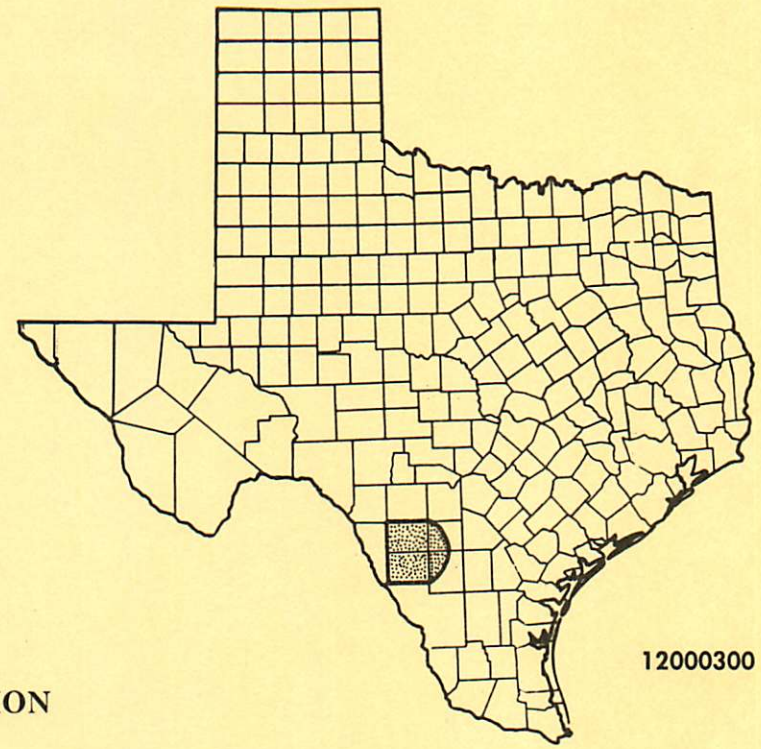


TEXAS WINTER GARDEN REGION

FOREWORD

The enterprise budgets for the Winter Garden Area are based on yields shown on form 12000600. This area presented a situation different from the other study areas in that the lower level of management (defined as "typical" in this project) is practically non-existent under irrigation. This can be explained to a high degree by two things: (1) High water cost (around $8 per 4 acre-inch irrigations, including labor) and (2) the largest irrigated area in the two counties, around Batesville, is a relatively new area and was purchased by high level operators who were able to command the high amount of investment and operating capital required.

Irrigation well and pumping depth over the two county areas varied somewhat with flow ranging from around 500 GPM to greater than 1,200 GPM. The most typical well seems to be set up to pump from a depth of around 600 feet with an output of around 900 to 1,000 GPM. Engines for irrigation pumping were found to be operated on natural gas, diesel, electricity and butane. The electricity was furnished by both electric cooperative and investor owned power companies. However, the largest percent is operated on natural gas; therefore, irrigation costs for these budgets were based on natural gas engines.

In general, Dimmit County (which has about 20 percent of the irrigated land in the two counties) wells have a lower output. Wells in the Batesville area (Zavala County) have the highest output and shallowest pumping depth. The Crystal City area (Zavala County) is about average between the other two. In addition to the deep well irrigation, between 2,500 and 3,000 acres are irrigated from surface water, primarily the Nueces River. As might be expected water cost is less from this area.

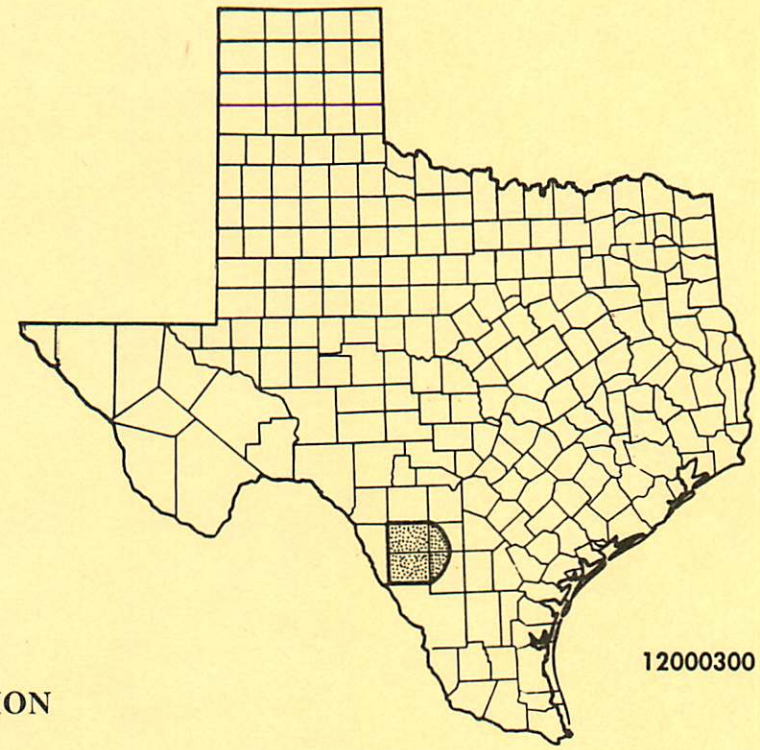
There is very little dryland farming in the area due to the variability in timing and amount of rainfall. The irrigated area is very intensively farmed with a considerable amount of double cropping.

Machinery appears to be used more hours per year in this area. There also seems to be much less over-investment in machinery along with more efficient usage.

The "typical" level of management could not be clearly defined. Therefore, only one machinery complement was developed. However, operating costs were factored upward 10 percent to attempt to adjust for typical management skills.

Machinery costs were based on a farm size of around 1,000 acres for the high level management. No size was determined for the "typical" operation.

No barley is currently being grown in this area. Dryland hay is incidental to abundant rainfall on pasture and is not generally a planned crop. Dryland forage and corn are not generally practiced crops.



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TEXAS WINTER GARDEN REGION

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
Prices Paid		
Seed:		
Cotton	lb.	$ .15
Grain Sorghum	lb.	.25
Corn	lb.	.34
Forage Sorghum	lb.	.19
Oats	bushel	1.75
Wheat	cwt.	5.50
Carrots	lb.	2.65
Cabbage (Hybrid)	lb.	25.00
Onions	lb.	12.00
Cantaloups	lb.	2.50
Spinach	lb.	.75
Cucumbers	lb.	3.05
Buffel Grass	lb.	1.65
Fertilizer:		
Nitrogen	lb.	.11
Phosphorus	lb.	.09
Potash	lb.	.05
Based on the following:		
N-32 liquid	ton	70.00
Ammonium Nitrate	ton	70.00
Urea	ton	85.00
Ammonium Sulphate	ton	54.25
10-20-10	ton	76.50
0-46-0	ton	82.50
Herbicides:		
Treflan	qt.	6.00
AAtrex	lb.	2.45
Propazine	lb.	2.45
Lorox	lb.	3.05
Dacthal	lb.	1.25
Vegedex	gal.	13.10
TOK	lb.	2.05
Prefar	gal.	11.25
Insecticides:		
Methyl Parathion	gal.	3.95
Ethyl Parathion	gal.	3.95
Methyl-Toxaphene Dust	cwt.	15.00
Malathion	gal.	6.75
Phosdrin	gal.	25.00
Lannate	lb.	9.75
Bacillus Thuringiensis	gal.	18.30
Cygon	gal.	15.80
Sevin 80W	lb.	.96

TEXAS WINTER GARDEN REGION

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
Fungicides:		
Maneb	lb.	$ .85
Zineb	lb.	.63
Defoliants:		
Def	gal.	10.00
Paraquat	gal.	30.00
Labor:		
Tractor or Machine Operator	hr.	1.75
Hand Labor	hr.	1.40
Custom Rates:		
Combine Grain Sorghum	cwt.	.17
Haul Grain Sorghum	cwt.	.08
Combine Corn	ac.	6.00
Haul Corn	bu.	.06
Pick and Haul Cotton	bale	25.00
Combine Small Grain	ac.	4.00
Haul Small Grain	cwt.	.10
Mow, Rake, Bale, Haul Hay	bale	.45
Aerial Applications:		
Insecticide	ac.	1.25
Defoliant	ac.	1.50
Fungicide	ac.	1.50
Ginning	bale	21.00
Brush Removal	ac.	25.00
Fuel and Lubricants:		
Diesel Fuel	gal.	.158
Gasoline	gal.	.277
Natural Gas	1,000 cu.ft.	.55
Motor Oil	qt.	.38
Grease	10,14 oz. cartridges	3.68
Prices Received:		
Grain Sorghum	cwt.	2.00
Corn	bu.	1.30
Cotton	lb.	.27
Cotton Seed	ton	58.00
Carrots	50 lb. bag	2.10
Cabbage	50 lb. bag	1.81
Onions	50 lb. bag	2.10
Cantaloups	80 lb. crate	5.95
Spinach (fresh)	20 lb. carton	2.36
Spinach (for process)	ton	45.00
Cucumbers	carton	3.15
Lettuce	carton	2.47
Hay	ton	25.00
Silage	ton	6.00

TEXAS WINTER GARDEN REGION

Estimated Machinery And Equipment Cost Per Hour Of Use

Machinery Item and Size	Item No.	New Cost	Estimated Typical Yrs. Of Use	Total Depr.1/	Estimated Total Hrs. Of Use	Depr. Per Hr.2/	Interest on Investment Per Hour 3/	Fuel, Oil, Lub., Rep., Per Hr. 4/
Tractor, 90 HP Diesel (2)	1	$9,000	5	$5,500	7,500	$ .73	$ .31	$ .94
Tractor, 60 HP Diesel	2	6,000	7	4,000	7,000	.57	.30	.61
Shredder, 4-Row	3	1,700	10	1,450	2,000	.73	.37	.54
Moldboard Plow, 4-16"	4	1,600	8	1,350	2,000	.68	.28	.99
Offset Disc, 10' (2)	5	2,000	8	1,700	2,000	.85	.35	.87
Middle Buster, 6-Row	6	1,000	10	850	2,000	.43	.22	.62
Rolling Cult., 4-Row	7	2,400	10	2,000	2,500	.80	.42	1.20
Toolbar Cult., 4-Row	8	1,000	10	850	2,000	.43	.22	.62
Planter, 4-Row	9	800	15	800	1,500	.53	.30	.55
Vegetable Planter, 8-R 8-Row 5/	10	1,000	15	1,000	1,500	.67	.38	.69
Grain Drill, 12'	11	1,100	15	1,000	750	1.33	.90	.37
Bed Shaper, 6-Row	12	575	10	500	1,000	.50	.24	.30
Land Plane, 45' x 12'	13	2,400	20	2,150	2,500	.86	.80	.63
Herbicide Sprayer, 4-Row	14	750	8	750	1,200	.63	.19	.64
V-Type Ditcher	15	250	15	250	2,500	.10	.06	.06
Scraper Blade	16	350	15	350	2,500	.14	.08	.09
Pickup Truck	17	3,600	3	2,400	90,000 miles	.80/acre /year	.18/acre /year	1.50/acre /year

TEXAS WINTER GARDEN REGION

Estimated Machinery And Equipment Cost Per Hour Of Use

Machinery Item and Size	Item No.	New Cost	Estimated Typical Yrs. Of Use	Total Depr.1/	Estimated Total Hrs. Of Use	Depr. Per Hr.2/	Interest on Investment Per Hour 3/	Fuel, Oil, Lub., Rep., Per Hr. 4/
Irrigation System	18							
Well-12" diameter, 1000' deep, 1000 GPM		$10,000	20	10,000	40,000	$ .25	$ .19	$ .05
Pump & Drive 600' Lift Capacity		12,500	10	11,500	20,000	.58	.25	.66
Engine - 200 HP Natural Gas		12,500	20	11,500	40,000	.29	.25	1.77
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/ Assumes straight line depreciation.
3/ (Investment + Salvage) ÷ 2 x .075 ÷ annual hours of use.
4/ Fuel, Oil, Lubrication, Repair cost estimate taken from 1971 Agricultural Engineer's Handbook and Bowers', and Modern Concepts Of Farm Machinery Management, 1968.
5/ 2 Rows per bed.

TEXAS WINTER GARDEN REGION

Yield Per Acre For Typical And High Level Management

Crop	Unit	Irrigated		Dryland	
		Typical	High Level	Typical	High Level
Buffel Grass Pasture	AUM	-	-	1	2.4
Cabbage	50 lb. bag	-	640	-	-
Cantaloups	80 lb. crate	-	150	-	-
Carrots	50 lb. bag	-	400	-	-
Corn For Grain	bu.	-	100	-	-
Corn For Silage	tons	-	15	-	-
Cotton	lbs.	500	800	-	-
Cucumbers	50 lb. carton		225	-	-
Grain Sorghum	lbs.	2500	5500	1000	2000
Lettuce	40 lb. carton		400	-	-
Oats For Grazing	AUM	5.5	-	-	-
Onions	50 lb. bag	-	600	-	-
Spinach					
Fresh Market	20 lb. carton		450	-	-
Processed	ton	-	8	-	-
Sorghum Forage	ton	8	-	-	-
Sorghum Hay	AUM	6	-	-	-
Wheat	AUM	3	-	-	-
Wheat	bu.	27	-	-	-

BUFFEL GRASS PASTURE ESTABLISHMENT, DRYLAND, WINTER GARDEN REGION

Estimated Costs And Returns Per Acre Of Buffel Grass Pasture Establishment, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Pre-Harvest:				
Brush Clearing	ac.	$ 25.00	1	$ 25.00
Seed	lb.	1.65	2	3.30
Machinery	ac.	.98	1	.98
Tractor (1)	hr.	.94	.50	.47
Tractor (2)	hr.	.61	.25	.15
Labor, Tractor	hr.	1.75	.94	1.65
Machinery Rental	ac.	.50	1	.50
Pickup Expense	ac.	1.50	.5	.75
Interest on Op. Cap.	$	.08	16.40	1.31
Subtotal, Pre-Harvest				$ 34.11
Harvest:				
None				
Total Variable Costs				$ 34.11
3. No Income Above Variable Costs				
4. Fixed Costs:				
Machinery	ac.	.60	1	$ .60
Tractor (1)	hr.	1.04	.50	.52
Tractor (2)	hr.	.87	.25	.22
Land	$	.06	125	7.50
Taxes	ac.	.50	1	.50
Pickup Expense	ac.	.98	.5	.49
Total Fixed Costs				$ 9.83
5. Total Costs				$ 43.94
6. Net Returns (cost)				$(43.94) 1/

1/ To be pro-rated over 10 years.

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BUFFEL GRASS PASTURE ESTABLISHMENT, DRYLAND, WINTER GARDEN REGION

Estimated Costs, And Requirements Per Acre Of Buffel Grass Pasture Establishment, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Custom Root Plow and Remove Brush		-	-	-	-	$25.00	$ -
Disc	1,5	Jan-Mar	2	.63	.50	.48	.60
Plant	2	Mar-Apr	1	.31	.25	.50 2/	-
Total				.94	.75	$25.98	$ .60

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

(2) Rented planter @ $.50 per acre.

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BUFFEL GRASS PASTURE, DRYLAND, WINTER GARDEN REGION

Estimated Costs And Returns Per Acre Of Buffel Grass Pasture, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing Lease	AUM	$ 6.00	2.4	$ 14.40
2. Variable Costs:				
Pre-Harvest:				
Hand Labor	hr.	1.40	.5	$ .70
Pickup Expense	ac.	1.50	.5	.75
Interest on Op. Cap.	$	.08	.73	.06
Subtotal, Pre-Harvest				$ 1.51
Harvest:				
None				
Total Variable Costs				$ 1.51
3. Income Above Variable Costs				$ 12.89
4. Fixed Costs:				
Establishment ($43.94/10 years)	ac.	4.39	1	$ 4.39
Land	$	.06	125	7.50
Taxes	ac.	.50	1	.50
Pickup Expense	ac.	.98	.5	.49
Total Fixed Costs				$ 12.88
5. Total Costs				$ 14.39
6. Net Returns				$ .01

1/ Animal Unit Month

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BUFFEL GRASS PASTURE, DRYLAND, WINTER GARDEN REGION

Estimated Costs, And Requirements Of Buffel Grass Pasture, 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
Hand Grub or Spray Brush	-	annual	1	.50	-	-	-

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

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BUFFEL GRASS PASTURE ESTABLISHMENT, DRYLAND, WINTER GARDEN REGION

Estimated Costs And Returns Per Acre Of Buffel Grass Pasture Establishment, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Pre-Harvest:				
Root plowing and seeding	ac.	$ 13.00	1	$ 13.00
Seed	lb.	1.65	3	4.95
Pickup Expense	ac.	1.50	.5	.75
Interest on Op. cap.	$	.085	9.35	.79
Subtotal, Pre-Harvest				$ 19.49
Harvest:				
None				
Total Variable Costs				$ 19.49
3. No Income Above Variable Costs				
4. Fixed Costs:				
Land	$	.06	125	$ 7.50
Taxes	ac.	.50	1	.50
Pickup Expense	ac.	.98	.5	.49
Total Fixed Costs				$ 8.49
5. Total Costs				$ 27.98
6. Net Returns (costs)				$ (27.98) 1/

1/ To be pro-rated over 10 years.

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BUFFEL GRASS PASTURE ESTABLISHMENT, DRYLAND, WINTER GARDEN REGION

Estimated Costs, And Requirements Per Acre Of Buffel Grass Pasture Establishment, 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
Custom Root Plow and Seed			-	-	-	$13.00	-

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BUFFEL GRASS PASTURE, DRYLAND, WINTER GARDEN REGION

Estimated Costs And Returns Per Acre Of Buffel Grass Pasture, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Pasture Lease	AUM 1/	$ 6.00	1	$ 6.00
2. Variable Costs:				
Pre-Harvest:				
Pickup Expense	ac.	1.50	.5	$ .75
Interest on Op. Cap.	$	.085	.38	.03
Subtotal, Pre-Harvest				$ .78
Harvest:				
None				
Total Variable Costs				$ .78
3. Income Above Variable Costs				$ 5.22
4. Fixed Costs:				
Establishment ($27.98/10 years)	ac.	2.80	1	$ 2.80
Land	$	.06	125	7.50
Taxes	ac.	.50	1	.50
Pickup Expense	ac.	.98	.5	.49
Total Fixed Costs				$ 11.29
5. Total Costs				$ 12.07
6. Net Returns				$ (6.07)

1/ Animal Unit Month

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BUFFEL GRASS PASTURE, DRYLAND, WINTER GARDEN REGION

Estimated Costs, And Requirements Of Buffel Grass 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
None							

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

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AECO 6

CABBAGE, IRRIGATED, WINTER GARDEN REGION

Estimated Costs 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/	640	$1158.40
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	25.00	1.5	$ 37.50
Fertilizer (200-80-0)	ac.	30.20	1	29.20
Herbicide	ac.	13.00	1	13.00
Insecticide	ac.	95.00	1	95.00
Insecticide Application	ac.	1.50	20	30.00
Fungicide	ac.	6.80	1	6.80
Fungicide Application	ac.	1.50	4	6.00
Machinery	ac.	3.45	1	3.45
Tractor (1)	hr.	.94	4.98	4.68
Tractor (2)	hr.	.61	1.57	.96
Labor, Tractor	hr.	1.75	8.18	14.32
Irrigation Machinery	ac.	30.36	1	30.36
Irrigation Labor	hr.	1.40	15	21.00
Hand Labor	hr.	1.40	20	28.00
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.08	160.89	12.87
Subtotal, Pre-Harvest				$ 334.64
Harvest:				
Harvesting	bag	.25	640	$ 160.00
Packing	bag	.65	640	416.00
Selling	bag	.18	640	115.20
Subtotal, Harvest				$ 691.20
Total Variable Costs				$1025.84
3. Income Above Variable Costs				$ 132.56
4. Fixed Costs:				
Machinery	ac.	4.62	1	$ 4.62
Tractor (1)	hr.	1.04	4.98	5.18
Tractor (2)	hr.	.87	1.57	1.37
Irrigation Machinery	ac.	25.44	1	25.44
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Expense	ac.	.98	1	.98
Total Fixed Costs				$ 63.59
5. Total Costs				$1089.43
6. Net Returns				$ 68.97

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

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AECO 6

CABBAGE, IRRIGATED, WINTER GARDEN REGION

Estimated Costs, And Requirements Per Acre Of Cabbage, 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	2,3	Jun-Aug	1	.25	.20	$ .11	$ .22
Disc	1,5	Jun-Aug	2	.63	.50	.44	.60
Break	1,4	Jun-Aug	1	.63	.50	.50	.48
Disc	1,5	Jun-Aug	1	.31	.25	.22	.30
Bed	1,6	Jun-Aug	1	.21	.17	.11	.11
Re-Bed	1,6	Jun-Aug	1	.21	.17	.11	.11
Plane	1,13	Jun-Aug	2	.50	.40	.26	.66
Fertilize	1	Jun-Aug	1	.21	.17	-	-
Bed	1,6	Jun-Aug	1	.21	.17	.11	.11
Shape Beds	2,12	Jun-Aug	1	.21	.17	.05	.13
Plant	1,10	Aug-Nov	1	.31	.25	.17	.26
Spray Herbicide	1,14	Aug-Nov	1	.31	.25	.16	.21
Rolling Cult.	1,7	Aug-Dec	1	.25	.20	.24	.25
Spray Herbicide	1,14	Aug-Dec	1	.31	.25	.16	.21
Incorporate Herbicide	1,7	Aug-Dec	1	.25	.20	.24	.25
Cultivate	1,8	Aug-Mar	3	.94	.75	.47	.49
Side Dress Fert.	1	Aug-Mar	3	.94	.75	-	-
Make Ditches	2,15	Aug-Apr	6	.75	.60	.04	.10
Level Ditches	2,16	Aug-Apr	6	.75	.60	.06	.13
Total				8.18	6.55	$ 3.45	$ 4.62
Irrigation:	18	Aug-Apr	6	15.00	12.00	$30.36	$25.44
Hand Labor				20.	-	-	-

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

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AECO 6

CANTALOUPS, IRRIGATED, WINTER GARDEN REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Cantaloups	80 lb./crate	$ 5.95	150	$892.50
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	2.50	2	$ 5.00
Fertilizer (80-80-0)	ac.	17.00	1	16.00
Herbicide	ac.	14.00	1	14.00
Insecticide	ac.	12.75	1	12.75
Insecticide Application	ac.	1.25	6	7.50
Fungicide	ac.	8.50	1	8.50
Fungicide Application	ac.	1.50	5	7.50
Machinery	ac.	3.66	1	3.66
Tractor (1)	hr.	.94	4.93	4.63
Tractor (2)	hr.	.61	1.37	.84
Labor, Tractor	hr.	1.75	7.88	13.79
Irrigation Machinery	ac.	25.30	1	25.30
Irrigation, Labor	hr.	1.40	12.5	17.50
Bee Rental	hive	6.00	1	6.00
Hand Labor	hr.	1.40	20	28.00
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.08	86.24	6.90
Subtotal, Pre-Harvest				$179.37
Harvest:				
Harvesting	crate	.90	150	$135.00
Packing	crate	2.25	150	337.50
Selling	crate	.10	150	15.00
Subtotal, Harvest				$487.50
Total Variable Costs				$666.87
3. Income Above Variable Costs				$225.63
4. Fixed Costs:				
Machinery	ac.	4.78	1	$ 4.78
Tractor (1)	hr.	1.04	4.93	5.13
Tractor (2)	hr.	.87	1.37	1.19
Irrigation Machinery	ac.	21.20	1	21.20
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Expense	ac.	.98	1	.98
Total Fixed Costs				$ 59.28
5. Total Costs				$726.15
6. Net Returns				$166.35

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

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AECO 6

CANTALOUPS, IRRIGATED, WINTER GARDEN REGION

Estimated Costs, And Requirements Per Acre Of Cantaloups, 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	2,3	Jul-Sep	1	.25	.20	$ .11	$ .22
Disc	1,5	Jul-Sep	2	.63	.50	.44	.60
Break	1,4	Aug-Nov	1	.63	.50	.50	.48
Disc	1,5	Aug-Nov	1	.31	.25	.22	.30
Bed	1,6	Aug-Nov	1	.21	.17	.11	.11
Re-Bed	1,6	Aug-Nov	1	.21	.17	.11	.11
Plane	1,13	Aug-Nov	2	.50	.40	.26	.66
Fertilize	1	Nov-Jan	1	.21	.17	-	-
Bed	1,6	Nov-Jan	1	.21	.17	.11	.11
Spray Herbicide	1,14	Feb-Mar	1	.31	.25	.16	.21
Incorporate Herbicide	1,7	Feb-Mar	1	.25	.20	.24	.25
Shape Beds	2,12	Feb-Mar	1	.21	.17	.05	.13
Plant	1,10	Feb-Mar	1	.31	.25	.17	.26
Rolling Cult.	1,7	Mar-May	2	.50	.40	.48	.50
Cultivate	1,8	Mar-May	4	1.25	1.00	.62	.65
Side Dress Fert.	1	Mar-May	2	.63	.50	-	-
Make Ditches	2,15	Feb-May	5	.63	.50	.03	.08
Level Ditches	2,16	Feb-May	5	.63	.50	.05	.11
Total				7.88	6.30	$ 3.66	$ 4.78
Irrigation:	18	Feb-May		12.5	10.0	$25.30	$21.20

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

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AECO 6

CARROTS, IRRIGATED, WINTER GARDEN REGION

Estimated Costs 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 lb. bag	$ 2.10 1/	400	$840.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	2.65	2	$ 5.30
Fertilize (80-70-0)	ac.	15.10	1	15.10
Herbicide	ac.	12.10	1	12.10
Insecticide	ac.	2.00	1	2.00
Insecticide Application	ac.	1.25	4	5.00
Fungicide	ac.	8.50	1	8.50
Fungicide Application	ac.	1.25	5	6.25
Machinery	ac.	3.54	1	3.54
Tractor (1)	hr.	.94	4.33	4.07
Tractor (2)	hr.	.61	1.37	.84
Labor, Tractor	hr.	1.75	7.12	12.46
Irrigation Machinery	ac.	25.30	1	25.30
Irrigation Labor	hr.	1.40	10	14.00
Hand Labor	hr.	1.40	5	7.00
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.08	61.48	4.92
Subtotal, Pre-Harvest				$127.88
Harvest:				
Harvesting	bag	.50	400	$200.00
Packing	bag	1.10	400	440.00
Selling	bag	.10	400	40.00
Subtotal, Harvest				$680.00
Total Variable Costs				$807.88
3. Income Above Variable Costs				$ 32.12
4. Fixed Cost:				
Machinery	ac.	4.84	1	$ 4.84
Tractor (1)	hr.	1.04	4.33	4.50
Tractor (2)	hr.	.87	1.37	1.19
Irrigation Machinery	ac.	21.20	1	21.20
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Expense	ac.	.98	1	.98
Total Fixed Costs				$ 58.71
5. Total Costs				$866.59
6. Net Returns				$(26.59)

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

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AECO 6

CARROTS, IRRIGATED, WINTER GARDEN REGION

Estimated Costs, And Requirements Per Acre Of Carrots, 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	2,3	Jun-Sep	1	.25	.20	$ .11	$ .22
Disc	1,5	Jun-Sep	2	.63	.50	.44	.60
Break	1,4	Jun-Sep	1	.63	.50	.50	.48
Disc	1,5	Jun-Sep	1	.31	.25	.22	.30
Disc & Spray Herbicide	1,5 & 14	Jun-Sep	1	.31	.25	.38	.51
Disc	1,5	Jun-Sep	1	.31	.25	.22	.30
Bed	1,6	Jun-Sep	1	.21	.17	.11	.11
Re-Bed	1,6	Jun-Sep	1	.21	.17	.11	.11
Plane	1,13	Jun-Sep	2	.50	.40	.26	.66
Fertilize	1	Jun-Sep	1	.21	.17	-	-
Bed	1,13	Jun-Sep	1	.21	.17	.11	.11
Shape Beds	2,12	Jun-Sep	1	.21	.17	.05	.13
Plant	1,10	Jul-Nov	1	.31	.25	.17	.26
Spray Herbicide	1,14	Aug-Nov	1	.31	.25	.16	.21
Cultivate	1,8	Aug-Feb	4	1.25	1.00	.62	.65
Make Ditches	2,15	Jul-Apr	5	.63	.50	.03	.08
Level Ditches	2,16	Jul-Apr	5	.63	.50	.05	.11
Total				7.12	5.70	$ 3.54	$ 4.84
Irrigation:	18	Jul-Apr	5	12.50	10.00	$25.30	$21.20
Hand Labor				5.0	-	-	-

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

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AECO 6

CORN FOR GRAIN, IRRIGATED, WINTER GARDEN REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Corn	bu.	$ 1.30	100	$130.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.34	15	$ 5.10
Fertilizer (160-80-0)	ac.	24.80	1	24.80
Herbicide	ac.	6.00	1	6.00
Insecticide	ac.	2.00	1	2.00
Insecticide Application	ac.	1.25	2	2.50
Machinery	ac.	2.74	1	2.74
Tractor (1)	hr.	.94	3.17	2.98
Tractor (2)	hr.	.61	1.45	.88
Labor, Tractor	hr.	1.75	5.78	10.12
Irrigation Machinery	ac.	25.30	1	25.30
Irrigation Labor	hr.	1.40	12.5	17.50
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.08	50.71	4.06
Subtotal, Pre-Harvest				$105.48
Harvest:				
Custom Combine	ac.	6.00	1	$ 6.00
Custom Haul	bu.	.06	100	6.00
Subtotal, Harvest				$ 12.00
Total Variable Costs				$117.48
3. Income Above Variable Costs				$ 12.52
4. Fixed Costs:				
Machinery	ac.	3.68	1	$ 3.68
Tractor (1)	hr.	1.04	3.17	3.30
Tractor (2)	hr.	.87	1.45	1.26
Irrigation Machinery	ac.	21.20	1	21.20
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Expense	ac.	.98	1	.98
Total Fixed Costs				$ 56.42
5. Total Costs				$173.90
6. Net Returns				$(43.90)

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AECO 6

FIELD CORN, IRRIGATED, WINTER GARDEN REGION

Estimated Costs, And Requirements Per Acre of Field Corn, 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	2,3	Aug-Sept	1	.25	.20	$ .11	$ .22
Disc	1,5	Aug-Oct	2	.63	.50	.44	.60
Break	1,4	Aug-Oct	1	.63	.50	.50	.48
Disc	1,5	Aug-Oct	1	.31	.25	.22	.30
Plane	1,13	Aug-Oct	2	.50	.40	.26	.66
Fertilize	1	Dec-Jan	1	.21	.17	-	-
Bed	1,6	Dec-Jan	1	.21	.17	.11	.11
Re-Bed	1,6	Jan-Mar	1	.21	.17	.11	.11
Plant	1,9	Mar	1	.31	.25	.14	.21
Rolling Cult.	1,7	Mar-May	3	.64	.51	.61	.62
Side Dress Fertilize	1	Apr	1	.31	.25	-	-
Spray Herbicide	2,14	Apr	1	.31	.25	.16	.21
Make Ditches	2,15	Mar-Jun	5	.63	.50	.03	.07
Level Ditches	2,16	Mar-Jun	5	.63	.50	.05	.09
Total				5.78	4.62	$ 2.74	$ 3.68
Irrigation:	18	Mar-Jun	5	12.5	10.0	$25.30	$21.20

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

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AECO 6

CORN FOR SILAGE, IRRIGATED, WINTER GARDEN REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Corn Silage	ton	$ 6.00	15	$ 90.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.34	20	$ 6.80
Fertilizer (160-80-0)	ac.	24.80	1	24.80
Machinery	ac.	2.55	1	2.55
Tractor (1)	hr.	.94	3.17	2.98
Tractor (2)	hr.	.61	1.00	.61
Labor, Tractor	hr.	1.75	5.21	9.12
Irrigation Machinery	ac.	20.24	1	20.24
Irrigation Labor	hr.	1.40	10	14.00
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.08	41.30	3.30
Subtotal Pre-Harvest				$ 85.90
Harvest:				
None 1/				
Total Variable Costs				$ 85.90
3. Income Above Variable Costs				$ 4.10
4. Fixed Costs:				
Machinery	ac.	3.45	1	$ 3.45
Tractor (1)	hr.	1.04	3.17	3.30
Tractor (2)	hr.	.87	1.00	.87
Irrigation Machinery	ac.	16.96	1	16.96
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Expense	ac.	.98	1	.98
Total Fixed Costs				$ 51.56
5. Total Costs				$137.46
6. Net Returns				$(47.46)

1/ Sold in Field.

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AECO 6

CORN FOR SILAGE, IRRIGATED, WINTER GARDEN REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred	2,3	Aug-Sept	1	.25	.20	$ .11	$ .22
Disc	1,5	Aug-Oct	2	.63	.50	.44	.60
Break	1,4	Aug-Oct	1	.63	.50	.50	.48
Disc	1,5	Aug-Oct	1	.31	.25	.22	.30
Plane	1,13	Aug-Oct	2	.50	.40	.26	.66
Fertilize	1	Dec-Jan	1	.21	.17	-	-
Bed	1,6	Dec-Jan	1	.21	.17	.11	.11
Re-Bed	1,6	Jan-Mar	1	.21	.17	.11	.11
Plant	1,9	Mar	1	.31	.25	.14	.21
Rolling Cult.	1,7	Mar-May	3	.64	.51	.61	.62
Side Dress Fertilize	1	Apr	1	.31	.25	-	-
Make Ditches	2,15	Mar-Jun	4	.50	.40	.02	.06
Level Ditches	2,16	Mar-Jun	4	.50	.40	.03	.08
Total				5.21	4.17	$ 2.55	$ 3.45
Irrigation:	18	Mar-Jun	5	10.0	8.0	$20.24	$16.96

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

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AECO 6

COTTON, IRRIGATED, WINTER GARDEN REGION

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.	$ .27	800	$216.00
Cotton Seed	ton	58.00	.64	37.12
Total				$253.12
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.15	20	$ 3.00
Fertilizer (100-60-0)	ac.	16.40	1	16.40
Herbicide	ac.	6.00	1	6.00
Insecticide	ac.	27.00	1	27.00
Insecticide Application	ac.	1.25	18	22.50
Machinery	ac.	3.19	1	3.19
Tractor (1)	hr.	.94	3.45	3.24
Tractor (2)	hr.	.61	1.20	.73
Labor, Tractor	hr.	1.75	5.82	10.19
Irrigation Machinery	ac.	25.30	1	25.30
Irrigation Labor	hr.	1.40	12.5	17.50
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.08	68.28	5.46
Subtotal, Pre-Harvest				$142.01
Harvest:				
Defoliant	ac.	2.50	1	$ 2.50
Defoliant Application	ac.	1.50	1	1.50
Custom Harvest	bale	25.00	1.6	40.00
Ginning	bale	21.00	1.6	33.60
Subtotal, Harvest				$ 77.60
Total Variable Costs				$219.61
3. Income Above Variable Costs				$ 33.51
4. Fixed Costs:				
Machinery	ac.	4.33	1	$ 4.33
Tractor (1)	hr.	1.04	3.45	3.59
Tractor (2)	hr.	.87	1.20	1.04
Irrigation Machinery	ac.	21.20	1	21.20
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Truck	ac.	.98	1	.98
Total Fixed Costs				$ 57.14
5. Total Costs				$276.75
6. Net Returns				$(23.63)
7. Government Payment (800 lb. @ $.15 per lb.) 1/				$120.00
8. Net Returns Including Government Payment				$ 96.37

1/ Based on planted acres. No allowance is made for set aside acreage.

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AECO 6

COTTON, IRRIGATED, WINTER GARDEN REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred	2,3	Aug-Sept	1	.25	.20	$ .11	$ .22
Disc	1,5	Aug-Oct	2	.63	.50	.44	.60
Break	1,4	Aug-Oct	1	.63	.50	.50	.48
Disc	1,5	Aug-Oct	1	.31	.25	.22	.30
Plane	1,13	Aug-Oct	2	.50	.40	.26	.66
Fertilize	1	Dec-Jan	1	.21	.17	-	-
Spray Herbicide and Disc	1,5 &14	Dec-Feb	1	.31	.25	.38	.51
Disc	1,5	Dec-Feb	1	.31	.25	.22	.30
Bed	1,6	Dec-Feb	1	.21	.17	.11	.11
Run Middles	1,8	Mar	1	.25	.20	.12	.13
Plant	1,9	Mar	1	.31	.25	.14	.21
Rolling Cult.	1,7	Mar-May	3	.64	.51	.61	.62
Make Ditches	2,15	Mar-Aug	5	.63	.50	.03	.08
Level Ditches	2,16	Mar-Aug	5	.63	.50	.05	.11
Total				5.82	4.65	$ 3.19	$ 4.33
Irrigation:	18	Mar-Aug	5	12.50	10.00	$25.30	$21.20

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

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AECO 6

COTTON, IRRIGATED, WINTER GARDEN REGION

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.	$ .27	500	$135.00
Cotton Seed	ton	58.00	.4	23.20
Total				$158.20
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.15	20	$ 3.00
Fertilizer (80-40-0)	ac.	12.40	1	12.40
Herbicide	ac.	6.00	1	6.00
Insecticide	ac.	18.00	1	18.00
Insecticide Application	ac.	1.25	12	15.00
Machinery	ac.	3.16	1	3.16
Tractor (1)	hr.	1.03	3.45	3.55
Tractor (2)	hr.	.67	.80	.54
Labor, Tractor	hr.	1.75	5.32	9.31
Irrigation Machinery	ac.	15.18	1	15.18
Irrigation Labor	hr.	1.40	7.5	10.50
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.085	49.07	4.17
Subtotal, Pre-Harvest				$102.31
Harvest:				
Defoliant	ac.	2.50	1	$ 2.50
Defoliant Application	ac.	1.50	1	1.50
Custom Harvest	bale	25.00	1	25.00
Ginning	bale	21.00	1	21.00
Subtotal, Harvest				$ 50.00
Total Variable Costs				$152.31
3. Income Above Variable Costs				$ 5.89
4. Fixed Costs:				
Machinery	ac.	4.26	1	$ 4.26
Tractor (1)	hr.	1.04	3.45	3.59
Tractor (2)	hr.	.87	.80	.70
Irrigation Machinery	ac.	12.72	1	12.72
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Expense	ac.	.98	1	.98
Total Fixed Costs				$ 48.25
5. Total Costs				$200.56
6. Net Returns				$(42.36)
7. Government Payment (500 lb. @ $.15 per lb.) 1/				$ 75.00
8. Net Returns Including Government Payment				$ 32.64

1/ Based on planted acres. No allowance is made for set aside acreage.

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AECO 6

COTTON, IRRIGATED, WINTER GARDEN REGION

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	2,3	Aug-Sept	1	.25	.20	$ .11	$ .22
Disc	1,5	Aug-Oct	2	.63	.50	.44	.60
Break	1,4	Aug-Oct	1	.63	.50	.50	.48
Disc	1,5	Aug-Oct	1	.31	.25	.22	.30
Plane	1,13	Aug-Oct	2	.50	.40	.26	.66
Fertilize	1	Dec-Jan	1	.21	.17	-	-
Spray Herbicide and Disc	1,5 &14	Dec-Feb	1	.31	.25	.38	.51
Disc	1,5	Dec-Feb	1	.31	.25	.22	.30
Bed	1,6	Dec-Feb	1	.21	.17	.11	.11
Run Middles	1,8	Mar	1	.25	.20	.12	.13
Plant	1,9	Mar	1	.31	.25	.14	.21
Rolling Cult.	1,7	Mar-May	3	.64	.51	.61	.62
Make Ditches	2,15	Mar-Aug	3	.38	.30	.02	.05
Level Ditches	2,16	Mar-Aug	3	.38	.30	.03	.07
Total				5.32	4.25	$ 3.16	$ 4.26
Irrigation:	18	Mar-Aug	3	7.50	6.00	$15.18	$12.72

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

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AECO 6

CUCUMBERS, IRRIGATED, WINTER GARDEN REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Cucumbers	50 lb./carton	$ 3.15 1/	225	$708.75
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	3.05	2.5	$ 7.63
Fertilizer (50-80-0)	ac.	12.70	1	12.70
Herbicide	ac.	14.00	1	14.00
Insecticide	ac.	12.75	1	12.75
Insecticide Application	ac.	1.25	6	7.50
Fungicide	ac.	8.50	1	8.50
Fungicide Application	ac.	1.50	5	7.50
Machinery	ac.	3.66	1	3.66
Tractor (1)	hr.	.94	4.93	4.63
Tractor (2)	hr.	.61	1.37	.84
Labor, Tractor	hr.	1.75	7.88	13.79
Irrigation Machinery	ac.	25.30	1	25.30
Irrigation Labor	hr.	1.40	12.5	17.50
Bee Rental	hive	6.00	1	6.00
Pickup Expense	ac.	1.50	1	1.50
Interest on Op. Cap.	$	.08	71.90	5.75
Subtotal, Pre-Harvest				$149.55
Harvest:				
Harvesting	carton	.40	225	$ 90.00
Packing	carton	.85	225	191.25
Selling	carton	.25	225	56.25
Subtotal, Harvest				$337.50
Total Variable Costs				$487.05
3. Income Above Variable Costs				$221.70
4. Fixed Costs:				
Machinery	ac.	4.78	1	$ 4.78
Tractor (1)	hr.	1.04	4.93	5.13
Tractor (2)	hr.	.87	1.37	1.19
Irrigation Machinery	ac.	21.20	1	21.20
Land	$	.06	400	24.00
Taxes	ac.	2.00	1	2.00
Pickup Expense	ac.	.98	1	.98
Total Fixed Costs				$ 59.28
5. Total Costs				$546.33
6. Net Returns				$162.42

1/ 1966-70 Season Weighted Average Price, Texas Vegetable Statistics, Texas Crop and Livestock Reporting Service.

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