



TEXAS TRANS-PECOS REGION

FOREWORD

The enterprise budgets for the Trans-Pecos region are based on yields as shown on form 08000500. The data contained in this report are based on estimates and actual records of operations within the two-county area (Reeves-Pecos). Even in a region so narrowly defined as this, variations in inputs and returns exist among farms and among managers. However, these budgets should serve as useful guides in planning and decision-making for persons concerned with the area described above.

Basic assumptions which are necessary to complete the budgeting process include a compilation of crops to be budgeted, expected yields for irrigated only, and according to typical and high-level management. Farm size and machinery complements for both levels of management are required. Production practices, machinery operating rates and, finally, the budget development complete the undertaking.

In order, then, the assumptions were: farm size varied from 600 acres for the typical manager to 1,000 acres for the high-level operator. Fully two-thirds of the land on the typical farm is fallowed while only one-third is handled in this manner on the high-level farm. Cotton is

grown on approximately one-fourth of the typical farm and two-fifths of the larger unit. Small grains are produced on fully 50 percent of the acreage in both cases. Calf grazing is heavily utilized.

Irrigation systems vary from two wells of 1,000 GPM each on the smaller operation to four wells of 1,000 GPM capacity each on the larger unit.

Management differences centered primarily on timing of operations rather than variations in cropping patterns or input levels. That is, the high level manager extracts greater yields, and usually greater profits from his enterprises due to superior ability to prepare for, plant, tend to and sell his crops in an optimum fashion.

Land rent (net) is computed for cotton based on the landlord receiving one-fourth of the crop and government payment while supplying all of the land, the well, pump and irrigation system, and one-fourth of the fertilizer, herbicide, insecticide, harvesting and ginning. No typical arrangements for cropsharing or cash leasing were identifiable; therefore, the opportunity cost concept on land value is used.

TEXAS CROSS TIMBERS REGION

Assumed Prices Paid and Received by Farmers $\frac{1}{2}$

Item	Unit	Price
<u>Prices Paid (1975)</u>		
Seed:		
Coastal Sprigs	lb.	.03
Forage Sorghum	cwt.	24.00
Grain Sorghum	cwt.	40.00
Kleingrass	lbs.	7.00
Oats	cwt.	11.00
Peanuts	lb.	0.42-0.44
Sudangrass	cwt.	24.00
Wheat	cwt.	15.00
Fertilizer:		
Nitrogen	lb.	0.27
Phosphorus	lb.	0.22
Potash	lb.	0.10
15-15-7	ton	186.00
14-7-11	ton	176.00
10-20-10	ton	167.00
6-24-24	ton	184.00
Labor:		
Irrigation	hr.	2.50
Tractor	hr.	2.50
Custom Rates:		
Baling	bale	.45
Combining	acre	8.00
Hauling grain	bu.	0.10
Hay Hauling	bale	0.15
Peanut drying	ton	8.00
Sprigging	acre	17.00
Capital:		
Investment	\$	0.10
Operating	\$	0.09
Fumigants:		
D D Pic	gal.	3.50
Fumazone 86	gal.	11.50
Nemagon 12.1	gal.	11.50
Telone	gal.	3.50
Fuel:		
Gasoline	gal.	.36
Diesel	gal.	.35

Assumed Prices Paid and Received by Farmers (cont'd.)

Item	Unit	Price
Herbicides:		
Treflan	5 gal	142.50
Cobex	5 gal.	120.00
Balan	gal.	8.55
Simazine 80W	lb.	3.45
Dianap	gal.	7.25
Lasso	gal.	15.00
2, 4-D (amine)	gal.	8.75
2, 4-D (ester)	gal.	9.50
Vernam, 10G	cwt.	29.40
Vernam, 6E	gal.	15.40
Insecticides:		
Dasanit, 15G	lb.	0.59
Dasanit, liquid	gal.	28.50
Dyfonate, 10G	lb.	0.47
Sevin, 80W	lb.	1.52
Malathion (55 gal.)	gal.	12.00
Azodrin	gal.	20.00
Methyl parathion	gal.	10.00
Diazinon, 14G	lb.	0.60
Fungicides:		
Bravo	gal.	25.50
Benlate	lb.	8.30
Manzate 200	lb.	1.25
Terrachlor, 10G	cwt.	22.00
Terrachlor, 2EC	gal.	5.50
Terrachlor, 75WP	lb.	1.25
Lannate, 10G	lb.	.29
Lanate	gal.	17.00
Nudrin	gal.	17.00
<u>Prices Received (1975)</u>		
Coastal Hay	ton	45.00
Grain Sorghum	cwt.	4.00
Kleingrass Hay	ton	45.00
Peanuts	lb.	0.18
Sorghum Hay	ton	45.00
Stocker Gain	lb.	0.30

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

TEXAS TRANS-PECOS REGION

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
<u>Prices Paid</u>		
Seed:		
Cotton (delinted)	cwt.	\$ 12.00
Grain Sorghum	cwt.	17.00
Wheat (cleaned and treated)	bu.	4.00
Alfalfa	cwt.	50.00
Forage Sorghum	cwt.	17.00
Barley, Oats	cwt.	4.00
Cantaloupe	lb.	3.00
Fertilizer:		
Nitrogen	lb.	.045
Phosphorus	lb.	.09
Herbicide:		
Pre-emerge	qt.	6.25
Insecticide:		
Methyl Parathion	gal.	5.00
Dusting Sulfur	lb.	.04
Labor:		
Hoeing	hr.	1.50
Irrigation	hr.	1.50
Tractor	hr.	1.50
Custom Rates:		
Fertilizer Application	ac.	1.00
Insecticide Application	ac.	1.25
Cotton Picking	lb. of lint	.05
Cotton Ginning (Upland)	bale	22.00
Cotton Ginning (Pima)	bale	32.00
Combining:		
Grain Sorghum	ac.	5.00
Wheat	ac.	5.00
Barley	ac.	5.00
Hauling Grain	cwt.	.10
Alfalfa Harvest:		
Swath, bale, haul	ton	10.00
Cube	ton	12.00
Cantaloupe Harvest	crate	.90
Fuel and lubricants:		
Gasoline	gal.	.295
L.P. Gas	gal.	.10
Diesel	gal.	.158
Motor Oil	gal.	1.45
Lubricant	lb.	.35

TEXAS TRANS-PECOS REGION

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
Capital:		
Investment	\$	\$.075
Operating	\$	.09
Hail Insurance:		
Cotton	\$100	12.50
Grain	\$100	13.15
<u>Prices Received</u>		
Cotton (Upland)	lb. lint	.30 <u>2/</u>
Cotton (Pima)	lb. lint	.47 <u>2/</u>
Cottonseed	ton	65.00
Grain Sorghum	cwt.	2.10 <u>2/</u>
Wheat	cwt.	2.10
Barley	cwt.	2.10
Alfalfa	ton	35.00
Cantaloupes	crate	5.30
Livestock Grazing	Net Per Pound Of Gain	.17

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

2/ Does not include government payment which a farmer might receive for participating in farm programs.

TEXAS TRANS-PECOS REGION

Yield Per Acre For Typical And High Level Management

Crop	Unit	<u>Irrigated</u>	
		Typical	High Level
Cotton (Upland)	lbs.	700	875
Cotton (Pima)	lbs.	450	700
Grain Sorghum	lbs.	4,000	5,500
Wheat for Grain	lbs.	2,700	4,200
Barley for Grain	cwt.	3,120	4,320
Oats for Graze	lbs./ac.	470	630
Forage for Graze	lbs./ac.	875	1,000
Alfalfa	tons	6	8
Cantaloupe	crates	100	150

TEXAS TRANS-PECOS REGION

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Estimated Machinery And Equipment Cost Per Hour Of Use, Typical Management

Machinery Item and Size	Item No.	New Cost	Estimated Typical Yrs. Of Use	Total Depr. <u>1/</u>	Estimated Total Hrs. Of Use	Depr. Per Hr. <u>2/</u>	Interest on Investment Per Hour <u>3/</u>	Fuel, Oil, Lub., Rep., Per Hr. <u>4/</u>
Tractor, 100 HP	1	\$10,500	6	\$5,828	5,000	\$1.17	\$.68	\$1.54
Tractor, 45 HP	2	3,500	15	3,500	7,200	.49	.23	.65
Shredder, 2 Row	3	350	8	261	1,000	.26	.14	.19
Offset Disc, 9'	4	1,200	8	900	2,500	.36	.18	.17
Plow, 3 Btm.	5	900	8	670	3,500	.19	.10	.33
Float	6	1,250	10	1,000	1,200	.83	.47	.25
Lister, 3 Btm.	7	350	8	260	1,200	.22	.11	.27
Rotary Cult., 4R	8	1,000	8	750	1,600	.47	.25	.53
Cultivator, 4R	9	850	10	670	1,200	.56	.32	.59
Planter, tool bar 4R	10	800	10	640	600	1.06	.60	.45
Spray Rig, 4R	11	350	10	280	500	.56	.32	.71
Grain Drill, 14'	12	1,300	10	1,000	800	1.25	.75	.99
Border Disc	13	250	10	200	500	.40	.23	.05
Disc Ridger, 4R	14	700	10	550	500	1.10	.64	.12
Vegetable Planter, 2R	15	925	10	800	1,000	.80	.29	.76
2-8" Wells and equipment <u>5/</u>								

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

2/ Assumes straight line depreciation.

3/ (Investment + salvage) divided by 2 (7.5%) divided by annual hours of use.

4/ Fuel, oil, lubrication, repair cost estimate taken from Bower, Modern Concepts of Farm Machinery Management.

5/ See attached irrigation cost analysis. Assumes 350 ft. well, 1000 gpm, natural gas unit, and furrow irrigation.

TEXAS TRANS-PECOS REGION

Estimated Machinery And Equipment Cost Per Hour Of Use, High Level Management

Machinery Item and Size	Item No.	New Cost	Estimated Typical Yrs. Of Use	Total Depr. <u>1/</u>	Estimated Total Hrs. Of Use	Depr. Per Hr. <u>2/</u>	Interest on Investment Per Hour <u>3/</u>	Fuel, Oil, Lub., Rep., Per Hr. <u>4/</u>
Tractor 118 HP	15	\$13,500	6	\$7,500	4,200	\$1.79	\$1.04	\$1.89
Tractor, 90 HP	16	9,000	8	5,500	5,000	1.10	.75	1.35
Tractor, 45 HP	17	3,500	15	3,500	7,200	.49	.23	.65
Shredder, 4 Row	18	1,400	10	1,100	1,200	.92	.53	.73
Offset Disc	19	2,000	8	1,500	1,600	.94	.47	.75
Moldboard Plow, 5 Btm.	20	1,750	8	1,300	1,600	.81	.41	1.35
Float	21	1,250	10	1,000	1,200	.83	.47	.25
Lister, 6 Row	22	1,100	10	800	2,000	.40	.26	.69
Spray Rig, 4 Row	23	350	10	280	500	.56	.32	.71
Rototiller, 80"	24	2,500	10	1,900	1,600	1.19	.73	2.58
Planter tool bar, 4R	25	800	10	640	1,600	.40	.23	.78
Rolling Cultivator	26	1,700	8	1,268	1,600	.79	.43	.91
Grain Drill, 16'	27	1,600	10	1,274	1,200	1.06	.64	1.79
Border Disc	28	250	10	200	800	.25	.14	.06
Disc Ridger, 4 Row	29	700	10	550	800	.69	.40	.15
Vegetable Planter, 2R	30	925	10	800	1,000	.80	.29	.26

4-8" Wells and equipment 5/1/ New cost less value at time of trade, or less salvage value.2/ Assumes straight line depreciation.3/ (Investment + salvage) divided by 2 (7.5%) divided by annual hours of use.4/ Fuel, oil, lubrication, repair cost estimate taken from Bower, Modern Concepts of Farm Machinery Management.5/ See attached irrigation cost analysis. Assumes 350 ft. well, 1000 gpm, natural gas unit, and furrow irrigation.

ALFALFA, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Alfalfa, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Hay	ton	\$ 35.00 <u>1/</u>	6	\$210.00
2. Variable Costs:				
Pre-Harvest:				
1/4 Establishment	ac.	24.40	1	\$ 24.40
Fertilizer (0-50-0)	ac.	4.50	1	4.50
Labor, Irrigation	hr.	2.00	5.90	11.80
Irrigation, Machinery	ac.	24.00	1	24.00
Pickup Expense	ac.	7.00	1	7.00
Interest on Op. Cap.	\$	.09	35.85	3.23
Subtotal, Pre-Harvest				\$ 74.93
Harvest:				
Machinery (custom)	ton	10.00	6	\$ 60.00
Total Variable Costs				\$134.93
3. Income Above Variable Costs				\$ 75.07
4. Fixed Costs:				
Irrigation	ac.	41.28	1	\$ 41.28
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 59.28
5. Total Costs				\$194.21
6. Net Returns				\$ 15.79

1/ Alfalfa for cubing would add \$3./ton to the gross value but costs \$2./ton additional for harvesting.

ALFALFA, IRRIGATED, TRANS-PECOS REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Irrigation (2)		May-Sep	8	5.90		\$24.00	\$41.28

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

(2) Same as other except 6 acre inches per irrigation.

ALFALFA, IRRIGATED, TRANS-PECOS REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Hay	ton	\$ 35.00 <u>1/</u>	8	\$280.00
2. Variable Costs:				
Pre-Harvest:				
1/5 Establishment	ac.	19.48	1	\$ 19.48
Fertilizer (0-100-0)	ac.	9.00	1	9.00
Labor, Irrigation	ac.	1.75	7.38	12.92
Irrigation Machinery	ac.	30.00	1	30.00
Pickup Expense	ac.	5.00	1	5.00
Interest on Op. Cap.	\$	.09	38.20	3.44
Subtotal, Pre-Harvest				\$ 79.84
Harvest:				
Machinery (custom)	ton	10.00	8	\$ 80.00
Total Variable Costs				\$159.84
3. Income Above Variable Costs				\$120.16
4. Fixed Costs:				
Irrigation	ac.	51.60	1	\$ 51.60
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 69.60
5. Total Costs				\$229.44
6. Net Returns				\$ 50.56

1/ Alfalfa for cubing would add \$3./ton to the gross value but costs \$2./ton additional for harvesting.

ALFALFA, IRRIGATED, TRANS-PECOS REGIONEstimated Costs, And Requirements Per Acre Of Alfalfa, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
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Irrigation (2)		May-Sep	10	7.38		\$30.00	\$51.60
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(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) Same as other except 6 acre inches per irrigation.

BARLEY FOR GRAIN, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Barley For Grain, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	cwt.	\$ 2.10	43.2	\$ 90.72
Grazing	lbs./gain	.17	560	<u>95.20</u>
Total				\$185.92
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	4.00	1	\$ 4.00
Fertilizer (200-0-0)	ac.	9.00	1	9.00
Machinery	ac.	1.29	1	1.29
Tractor (15)	hr.	1.89	.45	.85
Tractor (16)	hr.	1.35	1.30	1.76
Tractor (17)	hr.	.65	.13	.08
Labor, Tractor & Machinery	ac.	2.00	2.35	4.70
Labor, Irrigation	ac.	1.75	2.95	5.16
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	5.00	1	5.00
Hail Insurance	\$100	13.15	.5	6.58
Interest on Op. Cap.	\$	.09	25.21	<u>2.27</u>
Subtotal, Pre-Harvest				\$ 52.69
Harvest:				
Machinery (custom)	ac.	5.00	1	\$ 5.00
Hauling	cwt.	.10	43.2	<u>4.32</u>
Subtotal, Harvest				\$ 9.32
Total Variable Costs				\$ 61.01
3. Income Above Variable Costs				\$123.91
4. Fixed Costs:				
Machinery	ac.	2.45	1	\$ 2.45
Tractor (15)	hr.	2.83	.45	1.27
Tractor (16)	hr.	1.85	1.30	2.41
Tractor (17)	hr.	.72	.13	.09
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	<u>18.00</u>
Total Fixed				\$ 44.86
5. Total Costs				\$106.87
6. Net Returns				\$ 79.05

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	15,20	Aug	1	.31	.25	\$.34	\$.31
Disc	16,19	Aug	2	.63	.50	.38	.71
Float	16,21	Aug	2	1.00	.80	.20	1.04
List	15,22	Aug	1	.25	.20	.14	.17
Drill	17,27	Sep	1	<u>.16</u>	<u>.13</u>	<u>.23</u>	<u>.22</u>
Total				2.35	1.88	\$ 1.29	\$ 2.45

Irrigation:

Preplant (2)	Aug	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Oct-Apr	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			2.95		\$ 12.00	\$ 20.64

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

BARLEY FOR GRAIN, IRRIGATED, TRANS-PECOS REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	cwt.	\$ 2.10	31.2	\$ 65.52
Grazing	lbs./gain	.17	480	<u>81.60</u>
Total				\$147.12
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	4.00	1	\$ 4.00
Fertilizer (100-0-0)	ac.	4.50	1	4.50
Machinery	ac.	.86	1	.86
Tractor (1)	hr.	1.54	2.66	4.10
Tractor (2)	hr.	.65	.17	.11
Labor, Tractor & Machinery	ac.	2.00	3.53	7.06
Labor, Irrigation	ac.	1.25	2.95	5.16
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	7.00	1	7.00
Hail Insurance	\$100	13.15	.5	6.58
Interest on Op. Cap.	\$	.09	25.69	<u>2.31</u>
Subtotal, Pre-Harvest				\$ 53.69
Harvest:				
Machinery (custom)	ac.	5.00	1	\$ 5.00
Hauling	cwt.	.10	31.2	<u>3.12</u>
Subtotal, Harvest				\$ 8.12
Total Variable Costs				\$ 61.81
3. Income Above Variable Costs				\$ 85.31
4. Fixed Costs:				
Machinery	ac.	1.80	1	\$ 1.80
Tractor (1)	hr.	1.85	2.66	4.92
Tractor (2)	hr.	.72	.17	.12
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	<u>18.00</u>
Total Fixed Costs				\$ 45.48
5. Total Costs				\$107.29
6. Net Returns				\$ 39.83

BARLEY FOR GRAIN, IRRIGATED, TRANS-PECOS REGIONEstimated Costs, And Requirements Per Acre Of Barley For Grain, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	1,5	Aug	1	1.11	.90	\$.30	\$.26
Disc	1,4	Aug	2	.83	.66	.11	.06
Float	1,6	Aug	2	1.00	.80	.20	1.04
List	1,7	Aug	1	.38	.30	.08	.10
Drill	2,12	Sep	1	<u>.21</u>	<u>.17</u>	<u>.17</u>	<u>.34</u>
Total				3.53	2.83	\$.86	\$ 1.80

Irrigation:

Preplant (2)	Aug	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Oct-Apr	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			2.95		\$12.00	\$20.64

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

CANTALOUPEs, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Cantaloupes, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Melons	crate	\$ 5.30	150	\$795.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	3.00	2	\$ 6.00
Fertilizer (180-50-0)	ac.	12.60	1	12.60
Machinery	ac.	1.86	1	1.86
Tractor (15)	hr.	1.89	.25	.47
Tractor (16)	hr.	1.35	2.08	2.81
Tractor (17)	hr.	.65	.62	.40
Labor, Tractor & Machinery	hr.	2.00	3.70	7.40
Labor, Hand	hr.	1.50	30.00	45.00
Labor, Irrigation	hr.	1.75	3.45	6.04
Irrigation Machinery	ac.	14.00	1	14.00
Pickup Expense	ac.	5.00	1	5.00
Interest on Op. Cap.	\$	.09	50.79	4.57
Subtotal, Pre-Harvest				\$106.15
Harvest:				
Hand Harvest	crate	.90	150	\$135.00
Pack and Sell	crate	2.30	150	345.00
Subtotal, Harvest				\$480.00
Total Variable Costs				\$586.15
3. Income Above Variable Costs				\$208.85
4. Fixed Costs:				
Machinery	ac.	3.40	1	\$ 3.40
Tractor (15)	hr.	2.83	.25	.71
Tractor (16)	hr.	1.85	2.08	3.85
Tractor (17)	hr.	.72	.62	.45
Irrigation	ac.	24.08	1	24.08
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 50.49
5. Total Costs				\$636.64
6. Net Returns				\$158.36

CANTALoupES, IRRIGATED, TRANS-PECOS REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	15,20	Jan	1	.31	.25	\$.34	\$.31
Disc	16,19	Feb	2	.63	.50	.38	.71
Float	16,21	Feb	2	1.00	.80	.20	1.04
List	15,22	May	1	.25	.20	.14	.17
Disc Ridge	16,29	May	1	.28	.22	.03	.24
Cultivate	17,26	May	1	.15	.12	.11	.15
Plant	17,30	May	1	.63	.50	.38	.55
Cultivate	16,25	Jun-Jul	3	.45	.36	.28	.23
Turn Vines		Jun-Jul	2	<u>30.00</u>			
Total				33.70	2.95	\$ 1.86	\$ 3.40

Irrigation:

Preplant (2)	Mar	1	1.48		\$ 6.00	\$10.32
Postplant (2)	Jun-Aug	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			3.45		\$14.00	\$24.08

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant and four acre inches per postplant.

CANTALOUPE, IRRIGATED, TRANS-PECOS REGION

Estimated Costs And Returns Per Acre Of Cantaloupes, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Melons	crate	\$ 5.30	100	\$530.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	3.00	2	\$ 6.00
Fertilizer (160-50-0)	ac.	11.70	1	11.70
Machinery	ac.	1.46	1	1.46
Tractor (1)	hr.	1.54	3.24	4.99
Tractor (2)	hr.	.65	.74	.48
Labor, Tractor & Machinery	ac.	2.00	4.97	9.94
Labor, Hand	hr.	1.50	30.00	45.00
Labor, Irrigation	hr.	1.75	2.96	5.18
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	7.00	1	7.00
Interest on Op. Cap.	\$	.09	51.88	4.67
Subtotal, Pre-Harvest				\$108.42
Harvest:				
Hand Harvest	crate	.90	100	\$ 90.00
Pack and Sell	crate	2.30	100	230.00
Subtotal, Harvest				\$320.00
Total Variable Costs				\$428.42
3. Income Above Variable Costs				\$101.58
4. Fixed Costs:				
Machinery	ac.	2.91	1	\$ 2.91
Tractor (1)	hr.	1.85	3.24	5.99
Tractor (2)	hr.	.72	.74	.53
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 48.07
5. Total Costs				\$476.49
6. Net Returns				\$ 53.51

CANTALOUPE, IRRIGATED, TRANS-PECOS REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	1,5	Jan	1	1.10	.90	\$.30	\$.26
Disc	1,4	Feb	2	.83	.66	.11	.06
Float	1,6	Feb	2	1.00	.80	.20	1.04
List	1,7	Mar	1	.38	.30	.08	.10
Disc Ridge	11,14	May	1	.28	.22	.03	.38
Cultivate	22,8	May	1	.18	.14	.07	.10
Plant	2,15	May	1	.75	.60	.46	.65
Cultivate	1,9	Jun-Jul	3	.45	.36	.21	.32
Turn Vines		Jun-Jul	2	<u>30.00</u>	—	—	—
Total				34.97	3.98	\$ 1.46	\$ 2.91

Irrigation:

Preplant (2)	Mar	1	1.48		\$ 6.00	\$10.32
Postplant (2)	Jun-Aug	3	<u>1.48</u>		<u>6.00</u>	<u>10.32</u>
Total			2.96		\$12.00	\$20.64

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant and four acre inches per postplant.

FORAGE SORGHUM FOR GRAZING, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of
Forage Sorghum For Grazing, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	lbs./gain	\$.17	1,000	\$170.00
2. Variable Costs:				
Seed	lb.	.17	10	\$ 1.70
Fertilizer (300-80-0)	ac.	20.70	1	20.70
Machinery	ac.	1.77	1	1.77
Tractor (15)	hr.	1.89	.45	.85
Tractor (16)	hr.	1.35	2.10	2.84
Tractor (17)	hr.	.65	.12	.08
Labor, Tractor & Machinery	hr.	2.00	3.34	6.68
Labor, Irrigation	hr.	1.75	3.44	6.02
Irrigation Machinery	ac.	14.00	1	14.00
Pickup Expense	ac.	5.00	1	5.00
Interest on Op. Cap.	\$	.09	29.82	<u>2.68</u>
Total Variable Costs				\$ 62.32
3. Income Above Variable Costs				\$107.68
4. Fixed Costs:				
Machinery	ac.	3.38	1	\$ 3.38
Tractor (15)	hr.	2.83	.45	1.27
Tractor (16)	hr.	1.85	2.10	3.89
Tractor (17)	hr.	.72	.12	.09
Irrigation	ac.	24.08	1	24.08
Land Charge	\$	.06	300	<u>18.00</u>
Total Fixed Costs				\$ 50.71
5. Total Costs				\$113.03
6. Net Returns				\$ 56.97

Estimated Costs, And Requirements Per Acre Of
Forage Sorghum For Grazing, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	15,20	Jan	1	.31	.25	\$.34	\$.31
Disc	16,19	Feb	2	.63	.50	.38	.71
Float	16,21	Feb	2	1.00	.80	.20	1.04
List	15,22	May	1	.25	.20	.14	.17
Cultivate	17,26	May	1	.15	.12	.11	.15
Plant	16,25	May	1	.25	.20	.16	.13
Shred	16,18	Jun-Sep	3	<u>.75</u>	<u>.60</u>	<u>.44</u>	<u>.87</u>
Total				3.34	2.67	\$ 1.77	\$ 3.38

Irrigation:

Preplant (2)	Apr	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Jun-Oct	5	<u>2.46</u>		<u>10.00</u>	<u>17.20</u>
Total			3.44		\$14.00	\$24.08

- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

FORAGE SORGHUM FOR GRAZING, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of
Forage Sorghum For Grazing, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	lbs./gain	\$.17	875	\$148.75
2. Variable Costs:				
Seed	lb.	.17	10	\$ 1.70
Fertilizer (200-80-0)	ac.	16.20	1	16.20
Machinery	ac.	1.03	1	1.03
Tractor (1)	hr.	1.54	3.83	5.90
Tractor (2)	hr.	.65	.14	.09
Labor, Tractor & Machinery	hr.	2.00	4.95	9.90
Labor, Irrigation	hr.	1.75	3.44	6.02
Irrigation Machinery	ac.	14.00	1	14.00
Pickup Expense	ac.	7.00	1	7.00
Interest on Op. Cap.	\$	.09	30.92	<u>2.78</u>
Total Variable Costs				\$ 64.62
3. Income Above Variable Costs				\$ 84.13
4. Fixed Costs				
Machinery	ac.	2.24	1	\$ 2.24
Tractor (1)	hr.	1.85	3.83	7.09
Tractor (2)	hr.	.72	.14	.10
Irrigation	ac.	24.08	1	24.08
Land Charge	\$	.06	300	<u>18.00</u>
Total Fixed Costs				\$ 51.51
5. Total Costs				\$116.13
6. Net Returns				\$ 32.62

FORAGE SORGHUM FOR GRAZING, IRRIGATED, TRANS-PECOS REGION

08085121

Estimated Costs, And Requirements Per Acre Of
Forage Sorghum For Grazing, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	1,5	Jan	1	1.10	.90	\$.30	\$.26
Disc	1,4	Feb	2	.83	.66	.11	.06
Float	1,6	Feb	2	1.00	.80	.20	1.04
List	1,7	Mar	1	.38	.30	.08	.10
Cultivate	2,8	May	1	.18	.14	.07	.10
Plant	1,10	May	1	.21	.17	.08	.28
Shred	1,3	Jun-Sep	3	<u>1.25</u>	<u>1.00</u>	<u>.19</u>	<u>.40</u>
Total				4.95	3.97	\$ 1.03	\$ 2.24

Irrigation:

Preplant (2)	Apr	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Jun-Oct	5	<u>2.46</u>		<u>10.00</u>	<u>17.20</u>
Total			3.44		\$14.00	\$24.08

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

PIMA COTTON, IRRIGATED, TRANS-PECOS REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Lint	lb.	\$.47	700	\$329.00
Seed	ton	65.00	.56	36.40
Total				\$365.40
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	12.00	36	\$ 3.64
Fertilizer (180-50-0)	ac.	12.60	1	12.60
Herbicide	qt.	6.25	1	6.25
Machinery	ac.	3.36	1	3.36
Tractor (15)	hr.	1.89	.85	1.61
Tractor (16)	hr.	1.35	2.30	3.11
Tractor (17)	hr.	.65	.60	.39
Labor, Tractor & Machinery	hr.	2.00	4.69	9.38
Labor, Irrigation	hr.	1.75	3.45	6.04
Irrigation Machinery	ac.	14.00	1	14.00
Insecticide (custom)		2.50	5	12.50
Pickup Expense	ac.	5.00	1	5.00
Hail Insurance	\$100	12.50	1	12.50
Interest on Op. Cap.	\$	.09	45.19	4.07
Subtotal, Pre-Harvest				\$ 94.45
Harvest:				
Machinery (custom)	lb.	.05	700	\$ 35.00
Ginning	bale	32.00	1.4	44.80
Subtotal, Harvest				\$ 79.80
Total Variable Costs				\$174.25
3. Income Above Variable Costs				\$191.15
4. Fixed Costs:				
Machinery	ac.	5.12	1	\$ 5.12
Tractor	hr.	2.83	.85	2.41
Tractor	hr.	1.85	2.30	4.26
Tractor	hr.	.72	.60	.43
Irrigation	ac.	24.08	1	24.08
Land Charge (Rent)	ac.	61.69	1	61.69
Total Fixed Costs				\$ 97.99
5. Total Costs				\$272.24
6. Net Return				\$ 93.16
7. Government Payments (less rent) (700 lbs @ 12.69¢/lb) <u>1/</u>				\$ 66.62
8. Net Return Including Government Payment				\$159.78

1/ Based on planted acres. No allowance made for set-aside acreage of 30.89%

PIMA COTTON, IRRIGATED, TRANS-PECOS REGION

08070111

Estimated Costs, And Requirements Per Acre Of Pima 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 Stalks	16,18	Jan	1	.50	.40	\$.29	\$ 1.06
Plow	15,20	Jan	1	.31	.25	.34	.31
Disc	16,19	Feb	2	.63	.50	.38	.71
Float	16,21	Feb	2	1.00	.80	.20	1.04
List	15,22	Feb	1	.25	.20	.14	.17
Cultivate	17,26	Feb	1	.15	.12	.11	.15
Apply Herbicide	17,23	Mar	1	.25	.20	.14	.18
Cultivate	17,26	Mar	1	.15	.12	.11	.15
Rototill	15,24	Apr	1	.50	.40	1.03	.77
Plant	16,25	Apr	1.2	.30	.24	.19	.15
Cultivate	17,26	May	1	.20	.16	.15	.20
Cultivate	16,25	Jun-Jul	3	<u>.45</u>	<u>.36</u>	<u>.28</u>	<u>.23</u>
Total				4.69	3.75	\$ 3.36	\$ 5.12

Irrigation:

Preplant (2)	Mar	1	1.48		\$ 6.00	\$10.32
Postplant (2)	Jun-Aug	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			3.45		\$14.00	\$24.08

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant and four acre inches per postplant.

PIMA COTTON, IRRIGATED, TRANS-PECOS REGION

08070122

Estimated Costs And Returns Per Acre Of Pima Cotton, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Lint	lb.	\$.47	450	\$211.50
Seed	ton	65.00	.36	23.40
Total				\$234.90
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	12.00	.36	\$ 3.64
Fertilizer (250-100-0)	ac.	20.25	1	20.25
Herbicide	qt.	6.25	1	6.25
Machinery	ac.	1.38	1	1.38
Tractor (1)	hr.	1.54	4.52	6.96
Tractor (2)	hr.	.36	.65	.23
Labor, Tractor & Machinery	hr.	2.00	5.60	11.20
Labor, Irrigation	hr.	1.75	3.45	6.04
Irrigation Machinery	ac.	14.00	1	14.00
Insecticide (custom)		2.50	10	25.00
Pickup Expense	ac.	7.00	1	7.00
Hail Insurance	\$100	12.00	1	12.50
Interest on Op. Cap.	\$	.09	57.23	5.15
Subtotal, Pre-Harvest				\$119.60
Harvest:				
Machinery (custom)	lb.	.05	450	\$ 22.50
Ginning	bale	32.00	.9	28.80
Subtotal, Harvest				\$ 51.30
Total Variable Costs				\$170.90
3. Income Above Variable Costs				\$ 64.00
4. Fixed Costs:				
Machinery	ac.	2.83	1	\$ 2.83
Tractor	hr.	1.85	4.52	8.36
Tractor	hr.	.72	.65	.47
Irrigation	ac.	24.08	1	24.08
Land Charge (Rent)	ac.	23.22	1	23.22
Total Fixed Costs				\$ 58.96
5. Total Costs				\$229.86
6. Net Returns				\$ 5.04
7. Government Payments (less rent) (450 lbs @ 12.69¢/lb) <u>1/</u>				\$ 42.83
8. Net Return Including Government Payment				\$ 47.87

1/ Based on planted acres. No allowance made for set-aside acreage of 30.89%.

PIMA COTTON, IRRIGATED, TRANS-PECOS REGION

Estimated Costs, And Requirements Per Acre Of Pima 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 Stalks	1,3	Jan	1	.50	.40	\$.08	\$.16
Plow	1,5	Jan	1	1.11	.90	.30	.26
Disc	1,4	Feb	2	.83	.66	.11	.06
Float	1,6	Feb	2	1.00	.80	.20	1.04
List	1,7	Mar	1	.38	.30	.08	.10
Apply Herbicide	2,11	Apr	1	.28	.22	.16	.19
Disc	1,4	Apr	1	.38	.30	.05	.16
Disc	1,4	May	1	.25	.20	.03	.11
Plant	1,10	May	1.2	.24	.20	.09	.33
Cultivate	2,8	May	1	.18	.14	.07	.10
Cultivate	1,9	Jun-Jul	3	<u>.45</u>	<u>.36</u>	<u>.21</u>	<u>.32</u>
Total				5.60	4.88	\$ 1.38	\$ 2.83

Irrigation:

Preplant (2)	Apr	1	1.48		\$ 6.00	\$10.32
Postplant (2)	Jun-Aug	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			3.45		\$14.00	\$24.08

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant and four are inches per postplant.

UPLAND COTTON, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Upland Cotton, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Lint	lb.	\$.30	875	\$262.50
Seed	ton	65.00	.7	45.50
Total				<u>\$308.00</u>
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	12.00	36	\$ 3.64
Fertilizer (180-50-0)	ac.	12.60	1	12.60
Herbicide	qt.	6.25	1	6.25
Machinery	ac.	3.36	1	3.36
Tractor (15)	hr.	1.89	.85	1.61
Tractor (16)	hr.	1.35	2.30	3.11
Tractor (17)	hr.	.65	.60	.39
Labor, Tractor & Machinery	hr.	2.00	4.69	9.38
Labor, Irrigation	hr.	1.75	3.45	6.04
Irrigation Machinery	ac.	14.00	1	14.00
Insecticide (custom)		2.50	5	12.50
Pickup Expense	ac.	5.00	1	5.00
Hail Insurance	\$100	12.50	1	12.50
Interest on Op. Cap.	\$	.09	45.19	4.07
Subtotal, Pre-Harvest				<u>\$ 94.45</u>
Harvest:				
Machinery (custom)	lb.	.05	875	\$ 43.75
Ginning	bale	22.00	1.75	38.50
Subtotal, Harvest				<u>\$ 82.25</u>
Total Variable Costs				\$176.70
3. Income Above Variable Costs				\$131.30
4. Fixed Costs:				
Machinery	ac.	5.12	1	\$ 5.12
Tractor	hr.	2.83	.85	2.41
Tractor	hr.	1.85	2.30	4.26
Tractor	hr.	.72	.60	.43
Irrigation	ac.	24.08	1	24.08
Land Charge (Rent)	ac.	57.32	1	<u>57.32</u>
Total Fixed Costs				\$ 93.62
5. Total Costs				\$270.32
6. Net Returns				\$ 37.68
7. Government Payment (less rent) (875 lbs @ 15¢/16) <u>1/</u>				\$ 98.44
8. Net Return Including Government Payment				\$136.12

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

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

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UPLAND COTTON, IRRIGATED, TRANS-PECOS REGION

Estimated Costs, And Requirements Per Acre Of Upland 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 Stalks	16,18	Jan	1	.50	.40	\$.29	\$ 1.06
Plow	15,20	Jan	1	.31	.25	.34	.31
Disc	16,19	Feb	2	.63	.50	.38	.71
Float	16,21	Feb	2	1.00	.80	.20	1.04
List	15,22	Feb	1	.25	.20	.14	.17
Cultivate	17,26	Feb	1	.15	.12	.11	.15
Apply Herbicide	17,23	Mar	1	.25	.20	.14	.18
Cultivate	17,26	Mar	1	.15	.12	.11	.15
Rototill	15,24	Apr	1	.50	.40	1.03	.77
Plant	16,25	Apr	1.2	.30	.24	.19	.15
Cultivate	17,26	May	1	.20	.16	.15	.20
Cultivate	16,25	Jun-Jul	3	<u>.45</u>	<u>.36</u>	<u>.28</u>	<u>.23</u>
Total				4.69	3.75	\$ 3.36	\$ 5.12

Irrigation:

Preplant (2)	Mar	1	1.48		\$ 6.00	\$10.32
Postplant (2)	Jun-Aug	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			3.45		\$14.00	\$24.08

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant and four acre inches per postplant.

UPLAND COTTON, IRRIGATED, TRANS-PECOS REGION

Estimated Costs And Returns Per Acre Of Upland Cotton, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Lint	lb.	\$.30	700	\$210.00
Seed	ton	65.00	.56	36.40
Total				\$246.40
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	12.00	.36	\$ 3.64
Fertilizer (250-100-0)	ac.	20.25	1	20.25
Herbicide	qt.	6.25	1	6.25
Machinery	ac.	1.38	1	1.38
Tractor (1)	hr.	1.54	4.52	6.96
Tractor (2)	hr.	.65	.36	.23
Labor, Tractor & Machinery	hr.	2.00	5.60	11.20
Labor, Irrigation	hr.	1.75	3.45	6.04
Irrigation Machinery	ac.	14.00	1	14.00
Insecticide (custom)		2.50	10	25.00
Pickup Expense	ac.	7.00	1	7.00
Hail Insurance	\$100	12.50	1	12.50
Interest on Op. Cap.	\$	.09	57.23	5.15
Subtotal, Pre-Harvest				\$119.60
Harvest:				
Machinery	lb.	.05	700	\$ 35.00
Ginning	bale	22.00	1.4	30.80
Subtotal, Harvest				\$ 65.80
Total Variable Costs				\$185.40
3. Income Above Variable Costs				\$ 61.00
4. Fixed Costs:				
Machinery	ac.	2.83	1	\$ 2.83
Tractor (1)	hr.	1.85	4.52	8.36
Tractor (2)	hr.	.72	.65	.47
Irrigation	ac.	24.08	1	24.08
Land Charge (Rent)	ac.	34.45	1	34.45
Total Fixed Costs				\$ 70.19
5. Total Costs				\$255.59
6. Net Returns				\$ (9.19)
7. Government Payments (less rent) (700 lbs @ 15¢/lb) <u>1/</u>				\$ 78.75
8. Net Return Including Government Payment				\$ 69.56

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

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

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UPLAND COTTON, IRRIGATED, TRANS-PECOS REGIONEstimated Costs, And Requirements Per Acre Of Upland 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 Stalks	1,3	Jan	1	.50	.40	\$.08	\$.16
Plow	1,5	Jan	1	1.11	.90	.30	.26
Disc	1,4	Feb	2	.83	.66	.11	.06
Float	1,6	Feb	2	1.00	.80	.20	1.04
List	1,7	Mar	1	.38	.30	.08	.10
Apply Herbicide	2,11	Apr	1	.28	.22	.16	.19
Disc	1,4	Apr	1	.38	.30	.05	.16
Disc	1,4	May	1	.25	.20	.03	.11
Plant	1,10	May	1.2	.24	.20	.09	.33
Cultivate	2,8	May	1	.18	.14	.07	.10
Cultivate	1,9	Jun-Jul	3	<u>.45</u>	<u>.36</u>	<u>.21</u>	<u>.32</u>
Total				5.60	4.88	\$ 1.38	\$ 2.83

Irrigation:

Preplant (2)	Apr	1	1.48		\$ 6.00	\$10.32
Postplant (2)	Jun-Aug	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			3.45		\$14.00	\$24.08

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant and four acre inches per postplant.

GRAIN SORGHUM, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Grain Sorghum, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain Sorghum	cwt.	\$ 2.10	55	\$115.50
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.17	7	\$ 1.19
Fertilizer (180-60-0)	ac.	13.50	1	13.50
Machinery	ac.	1.68	1	1.68
Tractor (15)	hr.	1.89	.45	.85
Tractor (16)	hr.	1.35	1.75	2.36
Tractor (17)	hr.	.65	.28	.18
Labor, Tractor & Machinery	hr.	2.00	3.09	6.18
Labor, Irrigation	hr.	1.75	2.95	5.16
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	5.00	1	5.00
Insecticide (custom)	ac.	6.00	1	6.00
Interest on Op. Cap.	\$	.09	27.05	2.43
Subtotal, Pre-Harvest				\$ 56.54
Harvest:				
Machinery (custom)	ac.	5.00	1	\$ 5.00
Hauling	cwt.	.10	55	5.50
Subtotal, Harvest				\$ 10.50
Total Variable Costs				\$ 67.04
3. Income Above Variable Costs				\$ 48.46
4. Fixed Costs:				
Machinery	ac.	2.87	1	\$ 2.87
Tractor (15)	hr.	2.83	.45	1.29
Tractor (16)	hr.	1.85	1.75	3.24
Tractor (17)	hr.	.72	.28	.20
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 46.24
5. Total Costs				\$113.28
6. Net Returns				\$ 2.22

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	15,20	Jan	1	.31	.25	\$.34	\$.31
Disc	16,19	Feb	2	.63	.50	.38	.71
Float	16,21	Feb	2	1.00	.80	.20	1.04
List	15,22	Mar	1	.25	.20	.14	.17
Cultivate	17,26	May	1	.15	.12	.11	.15
Plant	16,25	Jun	1	.25	.20	.16	.13
Cultivate	17,26	Jun	1	.20	.16	.15	.20
Cultivate	16,25	Jun-Jul	2	<u>.30</u>	<u>.25</u>	<u>.20</u>	<u>.16</u>
Total				3.09	2.48	\$ 1.68	\$ 2.87

Irrigation:

Preplant (2)	May	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Jun-Jul	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			2.95		\$12.00	\$20.64

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

GRAIN SORGHUM, IRRIGATED, TRANS-PECOS REGIONEstimated 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.	\$ 2.10	40	\$ 84.00
2. Variable Costs:				
Seed	lb.	.17	7	\$ 1.19
Fertilizer (100-50-0)	ac.	9.00	1	9.00
Machinery	ac.	1.06	1	1.06
Tractor (1)	hr.	1.54	3.08	4.74
Tractor (2)	hr.	.65	.28	.18
Labor, Tractor & Machinery	hr.	2.00	4.19	8.38
Labor, Irrigation	hr.	1.75	2.46	4.31
Irrigation Machinery	ac.	10.00	1	10.00
Pickup Expense	ac.	7.00	1	7.00
Interest on Op. Cap.	\$	.09	22.93	2.06
Subtotal, Pre-Harvest				\$ 47.92
Harvest:				
Machinery (custom)	ac.	5.00	1	\$ 5.00
Hauling	cwt.	.10	40	4.00
Subtotal, Harvest				\$ 9.00
Total Variable Costs				\$ 56.92
3. Income Above Variable Costs				\$ 27.08
4. Fixed Costs:				
Machinery	ac.	2.16	1	\$ 2.16
Tractor (1)	hr.	1.85	3.08	5.70
Tractor (2)	hr.	.72	.28	.20
Irrigation	ac.	17.20	1	17.20
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 43.26
5. Total Costs				\$100.18
6. Net Returns				\$(16.18)

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	1,5	Jan	1	1.10	.90	\$.30	\$.26
Disc	1,4	Feb	2	.83	.66	.11	.06
Float	1,6	Feb	2	1.00	.80	.20	1.04
List	1,7	Mar	1	.38	.30	.08	.10
Cultivate	2,8	May	1	.18	.14	.07	.10
Plant	1,10	Jun	1	.21	.17	.08	.28
Cultivate	2,8	Jun	1	.18	.14	.07	.10
Cultivate	1,9	Jun-Jul	2	<u>.31</u>	<u>.25</u>	<u>.15</u>	<u>.22</u>
Total				4.19	3.36	\$ 1.06	\$ 2.16

Irrigation:

Preplant (2)	May	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Jun-Jul	3	<u>1.48</u>		<u>6.00</u>	<u>10.32</u>
Total			2.46		\$10.00	\$17.20

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

OATS FOR GRAZING, IRRIGATED, TRANS-PECOS REGION

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	lbs./gain	\$.17	470	\$ 79.90
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	4.00	1	\$ 4.00
Fertilizer (150-0-0)	ac.	6.75	1	6.75
Machinery	ac.	.86	1	.86
Tractor (1)	hr.	1.54	2.66	4.10
Tractor (2)	hr.	.65	.17	.11
Labor, Tractor & Machinery	ac.	2.00	3.53	7.06
Labor, Irrigation	ac.	1.75	2.95	5.16
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	7.00	1	7.00
Interest on Op. Cap.	\$	.09	23.52	2.12
Subtotal, Pre-Harvest				\$ 49.16
Total Variable Costs				\$ 49.16
3. Income Above Variable Costs				\$ 30.74
4. Fixed Costs:				
Machinery	ac.	1.80	1	\$ 1.80
Tractor (1)	hr.	1.85	2.66	4.92
Tractor (2)	hr.	.72	.17	.12
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 45.48
5. Total Costs				\$ 94.64
6. Net Returns				\$(14.74)

OATS FOR GRAZING, IRRIGATED, TRANS-PECOS REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	1,5	Aug	1	1.11	.90	\$.30	\$.26
Disc	1,4	Aug	2	.83	.66	.11	.06
Float	1,6	Aug	2	1.00	.80	.20	1.04
List	1,7	Aug	1	.38	.30	.08	.10
Drill	2,12	Sep	1	<u>.21</u>	<u>.17</u>	<u>.17</u>	<u>.34</u>
Total				3.53	2.83	\$.86	\$ 1.80

Irrigation:

Preplant (2)	Aug	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Oct-Apr	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			2.95		\$12.00	\$20.64

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and 4 acre inches per postplant.

WHEAT FOR GRAIN, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Wheat For Grain, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	cwt.	\$ 2.10	42	\$ 88.20
Grazing	lbs./gain	.17	560	<u>95.20</u>
Total				\$183.40
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	4.00	1	\$ 4.00
Fertilizer (200-0-0)	ac.	9.00	1	9.00
Machinery	ac.	1.29	1	1.29
Tractor (15)	hr.	1.89	.45	.85
Tractor (16)	hr.	1.35	1.30	1.76
Tractor (17)	hr.	.65	.13	.08
Labor, Tractor & Machinery	ac.	2.00	2.35	4.70
Labor, Irrigation	ac.	1.75	2.95	5.16
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	5.00	1	5.00
Hail Insurance	\$100	13.15	.5	6.58
Interest on Op. Cap.	\$	.09	25.21	<u>2.27</u>
Subtotal, Pre-Harvest				\$ 52.69
Harvest:				
Machinery (custom)	ac.	5.00	1	\$ 5.00
Hauling	cwt.	.10	42	<u>4.20</u>
Subtotal, Harvest				\$ 9.20
Total Variable Costs				\$ 61.89
3. Income Above Variable Costs				\$121.51
4. Fixed Costs:				
Machinery	ac.	2.45	1	\$ 2.45
Tractor (15)	hr.	2.83	.45	1.27
Tractor (16)	hr.	1.85	1.30	2.41
Tractor (17)	hr.	.72	.13	.09
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	<u>18.00</u>
Total Fixed Costs				\$ 44.86
5. Total Costs				\$106.75
6. Net Returns				\$ 76.65

WHEAT FOR GRAIN, IRRIGATED, TRANS-PECOS REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	15,20	Aug	1	.31	.25	\$.34	\$.31
Disc	16,19	Aug	2	.63	.50	.38	.71
Float	16,21	Aug	2	1.00	.80	.20	1.04
List	15,22	Aug	1	.25	.20	.14	.17
Drill	17,27	Sep	1	<u>.16</u>	<u>.13</u>	<u>.23</u>	<u>.22</u>
Total				2.35	1.88	\$ 1.29	\$ 2.45

Irrigation:

Preplant (2)	Aug	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Oct-Apr	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			2.95		\$12.00	\$20.64

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

WHEAT FOR GRAIN, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Wheat For Grain, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	cwt.	\$ 2.10	27	\$ 56.70
Grazing	lbs./gain	.17	480	<u>81.60</u>
Total				\$138.30
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	4.00	1	\$ 4.00
Fertilizer (100-0-0)	ac.	4.50	1	4.50
Machinery	ac.	.86	1	.86
Tractor (1)	hr.	1.54	2.66	4.10
Tractor (2)	hr.	.65	.17	.11
Labor, Tractor & Machinery	ac.	2.00	3.53	7.06
Labor, Irrigation	ac.	1.75	2.95	5.16
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	7.00	1	7.00
Hail Insurance	\$100	13.15	.5	6.58
Interest on Op. Cap.	\$	.09	25.69	<u>2.31</u>
Subtotal, Pre-Harvest				\$ 53.69
Harvest:				
Machinery (custom)	ac.	5.00	1	\$ 5.00
Hauling	cwt.	.10	27	<u>2.70</u>
Subtotal, Harvest				\$ 7.70
Total Variable Costs				\$ 61.39
3. Income Above Variable Costs				\$ 76.91
4. Fixed Costs:				
Machinery	ac.	1.80	1	\$ 1.80
Tractor (1)	hr.	1.85	2.66	4.92
Tractor (2)	hr.	.72	.17	.12
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	<u>18.00</u>
Total Fixed Costs				\$ 45.48
5. Total Costs				\$106.87
6. Net Returns				\$ 31.43

WHEAT FOR GRAIN, IRRIGATED, TRANS-PECOS REGION

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	1,5	Aug	1	1.11	.90	\$.30	\$.26
Disc	1,4	Aug	2	.83	.66	.11	.06
Float	1,6	Aug	2	1.00	.80	.20	1.04
List	1,7	Aug	1	.38	.30	.08	.10
Drill	2,12	Sep	1	<u>.21</u>	<u>.17</u>	<u>.17</u>	<u>.34</u>
Total				3.53	2.83	\$.86	\$ 1.80

Irrigation:

Preplant (2)	Aug	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Oct-Apr	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			2.95		\$12.00	\$20.64

- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.

TEXAS TRANS-PECOS REGION

Estimated Costs Of Irrigation Water

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

TEXAS TRANS-PECOS REGION

Estimated Costs Of Irrigation Water

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

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

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

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

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

ALFALFA ESTABLISHMENT, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Alfalfa Establishment, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Seed	lb.	\$.50	30	\$ 15.00
Fertilizer (0-80-0)	ac.	7.20	1	7.20
Machinery	ac.	1.16	1	1.16
Tractor (15)	hr.	1.89	.25	.47
Tractor (16)	hr.	1.35	1.38	1.86
Tractor (17)	hr.	.65	.13	.08
Labor, Tractor & Machinery	ac.	2.00	2.20	4.40
Labor, Irrigation	ac.	1.75	2.84	4.97
Irrigation Machinery	ac.	11.50	1	11.50
Pickup Expense	ac.	5.00	1	5.00
Interest on Op. Cap.	\$	.09	25.82	2.32
Total Variable Costs				\$ 53.96
3. No Income				
4. Fixed Costs:				
Machinery	ac.	2.31	1	\$ 2.31
Tractor (1)	hr.	2.83	.25	.71
Tractor (2)	hr.	1.85	1.38	2.55
Tractor (3)	hr.	.72	.13	.09
Irrigation	ac.	19.78	1	19.78
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 43.44
5. Total Costs				\$ 97.40

ALFALFA ESTABLISHMENT, IRRIGATED, TRANS-PECOS REGION

08006111

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	15,20	Aug	1	.31	.25	\$.34	\$.31
Disc	16,19	Aug	2	.63	.50	.38	.71
Float	16,21	Aug	2	1.00	.80	.20	1.04
Establish Borders	16,28	Aug	1	.10	.08	.01	.03
Plant	17,27	Sep	1	<u>.16</u>	<u>.13</u>	<u>.23</u>	<u>.22</u>
Total				2.20	1.76	\$ 1.16	\$ 2.31

Irrigation:

Preplant (2)	Sep	1	1.48		\$ 6.00	\$10.32
Flash (2)	Sep	3	.74		3.00	5.16
Postplant (2)	Nov	1	<u>.62</u>		<u>2.50</u>	<u>4.30</u>
Total			2.84		\$11.50	\$19.78

- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant and four acre inches per postplant.

ALFALFA ESTABLISHMENT, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre Of Alfalfa Establishment, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Seed	lb.	\$.50	30	\$ 15.00
Fertilizer (0-40-0)	ac.	3.60	1	3.60
Machinery	ac.	.79	1	.79
Tractor (1)	hr.	1.54	2.44	3.76
Tractor (2)	hr.	.65	.17	.11
Labor, Tractor & Machinery	ac.	2.00	3.25	7.50
Labor, Irrigation	ac.	1.75	2.59	4.53
Irrigation Machinery	ac.	10.50	1	10.50
Pickup Expense	ac.	7.00	1	7.00
Interest on Op. Cap.	\$	.09	26.40	2.38
Total Variable Costs				\$ 55.17
3. No Income				
4. Fixed Costs:				
Machinery	ac.	1.75	1	\$ 1.75
Tractor (1)	hr.	1.85	2.44	4.51
Tractor (2)	hr.	.72	.17	.12
Irrigation	ac.	18.06	1	18.06
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 42.44
5. Total Costs				\$ 97.61

ALFALFA ESTABLISHMENT, IRRIGATED, TRANS-PECOS REGION

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Estimated Costs, And Requirements Per Acre Of
Alfalfa 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
Plow	1,5	Aug	1	1.11	.90	\$.30	\$.26
Disc	1,4	Aug	2	.83	.66	.11	.06
Float	1,6	Aug	2	1.00	.80	.20	1.04
Establish Borders	1,13	Aug	1	.10	.08	.01	.05
Plant	2,12	Sep-Oct	1	<u>.21</u>	<u>.17</u>	<u>.17</u>	<u>.34</u>
Total				3.25	2.61	\$.79	\$ 1.75

Irrigation:

Preplant (2)	Sep	1	1.48		\$ 6.00	\$10.32
Flash	Sep	2	.49		2.00	3.44
Postplant (2)	Nov	1	<u>.62</u>		<u>2.50</u>	<u>4.30</u>
Total			2.59		\$10.50	\$18.06

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 12 acre inches preplant, 2 acre inches per flash irrigation, and 5 acre inches per postplant.

OATS FOR GRAZING, IRRIGATED, TRANS-PECOS REGIONEstimated Costs And Returns Per Acre of Oats For Grazing, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	lbs./gain	\$.17	630	\$107.10
2. Variable Costs:				
Pre-Harvest:				
Seed	cwt.	4.00	1	\$ 4.00
Fertilizer (250-0-0)	ac.	11.25	1	11.25
Machinery	ac.	1.29	1	1.29
Tractor (15)	hr.	1.89	.45	.85
Tractor (16)	hr.	1.35	1.30	1.76
Tractor (17)	hr.	.65	.13	.08
Labor, Tractor & Machinery	ac.	2.00	2.35	4.70
Labor, Irrigation	ac.	1.75	2.95	5.16
Irrigation Machinery	ac.	12.00	1	12.00
Pickup Expense	ac.	7.00	1	7.00
Interest on Op. Cap.	\$	.09	24.05	2.16
Subtotal, Pre-Harvest				\$ 50.25
Total Variable Costs				\$ 50.25
3. Income Above Variable Costs				\$ 56.85
4. Fixed Costs:				
Machinery	ac.	2.45	1	\$ 2.45
Tractor (15)	hr.	2.83	.45	1.27
Tractor (16)	hr.	1.85	1.30	2.41
Tractor (17)	hr.	.72	.13	.09
Irrigation	ac.	20.64	1	20.64
Land Charge	\$	.06	300	18.00
Total Fixed Costs				\$ 44.86
5. Total Costs				\$ 95.11
6. Net Returns				\$ 11.99

OATS FOR GRAZING, IRRIGATED, TRANS-PECOS REGIONEstimated Costs, And Requirements Per Acre Of Oats For Grazing, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Plow	15,20	Aug	1	.31	.25	\$.34	\$.31
Disc	16,19	Aug	2	.63	.50	.38	.71
Float	16,21	Aug	2	1.00	.80	.20	1.04
List	15,22	Aug	1	.25	.20	.14	.17
Drill	17,27	Sept	1	<u>.16</u>	<u>.13</u>	<u>.23</u>	<u>.22</u>
Total				2.35	1.88	\$ 1.29	\$ 2.45

Irrigation:

Preplant (2)	Aug	1	.98		\$ 4.00	\$ 6.88
Postplant (2)	Oct-Apr	4	<u>1.97</u>		<u>8.00</u>	<u>13.76</u>
Total			2.95		\$12.00	\$20.64

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

(2) See attached irrigation cost sheet. Assumed at 1,000 gpm, 350 feet well, furrow irrigation, natural gas pumping unit; 8 acre inches preplant and four acre inches per postplant.