



TEXAS HIGH PLAINS IV

FOREWORD

Enterprise budgets were developed for all crops that are produced on at least 1 percent of the cropped land in the sandylands soil resource area. This area includes Gaines, Terry and Yoakum counties.

All budgets on irrigated crops reflect the assumption of adequate supplies of underground irrigation water to obtain optimum production. All crops were assumed irrigated with sideroll sprinkler except alfalfa which was budgeted with self-propelled center pivot systems.

The enterprise budgets developed for High Plains IV were based on the following assumed organizations.

	Irrigated (acres)	Dryland (acres)
Farm size	800	1600
Cotton allotment	265	530
Feed grain base	400	800
Other cropland	155	270

The machinery inventory (04000500) is applicable to all situations since no difference in equipment was found between managerial levels, and dryland units in the area have equipment inventories comparable to irrigated farms of about one-half their acreage.

All calculations of government payments and comments concerning set-aside requirements are based on the 1971 farm program. All government payments indicated herein are net of normal crop share rent.

Land charges were calculated as the landlord's share of the gross income less his proportionate share of the variable inputs, if applicable, and 80 percent of the fixed cost on the irrigation system. Normal crop share rentals in this area provide for the landlord to pay a portion of the cost of chemicals and harvest on most crops. The exceptions in these budgets are alfalfa and permanent pasture where the landlord pays none of the cost of variable inputs. A land charge of \$20 per acre was used for the establishment of both alfalfa and permanent pasture. The following crop shares were assumed:

Crop	Landlord's Share
Cotton	1/4
Grain sorghum	1/3
Wheat	1/3
Castors	1/3
Alfalfa	1/4
Permanent pasture	1/4
Southern peas	1/3

TEXAS HIGH PLAINS IV

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
250	300	side roll	nat. gas	.78	1.45	.063	.11	2.34
		furrow	nat. gas	.50	1.00	.123	.22	1.72
	400	side roll	nat. gas	.77	1.36	.063	.11	2.24
		s. propelled	nat. gas	1.14	1.48	.022	.04	2.66
		furrow	nat. gas	.46	.92	.123	.22	1.60
	600	side roll	nat. gas	.78	1.25	.063	.11	2.14
		s. propelled	nat. gas	1.15	1.37	.022	.04	2.56
		furrow	nat. gas	.46	.81	.123	.22	1.49
	800	side roll	nat. gas	.77	1.19	.063	.11	2.07
		s. propelled	nat. gas	1.12	1.31	.022	.04	2.47
		furrow	nat. gas	.46	.75	.123	.22	1.43
300	400	side roll	nat. gas	.79	1.47	.063	.11	2.37
		s. propelled	nat. gas	1.16	1.57	.022	.04	2.77
		furrow	nat. gas	.48	1.01	.123	.22	1.71
	600	side roll	nat. gas	.80	1.33	.063	.11	2.24
		s. propelled	nat. gas	1.15	1.45	.022	.04	2.64
		furrow	nat. gas	.48	.88	.123	.22	1.58
	800	side roll	nat. gas	.78	1.26	.063	.11	2.15
		s. propelled	nat. gas	1.14	1.37	.022	.04	2.55
		furrow	nat. gas	.48	.81	.123	.22	1.51
	1000	side roll	nat. gas	.77	1.24	.063	.11	2.12
		s. propelled	nat. gas	1.13	1.36	.022	.04	2.53
		furrow	nat. gas	.47	.80	.123	.22	1.49

TEXAS HIGH PLAINS IV

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.

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: Alfalfa	ton	\$ 20.00	8.5	\$170.00
2. Variable Costs:				
Fertilizer (0-120-80)	ac.	14.80	1	14.80
Tractor (3)	hr.	.63	.2	.13
Labor, Tractor & Machinery	hr.	2.00	.3	.60
Labor Irrigation	hr.	2.00	.7	1.40
Irrigation Machinery	ac. in.	1.15	33	37.95
Interest on Op. Cap.	mo.	.085	6	<u>2.33</u>
Total Variable Costs				\$ 57.21
3. Income Above Variable Costs				\$112.79
4. Fixed Costs:				
Tractor (3)	hr.	.72	.2	\$.14
Irrigation	ac. in.	1.37	33	45.21
Land Charge	ac.	6.33	1	6.33
Establishment Cost <u>1/</u>	ac.	12.45	1	<u>12.45</u>
Total Fixed Costs				\$ 64.13
5. Total Costs				\$121.34
6. Net Returns to Management				\$ 48.66

1/ Based on stand remaining seven years.

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Fertilize	3	Mar	1	.25	.20	-	-

Irrigation: (2)

Postplant	Mar-Sep	11	.73*			\$37.95	\$45.21
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- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, center pivot sprinkler irrigation, natural gas pumping unit, and 3 acre-inches at each irrigation.

ALFALFA, IRRIGATED, HIGH PLAINS IV

04005122

Estimated Costs And Returns Per Acre Of Alfalfa, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production: Alfalfa	ton	\$ 20.00	6.5	\$130.00
2. Variable Costs:				
Fertilizer (0-100-60)	ac.	12.00	1	\$ 12.00
Tractor (3)	hr.	.63	.2	.13
Labor, Tractor & Machinery	hr.	2.00	.3	.60
Labor Irrigation	hr.	2.00	.5	1.00
Irrigation Machinery	ac. in.	1.15	24	27.60
Interest on Op. Cap.	mo.	.085	6	1.76
Total Variable Costs				\$ 43.09
3. Income Above Variable Costs				\$ 86.91
4. Fixed Costs:				
Tractor (3)	hr.	.72	.2	\$.14
Irrigation	ac. in.	1.37	24	32.88
Land Charge	ac.	6.20	1	6.20
Establishment Cost <u>1/</u>	ac.	11.84	1	11.84
Total Fixed Costs				\$ 51.06
5. Total Costs				\$ 94.15
6. Net Returns to Management				\$ 35.85

1/ Based on stand remaining seven years.

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ALFALFA, IRRIGATED, HIGH PLAINS IV

04005121

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
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Fertilize	3	Mar	1	.25	.20	-	-
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Irrigation: (2)

Postplant		Mar-Sep	8	.53*		\$27.60	\$32.88
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- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, center pivot sprinkler irrigation, natural gas pumping unit, and 3 acre-inches at each irrigation.

ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS IV

04006112

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Seed	lb.	\$.50	22	\$ 11.00
Fertilizer (20-120-100)	ac.	17.40	1	17.40
Machinery	ac.	.76	1	.76
Tractor (1)	hr.	1.48	.8	1.18
Tractor (2)	hr.	1.38	.9	1.24
Labor, Tractor & Machinery	hr.	2.00	1.9	3.80
Labor Irrigation	hr.	2.00	.2	.40
Irrigation Machinery	ac. in.	1.15	10	11.50
Interest on Op. Cap.	mo.	.085	6	<u>2.01</u>
Total Variable Costs				\$ 49.29
3. Income Above Variable Costs				\$(49.29)
4. Fixed Costs:				
Machinery	ac.	1.70	1	\$ 1.70
Tractor (1)	hr.	1.72	.8	1.38
Tractor (2)	hr.	1.19	.9	1.07
Irrigation	ac. in.	1.37	10	13.70
Land Charge	ac.	20.00	1	<u>20.00</u>
Total Fixed Costs				\$ 37.85
5. Total Costs				\$ 87.14
6. Net Cost of Establishment				\$ 87.14

ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS IV
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
Moldboard	1,6,15	Jul	1	.63	.50	\$.27	\$.64
Tandem Disc	2,5	Aug	1	.31	.25	.18	.23
Fertilize	2	Aug	1	.25	.20	-	-
Tandem Disc	1,5	Aug	1	.31	.25	.18	.23
Plant	2,12	Sep	1	<u>.38</u>	<u>.30</u>	<u>.13</u>	<u>.60</u>
Total				1.88	1.50	\$.76	\$ 1.70

Irrigation: (2)

Preplant	Aug	1	.09*		\$ 4.60	\$ 5.48
Postplant	Sep-Nov	2	<u>.13*</u>		<u>6.90</u>	<u>8.22</u>
Total			.22*		\$11.50	\$13.70

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

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, center pivot sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS IVEstimated 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	22	\$ 11.00
Fertilizer (20-100-60)	ac.	13.60	1	13.60
Machinery	ac.	.76	1	.76
Tractor (1)	hr.	1.48	.8	1.18
Tractor (2)	hr.	1.38	.8	1.10
Labor, Tractor & Machinery	hr.	2.00	1.9	3.80
Labor Irrigation	hr.	2.00	.2	.40
Irrigation Machinery	ac. in.	1.15	10	11.50
Interest on Op. Cap.	mo.	.085	6	<u>1.84</u>
Total Variable Costs				\$ 45.18
3. Income Above Variable Costs				\$(45.18)
4. Fixed Costs:				
Machinery	ac.	1.70	1	\$ 1.70
Tractor (1)	hr.	1.72	.8	1.38
Tractor (2)	hr.	1.19	.8	.95
Irrigation	ac. in.	1.37	10	13.70
Land Charge	ac.	20.00	1	<u>20.00</u>
Total Fixed Costs				\$ 37.73
5. Total Costs				\$ 82.91
6. Net Cost of Establishment				\$ 82.91

ALFALFA ESTABLISHMENT, IRRIGATED, HIGH PLAINS IV

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
Moldboard	1,6,15	Jul	1	.63	.50	\$.27	\$.64
Tandem Disc	2,5	Aug	1	.31	.25	.18	.23
Fertilize	2	Aug	1	.25	.20	-	-
Tandem Disc	1,5	Aug	1	.31	.25	.18	.23
Plant	2,12	Sep	1	<u>.38</u>	<u>.30</u>	<u>.13</u>	<u>.60</u>
Total				1.88	1.50	\$.76	\$ 1.70

Irrigation: (2)

Preplant	Aug	1	.09*		\$ 4.60	\$ 5.48
Postplant	Sep-Nov	2	<u>.13*</u>		<u>6.90</u>	<u>8.22</u>
Total			.22*		\$11.50	\$13.70

- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, center pivot sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

CASTORS, IRRIGATED, HIGH PLAINS IVEstimated Costs And Returns Per Acre Of Castors, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Castors	cwt.	\$ 5.50	20	\$110.00
2. Variable Costs:				
Pre-Harvest:				
Custom Deep Break <u>1/</u>	ac.	14.00	.2	\$ 2.80
Seed	lb.	.33	20	6.60
Fertilizer (80-40-0)	ac.	6.80	1	6.80
Herbicide	ac.	4.19	1	4.19
Machinery	ac.	2.25	1	2.25
Tractor (1)	hr.	1.48	1.5	2.22
Tractor (2)	hr.	1.38	.8	1.10
Tractor (3)	hr.	.63	.1	.06
Labor, Tractor & Machinery	hr.	2.00	3	6.00
Labor Irrigation	hr.	2.00	.8	1.60
Irrigation Machinery	ac. in.	.78	13	10.14
Crop Insurance	\$100	8.36	.6	5.02
Interest on Op. Cap.	mo.	.085	4	1.38
Subtotal, Pre-Harvest				\$ 50.16
Harvest:				
Combine	cwt.	.75	20	\$ 15.00
Haul	cwt.	.10	20	2.00
Subtotal, Harvest				\$ 17.00
Total Variable Costs				\$ 67.16
3. Income Above Variable Costs				\$ 42.84
4. Fixed Costs:				
Machinery	ac.	3.50	1	\$ 3.50
Tractor (1)	hr.	1.72	1.5	2.58
Tractor (2)	hr.	1.19	.8	.95
Tractor (3)	hr.	.72	.1	.07
Irrigation	ac. in.	1.25	13	16.25
Land Charge	ac.	14.34	1	14.34
Total Fixed Costs				\$ 37.69
5. Total Costs				\$104.85
6. Net Returns to Management				\$ 5.15

1/ Assumes deep breaking every five years.

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,4,5	Dec	1	.41	.33	\$.40	\$.62
Moldboard	1,6 & 15	Feb	.80	.50	.40	.22	.51
Tandem Disc	2,5	Jan-Feb	1.20	.38	.30	.21	.28
Apply & Inc. Herbicide	5,8	Mar	2	.63	.50	.48	.62
List & Fertilize	1,9	Apr	1	.38	.30	.38	.62
Cultivate	2,13	May	1	.19	.15	.14	.18
Plant	2,9	Jun	1.25	.39	.31	.40	.65
Sandfight	3,14	Jun	2	<u>.12</u>	<u>.10</u>	<u>.02</u>	<u>.02</u>
Total				3.00	2.39	\$ 2.25	\$ 3.50

Irrigation: (2)

Preplant	May	1	.25*		\$ 3.12	\$ 5.00
Postplant	Jun-Aug	3	<u>.57*</u>		<u>7.02</u>	<u>11.25</u>
Total			.82*		\$10.14	\$16.25

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

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkle irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

CASTORS, IRRIGATED, HIGH PLAINS IV

Estimated Costs And Returns Per Acre Of Castors, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Castors	cwt.	\$ 5.50	15	\$ 82.50
2. Variable Costs:				
Pre-Harvest:				
Custom Deep Break <u>1</u> /	ac.	14.00	.14	\$ 1.96
Seed	lb.	.33	20	6.60
Fertilizer (40-0-0)	ac.	1.60	1	1.60
Herbicide	ac.	4.19	1	4.19
Machinery	ac.	2.26	1	2.26
Tractor (1)	hr.	1.48	1.6	2.37
Tractor (2)	hr.	1.38	.8	1.10
Tractor (3)	hr.	.63	.1	.06
Labor, Tractor & Machinery	hr.	2.00	3	6.00
Labor Irrigation	hr.	2.00	.6	1.20
Irrigation Machinery	ac. in.	.78	10	7.80
Crop Insurance	\$100	8.36	.4	3.34
Interest on Op. Cap.	mo.	.085	4	1.09
Subtotal, Pre-Harvest				\$ 39.57
Harvest:				
Combine	cwt.	.75	15	\$ 11.25
Haul	cwt.	.10	15	1.50
Subtotal, Harvest				\$ 12.75
Total Variable Costs				\$ 52.32
3. Income Above Variable Costs				\$ 30.18
4. Fixed Costs:				
Machinery	ac.	3.51	1	\$ 3.51
Tractor (1)	hr.	1.72	1.6	2.75
Tractor (2)	hr.	1.19	.8	.95
Tractor (3)	hr.	.72	.1	.07
Irrigation	ac. in.	1.25	10	12.50
Land Charge	ac.	11.32	1	11.32
Total Fixed Costs				\$ 31.10
5. Total Costs				\$ 83.42
6. Net Returns to Management				\$ (.92)

1/ Assumes deep breaking every seven years.

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CASTORS, IRRIGATED, HIGH PLAINS IV

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,4,5	Dec	1	.41	.33	\$.40	\$.62
Moldboard	1,6 & 15	Jan	.84	.53	.42	.23	.54
Tandem Disc	2,5	Jan-Feb	1.14	.35	.29	.21	.26
Apply & Inc. Herbicide	1,5,8	Mar	2	.63	.50	.48	.62
List & Fertilize	1,9	Apr	1	.38	.30	.38	.62
Cultivate	2,13	May	1	.19	.15	.14	.18
Plant	2,9	Jun	1.25	.39	.31	.40	.65
Sandfight	3,14	Jun	2	<u>.12</u>	<u>.10</u>	<u>.02</u>	<u>.02</u>
Total				3.00	2.40	\$ 2.26	\$ 3.51

Irrigation: (2)

Preplant	May	1	.25*		\$ 3.12	\$ 5.00
Postplant	Jun-Aug	2	<u>.38*</u>		<u>4.68</u>	<u>7.50</u>
Total			.63*		\$ 7.80	\$12.50

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

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

SOUTHERN PEAS, IRRIGATED, HIGH PLAINS IV

Estimated Costs And Returns Per Acre Of Southern Peas, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Peas	cwt.	\$ 6.00	17	\$102.00
2. Variable Costs:				
Pre-Harvest				
Custom Deep Break <u>1/</u>	ac.	14.00	.2	\$ 2.80
Seed	lb.	.16	20	3.20
Fertilizer (40-80-0)	ac.	8.80	1	8.80
Herbicide	ac.	4.19	1	4.19
Machinery	ac.	1.49	1	1.49
Tractor (1)	hr.	1.48	1.2	1.78
Tractor (2)	hr.	1.38	.5	.69
Labor, Tractor & Machinery	hr.	2.00	2.1	4.20
Labor Irrigation	hr.	2.00	.6	1.20
Irrigation Machinery	ac. in.	.78	10	7.80
Interest on Op. Cap.	mo.	.085	4	1.02
Subtotal, Pre-Harvest				\$ 37.17
Harvest:				
Combine	ac.	6.00	1	\$ 6.00
Haul	cwt.	.10	17	1.70
Subtotal, Harvest				\$ 7.70
Total Variable Costs				\$ 44.87
3. Income Above Variable Costs				\$ 57.13
4. Fixed Costs:				
Machinery	ac.	2.31	1	\$ 2.31
Tractor (1)	hr.	1.72	1.2	2.06
Tractor (2)	hr.	1.19	.5	.60
Irrigation	ac. in.	1.25	10	12.50
Land Charge	ac.	17.11	1	17.11
Total Fixed Costs				\$ 34.58
5. Total Costs				\$ 79.45
6. Net Returns to Management				\$ 22.55

1/ Assumes deep breaking every five years.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

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AECO 6

SOUTHERN PEAS, IRRIGATED, HIGH PLAINS IVEstimated Costs, And Requirements Per Acre Of Southern Peas, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Moldboard	1,6,15	Feb	.8	.50	.40	\$.20	\$.40
Tandem Disc	2,5	Jan-Feb	1.2	.38	.30	.21	.28
Apply & Inc. Herbicide	1,5,8	Mar	1	.31	.25	.24	.31
List & Fertilize	1,9	Apr	1	.38	.30	.38	.62
Cultivate	2,13	May	1	.19	.15	.14	.18
Plant	1,9	Jun	1	<u>.31</u>	<u>.25</u>	<u>.32</u>	<u>.52</u>
Total				2.07	1.65	\$ 1.49	\$ 2.31

Irrigation: (2)

Preplant	Jun	1	.25*		\$ 3.12	\$ 5.00
Postplant	Jul-Aug	2	<u>.38*</u>		<u>4.68</u>	<u>7.50</u>
Total			.63*		\$ 7.80	\$12.50

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

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

SOUTHERN PEAS, IRRIGATED, HIGH PLAINS IV

Estimated Costs And Returns Per Acre Of Sourthern Peas, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Peas	cwt.	\$ 6.00	13	\$ 78.00
2. Variable Costs:				
Pre-Harvest:				
Custom Deep Break <u>1/</u>	ac.	14.00	.14	\$ 1.96
Seed	lb.	.16	20	3.20
Fertilizer (30-60-0)	ac.	6.80	1	6.80
Herbicide	ac.	4.19	1	4.19
Machinery	ac.	1.52	1	1.52
Tractor (1)	hr.	1.48	1.2	1.78
Tractor (2)	hr.	1.38	.4	.55
Labor, Tractor & Machinery	hr.	2.00	2.1	4.20
Labor Irrigation	hr.	2.00	.6	1.20
Irrigation Machinery	ac. in.	.78	10	7.80
Interest on Op. Cap.	mo.	.085	4	.94
Subtotal, Pre-Harvest				\$ 34.14
Harvest:				
Combine	ac.	6.00	1	\$ 6.00
Haul	cwt.	.10	13	1.30
Subtotal, Harvest				\$ 7.30
Total Variable Costs				\$ 41.44
3. Income Above Variable Costs				\$ 36.56
4. Fixed Costs:				
Machinery	ac.	2.43	1	\$ 2.43
Tractor (1)	hr.	1.72	1.2	2.06
Tractor (2)	hr.	1.19	.4	.48
Irrigation	ac. in.	1.25	10	12.50
Land Charge	ac.	9.90	1	9.90
Total Fixed Costs				\$ 27.37
5. Total Costs				\$ 68.81
6. Net Returns to Management				\$ 9.19

1/ Assumes deep breaking every seven years.

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AECO 6

SOUTHERN PEAS, IRRIGATED, HIGH PLAINS IV

04155121

Estimated Costs, And Requirements Per Acre Of Southern Peas, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Moldboard	1,6,15	Feb	.84	.53	.42	\$.23	\$.54
Tandem Disc	2,5	Jan-Feb	1.14	.35	.29	.21	.26
Apply & Inc. Herbicide	1,5,8	Mar	1	.31	.25	.24	.31
List & Fertilize	1,9	Apr	1	.38	.30	.38	.62
Cultivate	2,13	May	1	.19	.15	.14	.18
Plant	1,9	Jun	1	<u>.31</u>	<u>.25</u>	<u>.32</u>	<u>.52</u>
Total				2.07	1.66	\$ 1.52	\$ 2.43

Irrigation: (2)

Preplant	Jun	1	.25*		\$ 3.12	\$ 5.00
Postplant	Jul-Aug	2	<u>.38*</u>		<u>4.68</u>	<u>7.50</u>
Total			.63*		\$ 7.80	\$12.50

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

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IVEstimated Costs And Returns Per Acre Of Permanent Pasture, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	AUM	\$ 12.00	10	\$120.00
2. Variable Costs:				
Fertilizer (150-80-0)	ac.	19.20	1	\$ 19.20
Weed Control	ac.	3.00	1	3.00
Tractor (3)	hr.	.63	.6	.38
Labor, Tractor & Machinery	hr.	2.00	.8	1.60
Labor Irrigation	hr.	2.00	1.5	3.00
Irrigation Machinery	ac. in.	.78	24	18.72
Interest on Op. Cap.	mo.	.085	6	<u>1.95</u>
Total Variable Costs				\$ 47.85
3. Income Above Variable Costs				\$ 72.15
4. Fixed Costs:				
Tractor (3)	hr.	.72	.6	\$.43
Irrigation	ac. in.	1.25	24	30.00
Land Charge	ac.	6.00	1	6.00
Establishment Cost <u>1/</u>	ac.	10.29	1	<u>10.29</u>
Total Fixed Costs				\$ 46.72
5. Total Costs				\$ 94.57
6. Net Returns to Management				\$ 25.43

1/ Net Cost of establishment prorated over five years.

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IV

04170111

Estimated Costs, And Requirements Per Acre
Of Permanent 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
Fertilize	3	Apr-Sep	3	.75	.60	-	-

Irrigation: (2)

Postplant	Apr-Sep	8	1.51*		\$18.72	\$30.00
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(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, and 3 acre-inches at each irrigation.

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IVEstimated Costs And Returns Per Acre Of Permanent Pasture, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	AUM	\$ 12.00	6.5	\$ 78.00
2. Variable Costs:				
Fertilizer (100-60-0)	ac.	13.40	1	\$ 13.40
Weed Control	ac.	1.50	1	1.50
Tractor (3)	hr.	.63	.4	.25
Labor, Tractor & Machinery	hr.	2.00	.5	1.00
Labor Irrigation	hr.	2.00	1	2.00
Irrigation Machinery	ac. in.	.78	15	11.70
Interest on Op. Cap.	mo.	.085	6	<u>1.27</u>
Total Variable Costs				\$ 31.12
3. Income Above Variable Costs				\$ 46.88
4. Fixed Costs:				
Tractor (3)	hr.	.72	.4	\$.29
Irrigation	ac. in.	1.25	15	18.75
Land Charge	ac.	4.50	1	4.50
Establishment Cost <u>1/</u>	ac.	12.08	1	<u>12.08</u>
Total Fixed Costs				\$ 35.62
5. Total Costs				\$ 66.74
6. Net Returns to Management				\$ 11.26

1/ Net cost of establishment prorated over five years.

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IV

04170121

Estimated Costs, And Requirements Per Acre
Of Permanent Pasture, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Fertilize	3	Apr-Sep	2	.50	.40	-	-

Irrigation: (2)

Postplant		Apr-Sep	5	.95*		\$11.70	\$18.75
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(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, and 3 acre-inches at each irrigation.

PERMANENT PASTURE ESTABLISHMENT, IRRIGATED, HIGH PLAINS IVEstimated Costs And Returns Per Acre Of Permanent
Pasture Establishment, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	AUM	\$ 12.00	3	\$ 36.00
2. Variable Costs:				
Sprigs	bu.	.50	24	\$ 12.00
Fertilizer (150-80-0)	ac.	19.20	1	19.20
Machinery	ac.	.63	1	.63
Tractor (1)	hr.	1.48	.8	1.18
Tractor (2)	hr.	1.38	.5	.69
Labor, Tractor & Machinery	hr.	2.00	1.5	3.00
Labor Irrigation	hr.	2.00	1	2.00
Irrigation Machinery	ac. in.	.78	16	12.48
Interest on Op. Cap.	mo.	.085	6	<u>2.18</u>
Total Variable Costs				\$ 53.36
3. Income Above Variable Costs				\$(17.36)
4. Fixed Costs:				
Machinery	ac.	1.10	1	\$ 1.10
Tractor (1)	hr.	1.72	.8	1.38
Tractor (2)	hr.	1.19	.5	.60
Irrigation	ac. in.	1.25	16	20.00
Land Charge	ac.	11.00	1	<u>11.00</u>
Total Fixed Costs				\$ 34.08
5. Total Costs				\$ 87.44
6. Net Cost of Establishment				\$ 51.44

PERMANENT PASTURE ESTABLISHMENT, IRRIGATED, HIGH PLAINS IV

04171111

Estimated Costs, And Requirements Per Acre Of Permanent
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
Moldboard	1,6,15	Feb	1	.63	.50	\$.27	\$.64
Tandem Disc	2,5	Feb	1	.31	.25	.18	.23
Fertilize	2	Mar	1	.25	.20	-	-
Tandem Disc	1,5	Apr	1	<u>.31</u>	<u>.25</u>	<u>.18</u>	<u>.23</u>
Total				1.50	1.20	\$.63	\$ 1.10

Irrigation: (2)

Preplant	Apr	1	.25*		\$ 3.12	\$ 5.00
Postplant	May-Aug	4	<u>.76*</u>		<u>9.36</u>	<u>15.00</u>
Total			1.01*		\$12.48	\$20.00

- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

PERMANENT PASTURE ESTABLISHMENT, IRRIGATED, HIGH PLAINS IVEstimated Costs And Returns Per Acre Of Permanent
Pasture Establishment, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grazing	AUM	\$ 12.00	2	\$ 24.00
2. Variable Costs:				
Sprigs	bu.	.50	24	\$ 12.00
Fertilizer (100-60-0)	ac.	13.40	1	13.40
Machinery	ac.	.63	1	.63
Tractor (1)	hr.	1.48	.8	1.18
Tractor (2)	hr.	1.38	.5	.69
Labor, Tractor & Machinery	hr.	2.00	1.5	3.00
Labor Irrigation	hr.	2.00	1	2.00
Irrigation Machinery	ac. in.	.78	16	12.48
Interest on Op. Cap.	mo.	.085	6	<u>1.93</u>
Total Variable Costs				\$ 47.31
3. Income Above Variable Costs				\$(23.31)
4. Fixed Costs:				
Machinery	ac.	1.10	1	\$ 1.10
Tractor (1)	hr.	1.72	.8	1.38
Tractor (2)	hr.	1.19	.5	.60
Irrigation	ac. in.	1.25	16.	20.00
Land Charge	ac.	14.00	1	<u>14.00</u>
Total Fixed Costs				\$ 37.08
5. Total Costs				\$ 84.39
6. Net Cost of Establishment				\$ 60.39

PERMANENT PASTURE ESTABLISHMENT, IRRIGATED, HIGH PLAINS IV

04171121

Estimated Costs, And Requirements Per Acre Of Permanent
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
Moldboard	1,6,15	Feb	1	.63	.50	\$.27	\$.64
Tandem Disc	2,5	Feb	1	.31	.25	.18	.23
Fertilize	2	Mar	1	.25	.20	-	-
Tandem Disc	1,5	Mar	1	<u>.31</u>	<u>.25</u>	<u>.18</u>	<u>.23</u>
Total				1.50	1.20	\$.63	\$ 1.10

Irrigation: (2)

Preplant	Apr	1	.25*		\$ 3.12	\$ 5.00
Postplant	May-Aug	4	<u>.76*</u>		<u>9.36</u>	<u>15.00</u>
Total			1.01*		\$12.48	\$20.00

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

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	bu.	\$ 1.30	35	\$ 45.50
Grazing	AUM	12.00	1.5	18.00
Total				\$ 63.50
2. Variable Costs:				
Pre-Harvest:				
Custom Deep Break <u>1/</u>	ac.	14.00	.2	\$ 2.80
Seed	bu.	2.50	1.2	3.00
Fertilizer (50-0-0)	ac.	2.00	1	2.00
Machinery	ac.	.65	1	.65
Tractor (1)	hr.	1.48	.8	1.18
Tractor (2)	hr.	1.38	.5	.69
Labor, Tractor & Machinery	hr.	2.00	1.5	3.00
Labor Irrigation	hr.	2.00	1	2.00
Irrigation Machinery	ac. in.	.78	16	12.48
Crop Insurance	\$100	10.20	.2	2.04
Interest on Op. Cap.	mo.	.085	8	1.69
Subtotal, Pre-Harvest				\$ 31.53
Harvest:				
Combine	ac.	3.75	1	\$ 3.75
Haul	bu.	.05	35	1.75
Subtotal, Harvest				\$ 5.50
Total Variable Costs				\$ 37.03
3. Income Above Variable Costs				\$ 26.47
4. Fixed Costs:				
Machinery	ac.	1.12	1	\$ 1.12
Tractor (1)	hr.	1.72	.8	1.38
Tractor (2)	hr.	1.19	.5	.60
Irrigation	ac. in.	1.25	16	20.00
Land Charge	ac.	2.67	1	2.67
Total Fixed Costs				\$ 25.77
5. Total Costs				\$ 62.80
6. Net Returns to Management				\$.70
7. Government Payment (\$1.57/bu x yield less rent) <u>2/</u>				\$ 36.67
8. Net Return Including Government Payment				\$ 37.37

1/ Assumes deep breaking every five years.

2/ Based on planted acres. No allowance is made for required set-aside acreage of 75%.

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AECO 6

WHEAT, IRRIGATED, HIGH PLAINS IVEstimated Costs, And Requirements Per Acre Of Wheat, 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
Tandem Disc	1,5	Jul	2	.63	.50	\$.36	\$.46
Fertilize	2	Aug	1	.25	.20	-	-
Tandem Disc	1,5	Aug	1	.31	.25	.18	.23
Plant	2,12	Sep	1	<u>.31</u>	<u>.25</u>	<u>.11</u>	<u>.43</u>
Total				1.50	1.20	\$.65	\$ 1.12

Irrigation: (2)

Preplant	Aug	1	.25*		\$ 3.12	\$ 5.00
Postplant	Oct-Apr	4	<u>.76*</u>		<u>9.36</u>	<u>15.00</u>
Total			1.01*		\$12.48	\$20.00

- (1) Labor hours calculated at 1.25 times tractor hours except where noted by *.
- (2) See attached Irrigation Cost Sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

WHEAT, IRRIGATED, HIGH PLAINS IV

Estimated Costs And Returns Per Acre Of Wheat, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	bu	\$ 1.30	30	\$ 39.00
Grazing	AUM	12.00	1.5	18.00
Total				\$ 57.00
2. Variable Costs:				
Pre-Harvest:				
Custom Deep Break <u>1/</u>	ac.	14.00	.14	\$ 1.96
Seed	bu.	2.50	1.2	3.00
Fertilizer (40-0-0)	ac.	1.60	1	1.60
Machinery	ac.	.65	1	.65
Tractor (1)	hr.	1.48	.8	1.18
Tractor (2)	hr.	1.38	.5	.69
Labor, Tractor & Machinery	hr.	2.00	1.5	3.00
Labor Irrigation	hr.	2.00	.8	1.60
Irrigation Machinery	ac. in.	.78	13	10.14
Crop Insurance	\$100	10.20	.2	2.04
Interest on Op. Cap.	mo.	.085	8	1.47
Subtotal, Pre-Harvest				\$ 27.33
Harvest:				
Combine	ac.	3.50	1	\$ 3.50
Haul	bu.	.05	30	1.50
Subtotal, Harvest				\$ 5.00
Total Variable Costs				\$ 32.33
3. Income Above Variable Costs				\$ 24.67
4. Fixed Costs:				
Machinery	ac.	1.12	1	\$ 1.12
Tractor (1)	hr.	1.72	.8	1.38
Tractor (2)	hr.	1.19	.5	.60
Irrigation	ac. in.	1.25	13	15.25
Land Charge	ac.	3.80	1	3.80
Total Fixed Costs				\$ 23.15
5. Total Costs				\$ 55.48
6. Net Returns to Management				\$ 1.52
7. Government Payment (\$1.57/bu x yield less rent) <u>2/</u>				\$ 31.42
8. Net Return Including Government Payment				\$ 32.94

1/ Assumes deep breaking every seven years.2/ Based on planted acres. No allowance made for set-aside acreage of 75%.

WHEAT, IRRIGATED, HIGH PLAINS IV

Estimated Costs, And Requirements Per Acre Of Wheat, 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
Tandem Disc	1,5	Jul	2	.63	.50	\$.36	\$.46
Fertilize	2	Aug	1	.25	.20	-	-
Tandem Disc	1,5	Aug	1	.31	.25	.18	.23
Plant	2,12	Sep	1	<u>.31</u>	<u>.25</u>	<u>.11</u>	<u>.43</u>
Total				1.50	1.20	\$.65	\$ 1.12

Irrigation: (2)

Preplant	Aug	1	.25*		\$ 3.12	\$ 5.00
Postplant	Oct-Apr	3	<u>.57*</u>		<u>7.02</u>	<u>11.25</u>
Total			.82*		\$10.14	\$16.25

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

(2) See attached irrigation cost sheet. Assumed at 600 GPM, 250 feet well, sprinkler irrigation, natural gas pumping unit, 4 acre-inches preplant and 3 acre-inches at each postplant.

Estimated Costs And Returns Per Acre Of Wheat, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	bu.	\$ 1.30	12	\$ 15.60
Grazing	AUM	12.00	.4	4.80
Total				\$ 20.40
2. Variable Costs:				
Pre-Harvest:				
Seed	bu.	2.50	.5	\$ 1.25
Machinery	ac.	.53	1	.53
Tractor (1)	hr.	1.48	.5	.74
Tractor (2)	hr.	1.38	.4	.55
Labor, Tractor & Machinery	hr.	2.00	1.1	2.20
Crop Insurance	\$100	11.15	.1	1.12
Interest on Op. Cap.	mo.	.085	8	.36
Subtotal, Pre-Harvest				\$ 6.75
Harvest:				
Combine	ac.	3.00	1	\$ 3.00
Haul	bu.	.05	12	.60
Subtotal, Harvest				\$ 3.60
Total Variable Costs				\$ 10.35
3. Income Above Variable Costs				\$ 10.05
4. Fixed Costs:				
Machinery	ac.	.96	1	\$.96
Tractor (1)	hr.	1.72	.5	.86
Tractor (2)	hr.	1.19	.4	.48
Land Charge	ac.	5.60	1	5.60
Total Fixed Costs				\$ 7.90
5. Total Costs				\$ 18.25
6. Net Returns to Management				\$ 2.15
7. Government Payment (\$1.57/bu x yield less rent) ^{1/}				\$ 12.56
8. Net Return Including Government Payment				\$ 14.71

^{1/} Based on planted acres. No allowance is made for required set-aside acreage of 75%

Estimated Costs, And Requirements Per Acre Of Wheat, 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
Tandem Disc	1,5	Jul	1	.31	.25	\$.18	\$.23
Chisel	2,13	Jul	.5	.16	.13	.06	.07
Tandem Disc	1,5	Aug	1	.31	.25	.18	.23
Plant	2,12	Sep	1	<u>.31</u>	<u>.25</u>	<u>.11</u>	<u>.43</u>
Total				1.09	.88	\$.53	\$.96

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