	acre	18.00	1	
	Total Fixed Costs				\$176.0
5.	Total Costs				\$335.69
6.	Net Returns (Costs)				(\$292.8

 $\frac{1}{2}$ 5 irrigations @ \$2.50 plus \$5.00 for water purchased from another landowner.

2/ Crop sold on tree. 3/ Interest on money sp

 $\overline{3}$ / Interest on money spent in previous years; includes small risk factor.

GRAPEFRUIT ESTABLISHMENT, 4TH YEAR, IRRIGATED, RIO GRANDE VALLEY	19456121
Estimated Costs, And Requirements Per Acre Of Graperruit	
Establishment, 4th Year, 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
Disc	1,3	Mar-Nov 5	2.06	1.65	\$.54	\$ 1.53
Border	1,7	Feb-Nov 4	1.25	1.00	.31	.43
Level Borders	1,4	Feb-Nov 4	1.25	1.00	.12	.86
Tree Hoe	1,8	Feb-Nov 4	1.25	1.00	.69	.90
Spray Insecticide	1,2	Apr-Oct 3.5	7.00	* 3.50	4.41	6.76
Fertilize	1	Jan-Feb 1.0	.50	. 40	<u> </u>	
Total			13.31	8.55	\$ 6.07	\$10.48
Irrigate	10	Feb-Nov 3	12.00	* 6.00	\$ 1.50	\$ 6.90
Hand Labor		Annual	24.00			

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

* Labor hours = 2 x Machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

Estimated Costs And Returns Per Acre Of Grapefruit, Developed Grove, Typical Management

	ltem	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Grapefruit	ton	\$ 34.30	16	\$548.80
2.	Variable Costs:				
	Pre-Harvest: Fertilizer (116-0-0) Insecticide Machinery Tractor · Tractor Labor Irrigation Equipment Irrigation Labor Irrigation Water <u>1</u> / Hand Labor Pickup Truck Miscellanous Interest on Op. Cap.	acre acre hour hour acre hour acre hour acre acre \$	13.92 44.00 6.07 .52 1.75 1.50 1.30 7.50 1.30 4.17 5.00 .085	1 1 8.55 13.31 1 12.00 1 15.00 1 1 72.50	$ \begin{array}{c} \$ 13.92 \\ 44.00 \\ 6.07 \\ 4.45 \\ 23.29 \\ 1.50 \\ 15.60 \\ 7.50 \\ 19.50 \\ 4.17 \\ 5.00 \\ 6.16 \\ \end{array} $
	Subtotal, Pre-Harvest Harvest: None <u>2</u> / Total Variable Costs				\$151.16
3.	Income Above Variable Costs				\$397.64
4.	Fixed Costs: Machinery Tractor Irrigation Equipment Pickup Truck Land Charge Interest on Investment <u>3</u> / Depreciation on Grove Taxes	acre hour acre acre \$ \$ \$ acre	10.48 1.27 6.90 2.97 .06 .10 .05 18.00	$ \begin{array}{r} 1\\ 8.15\\ 1\\ 1\\ 600\\ 603.21\\ 1206.41\\ 1 \end{array} $	\$ 10.48 10.35 6.90 2.97 36.00 60.32 60.32 18.00
	Total Fixed Costs				\$205.34
5.	Total Costs				\$356.50
6.	Net Returns				\$192.30

1/ 5 irrigations @ \$2.50 plus \$5.00 for water purchased from another landowner.

Crop sold in tree.

 $\frac{\overline{2}}{\overline{3}}$ Interest on money spent in previous years; includes small risk factor.

4/ Average of 1/2 of total over life of grove.

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19105121

GRAPEFRUIT, DEVELOPED GROVE, IRRIGATED, RIO GRANDE VALLEY
Estimated Costs And Returns Per Acre Of Grapefruit,
Developed Grove, 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
Disc	1,3	Mar-Nov 5	2.06	1.65	\$ _54	\$ 1.53
Border	1,7	Feb-Nov 4	1.00	1.00	.31	.43
Level Borders	1,4	Feb-Nov 4	1.00	1.00	.12	• 86
Tree Hoe	1,8	Feb-Nov 4	1.00	1.00	.69	.90
Spray Insecticide	1,2	Apr-Oct 3.5	7.00*	3.50	4.41	6.76
Fertilize	1	Jan-Feb 1.0	.50	. 40		_
Total			13.51	8.55	\$ 6.07	\$10.48
Irrigate	10	Feb-Nov 3	12.00*	6.00	\$ 1.50	\$ 6.90
Hand Labor		Annual	15.00			

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

* Labor hours = 2 x Machine hours.

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ORANGES ESTABLISHMENT, 3RD YEAR, IRRIGATED, RIO GRANDE VALLEY 19556122 Estimated Costs And Returns Per Acre Of Oranges Establishment, 3rd Year, Typical Management

	ltem	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Oranges	ton	-	None	_
2.	Variable Costs:				
	Pre-Harvest: Fertilizer (58-0-0) Insecticide Machinery Tractor Tractor Labor Irrigation Equipment Irrigation Labor Irrigation Water <u>1</u> / Hand Labor Pickup Truck Miscellaneous Interest on Op. Cap. Subtotal, Pre-Harvest	acre acre hour hour acre hour acre hour acre acre \$	\$ 6.96 16.00 4.18 .52 1.75 1.50 1.30 7.50 1.30 4.17 5.00 .085	1 1 6.65 9.81 1 12.00 1 24.0 1 1 56.32	$\begin{array}{c} \$ & 6.96 \\ 16.00 \\ 4.18 \\ 3.46 \\ 17.17 \\ 1.50 \\ 15.60 \\ 7.50 \\ 31.10 \\ 4.17 \\ 5.00 \\ 4.79 \\ \$117.43 \end{array}$
	Harvest: None Total Variable Costs				\$117.43
3.	No Income Above Variable Costs				
4.	Fixed Costs: Machinery Tractor Irrigation Equipment Pickup Truck Land Charge Interest on Investment <u>2</u> / Taxes Total Fixed Costs	acre hour acre acre \$ \$ acre	7.58 1.27 6.90 2.97 .06 .10 18.00	1 6.65 1 1 600 651.15 1	\$ 7.58 8.45 6.90 2.97 36.00 65.12 18.00 \$145.02
5.	Total Costs				\$262.45
6.	Net Returns (Costs)				\$262.45

 $\frac{1}{2}$ 3 irrigation @ \$2.50.

Interest on money spent in previous years; includes small risk factor.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

<u>New, 1972</u>

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ORANGES	ESTABLISHMENT,	3rd	YEAR.	IRRIGATED.	RIO	GRANDE	VALLEY

19556121

Estimated Costs	, And Re	quirements	Per Acre	of Oranges
Establishm	ent, 3rd	Year, Typ:	ical Mana	igement

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Disc	1,3	Mar-No	v 5	2.06	1.65	\$.54	\$ 1.53
Border	1,7	Feb-No	v 4	1.25	1.00	.31	.43
Level Borders	1,4	Feb-No	v 4	1.25	1.00	.12	.86
Tree Hoe	1,8	Feb-No	v 4	1.25	1.00	.69	.90
Spray Insecticide	1,2	Apr-Oc	t 2	4.00*	2.00	2.52	3.86
Total				9.81	6.65	\$ 4.18	\$ 7.58
Irrigate	10	Feb-No	v 3	12.00*	6.00	\$ 1.50	\$ 6.90
Hand Labor		Annual		24.0	-	-	-

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

* Labor hours = 2 x machine hours.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

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ORANGES ESTABLISHMENT, 4TH YEAR, IRRIGATED, RIO GRANDE VALLEY

19656122

Estimated Costs And Returns Per Acre Of Oranges Establishment, 4th Year, Typical Management

• •	ltem	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Oranges	ton	\$ 26.60	. 8	\$ 21.28
2.	Variable Costs:				
	Pre-Harvest:				
	Fertilizer (87-0-0)	acre	10.44	1	\$ 10.44
	Insecticide	acre	44.00	1	44.00
	Machinery	acre	6.07	1	6.07
	Tractor	hour	.52	8.55	4.45
	Tractor Labor	hour	1.75	13.31	23.29
	Irrigation Equipment	acre	1.50	1	1.50
	Irrigation Labor	hour	1.30	12.00	15.60
	Irrigation Water $1/$	acre	7.50	1	7.50
	Hand Labor	hour	1.30	24.0	31.10
	Pickup Truck	acre	4.17	1	4.17
	Miscellaneous	acre	5.00	1	5.00
	Interest on Op. Cap. Subtotal, Pre-Harvest	\$.085	76.56	<u>6.51</u> \$159.63
	Harvest:				
	None <u>2</u> /				
	Total Variable Costs				\$159.63
3.	Income Above Variable Costs				(\$138.35)
4.	Fixed Costs:				
	Machinery	acre	10.48	1	\$ 10.48
	Tractor	hour	1.27	8.15	10.35
	Irrigation Equipment	acre	6.90	1	6.90
	Pickup Truck	acre	2.97	1	2.97
	Land Charge	\$.06	600	36.00
	Interest on Investment 3/	\$.10	913.60	91.36
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$176.06
5.	Total Costs				\$335.69
6.	Net Returns (Costs)				(\$314.41)

3 irrigations @ \$2.50. 1/

 $\frac{\overline{2}}{3}$ Crop sold on tree.

Interest on money spent in previous years; includes small risk factor.

New, 1972

Cooperative Extension Work in Agriculture and Home Economics, Texas A&M University and the United States Department of Agriculture cooperating. Distributed in furtherance of the Acts of Congress of May 8, 1914, as amended, and June 30, 1914. AECO 6 ORANGES ESTABLISHMENT, 4TH YEAR, IRRIGATED, RIO GRANDE VALLEY

Estimated Costs, And Requirements Per Acre Of Oranges Establishment, 4th Year, Typical Management Labor Fuel, Oil, Fixed costs Times Tractor or Item Lub., Rep. Hours Date Operation Per Acre **Over** Mach. Hrs. No. Per Acre (1) 1,3 Mar-Nov 5 2.06 1.65 Ŝ .54 \$ 1.53 Disc Border 1,7 1.25 1.00 .31 .43 Feb-Nov 4 .12 .86 Level Borders 1,4 1.25 1.00 Feb-Nov 4 .69 Tree Hoe 1,8 4 1.25 1.00 .90 Feb-Nov Spray Insecticide 1,2 Apr-Oct 3.5 7.00* 3.50 4.41 6.76 1 Fertilize Jan-Feb 1 .50 .40 -----Total 13.31 8.55 \$ 6.07 \$10.48 10 Feb-Nov 3 12.00* 6.00 \$ 1.50 \$ 6.90 Irrigate

24.00

Annual

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

* Labor hours = 2 x machine hours.

Hand Labor

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19656121

ORANGES, DEVELOPED GROVE, IRRIGATED, RIO GRANDE VALLEY

19145122

Estimated Costs And Returns Per Acre Of Oranges, Developed Grove, Typical Management

-	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Oranges	ton	\$ 26.60	9	\$239.40
2.	Variable Costs:				
	Pre-Harvest: Fertilizer (116-0-0) Insecticide Machinery Tractor Tractor Labor Irrigation Equipment Irrigation Labor Irrigation Water <u>1</u> / Hand Labor Pickup Truck	acre acre hour hour acre hour acre hour acre	13.92 44.00 6.07 .52 1.75 1.50 1.30 7.50 1.30 4.17	1 1 8.55 13.31 1 12.00 1 15.00	\$ 13.92 44.00 6.07 4.45 23.29 1.50 15.60 7.50 19.50
	Miscellaneous Interest on Op. Cap. Subtotal, Pre-Harvest	acre \$	4.17 5.00 .085	1 1 72.50	4.175.006.16\$151.16
	Harvest: None <u>2</u> /				
	Total Variable Costs				\$151.16
3.	Income Above Variable Costs				\$ 88.24
4.	Fixed Costs: Machinery Tractor Irrigation Equipment Pickup Truck Land Charge Interest on Investment <u>3</u> / Depreciation on Grove Taxes	acre hour acre acre \$ \$ \$ acre	10.48 1.27 6.90 2.97 .06 .10 .05 18.00	1 8.15 1 600 614.00 <u>4</u> / 1228.01 1	\$ 10.48 10.35 6.90 2.97 36.00 61.40 61.40 18.00
	Total Fixed Costs				\$207.50
5.	Total Costs				\$358.66
6.	Net Returns (Costs)				(\$119.26)

 $\frac{1}{2}$ 3 irrigations @ \$2.50.

2/ Crop sold on tree. 3/ Interest on money s

 $\frac{3}{4}$ Interest on money spent in previous years; includes small risk factor. $\frac{4}{4}$ Average of 1/2 of total over life of grove.

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ORANGES, DEVELOPED GROVE, IRRIGATED, RIO GRANDE VALLEY Estimated Costs, And Requirements Per Acre

19145121

Of	Orange				pical Manage		
Operation	Item No.	Date Ti Ov	mes er	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Disc	1,3	Mar-Nov	5	2.06	1.65	\$.54	\$ 1.53
Border	1,7	Feb-Nov	4	1.00	1.00	.31	.43
Level Borders	1,4	Feb-Nov	4	1.00	1.00	.12	.86
Tree Hoe	1,8	Feb-Nov	4	1.00	1.00	.69	.90
Spray Insecticid	e 1,2	Apr-Oct	3.5	7.00	* 3.50	4.41	6.76
Fertilize	1	Jan-Feb	1	50	40		
Total				13.31	8.55	\$ 6.07	\$10.48
Irrigate	10	Feb-Nov	3	12.00*	* 6.00	\$ 1.50	\$ 6.90
Hand Labor		Annual		15.00	-	-	-

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

* Labor hours = 2 x machine hours.

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GRAPEFRUIT, PURCHASED MATURE GROVE, IRRIGATED, RIO GRANDE VALLEY

Estimated Costs And Returns Per Acre Of Grapefruit, Purchased Mature Grove, Typical Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production: Grapefruit	ton	\$ 34.30	11	\$388.30
2.	Variable Costs:				
	Pre-Harvest:				
	Grove Care Charge	mo.	10.00	12	\$120.00
	Fertilizer (116-0-0)	acre	13.92	1	13.92
	Herbicide	acre	18.00	1	18.00
	Insecticide	acre	44.00	1	44.00
	Insecticide Application	acre	10.00	3.5	35.00
	Irrigation Water	irri.	2.50	3	7.50
	Irrigation Equipment	acre	1.50	1	1.50
	Interest on Op. Cap. Subtotal, Pre-Harvest	\$.06	119.96	7.20 \$247.12
	Harvest:				
	Selling Charge	\$.03	388.30	\$ 11.65
	Total Variable Costs				\$258.77
3.	Income Above Variable Costs				\$129.53
4.	Fixed Costs:				
	Irrigation Equipment $1/$	acre	6.90	1	\$ 6.90
	Land Charge	\$.06	600.00	36.00
	Interest on Investment	\$.10	300.00	30.00
	Depreciation on Grove	\$.05	600.00	30.00
	Taxes	acre	18.00	1	18.00
	Total Fixed Costs				\$120.90
5.	Total Costs				\$379.67
6.	Net Returns				\$ 8.63

1/ Includes interest and depreciation.

2/ Interest charged on 1/2 of total investment to represent average amount over life of grove.

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ORANGES, PURCHASED MATURE GROVE, IRRIGATED, RIO GRANDE VALLEY

19145132

Estimated Costs And Returns Per Acre Of Oranges,

Purchased Mature Grove, Typical Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost	\frown
1.	Gross receipts, from production: Oranges	ton	\$ 26.60	8	\$212.80	
2.	Variable Costs:					
	Pre-Harvest:					
	Grove Care Charge	mo.	10.00	12	\$120.00	
	Fertilizer (116-0-0)	acre	13.92	1	13.92	
	Herbicide	acre	18.00	1	18.00	
	Insecticide	acre	44.00	1	44.00	
	Insecticide Application	acre	10.00	3.5	35.00	
	Irrigation Water	irri.	2.50	3	7.50	
	Irrigation Equipment	acre	1.50	1	1.50	
	Interest on Op. Cap. Subtotal, Pre-Harvest	\$.06	119.96	$\frac{7.20}{\$247.12}$	
	Harvest:					
	Selling Charge	\$.03	212.80	\$ 6.38	
	Total Variable Costs				\$253.50	
3.	Income Above Variable Costs				(\$ 40.70)	
4.	Fixed Costs:					
	Irrigation Equipment $1/$	acre	6.90	1	\$ 6.90	
	Land Charge	\$.06	600	36.00	
	Interest on Investment <u>2</u> /	\$.10	300	30.00	
	Depreciation on Grove	\$.05	600	30.00	
	Taxes	acre	18.00	1	18.00	
	Total Fixed Costs				\$120 .9 0	
5.	Total Costs				\$374.40	
6.	Net Returns (Costs)				(\$161.60)	

 $\frac{1}{2}$ Includes interest and depreciation. $\frac{1}{2}$ Interest charged on 1/2 of total in

 $\frac{2}{}$ Interest charged on 1/2 of total investment to represent average amount over life of grove.

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FORAGE SORGHUM FOR SILAGE, IRRIGATED, RIO GRANDE VALLEY

19090112

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

			Price or		Value o
Ite	m	Unit	Cost/Unit	Quantity	Cost
1.	Gross Receipts, From Production: Sorghum Silage	ton	\$ 4.00	20	\$ 80.0
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	1Ь	.22	18	\$ 3.9
	Fertilizer (150-60-0)	acre	22.80	1	22.8
	Machinery	acre	2.19	1	2.1
	Tractor (1)	hour	1.01	.82	. 8
	Tractor (2)	hour		.81	.6
	Tractor (3)	hour	.74	.57	• 4
	Tractor (4)	hour	.54	.60	•
	Tractor Labor	hour	1.75	3.50	6.
	Irrigation Water	appli	2.50	3	7.
	Irrigation Equipment	acre	.90	1	•
	Irrigation Labor	hour	1.30	4.5	5.
	Pickup Truck	acre	1.39	1	1.
	Interest on Operating Capital Sub-Total, Pre-Harvest	\$.08	26.46	<u>2.</u> \$ 55.0
	Harvest: Sold in Field				
	Total Variable Costs				\$ 55.0
•	Income Above Variable Costs				\$ 24 .
•	Fixed Costs:				
	Machinery	acre	2.97	1	\$ 2.
	Tractor (1)	hour	1.58	. 82	1.
	Tractor (2)	hour	1.57	.81	1.
	Tractor (3)	hour	1.25	.57	•
	Tractor (4)	hour	1.05	.60	•
	Irrigation Equipment	acre	3.90	1	3.
	Land (Net Rent-1/4) <u>1</u> /	acre	14.30	1	14.
	Pickup Truck	acre	.99	1	
	Total Fixed Costs				\$ 26.0
•	Total Costs				\$ 81.3
	Net Returns				(\$ 1.

1/ Landlord pays for 1/4 of fertilizer, insecticide, and harvest.

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FORAGE SORGHUM FOR SILAGE, IRRIGATED, RIO GRANDE VALLEY

•								
()peration	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre	
Shred Stalks	3,14	Jul-Se	ep l	.21	.17	\$.16	\$.31	
Disc	1,10	Jul-Se	ep 1	.25	.20	.21	.48	
Moldboard Plow	1,5	Aug-0	ct.5	.25	.20	.55	.48	
Chisel Plow	1,6	Aug-0	ct .5	.21	.17	.17	.17	
Disc	1,11	Sep-N	ov 2	.31	.25	.25	.35	
Bed	2,8	Dec	1	.15	.12	.07	.07	
Fertilize	3	Dec-J	an 1	.25	.20	-	-	
Re-Bed	2,8	Dec-J	an l	.15	.12	.07	.07	
Rolling Cultivate	2,7	Feb	1	.13	.10	.10	.10	
Plant	2,9	Feb	1.25	.26	.21	.15	.16	
Cultivate	2,13	Mar	1	.16	.13	.11	.16	
Side Dress Fertilize	3	Apr	1	.25	.20	-	-	
Cultivate	2,13	Apr	1	.16	.13	.11	.16	
Make Ditches	4,18	Mar-M	lay 3	.38	. 30	.12	.23	
Level Ditches	4,18	Mar-M	lay 3	.38	. 30	.12	.23	
Total				3.50	2.80	\$2.19	\$2.97	
Irrigate	23	Mar-M	lay 3	4.5*	3.00	\$.90	\$3.90	

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

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

* Labor hours = 1.5 x Machine hours.

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GRAIN SORGHUM, DRYLAND, RIO GRANDE VALLEY

19095222

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	25	\$ 50.00
2.	Variable Costs:		Ŷ 2.00	23	Ŷ JU. 00
	Pre-Harvest:				
	Seed	1Ь.	. 25	6	\$ 1.50
	Fertilizer (20-0-0)	acre	2.40	1	2.40
	Herbicide	acre	2.00	• 5	1.00
	Herbicide Application	acre	1.00	.5	.50
	Insecticide	acre	2.00	.33	.67
	Insecticide Application	acre	.85	.33	.28
	Machinery	acre	1.54	1	1.54
	Tractor (1)	hour	.93	1.10	1.02
	Tractor (2)	hour	.76	.55	
	Tractor (4)	hour	• 50	• 53	
	Tractor Labor	hour	1.75	2.73	4.78
	Pickup Truck	acre	2.00	1	2.00
	Interest on Op. Cap.	\$.085	8.19	.70
	Subtotal, Pre-Harvest				\$ 17.08
	Harvest:				
	Combine & Haul (custom)	cwt.	. 25	25	\$ 6.25
	Total Variable Costs				\$ 23.33
3.	Income Above Variable Costs				\$ 26.67
4.	Fixed Costs:				
	Machinery	acre	2.62	1	\$ 2.62
	Tractor (1)	hour	1.94	1.10	2.13
	Tractor (2)	hour	1.60	.55	.88
	Tractor (4)	hour	1.30	.53	.69
	Land (Net Rent-1/4) $1/$	acre	10.10	1	10.10
	Pickup Truck	acre	1.58	1	1.58
	Total Fixed Costs				\$ 18.00
5.	Total Costs				\$ 41.33
5.	Net Returns				\$ 8.67

 $\underline{1}$ Landlord pays 1/4 of fertilizer, insecticide, and harvest.

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GRAIN SORGHUM, DRYLAND, RIO GRANDE VALLEY

19095221

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

Operation	Item No.	Date Time Over	HOUTQ	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred	4,29	Jul-Sep 1	. 36	.28	\$.15	\$.25
Moldboard Plow	1,25	Jul-Sep .	5.31	.25	. 36	.51
Disc	1,27	Jul-Sep 1	.31	.25	.14	. 32
Till	1,30	Oct-Nov 1	.25	.20	.15	.31
Disc	1,27	Dec-Jan 1	.25	.20	.11	.26
Bed	2,8	Dec-Jan 1	.15	.12	.08	.08
Fertilize	1	Dec-Jan 1	.25	.20	-	-
Re-Bed	2,8	Dec-Jan 1	.15	.12	.08	.08
Rolling Cultivate	2,7	Feb 1	.13	.10	.12	.12
Plant	2,9	Feb-Mar 1.	25.26	.21	.15	. 37
Cultivate	4,13	Mar-May 2	.31	.25	.20	.32
Total			2.73	2.18	\$1.54	\$2.62

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

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