

COTTON, DRYLAND, HIGH PLAINS IIEstimated 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:				
Lint	lb.	\$ .20	200.0	\$ 40.00
seed	ton	60.00	.16	9.60
Total				\$ 49.60
2. Variable Costs:				
Pre-Harvest:				
Seed <u>1/</u>	lb.	.15	15.0	\$ 2.25
Fertilizer (30-0-0)	ac.	2.25	1	2.25
Herbicide	pt.	3.13	1.0	3.13
Insecticide (custom applied)	ac.	2.25	1.0	2.25
Machinery	ac.	1.06	1.0	1.06
Tractor (1)	hr.	1.48	.77	1.14
Tractor (2)	hr.	1.28	.26	.33
Tractor (3)	hr.	.65	.03	.02
Labor, Tractor & Machinery	hr.	2.00	1.32	2.64
Pickup & Miscellaneous	ac.	2.50	1.0	2.50
Hail Insurance	\$100	13.00	.15	1.95
Interest on Op. Cap.	\$	.085	9.76	.83
Subtotal, Pre-Harvest				\$ 20.35
Harvest Costs:				
Strip & haul	cwt.	.50	9.0	\$ 4.50
Ginning, bagging & ties	bale	21.50	.4	8.60
Subtotal, Harvest				\$ 13.10
Total Variable Costs				\$ 33.45
3. Income Above Variable Costs				\$ 16.15
4. Fixed Costs:				
Machinery	ac.	1.68	1.0	\$ 1.68
Tractor (1)	hr.	1.80	.77	1.39
Tractor (2)	hr.	1.33	.26	.34
Tractor (3)	hr.	.72	.03	.02
Land (Rent) <u>2/</u>	ac.	16.53	1.0	16.53
Total Fixed Costs				\$ 19.96
5. Total Costs				\$ 53.41
6. Net Returns				\$ (3.81)
7. Government Payment (\$.15 per pound lint minus 1/3 rent)				\$ 20.00
8. Net Returns Including Government Payment				\$ 16.19

1/ Assumes plant 1.25 times2/ 1/3 of crop

COTTON, DRYLAND, HIGH PLAINS II

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 & Disc	1,12,15	Dec	1	.20	.16	\$ .21	\$ .43
Chisel	1,7	Feb	1	.25	.20	.09	.10
List & Fert	1,11	Mar	1	.25	.20	.26	.41
Cultivate	2,4	Apr	1	.16	.13	.11	.15
Plant	1,11	May	1.25	.26	.21	.27	.43
Sandfight	3,17	June	1	.04	.03	.01	.01
Cultivate	2,4	June	1	<u>.16</u>	<u>.13</u>	<u>.11</u>	<u>.15</u>
TOTALS				1.32	1.06	\$ 1.06	\$ 1.68

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

COTTON, DRYLAND, HIGH PLAINS II

## 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:				
Lint	lb.	\$ .20	150.0	\$ 30.00
Seed	ton	60.00	.12	7.20
Total				\$ 37.20
2. Variable Costs:				
Pre-Harvest:				
Seed <u>1/</u>	lb.	.15	15.0	\$ 2.25
Herbicide	pt.	3.13	1.0	3.13
Insecticide (custom applied)	ac.	2.25	.33	.68
Machinery	ac.	1.17	1.0	1.17
Tractor (1)	hr.	1.63	.77	1.26
Tractor (2)	hr.	1.41	.26	.37
Tractor (3)	hr.	.72	.03	.02
Labor, Tractor & Machinery	hr.	2.00	1.32	2.64
Pickup & Miscellaneous	ac.	2.50	1.0	2.50
Hail Insurance	\$100	13.00	.10	1.30
Interest on Op. Cap.	\$	.085	7.66	.65
Subtotal, Pre-Harvest				\$ 15.97
Harvest Costs:				
Strip & haul	cwt.	.50	7.0	\$ 3.50
Ginning, bagging & ties	bale	21.50	.3	6.45
Subtotal, Harvest				\$ 9.95
Total Variable Costs				\$ 25.92
3. Income Above Variable Costs				\$ 11.30
4. Fixed Costs:				
Machinery	ac.	1.85	1.0	\$ 1.85
Tractor (1)	hr.	1.98	.77	1.52
Tractor (2)	hr.	1.46	.26	.38
Tractor (3)	hr.	.79	.03	.02
Land (Rent) <u>2/</u>	ac.	12.40	1.0	12.40
Total Fixed Costs				\$ 16.17
5. Total Costs				\$ 42.09
6. Net Returns				\$ (4.89)
7. Government Payment (\$.15 per pound lint minus 1/3 rent)				\$ 15.00
8. Net Returns Including Government Payment				\$ 10.11

1/ Assumes plant 1.25 times2/ 1/3 of crop

COTTON, DRYLAND, HIGH PLAINS IIEstimated 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 & Disc	1,12,15	Dec	1	.20	.16	\$ .23	\$ .47
Chisel	1,7	Feb	1	.25	.20	.10	.11
List & Fert	1,111	Mar	1	.25	.20	.29	.45
Cultivate	2,4	Apr	1	.16	.13	.12	.17
Plant	1,11	May	1.25	.26	.21	.30	.47
Sandfight	3,17	June	1	.04	.03	.01	.01
Cultivate	2,4	June	1	<u>.16</u>	<u>.13</u>	<u>.12</u>	<u>.17</u>
TOTALS				1.32	1.06	\$ 1.17	\$ 1.85

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

NOTE: Machinery costs per hour estimated at 1.1 times the cost for high level manager due to decreased efficiency and increased repair costs.

FORAGE SORGHUM FOR GRAZING, IRRIGATED, HIGH PLAINS IIEstimated 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:				
Gain	lb.	\$ .18	540.0	\$ 97.20
2. Variable Costs:				
Seed	lb.	.20	20.0	\$ 4.00
Fertilizer (200-60-0)	ac.	11.80	1	11.80
Herbicide	lb.	2.00	.50	1.00
Machinery	ac.	.94	1.0	.94
Tractor (1)	hr.	1.48	.61	.90
Tractor (2)	hr.	1.28	1.26	1.61
Labor, Tractor & Machinery	hr.	2.00	2.38	4.76
Labor, Irrigation	hr.	1.75	2.21	3.87
Irrigation Machinery	ac.	8.28	1.0	8.28
Interest on Op. Cap.	\$	.085	18.58	1.58
Total Variable Costs				\$ 38.74
3. Income Above Variable Costs				\$ 58.46
4. Fixed Costs:				
Machinery	ac.	2.47	1.0	\$ 2.47
Tractor (1)	hr.	1.80	.61	1.10
Tractor (2)	hr.	1.33	1.26	1.68
Irrigation	ac.	13.50	1.0	13.50
Land (Net Rent) <u>1/</u>	ac.	24.20	1.0	24.20
Total Fixed Costs				\$ 42.95
5. Total Costs				\$ 81.70
6. Net Returns				\$ 15.50

1/ \$35/acre less 80% of irrigation fixed costs

FORAGE SORGHUM FOR GRAZING, IRRIGATED, HIGH PLAINS II

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
Shred & Disc	1,12,15	Nov	1	.20	.16	\$ .21	\$ .43
Chisel, Harrow	1,7,20	Dec	1	.31	.25	.09	.10
Tandem Disc	2,12	Feb	1	.25	.20	.10	.20
Float	2,8	Mar	2	.63	.50	.16	.96
List & Fert	1,11	Mar	1	.25	.20	.26	.41
Rod Weeder	2,16	May	1	.16	.13	.01	.03
Plant	2,14	May	1	.20	.16	.07	.28
Spray	2,23	May	1	.14	.11	.03	.04
Water Furrow	2,24	June	1	<u>.20</u>	<u>.16</u>	<u>.01</u>	<u>.02</u>
TOTALS				2.38	1.87	\$ .94	\$ 2.47

## Irrigation

Preplant (2)	Mar	1	.74		\$ 2.76	\$ 4.50
Postplant (2)	Jun-Aug	3	<u>1.47</u>		<u>5.52</u>	<u>9.00</u>
TOTALS			2.21		\$ 8.28	\$13.50

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 inches acre preplant and 4 acre inches at each postplant.

FORAGE SORGHUM FOR GRAZING, IRRIGATED, HIGH PLAINS IIEstimated 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:				
Gain	lb.	\$ .18	405.0	\$ 72.90
2. Variable Costs:				
Seed	lb.	.20	20.0	\$ 4.00
Fertilizer (150-50-0)	ac.	9.25	1	9.25
Herbicide	lb.	2.00	.5	1.00
Machinery	ac.	1.32	1.0	1.32
Tractor (1)	hr.	1.63	.61	.99
Tractor (2)	hr.	1.41	1.26	1.78
Labor, Tractor & Machinery	hr.	2.00	2.29	4.58
Irrigation Machinery	ac.	7.09	1.0	7.09
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	\$	.085	18.51	1.57
Total Variable Costs				\$ 39.59
3. Income Above Variable Costs				
				\$ 33.31
4. Fixed Costs:				
Machinery	ac.	2.71	1.0	\$ 2.71
Tractor (1)	hr.	1.98	.61	1.21
Tractor (2)	hr.	1.46	1.26	1.84
Irrigation	ac.	11.55	1.0	11.55
Land (Net Rent) <u>1/</u>	ac.	25.76	1.0	25.76
Total Fixed Costs				\$ 43.07
5. Total Costs				
				\$ 82.66
6. Net Returns				
				\$ (9.76)

1/ \$35/acre less 80% of irrigation fixed costs

FORAGE SORGHUM FOR GRAZING, IRRIGATED, HIGH PLAINS II

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
Shred & Disc	1,12,15	Nov	1	.20	.16	\$ .23	\$ .47
Chisel, Harrow	1,7,20	Dec	1	.31	.25	.10	.11
Tandem Disc	2,12	Feb	1	.25	.20	.11	.22
Float	2,8	Mar	2	.63	.50	.19	1.06
List & Fert	1,11	Mar	1	.25	.20	.29	.45
Rod Weeder	2,16	May	1	.16	.13	.01	.03
Plant	2,14	May	1	.20	.16	.08	.31
Spray	2,23	May	1	.14	.11	.03	.04
Water Furrow	2,24	June	1	<u>.20</u>	<u>.16</u>	<u>.01</u>	<u>.02</u>
TOTALS				2.29	1.87	\$ 1.04	\$ 2.71

## Irrigation:

Preplant (2)	Mar	1	.74		\$ 3.04	\$ 4.95
Postplant (2)	Jun-Aug	2	<u>.98</u>		<u>4.05</u>	<u>6.60</u>
TOTALS			1.72		\$ 7.09	\$11.55

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery cost per hour estimated at 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

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AECO 6



FORAGE SORGHUM FOR GRAZING, DRYLAND, HIGH PLAINS II

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Gain	lb.	\$ .18	50.0	\$ 9.00
2. Variable Costs:				
Seed	lb.	.20	5.0	\$ 1.00
Machinery	ac.	.44	1.0	.44
Tractor (1)	hr.	1.63	.48	.78
Tractor (2)	hr.	1.41	.36	.51
Tractor (3)	hr.	.72	.10	.07
Labor, Tractor & Machinery	ac.	2.00	1.17	2.34
Pickup & Misc.	ac.	2.50	1.0	2.50
Interest on Op. Cap.	\$	.085	3.62	<u>.31</u>
Total Variable Costs				\$ 7.95
3. Income Above Variable Costs				\$ 1.05
4. Fixed Costs:				
Machinery	ac.	.89	1.0	\$ .89
Tractor (1)	hr.	1.98	.48	.95
Tractor (2)	hr.	1.46	.36	.53
Tractor (3)	hr.	.79	.10	.08
Land (Rent) <u>1/</u>	ac.	3.00	1.0	<u>3.00</u>
Total Fixed Costs				\$ 5.45
5. Total Costs				\$ 13.40
6. Net Returns				\$ (4.40)

1/ 1/3 of gross income

FORAGE SORGHUM FOR GRAZING, DRYLAND, HIGH PLAINS II

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
Chisel	1,7	Feb-Apr	3	.60	.48	\$ .24	\$ .33
Tandem Disc	2,12	Apr	1	.25	.20	.11	.22
Plant	2,14	May	1	.20	.16	.08	.31
Harrow	3,20	June	1	<u>.12</u>	<u>.10</u>	<u>.01</u>	<u>.03</u>
TOTALS				1.17	.94	\$ .44	\$ .89

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

FORAGE SORGHUM FOR HAY, DRYLAND, HIGH PLAINS IIEstimated Costs And Returns Per Acre Of Forage  
Sorghum For Hay, Typical Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Hay	ton	\$ 25.00	1.0	\$ 25.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.20	5.0	\$ 1.00
Machinery	ac.	.44	1.0	.44
Tractor (1)	hr.	1.63	.48	.78
Tractor (2)	hr.	1.41	.36	.51
Tractor (3)	hr.	.72	.10	.07
Labor, Tractor & Machinery	hr.	2.00	1.17	2.34
Pickup & Miscellaneous	ac.	2.50	1.0	2.50
Interest on Op. Cap.	\$	.085	3.82	.31
Subtotal, Pre-Harvest				\$ 7.95
Harvest:				
Custom swath, bale & stack	bale	.45	34.00	\$ 15.30
Total Variable Costs				\$ 23.25
3. Income Above Variable Costs				\$ 1.75
4. Fixed Costs:				
Machinery	ac.	.89	1.0	\$ .89
Tractor (1)	hr.	1.98	.48	.95
Tractor (2)	hr.	1.46	.36	.53
Tractor (3)	hr.	.79	.10	.08
Land (Rent) <u>1/</u>	ac.	8.33	1.0	8.33
Total Fixed Costs				\$ 18.22
5. Total Costs				\$ 41.47
6. Net Returns				\$(16.47)

1/ 1/3 of gross income

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AECO 6

FORAGE SORGHUM FOR HAY, DRYLAND, HIGH PLAINS II

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

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Chisel	1,7	Feb-Apr	3	.60	.48	\$ .24	\$ .33
Tandem Disc	2,12	Apr	1	.25	.20	.11	.22
Plant	2,14	May	1	.20	.16	.08	.31
Harrow	3,20	June	1	<u>.12</u>	<u>.10</u>	<u>.01</u>	<u>.03</u>
TOTALS				1.17	.94	\$ .44	\$ .89

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

NOTE: Machinery cost per hour estimated at 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

GRAIN SORGHUM, IRRIGATED, HIGH PLAINS II

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Grain	cwt.	\$ 2.00	75.0	\$150.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.21	12.0	\$ 2.52
Fertilizer (250-80-0)	ac.	15.15	1	15.15
Herbicide	lb.	2.90	2.0	5.80
Insecticide (custom applied)	ac.	2.25	2.0	4.50
Tractor (1)	hr.	1.48	1.02	1.51
Tractor (2)	hr.	1.28	1.32	1.69
Machinery	ac.	1.55	1.0	1.55
Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
Labor, Irrigation	hr.	1.75	2.71	5.11
Irrigation Machinery	ac.	10.12	1.0	10.12
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	\$	.085	29.39	2.50
Subtotal, Pre-Harvest				\$ 61.29
Harvest:				
(custom-includes haul)	cwt.	.20	75.0	\$ 15.00
Total Variable Costs				\$ 76.29
3. Income Above Variable Costs				\$ 73.71
4. Fixed Costs:				
Machinery	ac.	3.35	1.0	\$ 3.35
Tractor (1)	hr.	1.80	1.02	1.84
Tractor (2)	hr.	1.33	1.32	1.76
Irrigation	ac.	16.50	1.0	16.50
Land (Net Rent) <u>1/</u>	ac.	21.80	1.0	21.80
Total Fixed Costs				\$ 45.25
5. Total Costs				\$121.54
6. Net Returns				\$ 28.46
7. Government Payments (\$.29/bu x 134 bu x 50%) allotment				\$ 19.43
8. Net Returns Including Government Payment				\$ 47.89

1/ \$35/acre less 80% of irrigation fixed costs

GRAIN SORGHUM, IRRIGATED, HIGH PLAINS II

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
Shred & Disc	1,12,15	Nov	1	.20	.16	\$ .21	\$ .43
Tandem Disc	2,12	Nov	1	.25	.20	.10	.20
Chisel, Harrow	1,7,20	Dec	1	.31	.25	.09	.10
Offset Disc	1,13	Feb	1	.31	.25	.17	.36
Tandem Disc	2,12	Feb	1	.25	.20	.10	.20
Float	2,8	Mar	2	.63	.50	.16	.96
List & Fert	1,11	Mar	1	.25	.20	.26	.41
Cultivate	2,4	Apr	1	.16	.13	.11	.15
Rod Weeder	2,16	May	1	.16	.13	.01	.03
Plant Spray	1,11, 23,10	May	1	.20	.16	.33	.49
Water Furrow	2,24	June	1	<u>.20</u>	<u>.16</u>	<u>.01</u>	<u>.02</u>
TOTALS				2.92	2.34	\$ 1.55	\$ 3.35

## Irrigation:

Preplant (2)	Mar	1	.74		\$ 2.76	\$ 4.50
Postplant (2)	Jun-Aug	4	<u>1.97</u>		<u>7.36</u>	<u>12.00</u>
TOTALS			2.71		\$10.12	\$16.50

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

GRAIN SORGHUM, IRRIGATED, HIGH PLAINS II

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Grain	cwt.	\$ 2.00	65.0	\$130.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.21	12.0	\$ 2.52
Fertilizer (130-60-0)	ac.	9.35	1	9.35
Herbicide	lb.	2.90	2.0	5.80
Insecticide (custom applied)	ac.	2.25	2.0	4.50
Machinery	ac.	1.71	1.0	1.71
Tractor (1)	hr.	1.63	1.02	1.66
Tractor (2)	hr.	1.41	1.32	1.86
Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
Labor, Irrigation	hr.	1.75	2.21	3.87
Irrigation Machinery	ac.	9.11	1.0	9.11
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	\$	.085	25.61	2.17
Subtotal, Pre-Harvest				\$ 53.39
Harvest:				
(custom includes haul)	cwt.	.20	65.0	\$ 13.00
Total Variable Costs				\$ 66.39
3. Income Above Variable Costs				\$ 63.61
4. Fixed Costs:				
Machinery	ac.	3.69	1.0	\$ 3.69
Tractor (1)	hr.	1.98	1.02	2.02
Tractor (2)	hr.	1.46	1.32	1.93
Irrigation	ac.	14.85	1.0	14.85
Land (Net Rent) <u>1/</u>	ac.	23.12	1.0	23.12
Total Fixed Costs				\$ 45.61
5. Total Costs				\$112.00
6. Net Returns				\$ 18.00
7. Government Payments (\$.29/bu. x 116 bu. x 50% allotment)				\$ 16.82
8. Net Returns Including Government Payment				\$ 34.82

1/ \$35/acre less 80% of irrigation fixed costs

GRAIN SORGHUM, IRRIGATED, HIGH PLAINS IIEstimated 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
Shred & Disc	1,12,15	Nov	1	.20	.16	\$ .23	\$ .47
Tandem Disc	2,12	Nov	1	.25	.20	.11	.22
Chisel, Harrow	1,7,20	Dec	1	.31	.25	.10	.11
Offset Disc	1,13	Feb	1	.31	.25	.19	.40
Tandem Disc	2,12	Feb	1	.25	.20	.11	.22
Float	2,8	Mar	2	.63	.50	.18	1.06
List & Fert	1,11	Mar	1	.25	.20	.29	.45
Cultivate	2,4	Apr	1	.16	.13	.12	.17
Rod Weeder	2,16	May	1	.16	.13	.01	.03
Plant, Spray	1,11, 23,10	May	1	.20	.16	.36	.54
Water Furrow	2,24	Jun	1	<u>.20</u>	<u>.16</u>	<u>.01</u>	<u>.02</u>
TOTALS				2.92	2.34	\$ 1.71	\$ 3.69

## Irrigation:

Preplant (2)	Mar	1	.74		\$ 3.04	\$ 4.95
Postplant (2)	Jun-Aug	3	<u>1.47</u>		<u>6.07</u>	<u>9.90</u>
TOTALS			2.21		\$ 9.11	\$14.85

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE; Machinery cost per hour estimated a 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

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AECO 6



GRAIN SORGHUM, DRYLAND, HIGH PLAINS II

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts from production:				
Grain	cwt.	\$ 2.00	15.0	\$ 30.00
2. Variable Costs:				
Pre-Harvest Costs:				
Seed	lb.	.21	3.0	\$ .63
Fertilizer (30-0-0)	ac.	1.05	1	1.05
Herbicide	lb.			
Machinery	ac.	.44	1.0	.44
Tractor (1)	hr.	1.63	.48	.78
Tractor (2)	hr.	1.41	.36	.51
Tractor (3)	hr.	.72	.10	.07
Labor, Tractor & Machinery	hr.	2.00	1.17	2.34
Pickup & Miscellaneous	ac.	2.50	1.0	2.50
Interest on Op. Cap.	\$	.085	4.10	.35
Subtotal, Pre-Harvest				\$ 8.67
Harvest:				
Custom Combine	ac.	3.50	1.0	\$ 3.50
Haul	cwt.	.10	15.0	1.50
Subtotal, Harvest				\$ 5.00
Total Variable Costs				\$ 13.67
3. Income Above Variable Costs				\$ 16.33
4. Fixed Costs:				
Machinery	ac.	.89	1.0	\$ .89
Tractor (1)	hr.	1.98	.48	.95
Tractor (2)	hr.	1.46	.36	.53
Tractor (3)	hr.	.79	.10	.08
Land (Rent) <u>1/</u>	ac.	10.00	1.0	10.00
Total Fixed Costs				\$ 12.45
5. Total Costs				\$ 26.12
6. Net Returns				\$ 3.88
7. Government Payment (\$.29/bu. x 50% of allotment)				\$ 3.92
8. Net Returns Including Government Payment				\$ 7.80

1/ 1/3 of gross income

GRAIN SORGHUM, DRYLAND, HIGH PLAINS IIEstimated 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
Chisel	1,7	Feb-Apr	3	.60	.48	\$ .24	\$ .33
Tandem	2,12	Apr	1	.25	.20	.11	.22
Plant	2,14	May	1	.20	.16	.08	.31
Harrow	3,20	Jun	1	<u>.12</u>	<u>.10</u>	<u>.01</u>	<u>.03</u>
TOTALS				1.17	.94	\$ .44	\$ .89

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

NOTE: Machinery cost per hour estimated at 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Seed:				
Brome	lb.	\$ .30	15	\$ 4.50
Alfalfa	lb.	.50	5	2.50
Fertilizer (200-80-0)	ac.	13.40	1.0	13.40
Machinery	ac.	.60	1.0	.60
Tractor (1)	hr.	1.80	.33	.59
Tractor (2)	hr.	1.33	1.16	1.54
Tractor (3)	hr.	.72	.10	.07
Labor, Tractor & Machinery	hr.	2.00	2.0	4.00
Labor, Irrigation	hr.	1.75	1.72	3.01
Irrigation Machinery	ac.	6.44	1.0	6.44
Pickup, Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Capital	\$	.085	20.83	1.77
Total Variable Costs				\$ 43.42
3. Fixed Costs:				
Machinery	ac.	1.99	1.0	\$ 1.99
Tractor (1)	hr.	1.80	.33	.59
Tractor (2)	hr.	1.33	1.16	1.54
Tractor (3)	hr.	.72	.10	.07
Irrigation	ac.	10.50	1.0	10.50
Land (Net Rent) <u>1/</u>	ac.	11.60	1.0	11.60
Total Fixed Costs				\$ 26.29
4. Total Establishment Costs				\$ 69.71
5. Annual Establishment Costs (10 year life)				\$ 6.97

1/ \$20/acre (1/2 annual rental) less 80% of irrigation fixed costs

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS II

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
Plow & Bust	1,6,21	July	1	.41	.33	\$ .16	\$ .33
Tandem Disc	2,12	Aug	2	.50	.40	.20	.40
Float	2,8	Aug	2	.63	.50	.16	.96
Border	2,9	Aug	1	.13	.10	.01	.02
Fertilize	3	Aug	1	.13	.10		
Plant	2,14	Aug	1	<u>.20</u>	<u>.16</u>	<u>.07</u>	<u>.28</u>
TOTALS				2.00	1.59	\$ .60	\$ 1.99
Irrigation: (2)		Aug-Sept Nov	3	1.72		\$ 6.44	\$10.50

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IIEstimated 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:				
Gain	lb.	\$ .18	750	\$135.00
2. Variable Costs:				
Establishment	ac.	6.97	1.0	\$ 6.97
Fertilizer (250-80-0)	ac.	15.15	1.0	15.15
Tractor (3)	hr.	.65	.10	.07
Labor, Tractor	hr.	2.00	.13	.26
Labor, Irrigation	hr.	1.75	4.17	7.30
Irrigation Machinery	ac.	15.64	1.0	15.64
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	\$	.085	25.20	<u>2.14</u>
Total Variable Costs				\$ 52.54
3. Income Above Variable Costs				\$ 82.46
4. Fixed Costs:				
Tractor (3)	hr.	.72	.10	\$ .07
Irrigation	ac.	25.50	1.0	25.50
Land (Net Rent) <u>1/</u>	ac.	19.60	1.0	<u>19.60</u>
Total Fixed Costs				\$ 45.17
5. Total Costs				\$ 97.71
6. Net Returns				\$ 37.83

1/ \$40/acre less 80% of irrigation fixed costs

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU.

New, 1972

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AECO 6

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IIEstimated 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		2	.13	.10		
Irrigation:							
Pre-season (2)		Mar	1	.74		\$ 2.76	\$ 4.50
Durring Season (2)			7	<u>3.43</u>		<u>12.88</u>	<u>21.00</u>
Totals				4.17		\$ 15.64	\$ 25.50

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IIEstimated 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:				
Gain	lb.	\$ .18	650	\$117.00
2. Variable Costs:				
Establishment	ac.	9.55	1.0	\$ 9.55
Fertilizer (100-40-0)	ac.	6.70	1.0	6.70
Tractor (3)	hr.	.72	.10	.07
Labor, Tractor	hr.	2.00	.13	.26
Labor, Irrigation	hr.	1.75	3.19	5.58
Irrigation Machinery	ac.	13.16	1.0	13.16
Pickup & Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	\$	.085	20.16	<u>1.71</u>
Total Variable Costs				\$ 42.03
3. Income Above Variable Costs				\$ 74.97
4. Fixed Costs:				
Tractor (3)	hr.	.79	.10	\$ .08
Irrigation	ac.	21.45	1.0	21.45
Land (Net Rent) <u>1/</u>	ac.	22.84	1.0	<u>22.84</u>
Total Fixed Costs				\$ 44.37
5. Total Costs				\$ 86.40
6. Net Returns				\$ 30.60

1/ \$40/acre less 80% of irrigation fixed costs

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS IIEstimated 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		2	.13	.10		
Irrigation:							
Pre-season (2)		Mar	1	.74		\$ 3.04	\$ 4.95
Durring Season (2)			5	<u>2.45</u>		<u>10.12</u>	<u>16.50</u>
Totals				3.19		\$ 13.16	\$ 21.45

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.



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

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. No Income				
2. Variable Costs:				
Seed:				
Brome	lb.	\$ .30	15	\$ 4.50
Alfalfa	lb.	.50	5	2.50
Fertilizer (150-50-0)	ac.	9.25	1.0	9.25
Machinery	ac.	.67	1.0	.67
Tractor (1)	hr.	1.63	.33	.54
Tractor (2)	hr.	1.41	1.16	1.64
Tractor (3)	hr.	.79	.10	.08
Labor, Tractor & Machinery	hr.	2.00	2.0	4.00
Labor, Irrigation	hr.	1.75	1.72	3.01
Irrigation Machinery	ac.	7.08	1.0	7.08
Pickup, Miscellaneous	ac.	5.00	1.0	5.00
Interest on Op. Cap.	\$	.085	19.14	<u>1.63</u>
Total Variable Costs				\$ 39.90
3. Fixed Costs:				
Machinery	ac.	2.19	1.0	\$ 2.19
Tractor (1)	hr.	1.98	.33	.65
Tractor (2)	hr.	1.46	1.16	1.69
Tractor (3)	hr.	.79	.10	.08
Irrigation	ac.	11.55	1.0	11.55
Land (Net Rent) <u>1/</u>	ac.	10.76	1.0	<u>10.76</u>
Total Fixed Costs				\$ 26.92
4. Total Establishment Costs				\$ 66.82
5. Annual Establishment Costs (7 year life)				\$ 9.55

1/ \$20/acre (1/2 annual rental) less 80% of irrigation fixed costs.

PERMANENT PASTURE, IRRIGATED, HIGH PLAINS II

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
Plow & Bust	1,6,21	July	1	.41	.33	\$ .18	\$ .36
Tandem Disc	2,12	Aug	2	.50	.40	.22	.44
Float	2,8	Aug	2	.63	.50	.18	1.06
Border	2,9	Aug	1	.13	.10	.01	.02
Fertilize	3	Aug	1	.13	.10		
Plant	2,14	Aug	1	<u>.20</u>	<u>.16</u>	<u>.08</u>	<u>.31</u>
TOTALS				2.00	1.59	\$ .67	\$ 2.19
Irrigation: (2)		Aug-Sept Nov	3	1.72		\$ 7.08	\$11.55

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

(2) See attached irrigation cost sheet. Assumed at 800 gpm, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery cost per hour estimated at 1.1 times the cost for high level manager due to reduced efficiency and increased repair cost.

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SOYBEANS, IRRIGATED, HIGH PLAINS II

## Estimated Costs And Returns Per Acre Of Soybeans, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:	bu.	\$ 2.50	45	\$112.50
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.08	75	\$ 6.00
Fertilizer (0-40-0)	ac.	3.20	1	3.20
Herbicide	pt.	2.75	1.5	4.13
Machinery	ac.	1.59	1	1.59
Tractor (1)	hr.	1.48	1.03	1.52
Tractor (2)	hr.	1.28	1.65	2.11
Labor, Tractor & Machinery	hr.	2.00	2.93	5.86
Labor, Irrigation	hr.	1.75	2.21	3.87
Irrigation Machinery	ac.	8.28	1	8.28
Pickup, Miscellaneous	ac.	5.00	1	5.00
Interest on Op. Cap.	\$	.085	20.78	<u>1.77</u>
Subtotal, Pre-Harvest				\$ 43.33
Harvest				
Custom	ac.	5.00	1	\$ 5.00
Haul	bu.	.08	45	<u>3.60</u>
Subtotal, Harvest				\$ 8.60
Total Variable Costs				\$ 51.93
3. Income Above Variable Costs				\$ 60.57
4. Fixed Costs				
Machinery	ac.	3.38	1	3.38
Tractor (1)	hr.	1.80	1.03	1.85
Tractor (2)	hr.	1.33	1.65	2.20
Irrigation	ac.	13.50	1	13.50
Land (Net Return) <u>1/</u>	ac.	24.76	1	<u>24.76</u>
Total Fixed Costs				\$ 45.69
5. Total Costs				\$ 97.62
6. Net Returns				\$ 14.88

1/ \$35/acre less 80% of irrigation fixed costs